

**WISeNeT**

# **NETZWERKKAMERA**

Benutzerhandbuch

XNV-6081/XNV-6081R/XNV-8081R  
XND-6081V/XND-6081RV/XND-8081RV  
XND-6081F/XND-6081RF/XND-8081RF



# Netzwerkamera

## Benutzerhandbuch

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❖ Design und technische Daten können ohne vorherige Ankündigung geändert werden.

❖ Die initiale Administrator-ID ist "Administrator" und das Passwort sollte eingestellt werden, wenn Sie sich das erste Mal anmelden.  
Bitte ändern Sie das Passwort alle drei Monate um die persönlichen Daten zu schützen und Schaden infolge Datendiebstahl zu vermeiden.  
Beachten Sie bitte, der Benutzer ist für die Sicherheit und alle weiteren Probleme, die sich aus einem Missmanagement des Passworts ergeben verantwortlich.

## WICHTIGE SICHERHEITSHINWEISE

1. Lesen Sie diese Anweisungen.
2. Bewahren Sie sie auf.
3. Beachten Sie alle Warnungen.
4. Befolgen Sie alle Anweisungen.
5. Verwenden Sie dieses Gerät nicht in der Nähe von Wasser.
6. Die verunreinigte Stelle auf der Produktoberfläche mit einem weichen, trockenen oder feuchten Tuch reinigen. (Keine Reinigungs- oder kosmetischen Mittel verwenden, die Alkohol, Lösungsmittel oder Ölbestandteile enthalten, da diese das Produkt deformieren oder schädigen können.)
7. Blockieren Sie keine Belüftungsöffnungen. Installieren Sie es gemäß den Herstelleranweisungen.
8. Installieren Sie das Gerät nicht in der Nähe von Wärmequellen wie beispielsweise von Radiatoren, Heizkörpern oder anderen Geräten (einschließlich Verstärkern), die Wärme erzeugen.
9. Bitte achten Sie darauf, die Schutzvorrichtung des gepolten bzw. geerdeten Steckers nicht zu beschädigen. Ein gepolter Stecker verfügt über zwei Stifte, von denen einer breiter als der andere ist. Ein geerdeter Stecker hat zwei Stifte und einen Erdungsstift. Der breite Stift oder der dritte Stift ist für Ihre Sicherheit vorgesehen. Wenn der vorgesehene Stecker nicht in Ihre Steckdose passt, wenden Sie sich an einen Elektriker, um die veraltete Steckdose austauschen zu lassen.
10. Schützen Sie das Netzkabel so, dass nicht darauf getreten wird, und dass es insbesondere an den Steckern oder passenden Steckdosen bzw. der Stelle, an der das Kabel das Gerät verlässt, nicht abgeklemmt wird.
11. Verwenden Sie nur die vom Hersteller angegebenen Zusatzgeräte/Zubehörteile.
12. Verwenden Sie für das Gerät nur Gestelle, Ständer, Stative, Konsolen und Tische, die vom Hersteller empfohlen oder in Verbindung mit dem Gerät verkauft werden. Bei Verwendung eines Transportwagens bewegen Sie das Gerät nur mit äußerster Vorsicht, um Verletzungen durch Umkippen zu vermeiden.
13. Trennen Sie das Gerät bei Gewitter oder längerer Abwesenheit vom Stromnetz.
14. Überlassen Sie alle Wartungsarbeiten qualifiziertem Kundendienstpersonal. Wartungsarbeiten sind erforderlich, wenn das Gerät in irgendeiner Weise beschädigt wurde, wie zum Beispiel ein beschädigtes Netzkabel oder Stecker, verschüttete Flüssigkeiten oder Gegenstände, die in das Gerät gefallen sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, nicht normal funktioniert oder fallen gelassen wurde.
15. Dieses Produkt ist dazu bestimmt, mit einer zugelassenen Stromversorgung verwendet zu werden, die mit „Klasse 2“ oder „LPS“ gekennzeichnet ist und mit 12 V DC, 0,45 A oder PoE, 0,15 A bemessen ist. (XND-6081V/F)
16. Dieses Produkt ist dazu bestimmt, mit einer zugelassenen Stromversorgung verwendet zu werden, die mit „Klasse 2“ oder „LPS“ gekennzeichnet ist und mit 12 V DC, 0,90 A oder PoE, 0,27 A bemessen ist. (XND-6081RV/RF)
17. Dieses Produkt ist dazu bestimmt, mit einer zugelassenen Stromversorgung verwendet zu werden, die mit „Klasse 2“ oder „LPS“ gekennzeichnet ist und mit 12 V DC, 0,97 A oder PoE, 0,30 A bemessen ist. (XND-8081RV/RF)
18. Dieses Produkt ist dazu bestimmt, mit einer zugelassenen Stromversorgung verwendet zu werden, die mit „Klasse 2“ oder „LPS“ gekennzeichnet ist und mit 12 V DC, 0,45 A, 24 V AC, 0,58 A oder PoE, 0,15 A bemessen ist. (XNV-6081)
19. Dieses Produkt ist dazu bestimmt, mit einer zugelassenen Stromversorgung verwendet zu werden, die mit „Klasse 2“ oder „LPS“ gekennzeichnet ist und mit 12 V DC, 0,90 A, 24 V AC, 0,97 A oder PoE, 0,27 A bemessen ist. (XNV-6081R)
20. Dieses Produkt ist dazu bestimmt, mit einer zugelassenen Stromversorgung verwendet zu werden, die mit „Klasse 2“ oder „LPS“ gekennzeichnet ist und mit 12 V DC, 0,97 A, 24 V AC, 1,10 A oder PoE, 0,30 A bemessen ist. (XNV-8081R)
21. Wenn Sie bei der Installation des Gerätes zu viel Kraft verwenden, kann es zu Beschädigungen und Fehlfunktionen der Kamera kommen.  
Wenn Sie das Produkt mit Gewalt und nicht konformen Werkzeugen installieren, kann das Produkt beschädigt werden.



22. Stellen Sie das Produkt nicht an Orten auf, an denen chemische Stoffe oder Ölnebel vorhanden sind oder entstehen können. Da Speiseöl wie Sojaöl das Produkt beschädigen oder verwerfen können, darf das Produkt nicht in der Küche oder in der Nähe des Küchentisches installiert werden. Dies kann zu Schäden am Produkt führen.
23. Achten Sie beim Einbau des Produkts darauf, dass die Oberfläche des Produkts nicht mit chemischer Substanz gefärbt wird. Einige chemische Lösungsmittel wie Reiniger oder Klebstoffe können schwere Schäden an der Oberfläche des Produkts verursachen.
24. Wenn Sie das Produkt in einer nicht empfohlene Weise installieren oder demontieren, können die Produktionsfunktionen / Leistung nicht garantiert werden. Installieren Sie das Produkt unter "Installation und Anschluss (Installation and connection)" in der Bedienungsanleitung.
25. Installation oder Verwendung des Produkts ins Wasser kann zu ernsthaften Schäden am Produkt führen.
26. Auch wenn eine schnelle Temperaturänderung Frost in der Kuppel erzeugen könnte, gibt es kein Problem mit dem Video.

## WARNUNG

SETZEN SIE DIESES GERÄT NICHT REGEN ODER FEUCHTIGKEIT AUS, UM DIE GEFAHR EINES BRANDS ODER ELEKTROSCHOCKS ZU REDUZIEREN. STECKEN SIE KEINE METALLGEGENSTÄNDE DURCH DIE BELÜFTUNGSSCHLITZE ODER ANDERE ÖFFNUNGEN DER AUSRÜSTUNG.

Schützen Sie das Gerät vor Flüssigkeitsspritzern und Tropfen. Stellen Sie keine mit Flüssigkeiten gefüllten Behälter auf dem Gerät ab (z. B. Vasen).

Zur Vermeidung von Verletzungen muss das Gerät gemäß der Montageanleitung sicher an der Wand oder Decken befestigt werden.

## VORSICHT



**VORSICHT**  
 GEFAHR EINES  
 ELEKTROSCHOCKS NICHT  
 ÖFFNEN



**VORSICHT : NICHT DIE RÜCKSEITIGE ABDECKUNG ÖFFNEN,  
 ABDECKUNG (ODER RÜCKSEITE) NICHT ABNEHMEN.  
 KEINE VOM BENUTZER ZU WARTENDE TEILE INNEN.  
 WENDEN SIE SICH AN QUALIFIZIERTESKUNDENDIENSTPERSONAL.**

## ERKLÄRUNG DER GRAPHISCHEN SYMBOLE



Das Blitzsymbol im gleichseitigen Dreieck warnt den Benutzer davor, dass im Inneren des Produkts nicht isolierte, „gefährliche Spannungen“ anliegen. Dies kann zu einem elektrischen Schlag führen und stellt eine ernsthafte Verletzungsgefahr dar.



Das Ausrufezeichen im gleichseitigen Dreieck soll Benutzer darauf hinweisen, dass die zum Lieferumfang des Produkts gehörende Dokumentation wichtige Bedienungs- und Instandhaltungsanweisungen (Reparaturanweisungen) enthält.

## Klasse I nbauart

Ein Gerät der KLASSE I sollte nur an einen NETZ-Anschluss mit Schutzerdung angeschlossen werden.

## Akku

Akkus (Akkusatz oder eingelegter Akku) dürfen keiner extremen Hitze, z. B. Sonneneinstrahlung, Feuer oder Ähnlichem, ausgesetzt werden.

Die Batterie kann nicht ersetzt werden.

## Trennung des Geräts

Trennen Sie den Hauptstecker vom Gerät, wenn dieser beschädigt ist. Und wenden Sie sich bitte für die Reparatur an einen Fachmann in Ihrer Nähe.

**Außerhalb der USA könnte ein HAR-Code verwendet werden. Eine Fachwerkstatt wird mit Zubehör einer Fachwerkstatt beauftragt.**

## ACHTUNG

Diese Hinweise zur Wartung und Reparatur gelten nur für qualifiziertes Kundendienstpersonal. Um die Gefahr von Stromschlägen zu verringern, führen Sie nur die Reparaturen aus, die in der Bedienungsanleitung enthalten sind. Überlassen Sie alle weiterführenden Reparaturarbeiten qualifiziertem Personal.

Bitte verwenden Sie die Eingangsleistung für nur eine Kamera und schließen Sie keine zusätzlichen Geräte an.

**Der ITE darf nur mit PoE Netzwerken und ohne Routing zur äußeren Anlage verbunden werden.**

Lesen Sie die folgenden empfohlenen Sicherheitsmaßnahmen sorgfältig durch.

- Stellen sie das Gerät nicht auf eine unebene Fläche.
- Setzen Sie das Gerät keiner direkten Sonneneinstrahlung aus, stellen Sie es nicht in der Nähe von Heizgeräten oder in sehr kalten Bereichen auf.
- Das Gerät nicht in der Nähe von leitendem Material aufstellen.
- Versuchen Sie auf keinen Fall, selbst Reparaturarbeiten auszuführen.
- Stellen Sie kein Glas Wasser auf das Produkt.
- Stellen Sie das Gerät nicht in der Nähe einer magnetischen Quelle auf.
- Blockieren Sie nicht die Belüftungsöffnungen.
- Legen Sie keine schweren Gegenstände auf das Produkt.
- Bitte nutzen Sie beim Installieren/Entfernen der Kamera Schutzhandschuhe. Die hohe Temperatur der Produktoberfläche könnte zu Verbrennungen führen.

Das Benutzerhandbuch ist ein Anleitungsbuch zur Art der Verwendung von Produkten.

Die Verwendungshinweise im Handbuch bedeuten folgendes.

- Referenz : Im Falle einer weiterleitenden Information als Hilfe bei der Produktverwendung
  - Hinweis : Wenn die Möglichkeit besteht, dass Güter oder Menschen durch das Nichtbefolgen der Anleitung zu Schaden kommen
- ※ Bitte lesen Sie das vorliegende Benutzerhandbuch zur eigenen Sicherheit vor der Verwendung von Gütern sorgfältig durch, und heben Sie es an einem sicheren Ort auf.



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## EMPFOHLENE PC-SPEZIFIKATIONEN

- CPU : Intel(R) Core(TM) i7 3.4 GHz oder höher
  - RAM : 8G oder höher
  - Unterstützte Betriebssystem : MS Windows, Mac OS X
  - Empfohlener Browser: Google Chrome  
Unterstützte Browser: MS Explorer, MS Edge, Mozilla Firefox (nur Windows 64bit), Apple Safari (nur Mac OSX)
- ※ Sie können detaillierte Informationen zu verifizierten Betriebssystemen und Browsern im Anhang finden.

## EMPFOHLENE TECHNISCHE DATEN FÜR MICRO MICRO SD/SDHC/SDXC SPEICHERKARTEN

- Empfohlene Kapazität : 16GB bis 256GB (MLC-Typ)
- Folgende Typen von Speicherkarten der folgenden Hersteller werden für diese Kamera empfohlen.
  - Hersteller: SanDisk, Transcend
  - Produktfamilie: Hohe Standfestigkeit

## EMPFOHLENE NAS-SPEZIFIKATIONEN

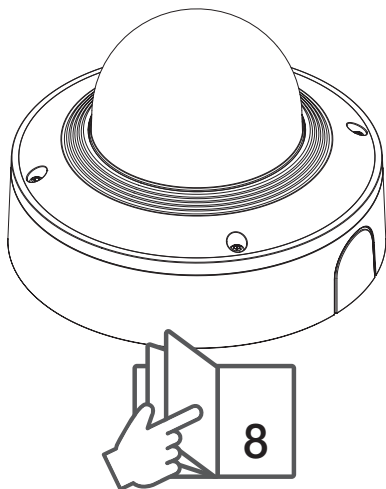
- Empfohlene Kapazität : 200GB oder mehr wird empfohlen.
- Gleichzeitiger Zugriff : Eine NAS-Einheit kann maximal sechzehn Kamerazugriffe aufnehmen.
- Bei dieser Kamera raten wir zu NAS mit den folgenden Spezifikationen.

| Empfohlene Produkte | Verfügbare Größen                                 |
|---------------------|---------------------------------------------------|
| QNAP NAS            | Maximal 16 Kameras können gleichzeitig zugreifen. |
| Synologie NAS       | Maximal 16 Kameras können gleichzeitig zugreifen. |

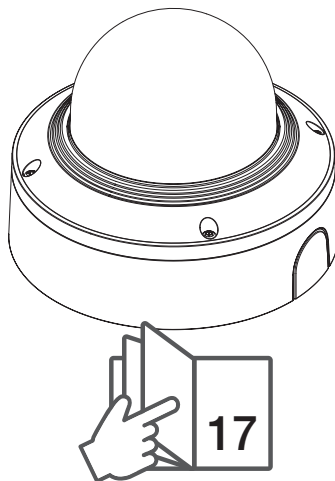


- Falls Sie NAS-Geräte für sonstige Zwecke, als die Videospeicherung verwenden, wird möglicherweise die Anzahl von zugänglichen Kameras reduziert.

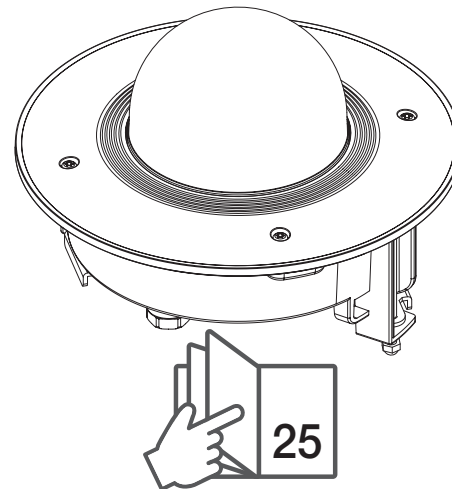
Vandalensichere Außenkuppel  
XNV-6081/XNV-6081R/XNV-8081R



Vandalensichere Innenkuppel  
XND-6081V/XND-6081RV/XND-8081RV

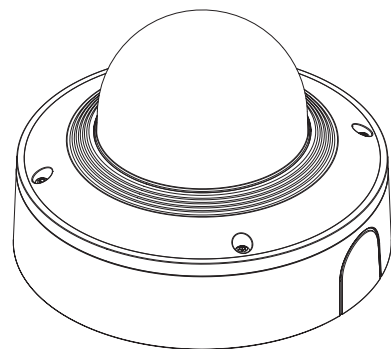


Bündige Kuppel  
XND-6081F/XND-6081RF/XND-8081RF

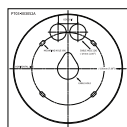
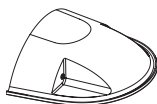
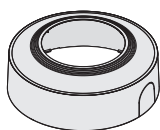
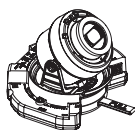
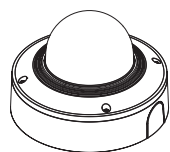


## LIEFERUMFANG

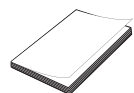
Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.



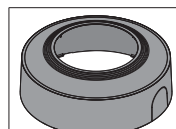
<XNV-6081/XNV-6081R/XNV-8081R>



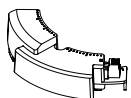
Farbe: Elfenbein



Option (separat verkauft)

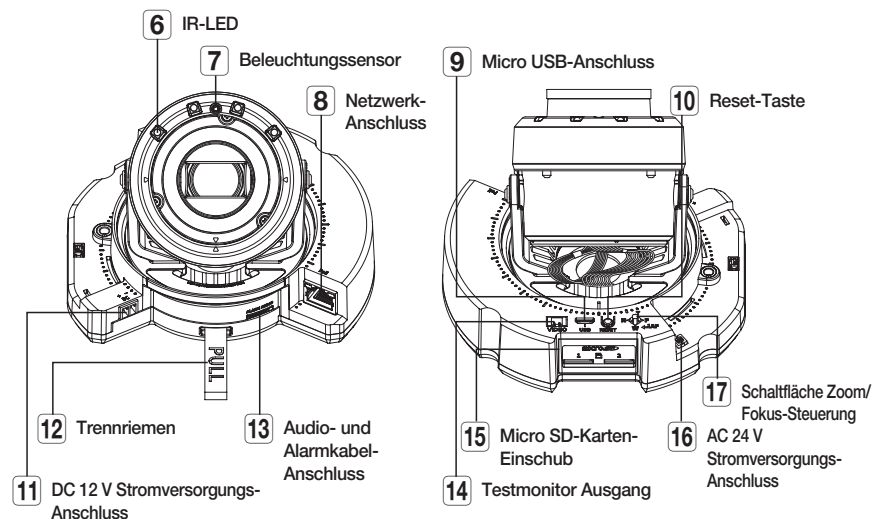
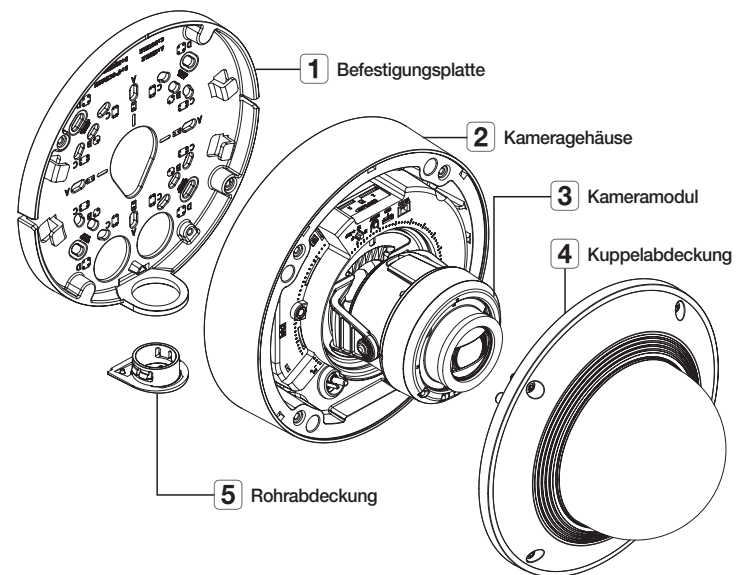


SBC-180B  
(Farbe: Schwarz)



SPC-100AC

## AUF EINEN BLICK



## INSTALLATION



- Diese Kamera ist wasserdicht und entspricht den IP67 / IP66-Spezifikationen, allerdings trifft das nicht auf die an das äußere Kabel angeschlossene Buchse zu. Es wird eine Produktinstallation unter der Traufenkante empfohlen, damit eine äußerliche Freilegung des Kabels unterbunden wird.

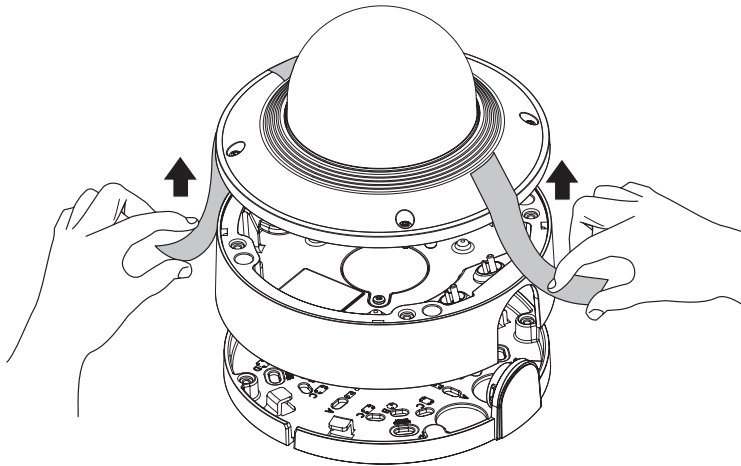
### Bevor Sie mit der Installation beginnen

Bitte lesen Sie die folgenden Anweisungen, bevor Sie die Kamera installieren:

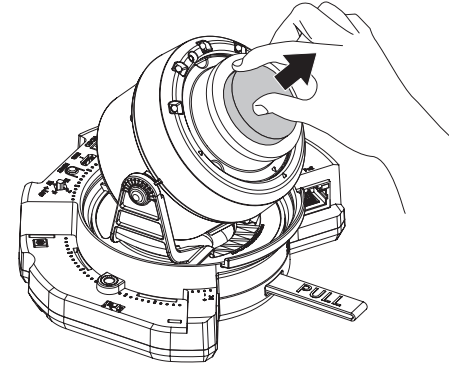
- Wählen Sie einen Aufstellungsort, der mindestens 5-mal das Gewicht der Kamera tragen kann.
- Verklemmte Kabel oder ein abgelöster Kabelschutz können zu Schäden an dem Produkt und Brandgefahr führen.
- Halten Sie aus Sicherheitsgründen andere Personen von dem Ort der Kamerainstallation fern. Achten Sie darauf, dass sich in der Nähe der Kamerainstallation keine Gegenstände des Personals befinden.
- Falls das Produkt mit großem Kraftaufwand installiert wird, kann die Kamera aufgrund von Fehlfunktionen beschädigt werden. Das Erzwingen der Montage mit nicht-konformen Werkzeugen kann das Produkt beschädigen.

### Entfernen

1. Das Band, das das Kameragehäuse hält, abziehen.

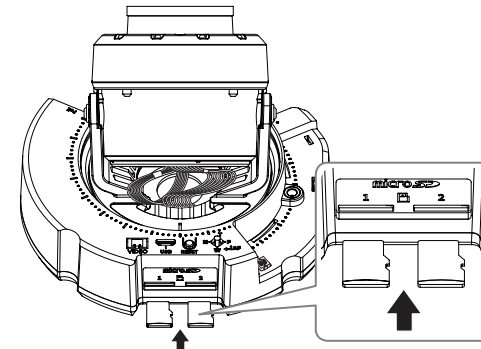


2. Das Kissen, das das Kameraobjektiv schützt, abnehmen.



### Einlegen einer Micro SD-Speicherkarte

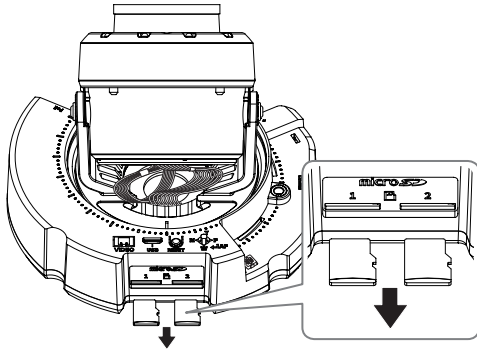
Die Micro SD-Karte in den Micro SD-Karten-Einschub am Kameramodul in Pfeilrichtung einsetzen.



- Vor dem Einbau der Kamera sollte die Micro SD-Karte eingesetzt werden während Stromquelle und Gehäuse getrennt sind.
- Nicht mit Gewalt in falscher Richtung einsetzen. Dies kann Ihre Micro SD-Speicherkarte und Ihr Produkt beschädigen.
- Bei Regen oder hoher Luftfeuchtigkeit empfiehlt es sich nicht, die Micro-SD-Karte einzulegen oder zu entfernen.
- Stellen Sie den Produktkörper bei der Installation/Entfernung der Micro-SD-Speicherkarte auf einen flachen Untergrund, um den Verlust oder das Herunterfallen von Teilen zu vermeiden.

## Herausnehmen einer Micro SD-Speicherkarte

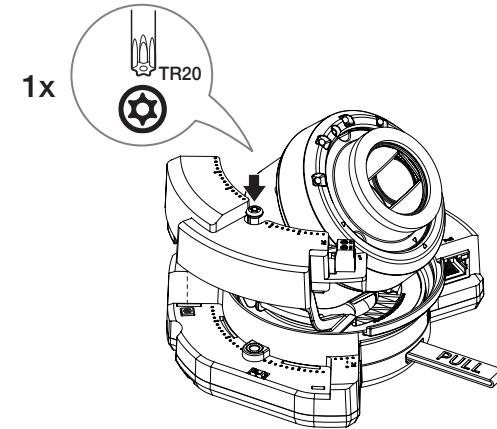
Drücken Sie leicht am ungeschützten Ende der Speicherkarte, wie im Schaubild zu sehen, um die Speicherkarte aus dem Steckplatz auszuwerfen.



- Bitte beachten Sie, dass, falls Sie die Micro SD-Speicherkarte fest drücken und loslassen, sobald sie ausgeworfen wird, diese herausspringen kann.
- Bevor Sie die Micro SD-Speicherkarte im <Speicherkapazität> entfernen, müssen Sie das Gerät auf <Aus> stellen und die [Anwenden]-Taste drücken und die Kamera deaktivieren.
- Wenn Sie die Kamera ausschalten oder die Micro SD-Speicherkarte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

## Einbau des AC-Moduls (separat verkauft: SPC-100AC)

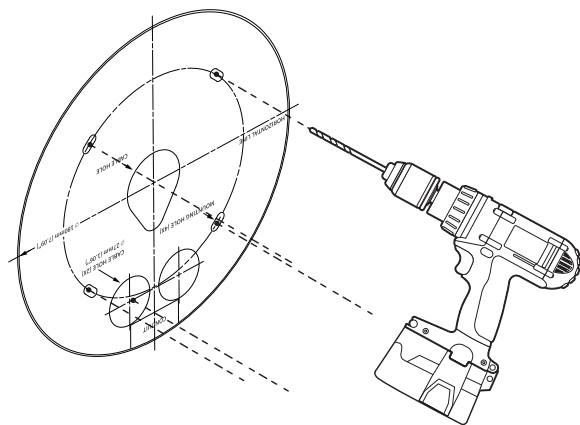
1. Das AC-Modul wie un der Abbildung gezeigt einbauen.
2. Die Schraube mit dem Innensechskantschlüssel anziehen.



## Montage (Befestigungsplatte)

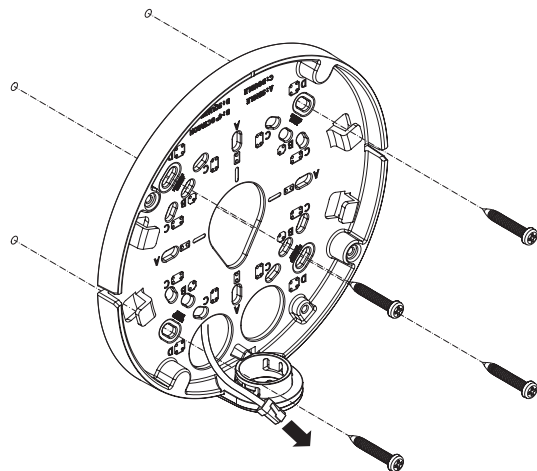
### [Direkte Montage an der Wand/Decke]

1-1. Die Montageschablone an der gewünschten Fläche anbringen und die Bohrungen für Schrauben und Kabel bohren.



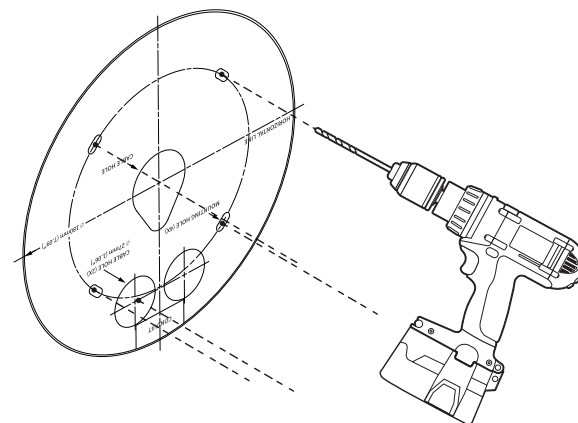
1-2. Die Befestigungsplatte mit den entsprechenden Schrauben befestigen.

1-3. Erforderliche Kabel unter den LAN-/Stromversorgungs-/Audio- und Alarmskabel durch die Bohrung in der Befestigungsplatte heraus ziehen.

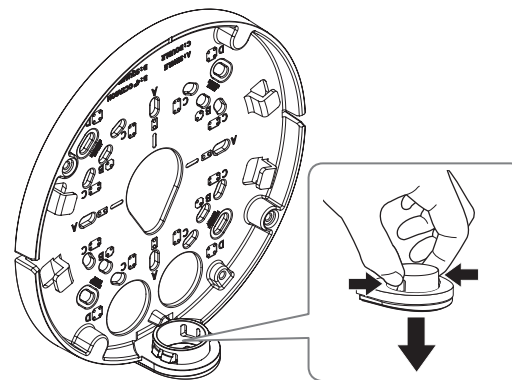


### [Montage mit Rohr]

2-1. Die Montageschablone anbringen und die Bohrungen für Schrauben und Kabel bohren.



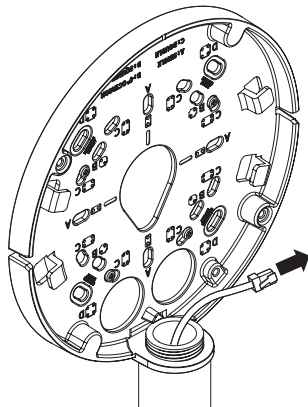
2-2. Die Rohrabdeckung von der Befestigungsplatte trennen, indem deren Seiten gedrückt werden.



2-3. Das Rohr auf der Befestigungsplatte positionieren.

2-4. Die Befestigungsplatte mit den entsprechenden Schrauben befestigen.

2-5. Erforderliche Kabel unter den LAN-/Stromversorgungs-/Audio- und Alarmskabel durch das Rohr heraus ziehen.



## Montage (Kameragehäuse)

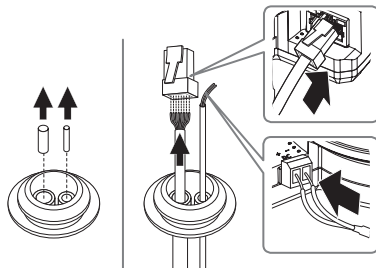
- !** ■ Zum Anschluss eine Kabeleinführung verwenden, die für das LAN-Kabel geeignet ist.
- Hauptkamera: ein Kabel mit einem Durchmesser von Ø5 bis 6,5 verwenden
  - Bauteile: ein Kabel mit einem Durchmesser von Ø5 bis 8,5 verwenden

### [Montage der LAN-/Stromversorgungskabel]

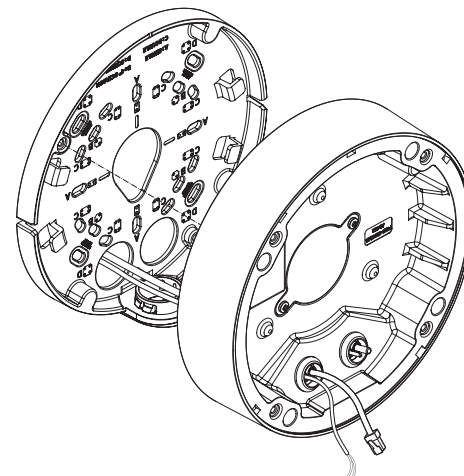
1-1. Die Spritzteile der zu verwendenden Einführung abziehen.

1-2. Das LAN-Kabel durch die große Bohrung der Einführung führen und mit dem LAN-Anschluss verbinden.

1-3. (Bei Verwendung der Stromversorgung) das Stromversorgungskabel durch die kleine Bohrung der Einführung führen und am mitgelieferten Klemmenblock anschließen.



1-4. Die Einführung am Kameragehäuse anbringen.

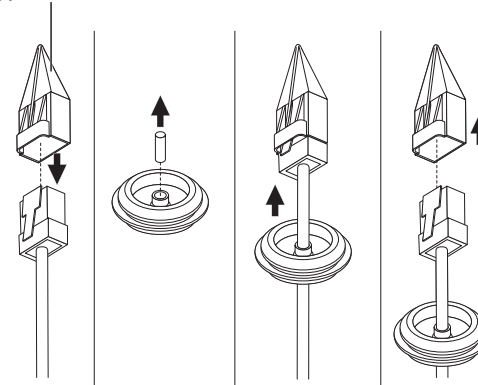


### [Montage des LAN-Kabels] (IP66)

2-1. Das Spritzteil der mitgelieferten einfachen Einführung abziehen.

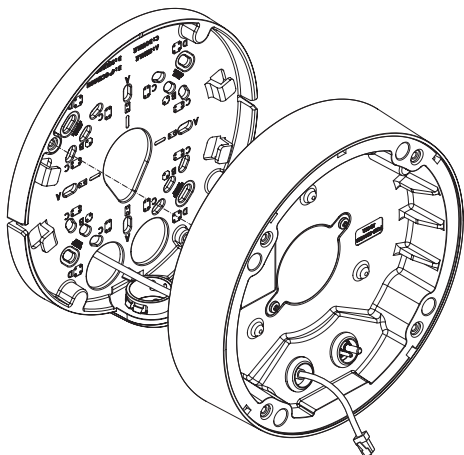
2-2. Den Kappen-Installierer verwenden, um das RJ45-Kabel durchzuführen.

#### Kappen-Installierer

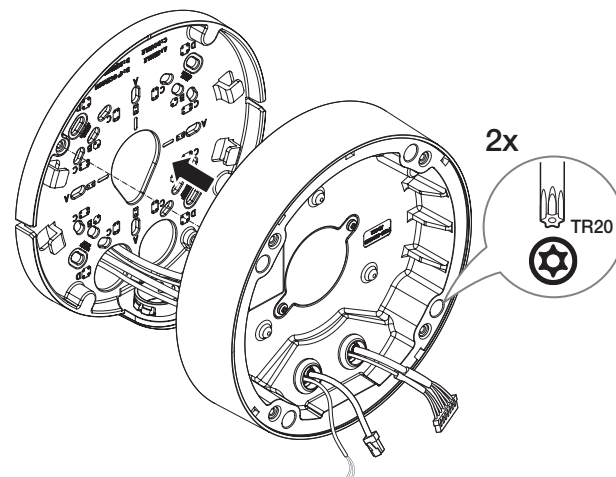




2-3. Die Einführung am Kameragehäuse anbringen.

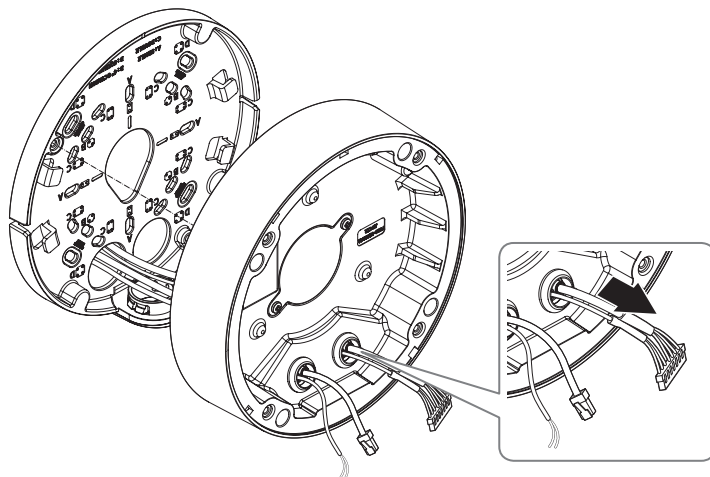


4. Die Befestigungsplatte am Kameragehäuse anbringen.



[Montage von Audio- und Alarmkabeln]

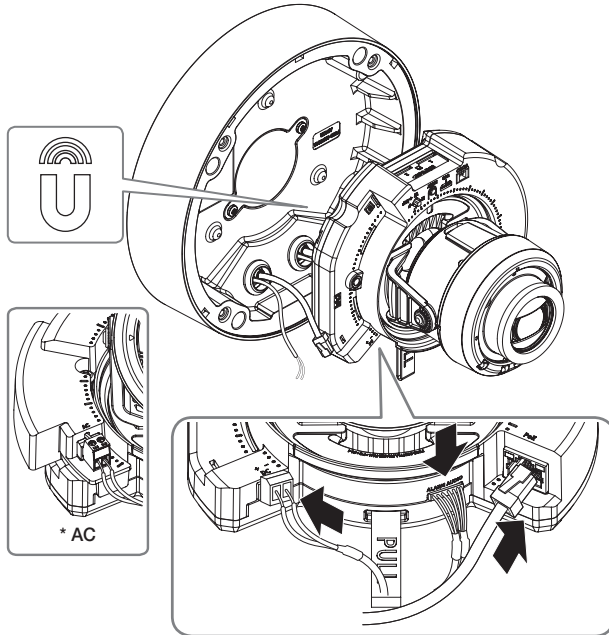
3-1. Die Einführung der mitgelieferten Audio- und Alarmkabel am Kameragehäuse befestigen.



## Montage des Kameramoduls

1. Die LAN-/Stromversorgungs-/Audio- und Alarmkabel am Anschluss des Kameramoduls anschließen.
2. Das Kameramodul am Gehäuse anbringen.

- ! Am Boden des Moduls befindet sich ein Magnet.
- Vorsichtig vorgehen, um zu verhindern, dass sich Fremdkörper zwischen den Befestigungsflächen befinden.



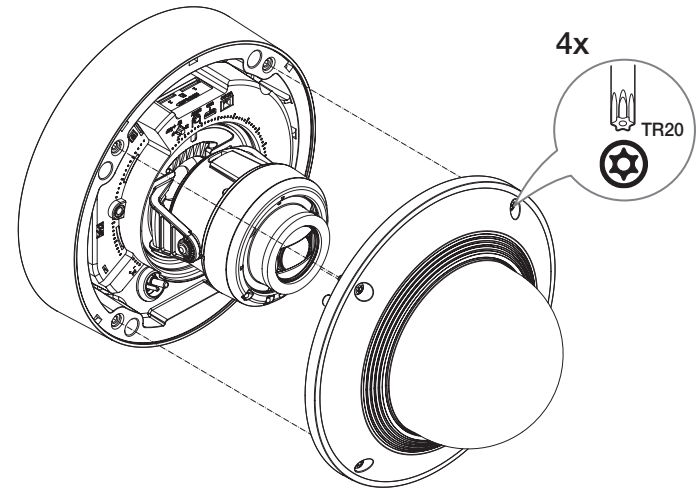
3. Das Objektiv in die gewünschte Richtung einstellen und dabei den Abschnitt „Überwachungsrichtung der Kamera einstellen“ beachten. (Seite 33)

## Montage der Kuppelabdeckung

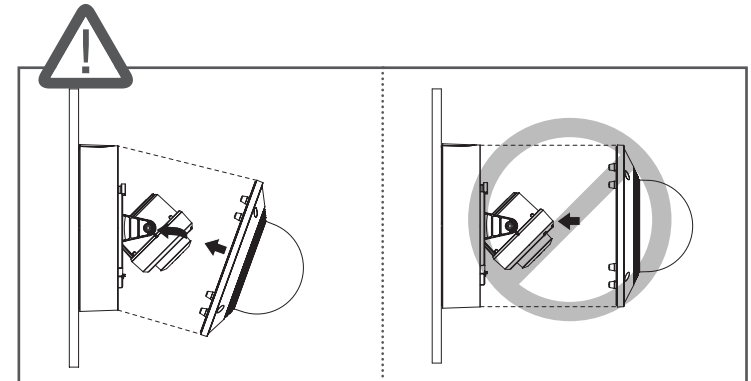
### [Direkte Montage an der Wand/Decke]

1. Die Kuppelabdeckung montieren.

- ! Sicherstellen, dass die Befestigungsschrauben fest angezogen sind, so dass kein Problem mit Wasser auftritt.
- Bei der Verwendung des AC-Moduls vorsichtig vorgehen, da die Kuppelabdeckung eine bestimmte Betriebsrichtung hat.

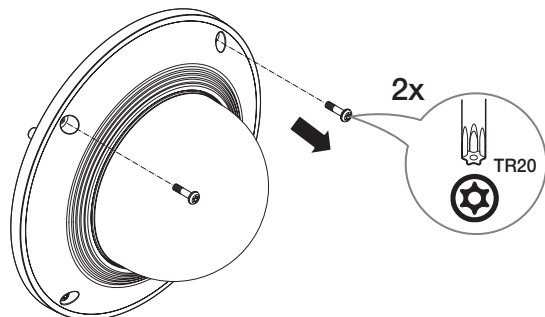


- ! Darauf achten, nicht die Überwachungsrichtung der Kamera zu ändern.



# **[Verwendung der Wetterabdeckung]**

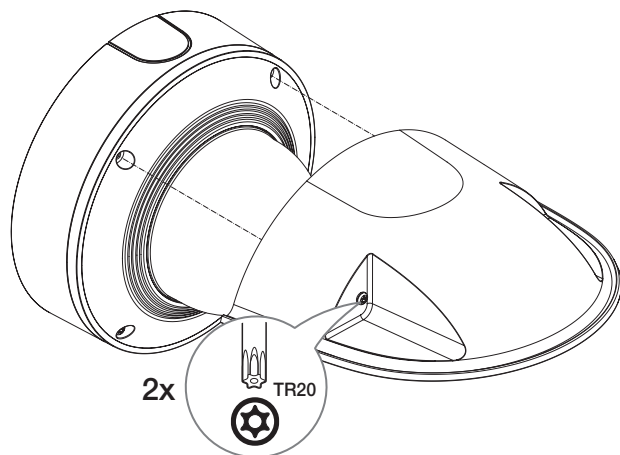
1. Die Schrauben von der Kuppelabdeckung entfernen.



2. Die Kuppelabdeckung montieren.

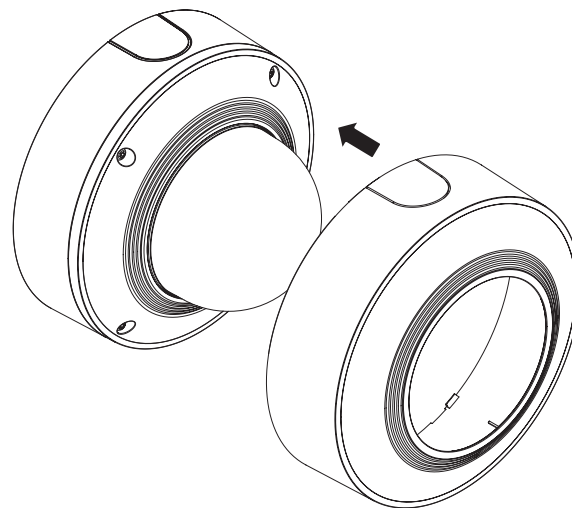
3. Die Wetterabdeckung an der Kuppelabdeckung anbringen und die Schrauben anziehen.

! ■ Sicherstellen, dass die Befestigungsschrauben fest angezogen sind, so dass kein Problem mit Wasser auftritt.

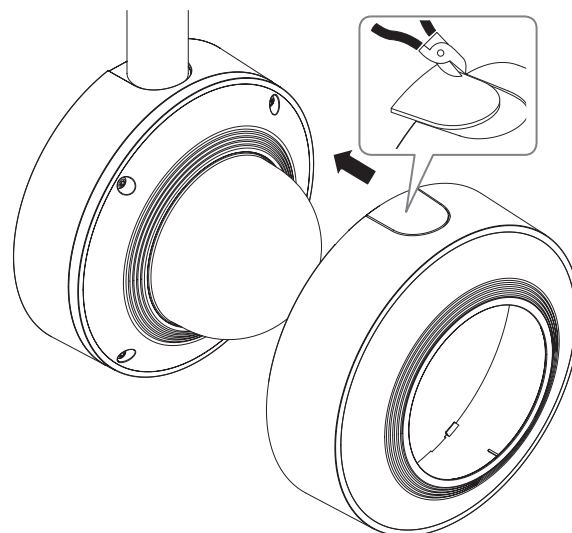


# **Anbringen/Entfernen der Abdeckhaut**

1. Die Abdeckhaut mit der Rohrabdeckung ausgerichtet anbringen.

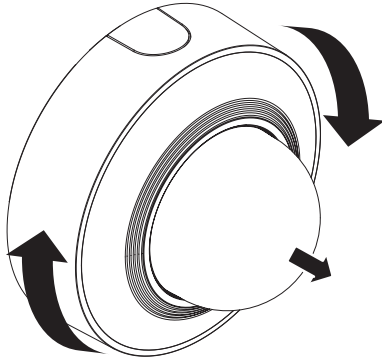


2. Bei einer mit einem Rohr verbundenen Kamera die Rohrabdeckung zuerst von der Abdeckhaut entfernen bevor sie angebracht wird.

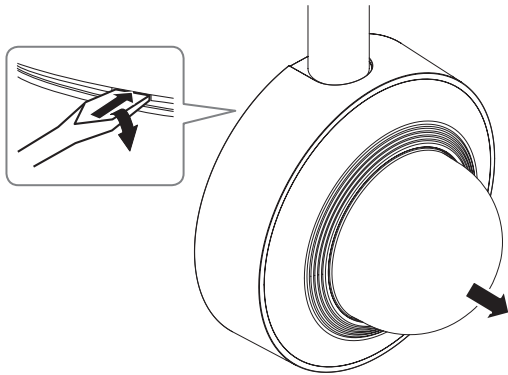


3. Zum Entfernen der Abdeckhaut diese abziehen während sie wie in der Abbildung gezeigt im Uhrzeigersinn gedreht wird.

- ! ■ Eine wiederholte Montage und Demontage der Abdeckhaut kann diese deformieren.
- Eine Montage und Demontage der Abdeckhaut mit übermäßiger Kraft kann Kratzer auf der Produktoberfläche verursachen.



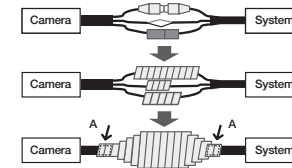
- ! ■ Wenn ein Rohr angeschlossen ist, dieses mit einem geeigneten Werkzeug lösen.



## Einbau im Außenbereich

Wird die Installation außerhalb des Gebäudes vorgenommen, ist sie mit einem Butylisolerband (im Handel erhältlich) wasserundurchlässig zu machen, damit das Wasser nicht vom an die Außenseite angeschlossenen Kabelspalt auslaufen kann.

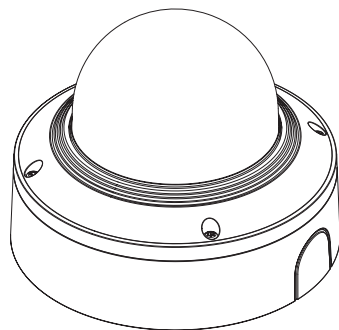
1. Stromversorgung, E/A, und LAN-Kabel anschließen.
2. Die schwarze Kabelummantelung (Bereich A) und den Kabelanschlussbereich mit dem wasserundurchlässigen (Butylisoler-) Band so umwickeln, dass mehr als die Hälfte des Butylisolerbandes überlappt wird.



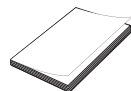
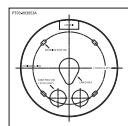
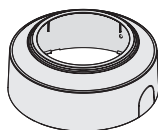
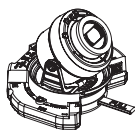
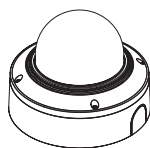
- ! ■ Sollte die Kabelummantelung nicht richtig wasserundurchlässig sein, kann das zu einer unmittelbaren Undichtigkeit führen. Stellen Sie sicher, dass das Kabel dicht mit einem Klebeband geschützt ist.
- Das wasserdichte Butylklebeband besteht aus Butylkautschuk und kann auf das Doppelte seiner normalen Länge ausgedehnt werden.

## LIEFERUMFANG

Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.



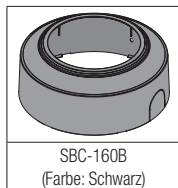
<XND-6081V/XND-6081RV/XND-8081RV>



Farbe: Elfenbein

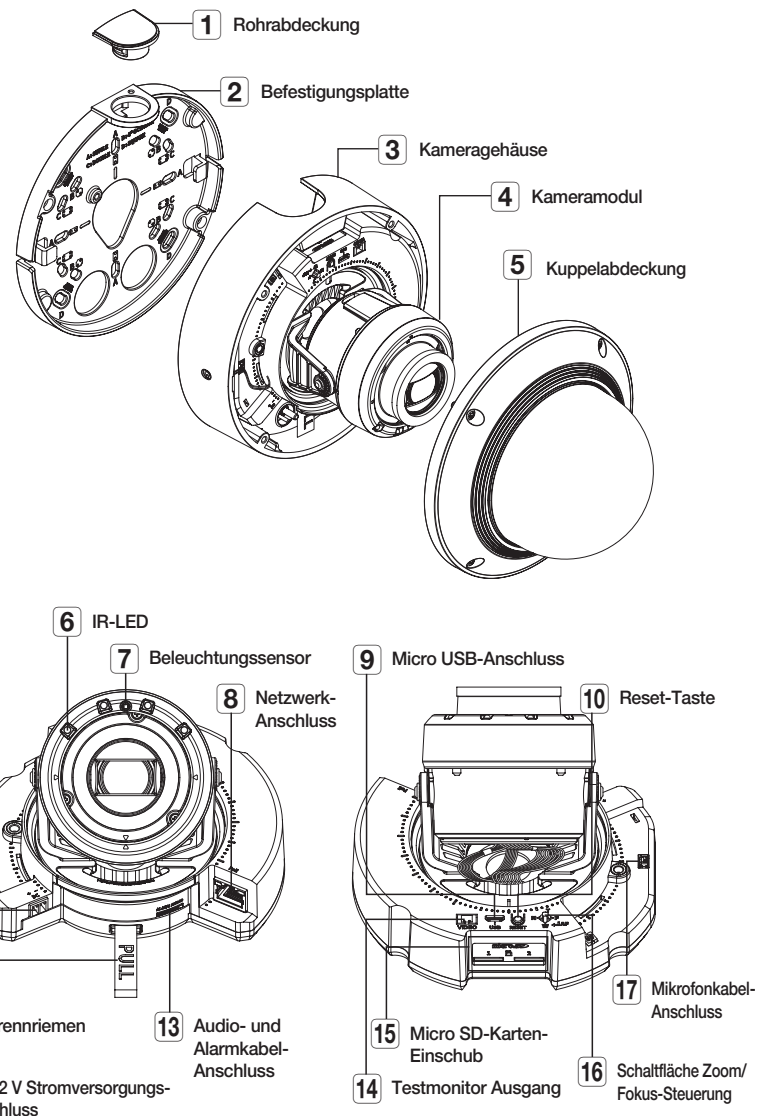


Option (separat verkauft)



SBC-160B  
(Farbe: Schwarz)

## AUF EINEN BLICK



## INSTALLATION



- Diese Kamera ist wasserdicht und entspricht den IP52-Spezifikationen, allerdings trifft das nicht auf die an das äußere Kabel angeschlossene Buchse zu. Es wird eine Produktinstallation unter der Traufenkante empfohlen, damit eine äußerliche Freilegung des Kabels unterbunden wird.

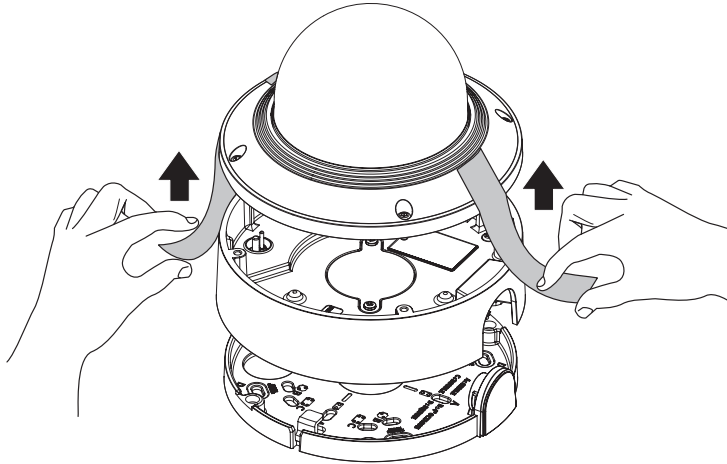
### Bevor Sie mit der Installation beginnen

Bitte lesen Sie die folgenden Anweisungen, bevor Sie die Kamera installieren:

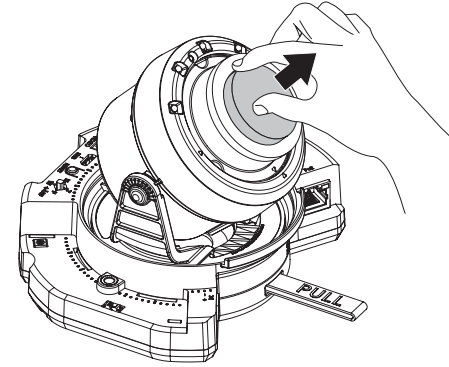
- Wählen Sie einen Aufstellungsort, der mindestens 5-mal das Gewicht der Kamera tragen kann.
- Verklebte Kabel oder ein abgelöster Kabelschutz können zu Schäden an dem Produkt und Brandgefahr führen.
- Halten Sie aus Sicherheitsgründen andere Personen von dem Ort der Kamerainstallation fern. Achten Sie darauf, dass sich in der Nähe der Kamerainstallation keine Gegenstände des Personals befinden.
- Falls das Produkt mit großem Kraftaufwand installiert wird, kann die Kamera aufgrund von Fehlfunktionen beschädigt werden. Das Erzwingen der Montage mit nicht-konformen Werkzeugen kann das Produkt beschädigen.

### Entfernen

1. Das Band, das das Kameragehäuse hält, abziehen.

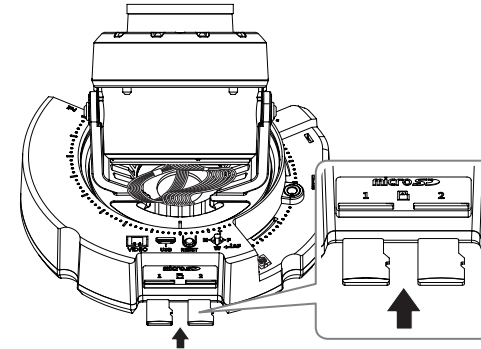


2. Das Kissen, das das Kameraobjektiv schützt, abnehmen.



### Einlegen einer Micro SD-Speicherkarte

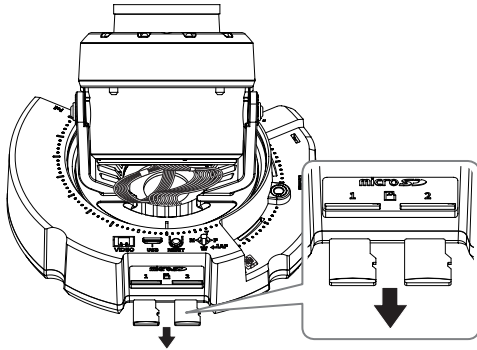
Die Micro SD-Karte in den Micro SD-Karten-Einschub am Kameramodul in Pfeilrichtung einsetzen.



- Vor dem Einbau der Kamera sollte die Micro SD-Karte eingesetzt werden während Stromquelle und Gehäuse getrennt sind.
- Nicht mit Gewalt in falscher Richtung einsetzen. Dies kann Ihre Micro SD-Speicherkarte und Ihr Produkt beschädigen.
- Bei Regen oder hoher Luftfeuchtigkeit empfiehlt es sich nicht, die Micro-SD-Karte einzulegen oder zu entfernen.
- Stellen Sie den Produktkörper bei der Installation/Entfernung der Micro-SD-Speicherkarte auf einen flachen Untergrund, um den Verlust oder das Herunterfallen von Teilen zu vermeiden.

## Herausnehmen einer Micro SD-Speicherkarte

Drücken Sie leicht am ungeschützten Ende der Speicherkarte, wie im Schaubild zu sehen, um die Speicherkarte aus dem Steckplatz auszuwerfen.

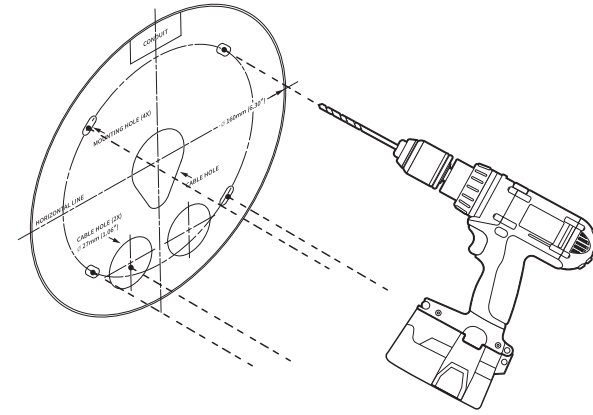


- Bitte beachten Sie, dass, falls Sie die Micro SD-Speicherkarte fest drücken und loslassen, sobald sie ausgeworfen wird, diese herausspringen kann.
- Bevor Sie die Micro SD-Speicherkarte im <Speicherkapazität> entfernen, müssen Sie das Gerät auf <Aus> stellen und die [Anwenden]-Taste drücken und die Kamera deaktivieren.
- Wenn Sie die Kamera ausschalten oder die Micro SD-Speicherkarte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

## Montage (Befestigungsplatte)

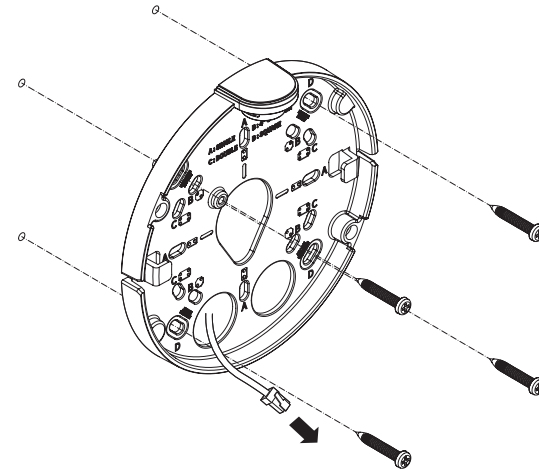
### [Direkte Montage an der Wand/Decke]

- 1-1. Die Montageschablone an der gewünschten Fläche anbringen und die Bohrungen für Schrauben und Kabel bohren.



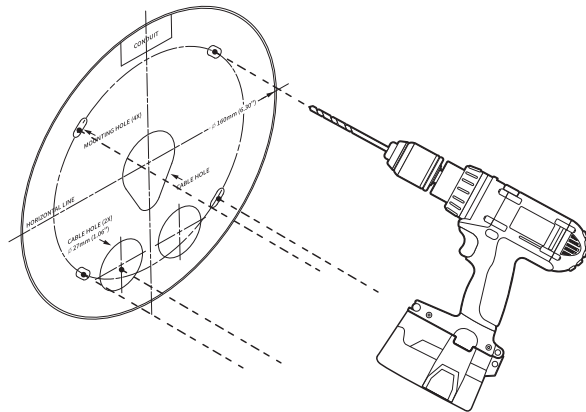
- 1-2. Die Befestigungsplatte mit den entsprechenden Schrauben befestigen.

- 1-3. Erforderliche Kabel unter den LAN-/Stromversorgungs-/Audio- und Alarmskabel durch die Bohrung in der Befestigungsplatte heraus ziehen.

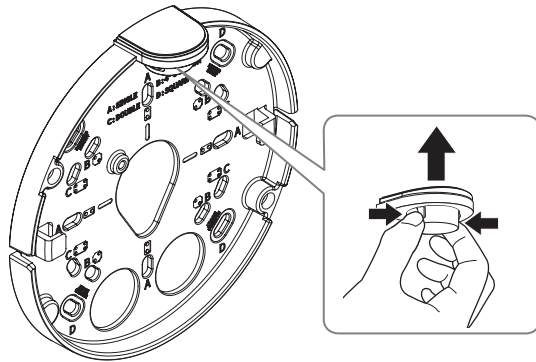


## [Montage mit Rohr]

2-1. Die Montageschablone anbringen und die Bohrungen für Schrauben und Kabel bohren.



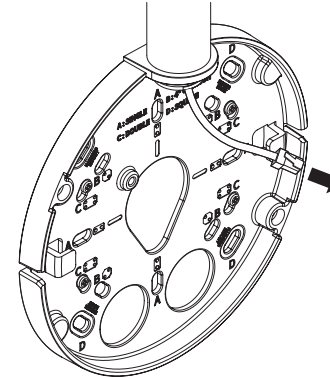
2-2. Die Rohrabdeckung von der Befestigungsplatte trennen, indem deren Seiten gedrückt werden.



2-3. Das Rohr auf der Befestigungsplatte positionieren.

2-4. Die Befestigungsplatte mit den entsprechenden Schrauben befestigen.

2-5. Erforderliche Kabel unter den LAN-/Stromversorgungs-/Audio- und Alarmskabel durch das Rohr heraus ziehen.



## Montage (Kameragehäuse)

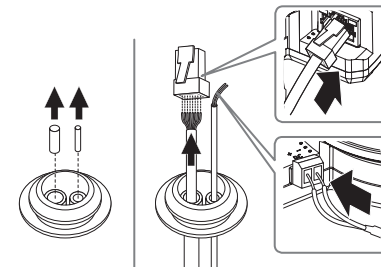
- ! ■ Zum Anschluss eine Kabeleinführung verwenden, die für das LAN-Kabel geeignet ist.
  - Hauptkamera: ein Kabel mit einem Durchmesser von Ø5 bis 6,5 verwenden
  - Bauteile: ein Kabel mit einem Durchmesser von Ø5 bis 8,5 verwenden

## [Montage der LAN-/Stromversorgungskabel]

1-1. Die Spritzteile der zu verwendenden Einführung abziehen.

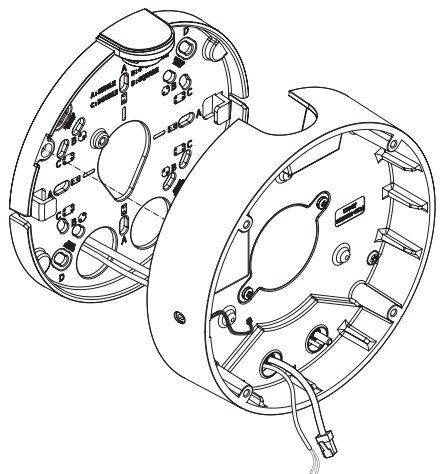
1-2. Das LAN-Kabel durch die große Bohrung der Einführung führen und mit dem LAN-Anschluss verbinden.

1-3. (Bei Verwendung der Stromversorgung) das Stromversorgungskabel durch die kleine Bohrung der Einführung führen und am mitgelieferten Klemmenblock anschließen.

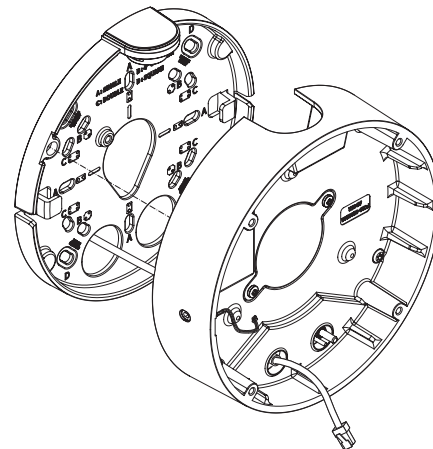




1-4. Die Einführung am Kameragehäuse anbringen.



2-3. Die Einführung am Kameragehäuse anbringen.

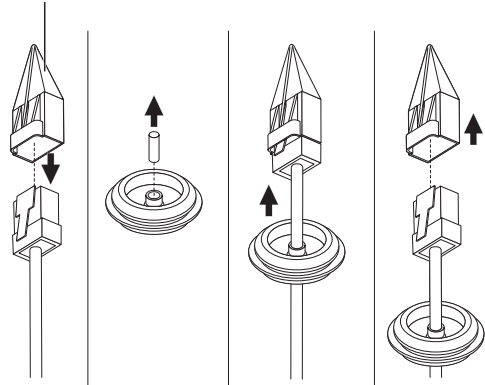


#### [Montage des LAN-Kabels]

2-1. Das Spritzteil der mitgelieferten einfachen Einführung abziehen.

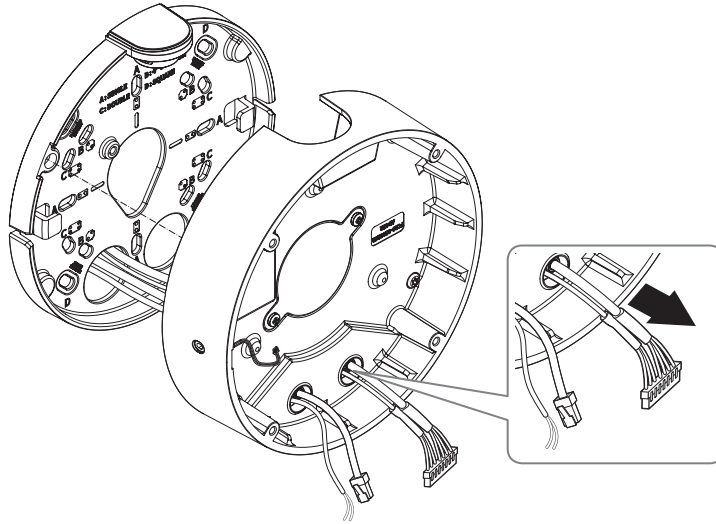
2-2. Den Kappen-Installierer verwenden, um das RJ45-Kabel durchzuführen.

Kappen-Installierer

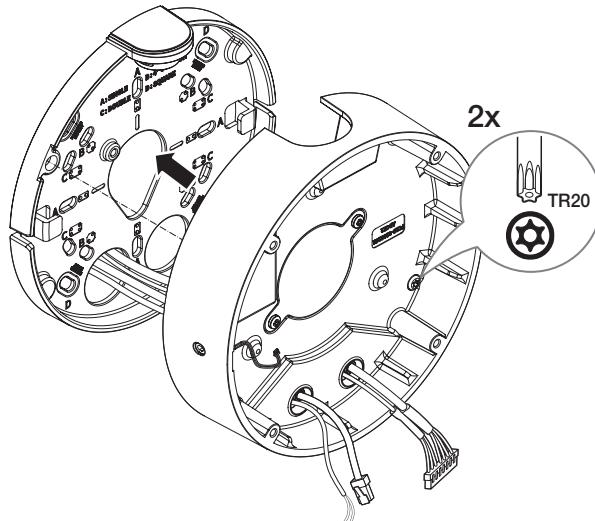


## [Montage von Audio- und Alarmkabeln]

3-1. Die Einführung der mitgelieferten Audio- und Alarmkabel am Kameragehäuse befestigen.



4. Die Befestigungsplatte am Kameragehäuse anbringen.



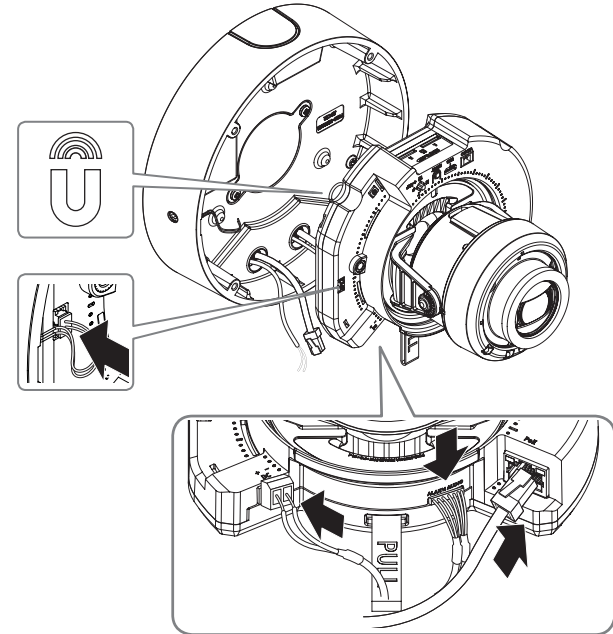
## Montage des Kameramoduls

1. Die LAN-/Stromversorgungs-/Audio- und Alarmkabel am Anschluss des Kameramoduls anschließen.
2. Das Kameramodul am Gehäuse anbringen.



- Am Boden des Moduls befindet sich ein Magnet.
- Vorsichtig vorgehen, um zu verhindern, dass sich Fremdkörper zwischen den Befestigungsflächen befinden.

3. Das Mikrofonkabel mit dem Kameramodul verbinden.



4. Das Objektiv in die gewünschte Richtung einstellen und dabei den Abschnitt „Überwachungsrichtung der Kamera einstellen“ beachten. (Seite 33)

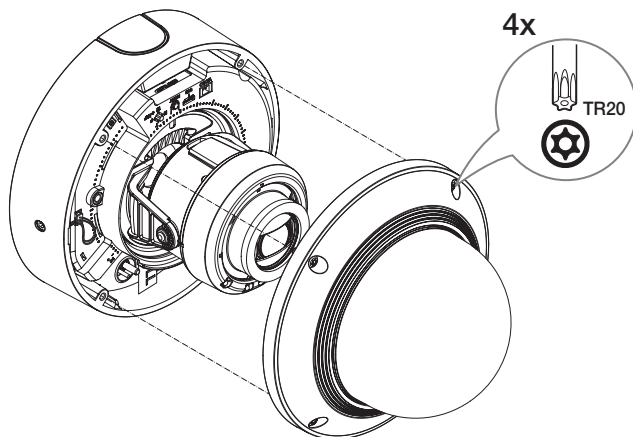
## Montage der Kuppelabdeckung

### [Direkte Montage an der Wand/Decke]

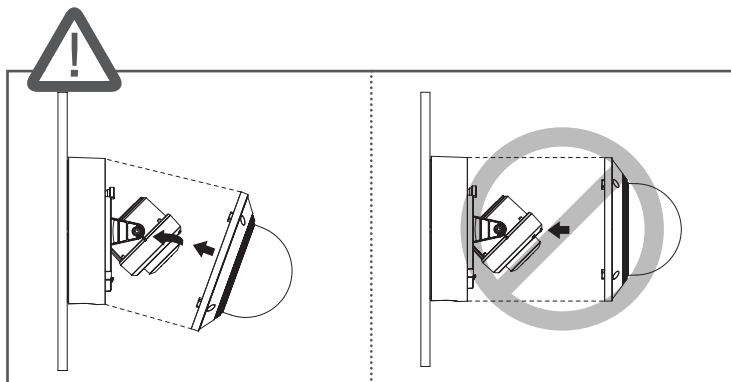
1. Die Kuppelabdeckung montieren.



- Sicherstellen, dass die Befestigungsschrauben fest angezogen sind, so dass kein Problem mit Wasser auftritt.

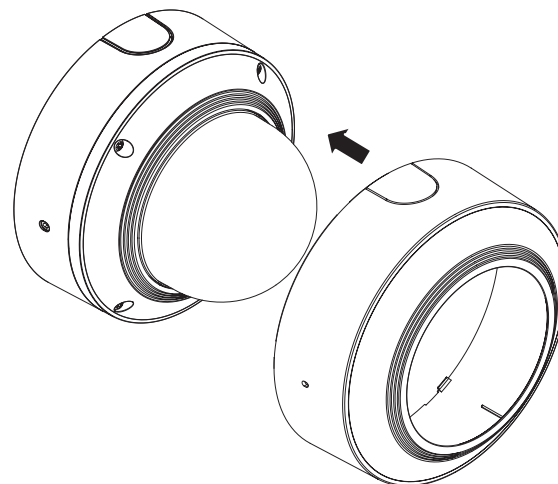


- Darauf achten, nicht die Überwachungsrichtung der Kamera zu ändern.

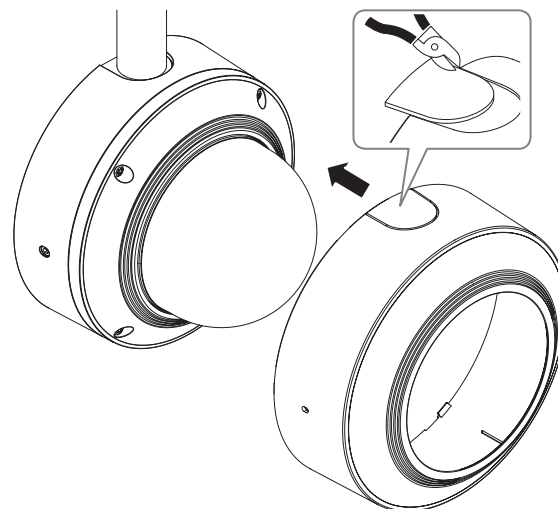


## Anbringen/Entfernen der Abdeckhaut

1. Die Abdeckhaut mit der Rohrabdeckung ausgerichtet anbringen.

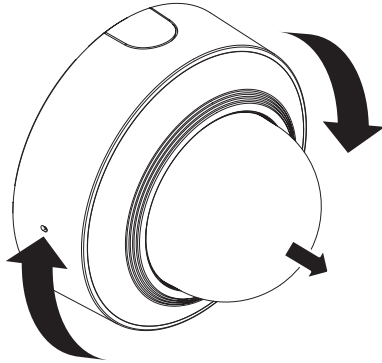


2. Bei einer mit einem Rohr verbundenen Kamera die Rohrabdeckung zuerst von der Abdeckhaut entfernen bevor sie angebracht wird.

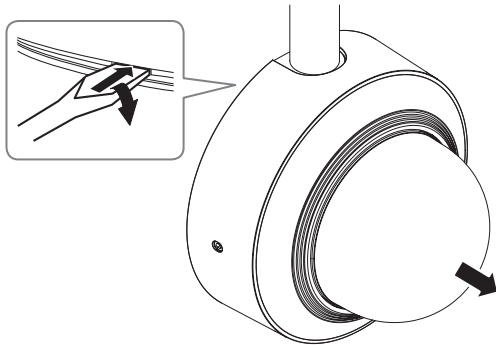


3. Zum Entfernen der Abdeckhaut diese abziehen während sie wie in der Abbildung gezeigt im Uhrzeigersinn gedreht wird.

- ! ■ Eine wiederholte Montage und Demontage der Abdeckhaut kann diese deformieren.
- Eine Montage und Demontage der Abdeckhaut mit übermäßiger Kraft kann Kratzer auf der Produktoberfläche verursachen.



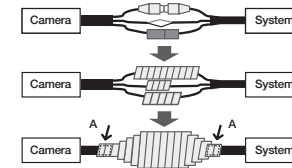
- ! ■ Wenn ein Rohr angeschlossen ist, dieses mit einem geeigneten Werkzeug lösen.



## Einbau im Außenbereich

Wird die Installation außerhalb des Gebäudes vorgenommen, ist sie mit einem Butylisolerband (im Handel erhältlich) wasserundurchlässig zu machen, damit das Wasser nicht vom an die Außenseite angeschlossenen Kabelspalt auslaufen kann.

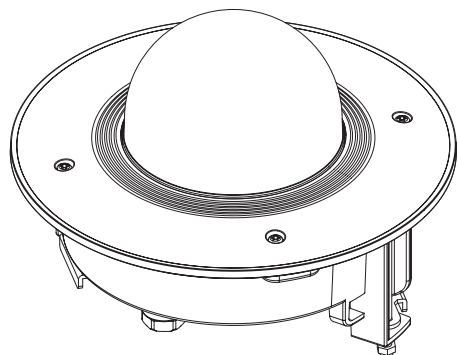
1. Stromversorgung, E/A, und LAN-Kabel anschließen.
2. Die schwarze Kabelummantelung (Bereich A) und den Kabelanschlussbereich mit dem wasserundurchlässigen (Butylisoler-) Band so umwickeln, dass mehr als die Hälfte des Butylisolerbandes überlappt wird.



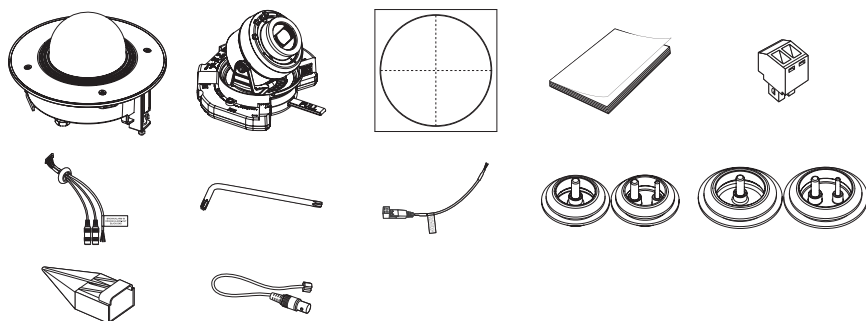
- ! ■ Sollte die Kabelummantelung nicht richtig wasserundurchlässig sein, kann das zu einer unmittelbaren Undichtigkeit führen. Stellen Sie sicher, dass das Kabel dicht mit einem Klebeband geschützt ist.
- Das wasserdichte Butylklebeband besteht aus Butylkautschuk und kann auf das Doppelte seiner normalen Länge ausgedehnt werden.

## LIEFERUMFANG

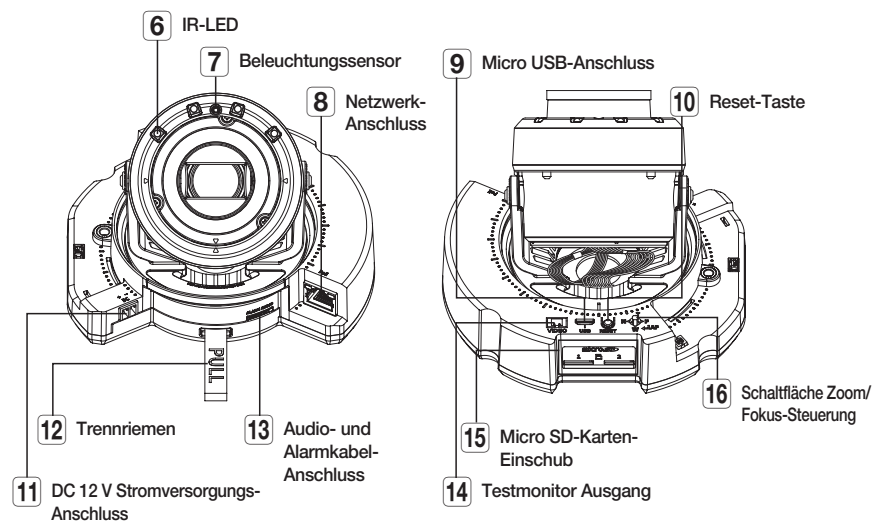
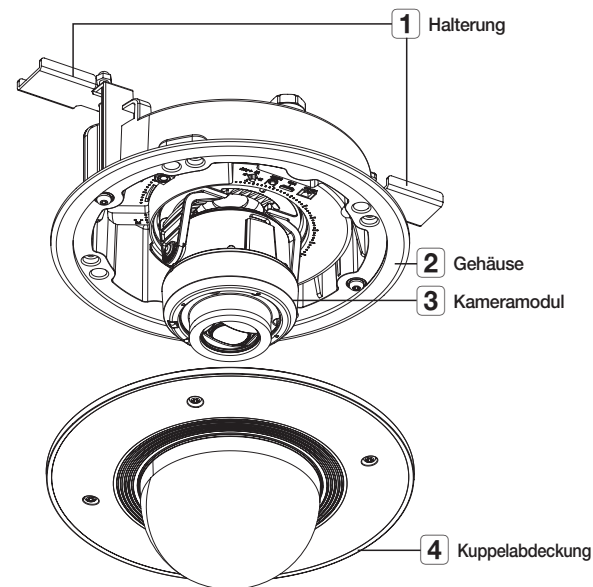
Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.



<XND-6081F/XND-6081RF/XND-8081RF>



## AUF EINEN BLICK



## INSTALLATION



- Diese Kamera ist wasserdicht und entspricht den IP52-Spezifikationen, allerdings trifft das nicht auf die an das äußere Kabel angeschlossene Buchse zu. Es wird eine Produktinstallation unter der Traufenkante empfohlen, damit eine äußerliche Freilegung des Kabels unterbunden wird.

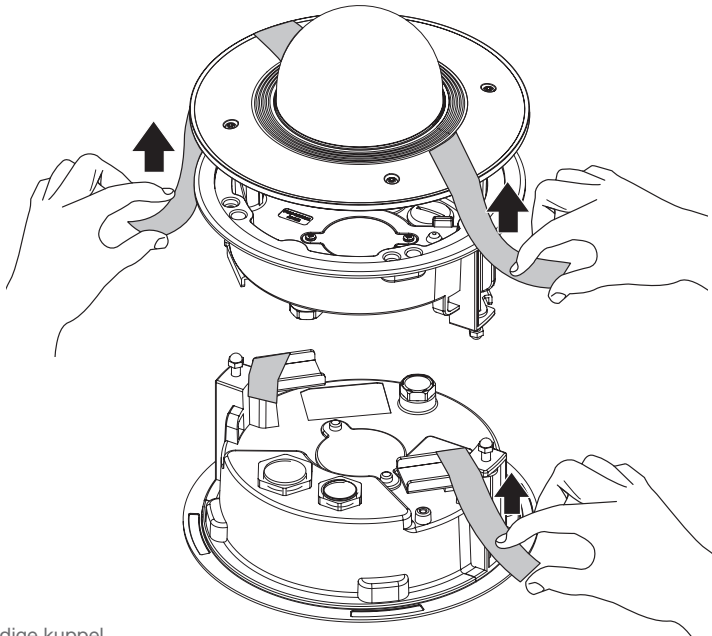
### Bevor Sie mit der Installation beginnen

Bitte lesen Sie die folgenden Anweisungen, bevor Sie die Kamera installieren:

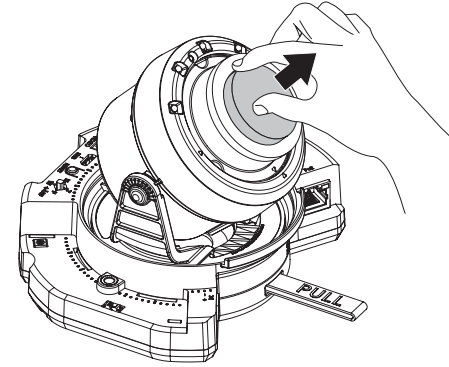
- Wählen Sie einen Aufstellungsort, der mindestens 5-mal das Gewicht der Kamera tragen kann.
- Verklemmte Kabel oder ein abgelöster Kabelschutz können zu Schäden an dem Produkt und Brandgefahr führen.
- Halten Sie aus Sicherheitsgründen andere Personen von dem Ort der Kamerainstallation fern. Achten Sie darauf, dass sich in der Nähe der Kamerainstallation keine Gegenstände des Personals befinden.
- Falls das Produkt mit großem Kraftaufwand installiert wird, kann die Kamera aufgrund von Fehlfunktionen beschädigt werden. Das Erzwingen der Montage mit nicht-konformen Werkzeugen kann das Produkt beschädigen.

### Entfernen

1. Das Band, das das Kameragehäuse hält, abziehen.

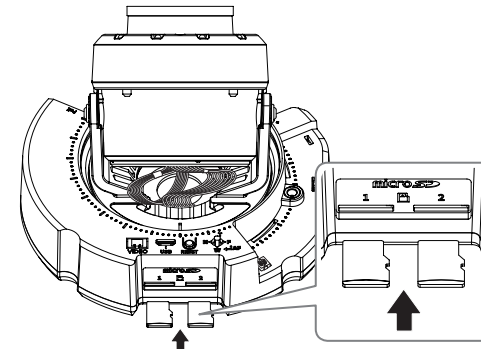


2. Das Kissen, das das Kameraobjektiv schützt, abnehmen.



### Einlegen einer Micro SD-Speicherkarte

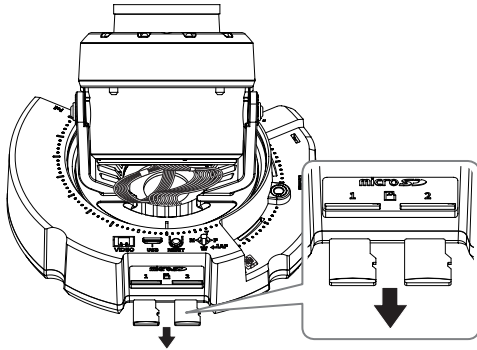
Die Micro SD-Karte in den Micro SD-Karten-Einschub am Kameramodul in Pfeilrichtung einsetzen.



- Vor dem Einbau der Kamera sollte die Micro SD-Karte eingesetzt werden während Stromquelle und Gehäuse getrennt sind.
- Nicht mit Gewalt in falscher Richtung einsetzen. Dies kann Ihre Micro SD-Speicherkarte und Ihr Produkt beschädigen.
- Bei Regen oder hoher Luftfeuchtigkeit empfiehlt es sich nicht, die Micro-SD-Karte einzulegen oder zu entfernen.
- Stellen Sie den Produktkörper bei der Installation/Entfernung der Micro-SD-Speicherkarte auf einen flachen Untergrund, um den Verlust oder das Herunterfallen von Teilen zu vermeiden.

## Herausnehmen einer Micro SD-Speicherkarte

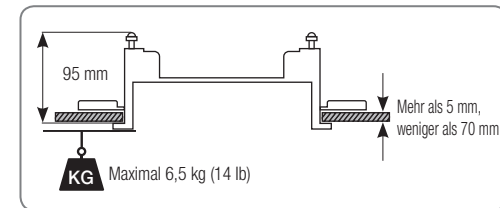
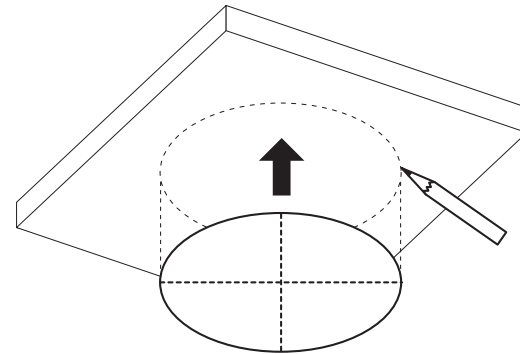
Drücken Sie leicht am ungeschützten Ende der Speicherkarte, wie im Schaubild zu sehen, um die Speicherkarte aus dem Steckplatz auszuwerfen.



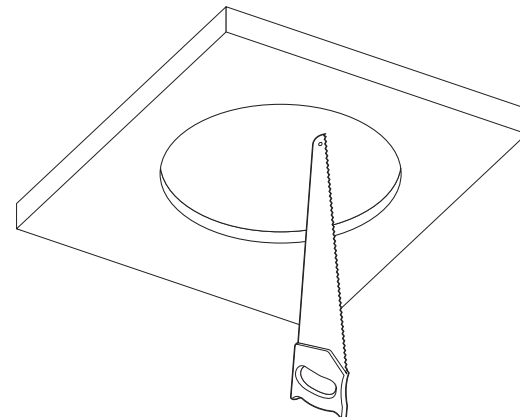
- Bitte beachten Sie, dass, falls Sie die Micro SD-Speicherkarte fest drücken und loslassen, sobald sie ausgeworfen wird, diese herausspringen kann.
- Bevor Sie die Micro SD-Speicherkarte im <Speicherkapazität> entfernen, müssen Sie das Gerät auf <Aus> stellen und die [Anwenden]-Taste drücken und die Kamera deaktivieren.
- Wenn Sie die Kamera ausschalten oder die Micro SD-Speicherkarte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

## Montage (Gehäuse)

1. Die Montageschablone an der Decke anbringen und ihre Position mit einem Stift markieren.



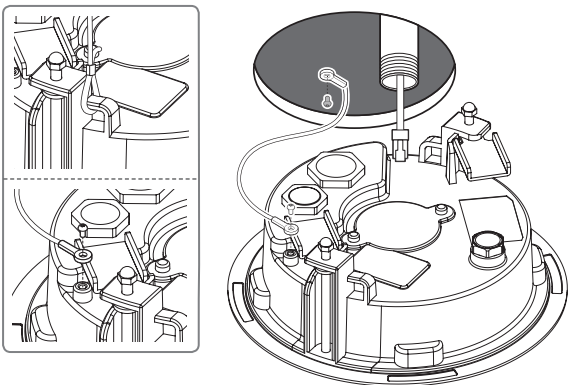
2. Die Montageschablone anbringen und die Bohrungen bohren.



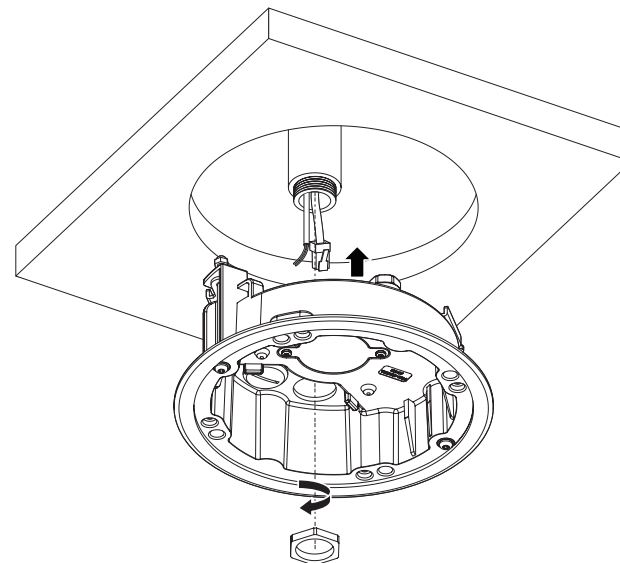
3. Das Sicherheitskabel anbringen.

! Ein Sicherheitskabel wird nicht mitgeliefert.

z.b.

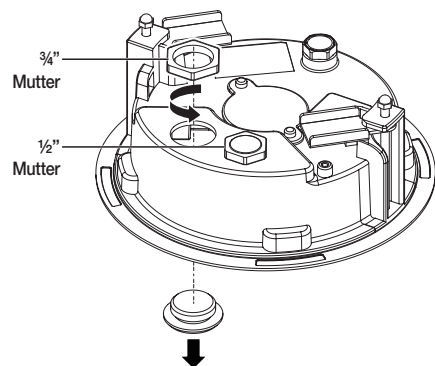


4-2. Erforderliche Kabel unter den LAN-/Stromversorgungs-/Audio- und Alarmkabel durch das Rohr heraus ziehen.



[Verwendung eines Rohrs]

4-1. Das Rohr in eine Montagebohrung einsetzen.





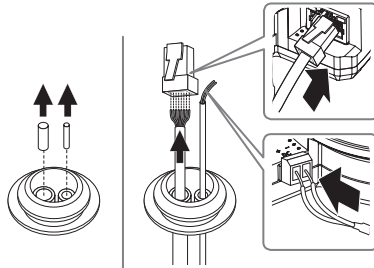
## Montage (Kameragehäuse)



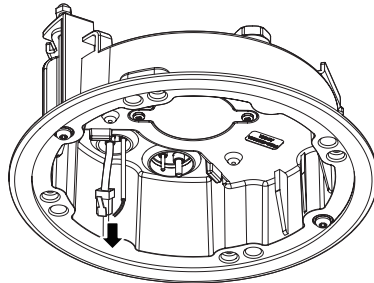
- Zum Anschluss eine Kabeleinführung verwenden, die für das LAN-Kabel geeignet ist.
  - Bauteile: ein Kabel mit einem Durchmesser von Ø5 bis 8,5 verwenden

### [Montage der LAN-/Stromversorgungskabel]

- 1-1. Die Spritzteile der zu verwendenden Einführung abziehen.
- 1-2. Das LAN-Kabel durch die große Bohrung der Einführung führen und mit dem LAN-Anschluss verbinden.
- 1-3. (Bei Verwendung der Stromversorgung) das Stromversorgungskabel durch die kleine Bohrung der Einführung führen und am mitgelieferten Klemmenblock anschließen.



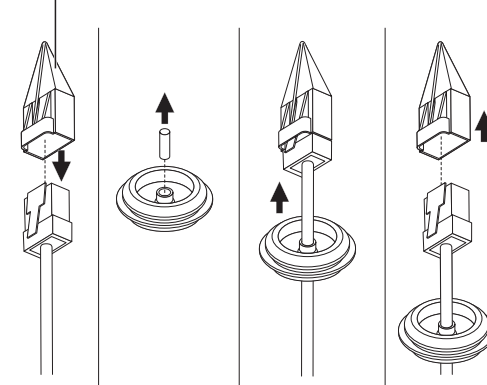
- 1-4. Die Einführung am Gehäuse anbringen.



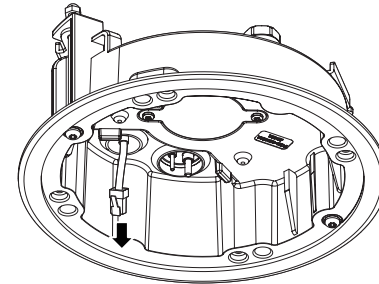
### [Montage des LAN-Kabels]

- 2-1. Das Spritzteil der mitgelieferten einfachen Einführung abziehen.
- 2-2. Den Kappen-Installierer verwenden, um das RJ45-Kabel durchzuführen.

Kappen-Installierer

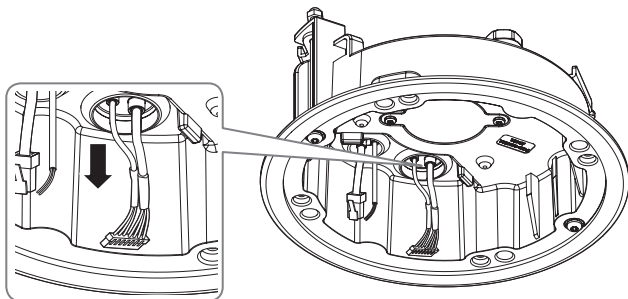


- 2-3. Die Einführung am Gehäuse anbringen.



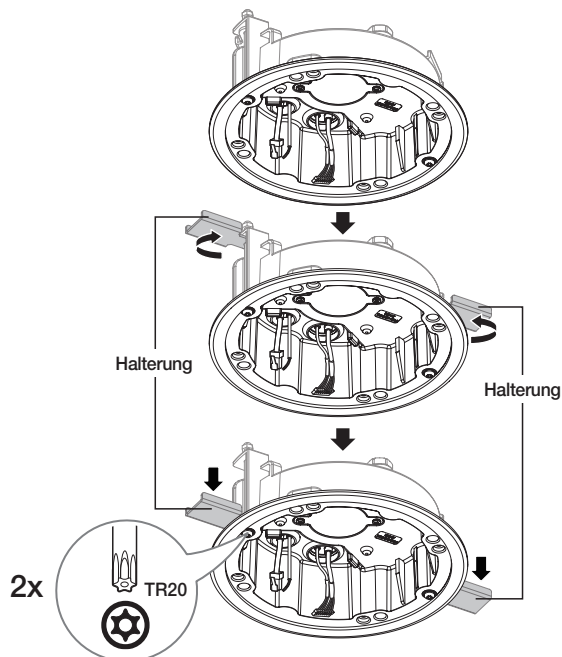
## [Montage von Audio- und Alarmkabeln]

3-1. Die Einführung der mitgelieferten Audio- und Alarmkabel am Kameragehäuse befestigen.



4. Die Schrauben am Gehäuse drehen, um das Gehäuse an der Decke zu befestigen.

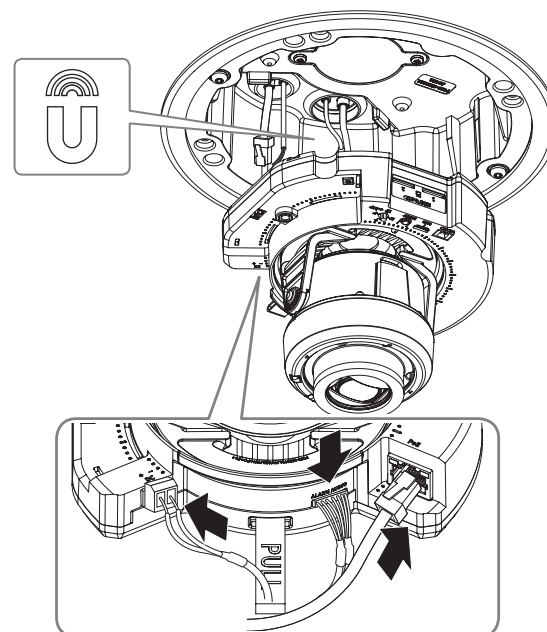
- ! Die Halterung befestigt das Gehäuse an der Decke.
- Sicherstellen, dass die Gehäuse fest an der Decke befestigt sind.



## Montage des Kameramoduls

1. Die LAN-/Stromversorgungs-/Audio- und Alarmkabel am Anschluss des Kameramoduls anschließen.
2. Das Kameramodul am Gehäuse anbringen.

- ! Am Boden des Moduls befindet sich ein Magnet.
- Vorsichtig vorgehen, um zu verhindern, dass sich Fremdkörper zwischen den Befestigungsflächen befinden.

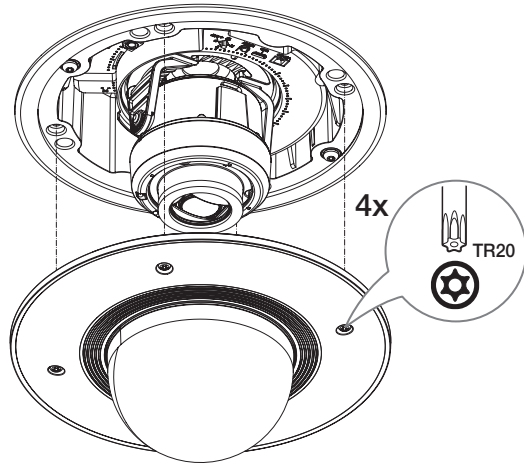


3. Das Objektiv in die gewünschte Richtung einstellen und dabei den Abschnitt „Überwachungsrichtung der Kamera einstellen“ beachten. (Seite 33)

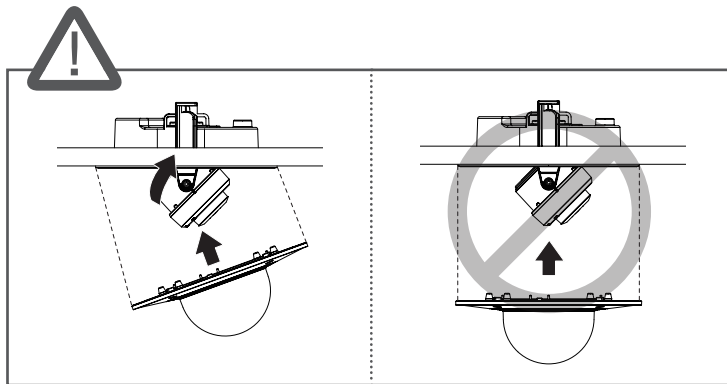
## Montage der Kuppelabdeckung

### 1. Die Kuppelabdeckung montieren.

- ! ■ Sicherstellen, dass die Befestigungsschrauben fest angezogen sind, so dass kein Problem mit Wasser auftritt.



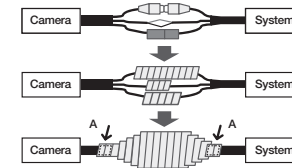
- ! ■ Darauf achten, nicht die Überwachungsrichtung der Kamera zu ändern.



## Einbau im Außenbereich

Wird die Installation außerhalb des Gebäudes vorgenommen, ist sie mit einem Butylisolerband (im Handel erhältlich) wasserundurchlässig zu machen, damit das Wasser nicht vom an die Außenseite angeschlossenen Kabelspalt auslaufen kann.

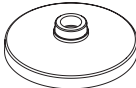
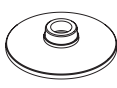
1. Stromversorgung, E/A, und LAN-Kabel anschließen.
2. Die schwarze Kabelummantelung (Bereich A) und den Kabelanschlussbereich mit dem wasserundurchlässigen (Butylisoler-) Band so umwickeln, dass mehr als die Hälfte des Butylisolerbandes überlappt wird.

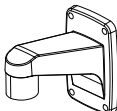
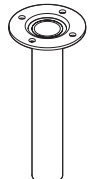


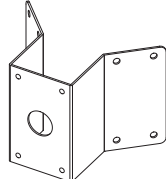
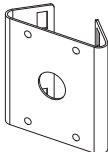
- ! ■ Sollte die Kabelummantelung nicht richtig wasserundurchlässig sein, kann das zu einer unmittelbaren Undichtigkeit führen. Stellen Sie sicher, dass das Kabel dicht mit einem Klebeband geschützt ist.
- Das wasserdichte Butylklebeband besteht aus Butylkautschuk und kann auf das Doppelte seiner normalen Länge ausgedehnt werden.

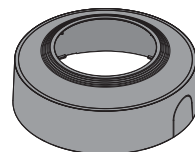
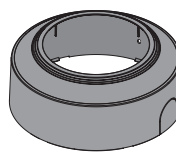
## OPTIONALES ZUBEHÖR FÜR DIE INSTALLATION

Sie können optional verfügbares Zubehör kaufen.

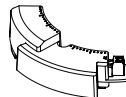
|                    | Hängebefestigung                                                                  | Hängebefestigung                                                                  |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Modellname         | SBP-187HMW                                                                        | SBP-167HMW                                                                        |
|                    |  |  |
| Kompatibles Modell | XNV-6081/XNV-6081R/XNV-8081R                                                      | XND-6081V/XND-6081RV/XND-8081RV                                                   |

|                    | Wandbefestigung                                                                   | Deckenbefestigung                                                                 |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Modellname         | SBP-300WMW1                                                                       | SBP-300CMW                                                                        |
|                    |  |  |
| Kompatibles Modell | SBP-180HMW/160HMW                                                                 | SBP-180HMW/160HMW                                                                 |

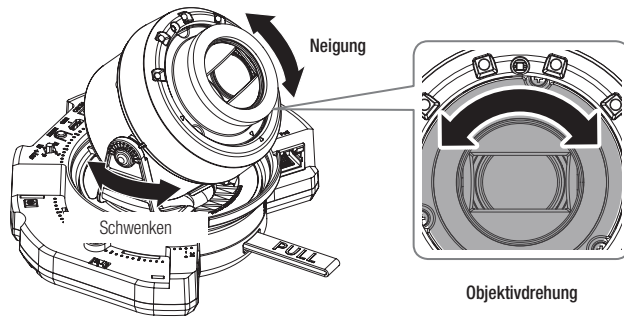
|                    | Eckenbefestigung                                                                  | Stangenbefestigung                                                                |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Modellname         | SBP-300KMW                                                                        | SBP-300PMW                                                                        |
|                    |  |  |
| Kompatibles Modell | SBP-300WMW1                                                                       | SBP-300WMW1                                                                       |

|                    | Abdeckhaut                                                                          | Abdeckhaut                                                                          |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Modellname         | SBC-180B (Schwarz)                                                                  | SBC-160B (Schwarz)                                                                  |
|                    |  |  |
| Kompatibles Modell | XNV-6081/XNV-6081R/XNV-8081R                                                        | XND-6081V/XND-6081RV/XND-8081RV                                                     |

|                    | AC 24 V Stromversorgungsmodul                                                       |
|--------------------|-------------------------------------------------------------------------------------|
| Modellname         | SPC-100AC                                                                           |
|                    |  |
| Kompatibles Modell | XNV-6081/XNV-6081R/XNV-8081R                                                        |

## Überwachungsrichtung der Kamera einstellen



### ■ Anpassen der Überwachungsrichtung

Sie können die Richtung der Kamera nur einstellen, wenn die Kamera an der Decke befestigt ist. Drehen des Kameragehäuses in die linke und rechte Richtung nennt man SCHWENKEN und Anpassen des Kamerawinkels nennt man NEIGEN.

- Der Schwenkwinkel beträgt  $0^\circ - 360^\circ$ .
- Der Neigungswinkel beträgt  $-45^\circ - 85^\circ$ .
- Der Drehwinkel beträgt  $0^\circ - 355^\circ$ .



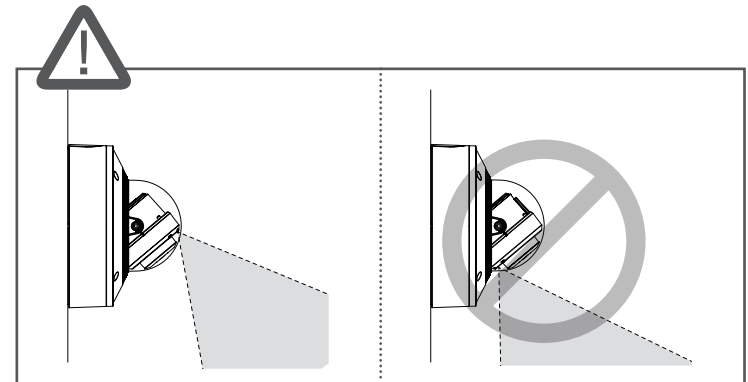
- Bei einem Neigungswinkel von 75 Grad oder mehr kann je nach Zoom-Vergrößerung in einigen Teilen des Bildschirms eine Sichteinschränkung oder ein unscharfes Bild auftreten.
- Nicht mit Gewalt drehen oder auf das Fokus-/Zoom-Objektiv drücken. Ansonsten kann der Fokus nicht richtig funktionieren auf Grund eines Motorfehlers.

### ■ Anpassungsmethode

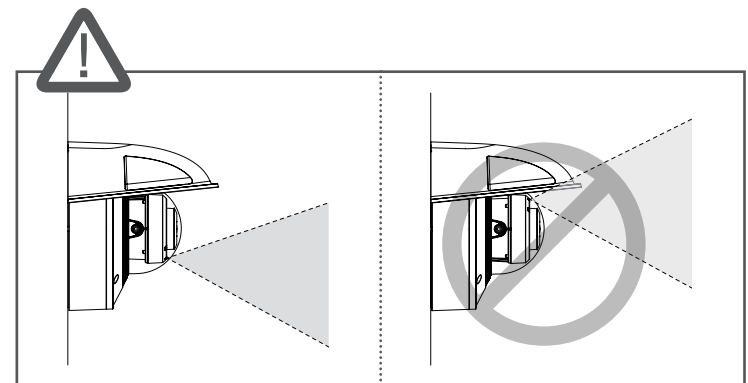
1. Den Schwenkwinkel einstellen und dabei die Überwachungsrichtung bedenken.
2. Den horizontalen Winkel so einstellen, dass das Video beim Drehen nicht umgedreht wird.
3. Den Neigungswinkel in Richtung der Überwachungsrichtung einstellen.



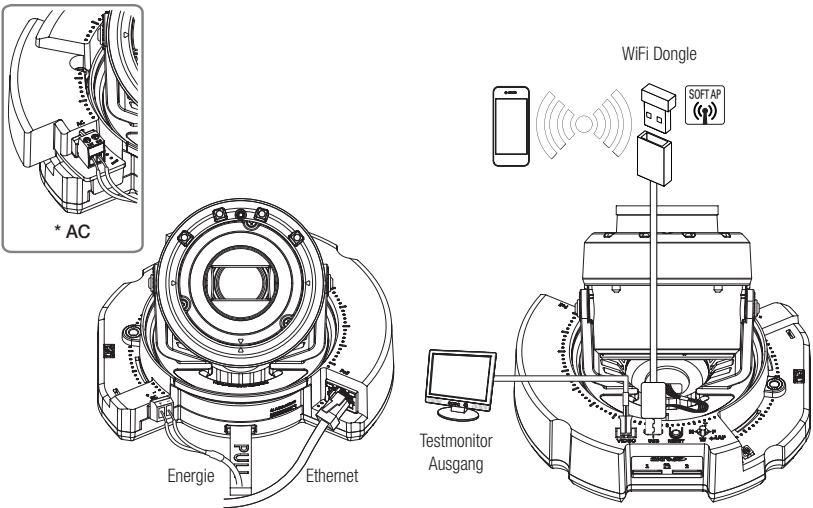
- Die Richtung der IR-LEDs so einstellen, dass ihr Blickfeld nicht durch ein Instrument behindert wird.



- Die Richtung der IR-LEDs so einstellen, dass ihr Blickfeld nicht durch eine Wetterabdeckung (wenn vorhanden) behindert wird.



ANSCHLUSS AN ANDERE GERÄTE



- Der CVBS-Ausgang des Produkts dient der einfacheren Installation und wird nicht für Überwachungszwecke empfohlen.
- Der Micro USB-Ausgang des Produkts wurde zur einfacheren Installation bereitgestellt und dient keinen Überwachungszwecken.

Ethernet-Verbindung

Verbinden Sie das Ethernetkabel mit dem lokalen Netzwerk oder dem Internet.

WiFi-Verbindung

Kameraeinstellung

1. Schließen Sie den OTG-Adapter (5 Stifte) und den WiFi Dongle an den Mikro-USB-Anschluss an.

Smartphone-Einrichtung

1. Installieren Sie die Wisenet Installation Anwendung.
2. Wählen Sie die SSID-Kamera nach dem Einschalten des WiFi.
3. Führen Sie die Wisenet Installationsanwendung aus.
4. Wenn Sie sich bei der Kamera anmelden, wird das Video verbunden.
  - Das Video wird abgespielt, ohne bei der ersten Verbindung angemeldet zu sein.
5. Der Kamerawinkel kann während Sie das Video über das Smartphone betrachten angepasst werden,

Empfohlener Dongle-Hersteller

| Hersteller | Modell       |
|------------|--------------|
| NETIS      | WF2123 n300  |
| EDIMAX     | EW-7811Un    |
| IP Time    | N100mini     |
| TP-LINK    | TL-WN823N V1 |
| ASUS       | USB-N13      |
| NETGEAR    | WNA3100M     |

## Stromversorgung.

Verwenden Sie einen Schraubenzieher, um die verschiedenen Leitungen (+, -) des Stromkabels an die entsprechenden Stromanschlüsse der Kamera anzuschließen.

- Wenn die Stromquellen für PoE und DC 12 V gleichzeitig angeschaltet sind, wird die Stromversorgung für das Gerät von beiden, PoE und DC 12 V, geliefert.
  - Es kann ebenfalls ein Router mit PoE Funktion für die Stromversorgung der Kamera verwendet werden.
  - Verwenden Sie PoE, das mit den IEEE 802.3af Protokollen kompatibel ist.
- Achten Sie beim Anschluss des Stromkabels darauf, Plus- und Minuspol nicht zu vertauschen.
- Die AC-Stromversorgung ist nach dem Kauf eines AC-Moduls (SPC-100AC) verfügbar.
  - Modelle: XNV-6081/XNV-6081R/XNV-8081R
  - Wenn die Stromquellen für PoE und AC 24 V gleichzeitig angeschaltet sind, wird die externe Stromquelle verwendet.
  - AC 24 V kann als unipolar angeschlossen werden.
- Wenn ein externes Gerät angeschlossen werden soll, muss das Gerät vor dem Anschließen abgeschaltet werden.
- Zuerst das Netzteil und das Netzteil des Netzkabels anschließen und dann das Netzkabel an die Steckdose an der Wand anschließen.

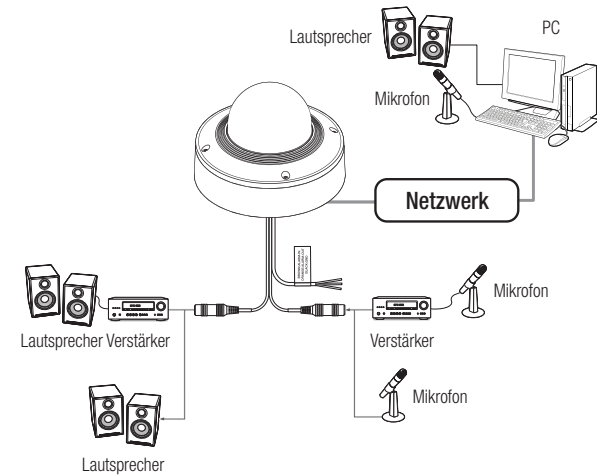
## Netzkabel-Spezifikation für jedes Modell

| Modell                       | Eingangsleistung | Kabeltyp (AWG) | Kabellänge (max.) |
|------------------------------|------------------|----------------|-------------------|
| XND-6081V/F<br>XND-6081RV/RF | DC 12V           | #18            | 22m               |
|                              |                  | #20            | 14m               |
| XND-8081RV/RF                | DC 12V           | #18            | 20m               |
|                              |                  | #20            | 13m               |
| XNV-6081/6081R               | DC 12V           | #18            | 22m               |
|                              |                  | #20            | 14m               |
|                              | AC 24V           | #18            | 40m               |
|                              |                  | #20            | 26m               |
| XNV-8081R                    | DC 12V           | #18            | 20m               |
|                              |                  | #20            | 13m               |
|                              | AC 24V           | #18            | 38m               |
|                              |                  | #20            | 24m               |

## Netzwerkkabel-Spezifikation

| Artikel         | Inhalte             | Anmerkung |
|-----------------|---------------------|-----------|
| Stecker         | RJ45 (10/100BASE-T) |           |
| Ethernet        | 10/100BASE-T        |           |
| Kabel           | UTP Kategorie 5e    |           |
| Max. Entfernung | 100M                |           |
| PoE Support     | IEEE 802.3af        |           |

## Audio E/A Blockdiagramm



1. Verbinden Sie den AUDIO IN Anschluss der Kamera mit dem Mikrofon oder dem LINE OUT Anschluss des Verstärkers, an den das Mikrofon angeschlossen ist.
  - Das interne Mikrofon der Kamera kann ohne einen externen Mikrofonanschluss verwendet werden (nur zutreffend für XND-6081V/XND-6081RV/XND-8081RV).
2. Verbinden Sie den AUDIO OUT Anschluss der Kamera mit dem Lautsprecher oder dem LINE IN Anschluss des Verstärkers, an den das Mikrofon angeschlossen ist.
3. Überprüfen Sie die Spezifikationen für den Audioeingang.

## • Audio Codec

- Audioeingang : G.711 PCM (Bitrate: 64kbps / Abtastfrequenz: 8kHz), G.726 ADPCM (Bitrate: 16Kbps, 24Kbps, 32Kbps, 40Kbps / Abtastfrequenz: 8kHz), AAC (Bit Rate: 48Kbps / Sampling Frequency: 16kHz)
- Audioausgang : G.711 PCM (Bitrate: 64kbps / Abtastfrequenz: 8kHz)

## • Vollduplex Audio

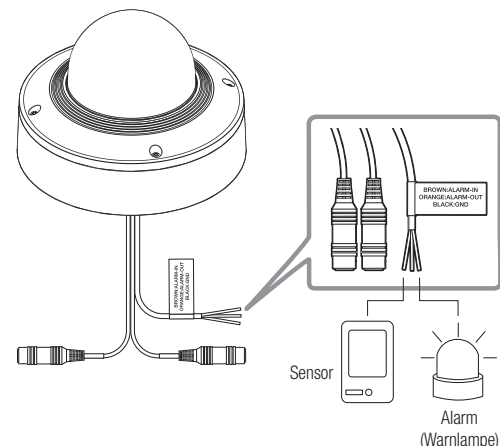
- **Audio Ein (XND-6081V/XND-6081RV/XND-8081RV)** : Wahlweise (Mikrofon/Line-in/Integriertes Mikrofon), unterstützte Spannung: 2,5 VDC (4 mA), Eingangsimpedanz: 2 K Ohm
- **Audio Ein (XND-6081F/XND-6081RF/XND-8081RF/XNV-6081/XNV-6081R/XNV-8081R)** : Wahlweise (Mikrofon/Line-in), unterstützte Spannung: 2,5 VDC (4 mA), Eingangsimpedanz: 2 K Ohm
- **Audio Aus** : Line-out (3,5 mm Monostecker), maximale Leistung: 1 Vms
- **Line out Impedanz** : 600Ω



- Wenn auf den Web Viewer zugegriffen wird und ein externes Mikrofon als Audioeingangsquelle in **<Video und Audio>** - **<Audio-Setup>** ausgewählt wird, werden folgende Spezifikationen empfohlen:
  - Frequenzbereich: 40-16.000 Hz
  - Impedanz: 1.500 Ω
  - Empfindlichkeit: -40±3 dB (7,1-14,1 mV)
- In jedem der folgenden Fälle kann die Leistung der Geräuschklassifizierung beeinträchtigt werden oder nicht richtig funktionieren:
  - Wenn Schussgeräusche andauernd in einem kurzen Intervall gehört werden (z.B. Maschinengewehrgeräusch) eher als bei einem einmaligen Schussgeräusch
  - Wenn das Geräusch für das Geräusch und das Zielgeräusch zu laut ist, um es zu unterscheiden
  - Wenn zwei oder mehr unterschiedliche Geräusche gleichzeitig festgestellt werden
  - Wenn die Geräuschklassifizierung angewendet wird, während sich die Geräuschunterdrückungsfunktion an einem ruhigen Ort befindet
  - Wenn sich die Quelle von Klatschgeräuschen oder Schreien nahe an der Kamera befindet (innerhalb 1 Meter)
  - Wenn ein Geräusch, das nicht zu einer der Geräuschklassifizierungskategorien gehört (Flugzeuggeräusch, Sirengeräusch, usw.), plötzlich laut gehört wird
  - Wenn das externe Mikrofon nicht die empfohlenen Spezifikationen erfüllt

## I/O-Anschlüsse

Verbinden Sie das Alarm-E/A-Kabel mit dem entsprechenden Port der Portbox.



- **ALARM-IN** : Wird genutzt, um den Alarmeingangssensor zu verbinden.
- **ALARM-OUT** : Anschluss für Audioeingang.
- **GND** : Gemeinsamer Port für Alarmeingang-/Alarmausgang-Signal.



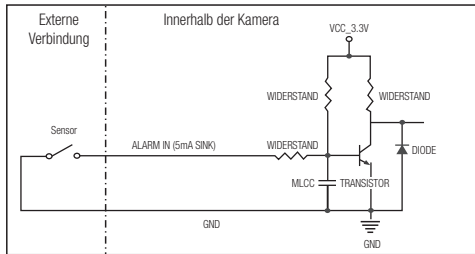
- Wenn Geräte (z.B. Blinklichter und Sirene), die die Spannungs- und Stromspezifikation überschreiten, mithilfe eines Open-Kollektors angeschlossen werden, kann es zu Funktionsstörungen kommen. Wenn Sie Geräte anschließen, die die Spezifikationen zu Netzspannung und Stromstärke überschreiten, ziehen Sie den **"Schaltplan Alarmausgabe"**, zurate. (Seite 37)

## Anschließen des externen Sensors

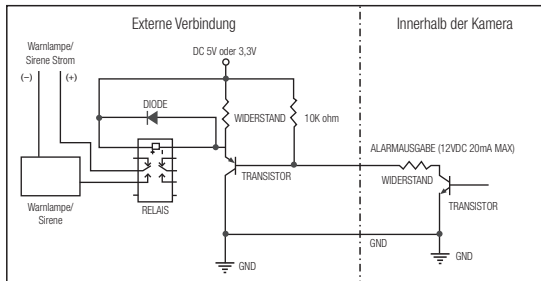
Eine Ader jedes Signalkabels (2-adrig) des Sensors an den **[ALARM IN]** Anschluss und die zweite Ader an den **[GND]** Anschluss anschließen.



## Alarm im Schaltplan



## Schaltplan Alarmausgabe

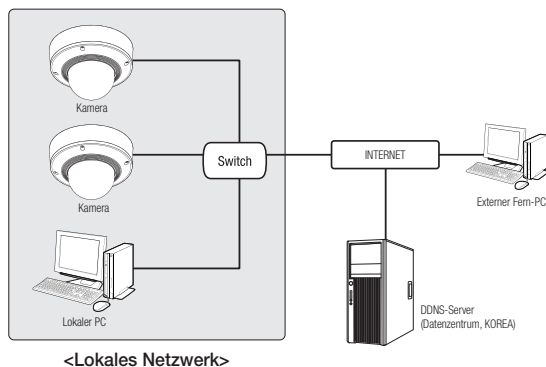


Sie können die Netzwerkeinstellungen gemäß Ihrer Netzwerkkonfigurationen einrichten.

## DIREKTES VERBINDEN DER KAMERA AN DAS LAN

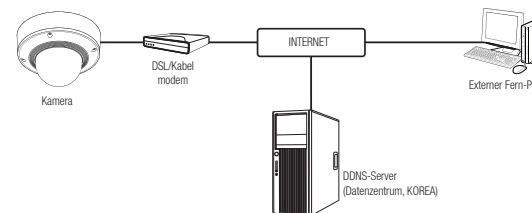
### Anschluss an die Kamera von einem lokalen PC im LAN

1. Starten Sie einen Internetbrowser am lokalen PC.
2. Geben Sie die IP-Adresse der Kamera in die Adressenleiste des Browsers ein.



- Ein Fern-PC in einem externen Internetausgang des LAN Netzwerks kann eventuell die im Intranet installierte Kamera nicht ansteuern, wenn die Portweiterleitung nicht korrekt festgelegt oder eine Firewall eingestellt ist. Wenden Sie sich in dem Fall zur Lösung des Problems an Ihren Netzwerkadministrator.
- Standardmäßig wird die IP-Adresse vom DHCP-Server automatisch zugeteilt. Wenn keinen DHCP-Server verfügbar ist, wird die IP-Adresse auf 192.168.1.100 gesetzt. Zum Ändern der IP-Adresse den Device Manager verwenden. Für weitere Einzelheiten zur Verwendung des Device Manager, siehe „Verwenden des Device Manager“, (Seite 39)

## VERBINDEN DER KAMERA DIREKT MIT EINEM DHCP BASIERTEN DSL/ KABELMODEM



1. Den Benutzer-PC direkt mit der Netzwerkkamera verbinden.
2. Den Device Manager ausführen und die IP-Adresse der Kamera ändern, so dass Sie sich mit dem Webbrowser auf Ihrem Desktop mit dem Internet verbinden können.
3. Verwenden Sie den Webbrowser, um eine Verbindung mit dem Web Viewer herzustellen.
4. Gehen Sie weiter zur **[Setup]** Seite.
5. Gehen Sie weiter zum **[Netzwerk] – [DDNS]** und konfigurieren Sie die DDNS-Einstellungen.
6. Zu **[Basic] – [IP & Port]** navigieren und den IP-Typ auf **[DHCP]** einstellen.
7. Verbinden Sie die Kamera, die von Ihrem PC entfernt wurde, direkt mit dem Modem.
8. Starten Sie die Kamera erneut.

- Informationen für das Einrichten von DDNS finden Sie in der Online-Hilfe des WebViewer.
- Informationen für das Einrichten des IP-Formats finden Sie in der Online-Hilfe des WebViewer.

VERWENDEN DES DEVICE MANAGER



- Das Programm Device Manager kann heruntergeladen werden im Menü <Technical Guides> – <Online Tool> auf der Hanwha Techwin Webseite (<http://www.hanwha-security.com>).
- Weitere Anweisungen zum Device Manager finden sich im Menü <Hilfe> auf der Hauptseite.

AUTOMATISCHE SUCHE DER KAMERA

Wenn eine Kamera mit dem selben Netzwerk des PCs, auf dem der Device Manager installiert ist, verbunden ist, kann die Netzwerkkamera mit der Suchfunktion gefunden werden.

1. Auf der Hauptseite des Device Manager auf <Suchen> klicken.
2. Die Kamera in der Liste auswählen.
  - Die MAC-Adresse auf dem Aufkleber an der Kamera prüfen.

KONFIGURIEREN DER IP-ADRESSE

Wenn Sie die Netzwerkeinstellung der Kamera ändern möchten, muss das Symbol <Login OK> unter <Status> angezeigt werden. Zum Anmelden auf der Hauptseite auf <Authentifizierung> klicken.

Konfigurieren der statischen IP

IP-Adresse und Port-Informationen manuell eingeben und konfigurieren.

1. In der Liste auf die Kamera klicken, von der die IP-Einstellungen geändert werden sollen.
2. Auf der Hauptseite des Device Manager auf <IP Assign (IP zuweisen)> klicken.
3. <Die folgende IP-Adresse zuweisen.> auswählen.
  - Die IP-Informationen der Kamera werden wie zuvor eingestellt angezeigt.
4. IP & Port in die entsprechenden Felder eingeben.

Wenn Sie keinen Breitband-Router verwenden

Den Administrator des Netzwerks nach den Werten für <IP-Adresse>, <Subnetzmaske> und <Gateway> fragen.

- HTTP Port : Zum Zugriff auf die Kamera über den Internetbrowser. Standardmäßig ist der Wert 80 eingestellt.
- VNP Port : Wird verwendet, um die Videosignalübertragung zu steuern. Der Standardwert lautet 4520.
- RTSP Port: Ein Port, der das Echtzeit-Streaming steuert. Der Initialwert ist 554.

Bei Verwendung eines Breitband-Routers

- IP Address : Geben Sie eine Adresse ein, die sich im IP-Bereich des Breitband-Routers befindet.  
bsp) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : Die <Subnet Mask> des Breitband-Routers ist ebenfalls die <Subnet Mask> der Kamera.
- Gateway : Die <Local IP Address> des Breitband-Routers ist das <Gateway> der Kamera.



- Die Netzwerkeinstellungen können sich je nach verbundenem Breitband-Router modell unterscheiden. Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.
- Für weitere Informationen über die Portweiterleitung des Breitband Routers, bitte unter "Portbereichweiterleitung Konfigurieren (Port Mapping)" nachschlagen. (Seite 41)

Wenn mehrere Kameras mit dem Breitband-Router verbunden sind

Konfigurieren Sie die IP- und Port-Einstellungen für jede Kamera einzeln und in Übereinstimmung mit den anderen.

bsp)

| Kategorie          |             | Kamera #1     | Kamera #2     |
|--------------------|-------------|---------------|---------------|
| IP-Einstellungen   | IP Address  | 192.168.1.100 | 192.168.1.101 |
|                    | Subnet Mask | 255.255.255.0 | 255.255.255.0 |
|                    | Gateway     | 192.168.1.1   | 192.168.1.1   |
|                    |             |               |               |
| Port-Einstellungen | HTTP Port   | 8080          | 8081          |
|                    | VNP Port    | 4520          | 4521          |
|                    | RTSP Port   | 554           | 555           |
|                    |             |               |               |

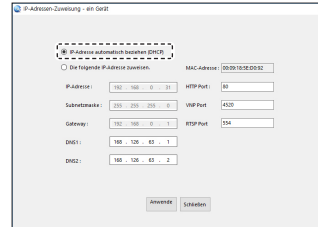


- Wenn der Wert des <HTTP port> nicht 80 ist, müssen Sie die <Port>-Nummer in die Internetadresszeile eingeben, bevor Sie auf die Kamera zugreifen können.  
bsp) http://IP-Adresse: HTTP-Port  
http://192.168.1.100:8080
5. Auf die Schaltfläche [Anwenden] klicken.
  6. Wenn die Erfolgsmeldung erscheint, auf [OK] klicken.

## Konfigurieren der dynamischen IP

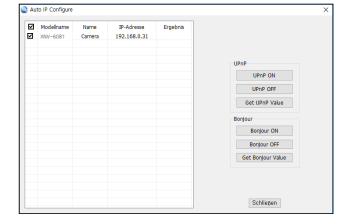
IP-Adresse vom DHCP-Server beziehen.

- Beispiel einer dynamischen IP-Umgebung
    - Wenn einem Breitband-Router, mit dem Kameras verbunden sind, eine IP-Adresse von einem DHCP-Server zugewiesen wird
    - Wenn die Kamera direkt mit einem xDSL- oder Kabelmodem mithilfe eines DHCP-Protokolls verbunden wird
    - Wenn die IP-Adressen von dem internen DHCP-Server über eine LAN-Verbindung zugewiesen werden
1. In der Liste auf die Kamera klicken, von der die IP-Einstellungen geändert werden sollen.
  2. Auf der Hauptseite des Device Manager auf **<IP Assign (IP zuweisen)>** klicken.
  3. **<IP-Adresse automatisch beziehen (DHCP)>** auswählen.
  4. Auf die Schaltfläche **[Anwenden]** klicken.
  5. Wenn die Erfolgsmeldung erscheint, auf **[OK]** klicken.



## AUTOMATISCHE KONFIGURATION DER IP

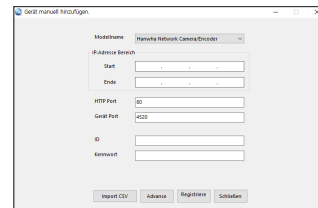
1. In der Liste auf die Kamera klicken, von der die IP automatisch konfiguriert werden soll.
2. Auf der Hauptseite des Device Manager auf **< + >** klicken.
  - Das Menü Equipment Setting erscheint.
3. Im Menü auf **<Auto IP Configure (Automatische IP-Konfiguration)>** klicken.
4. Auf die Schaltfläche **[Schließen]** klicken.



## MANUELLES REGISTRIERUNG DER KAMERA

Wenn die Kamera mit der Suchfunktion nicht gefunden werden kann, kann die Kamera aus der Ferne registriert werden, indem die IP-Information manuell eingegeben werden, wenn die Kamera mit dem externen Netzwerk verbunden ist.

1. Auf **<Geräte hinzufügen>** – **<Gerät manuell hinzufügen>** auf der Hauptseite des Device Manager klicken.
2. Den Bereich der IP-Adresse, den Sie suchen, eingeben.
3. Den **<Modellname>** der Kamera, die Sie registrieren wollen, auswählen und HTTP Port, VNP-Port, ID und Passwort eingeben.
4. Auf die Schaltfläche **[Registrieren]** klicken.
5. Prüfen, ob die Kamera registriert ist.
  - Die MAC-Adresse auf dem Aufkleber an der Kamera prüfen.

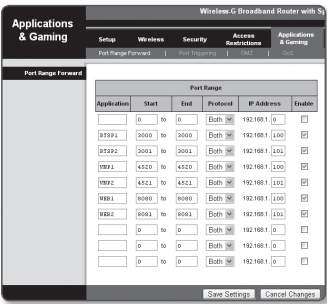


# PORTBEREICHWEITERLEITUNG KONFIGURIEREN (PORT MAPPING)

Wenn Sie einen Breitband-Router mit verbundener Kamera installiert haben, müssen Sie die Weiterleitung des Portbereichs für den Breitband-Router einstellen, damit auch ein entfernter Computer auf die verbundene Kamera zugreifen kann.

## Manuelle Portbereichweiterleitung

- 1. Wählen Sie aus dem Einstellungsmenü des Breitband-Routers **<Applications & Gaming>** - **<Port Range Forward>**. Für die Einstellung der Portbereichweiterleitung eines Breitband-Routers von einem anderen Anbieter lesen Sie die Bedienungsanleitung dieses Breitband-Routers.
- 2. Wählen Sie **<TCP>** und **<UDP Port>** für jede Kamera, die mit dem Breitband-Router verbunden ist. Jede Portnummer, die beim IP-Router eingestellt wird, sollte entsprechend der bei den **<Setup>** - **<Basic>** - **<IP & Port>** im Kamera-Web-Viewer festgelegten Portnummer übereinstimmen.
- 3. Wenn Sie fertig sind, klicken Sie auf **[Save Settings]**. Ihre Einstellungen werden gespeichert.

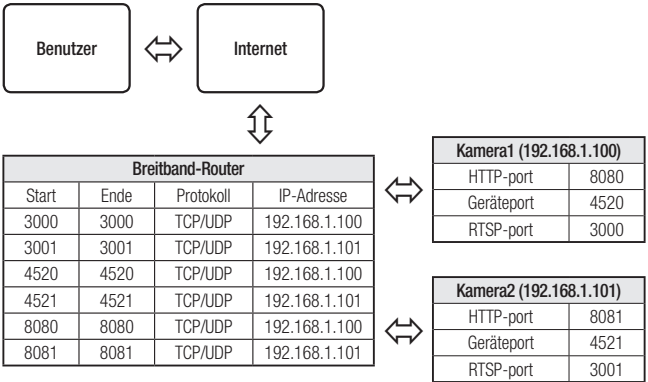


- Die Einstellung des Port-Forwarding wird am Beispiel der Einstellung eines CISCO IP-Routers gezeigt.
- Die Netzwerkeinstellungen können sich je nach Breitband-Routermodell unterscheiden. Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.

## Einstellen des Portweiterleitungsbereichs für mehrere Netzwerkkameras

- Sie können auf dem Breitband-Router-Gerät durch seine Webseitekonfiguration Portweiterleitung-Richtlinien setzen.
- Ein Benutzer kann jeden Port durch Verwendung des Kamera-Einstellungsbildschirms ändern.

Wenn Kamera 1 und Kamera 2 an einen Router angeschlossen sind :



- Die Port-Weiterleitung lässt sich ohne zusätzliche Router-Einstellung vornehmen, wenn der Router die UPnP (Universal Plug and Play) Funktion unterstützt. Nach dem Anschließen der Netzwerkkamera das Kontrollkästchen aus dem Menü **<Schnelle Verbindung>** in **<Wissenet-DDNS>** unter **"Einstellungen -> Netzwerk -> DDNS"** anticken.

## VON EINEM GEMEINSAMEN LOKALEN PC EINE VERBINDUNG ZU DER KAMERA HERSTELLEN

---

1. Device Manager ausführen.  
Es wird nach verbundenen Kameras gesucht und eine entsprechende Liste angezeigt.
2. Doppelklicken Sie auf eine Kamera, um auf sie zuzugreifen.  
Der Internetbrowser wird gestartet und stellt eine Verbindung zu der Kamera her.



- Sie können ebenfalls auf die Kamera zugreifen, indem Sie die IP-Adresse der gefundenen Kamera in der Adresszeile des Internetbrowsers eingeben.

## VON EINEM ENTFERNTEN PC EINE VERBINDUNG ZU DER KAMERA ÜBER DAS INTERNET HERSTELLEN

---

Auf einem entfernten Computer, der sich nicht im Netzwerk-Cluster des Breitband-Routers befindet, können Anwender auf Kameras im Netzwerk des Breitband-Routers durch die Verwendung der DDNS-URL der Kamera zugreifen.

1. Bevor Sie auf eine Kamera im Breitband-Routernetzwerk zugreifen können, sollten Sie die Portbereichweiterleitung für den Breitband-Router eingestellt haben.
2. Starten Sie den Internetbrowser auf dem entfernten Computer und geben Sie die DDNS-URL der Kamera oder die IP-Adresse des Breitband-Routers in die Adresszeile ein.  
bsp) <http://ddns.hanwha-security.com/ID>

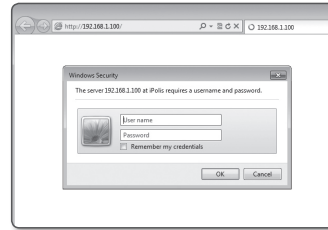


- Zur Verwendung von Wisenet DDNS auf der Wisenet DDNS Homepage anmelden (<http://ddns.hanwha-security.com>) und das Produkt unter **[Mein DDNS]>[Produkt registrieren]** registrieren.

## VERBINDUNG MIT DER KAMERA

### Sie würden, normalerweise

1. Starten Sie den Internetbrowser.
2. Die IP-Adresse der Kamera in die Adresszeile eingeben.  
 bsp) • IP Adresse (IPv4) : 192.168.1.100 →  
 http://192.168.1.100  
 - Der Anmeldedialog sollte erscheinen.  
 • IP Adresse (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111  
 → http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - Der  
 Anmeldedialog sollte erscheinen.



### Falls die Nummer des HTTP-Ports nicht 80 ist

1. Starten Sie den Internetbrowser.
2. Geben Sie in die Adressleiste des Browsers die IP-Adresse und die HTTP-Portnummer ein.  
 bsp) IP Adresse: 192.168.1.100:HTTP-Portnummer(8080)  
 → http://192.168.1.100:8080 - Der Anmeldedialog sollte erscheinen.

### URL Benutzen

1. Starten Sie den Internetbrowser.
2. Geben Sie in die Adressleiste des Browsers die DDNS-URL-Adresse der Kamera ein.  
 bsp) URL-Adresse: http://ddns.hanwha-security.com/ID  
 - Der Anmeldedialog sollte erscheinen.



■ Die Netzwerkverbindung ist in der nur LAN-Umgebung deaktiviert.

### Verbindung über UPnP

1. Das Kunden- oder Betriebssystem zur Unterstützung des UPnP-Protokolls ausführen.
2. Für die Suche den Kameranamen anklicken.  
 Den Kameranamen, der aus dem Netzwerkmenü gesucht wurde, im Windows Betriebssystem anklicken.  
 - Das Fenster Anmelden wird angezeigt.

### Verbindung über Bonjour

1. Das Kunden- oder Betriebssystem zur Unterstützung des Bonjour- Protokolls ausführen.
2. Für die Suche den Kameranamen anklicken.  
 Beim Mac-Betriebssystem den Kameranamen anklicken, der von der Bonjour Registerkarte von Safari gesucht wurde.  
 - Das Fenster Anmelden wird angezeigt.

### So überprüfen Sie die DDNS-Adresse

Falls die Kamera direkt an ein DHCP-basiertes Kabelmodem oder DSL-Modem angeschlossen wird, ändert sich die IP-Adresse bei jedem Versuch, eine Verbindung mit dem ISP (der Firma, die Sie abonniert haben) herzustellen.

In diesem Fall werden Sie nicht über die durch DDNS geänderte IP-Adresse informiert.

Sobald Sie ein auf dynamischer IP basierendes Gerät beim DDNS-Server registrieren, können Sie die geänderte IP-Adresse einfach überprüfen, wenn Sie versuchen auf das Gerät zuzugreifen.

Um das Gerät auf dem <DDNS> Server zu registrieren, besuchen Sie bitte <http://ddns.hanwha-security.com>, registrieren Sie zuerst Ihr Gerät stellen Sie anschließend im Net Viewer unter <Netzwerk> - <DDNS> auf <Wisenet DDNS> und geben Sie ebenfalls die <Produkt-ID> ein, die Sie bei der DDNS-Registrierung verwendet haben.

## PASSWORTEINSTELLUNG

Beim ersten Zugriff auf das Produkt, müssen Sie das Anmelde-Passwort registrieren.



- Für ein neues Passwort mit 8 bis 9 Ziffern müssen Sie mindestens drei der Folgenden verwenden: Groß-/Kleinbuchstaben, Zahlen und Sonderzeichen. Für ein Passwort mit 10 bis 15 Ziffern müssen Sie mindestens zwei dieser Zeichentypen verwenden.
  - Zulässige Sonderzeichen sind: ~!@#\$%^&\*()\_+={}|[]?/
- Zur erhöhten Sicherheit wird empfohlen, nicht die gleichen Zeichen oder aufeinanderfolgende Eingaben der Tastatur zu wiederholen.
- Falls Sie Ihr Passwort vergessen haben, können Sie die Schaltfläche **[RESET]** drücken und das Produkt initialisieren. Verwenden Sie ein Memo-Pad oder merken Sie sich Ihr Passwort.

## ANMELDEN

Immer, wenn Sie auf die Kamera zugreifen, wird das Anmeldefenster angezeigt. Geben Sie den Benutzernamen und das Passwort ein, um auf die Kamera zuzugreifen.

- Geben Sie „**admin**“ in das <User name> Eingabefeld ein. Die Administrator ID, „**admin**“, kann nicht verändert werden.
- Geben Sie das Passwort in dem Eingabefeld <Password> ein.
- Klicken Sie auf **[OK]**. Wenn Sie sich erfolgreich angemeldet haben, werden Sie den Live Viewer Bildschirm sehen.



- Achten Sie beim Zugriff auf den Kamera-Webviewer besonders auf die Sicherheit, indem Sie nachprüfen ob die Bilddaten verschlüsselt sind.



- Wenn Sie die Option „**Remember my credentials**“ wählen, nachdem Ihre Eingabe beendet ist, werden Sie automatisch angemeldet ohne zukünftig aufgefordert zu werden, Ihre Anmeldedaten einzugeben.
- Die beste Bildqualität wird erreicht, wenn die Bildschirmgröße auf 100% eingestellt ist. Reduzierung des Bildseitenverhältnis kann das Bild an den Rändern abschneiden.

## EINRICHTUNG VON CAMERA WEB VIEWER

- Klicken Sie auf das **[Einrichten (⚙)]**-Symbol.
- Das Fenster für die Einstellungen erscheint.
- Sie können Einstellungen für die grundlegenden Informationen der Kamera, das Video, das Audio, das Netzwerk, das Ereignis, die Analyse sowie für das Kamerasystem über das Netzwerk konfigurieren.
- Klicken Sie auf **<Hilfe (🔗)>** um detaillierte Beschreibungen jeder Funktion betrachten zu können.



## SPEZIFIKATIONEN

| Elemente |                              | Beschreibung                                                                                                                                                                                         |                      |                      |
|----------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|
|          |                              | XNV-6081/XNV-6081R                                                                                                                                                                                   | XND-6081V/XND-6081RV | XND-6081F/XND-6081RF |
| Video    | Bildaufnahmegerät            | 1/2,8" 2MP CMOS                                                                                                                                                                                      |                      |                      |
|          | Effektive Pixel              | 1945(H) x 1097(V)                                                                                                                                                                                    |                      |                      |
|          | NETD                         | Keine                                                                                                                                                                                                |                      |                      |
|          | Pixelgröße                   | Keine                                                                                                                                                                                                |                      |                      |
|          | Mindestbeleuchtung           | XNV-6081/XND-6081V/XND-6081F - Farbe: 0,015 Lux (F1,4, 1/30 Sek.), S/W: 0,0015 Lux (F1,4, 1/30 Sek.)<br>XNV-6081R/XND-6081RV/XND-6081RF - Farbe: 0,015 Lux (F1,4, 1/30 Sek.), S/W: 0 Lux (IR-LED an) |                      |                      |
|          | Videoausgang                 | CVBS: 1,0 Vp-p/75 Ω Composite, 720x480(N), 720x576(P) für Installation<br>USB : Micro USB Typ B, 1280x720 zur Installation                                                                           |                      |                      |
| Objektiv | Brennweite (Zoomrate)        | 2,8~12 mm(4,3x) motorisierter Gleitfokus                                                                                                                                                             |                      |                      |
|          | Max. Blendenverhältnis       | F1,4 (Weitwinkel) ~ F3,6 (Tele)                                                                                                                                                                      |                      |                      |
|          | Sichtwinkelfeld              | H: 119,5°(Weit)~27,9°(Tele)<br>V: 62,8°(Weit)~15,7°(Tele)<br>D: 142,1°(Weit)~32,0°(Tele)                                                                                                             |                      |                      |
|          | Mindestentfernung zum Objekt | 0,5 m (1,64 Fuß)                                                                                                                                                                                     |                      |                      |
|          | Fokus-Steuerung              | Einfacher Fokus                                                                                                                                                                                      |                      |                      |
|          | Objektivart                  | DC Auto-Blende, P-Iris                                                                                                                                                                               |                      |                      |
|          | Montagetyp                   | Keine                                                                                                                                                                                                |                      |                      |
|          | Optionales Objektiv          | Keine                                                                                                                                                                                                |                      |                      |

| Elemente                    |                                         | Beschreibung                                                                             |                      |                      |
|-----------------------------|-----------------------------------------|------------------------------------------------------------------------------------------|----------------------|----------------------|
|                             |                                         | XNV-6081/XNV-6081R                                                                       | XND-6081V/XND-6081RV | XND-6081F/XND-6081RF |
| Schwenken/<br>Neigen/Drehen | Bereich für Schwenken/<br>Neigen/Drehen | 0°~360° / -45°~85° / 0°~355°                                                             |                      |                      |
|                             | Schwenkbereich                          | Keine                                                                                    |                      |                      |
|                             | Schwenkgeschwindigkeit                  | Keine                                                                                    |                      |                      |
|                             | Neigungsbereich                         | Keine                                                                                    |                      |                      |
|                             | Neigungsgeschwindigkeit                 | Keine                                                                                    |                      |                      |
|                             | Drehbereich                             | Keine                                                                                    |                      |                      |
|                             | Bildfolge                               | Keine                                                                                    |                      |                      |
|                             | Genauigkeit der<br>Voreinstellung       | Keine                                                                                    |                      |                      |
|                             | Azimut                                  | Keine                                                                                    |                      |                      |
| Funktionsweise              | Autom. Nachverfolgen                    | Keine                                                                                    |                      |                      |
|                             | IR sichtbare Länge                      | XNV-6081/XND-6081V/XND-6081F : Keine<br>XNV-6081R/XND-6081RV/XND-6081RF : 50 m (164 Fuß) |                      |                      |
|                             | Kameratitel                             | Bis zu 85 Zeichen angezeigt                                                              |                      |                      |
|                             | Tag und Nacht                           | Auto (ICR)                                                                               |                      |                      |
|                             | Gegenlichtkompensation                  | BLC, HLC, WDR, SDR                                                                       |                      |                      |
|                             | BREIT-Dynamischer Bereich               | 150dB                                                                                    |                      |                      |
|                             | Digitale Rauschunterdrückung            | SSNR V                                                                                   |                      |                      |
|                             | Digitale Bildstabilisierung             | Unterstützung (Eingebauter Gyrosensor)                                                   |                      |                      |
|                             | Entnebeln                               | Unterstützung                                                                            |                      |                      |
|                             | Bewegungserkennung                      | 8ea, 8punkt Polygonzonen                                                                 |                      |                      |

| Elemente       |                                  | Beschreibung                                                                                                                                                                                                                                                                      |                                                                                                                          |                                                                                               |
|----------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                |                                  | XNV-6081/XNV-6081R                                                                                                                                                                                                                                                                | XND-6081V/XND-6081RV                                                                                                     | XND-6081F/XND-6081RF                                                                          |
| Funktionsweise | Privatsphärenausblendung         | 32ea, Polygonzonen<br>- Farbe : grau / grün / rot / blau / schwarz / weiß<br>- Mosaik                                                                                                                                                                                             |                                                                                                                          |                                                                                               |
|                | Verstärkungssteuerung            | Gering / Mittel / Hoch                                                                                                                                                                                                                                                            |                                                                                                                          |                                                                                               |
|                | Weißabgleich                     | ATW / AWC / Manuell / Innenbereich / Außenbereich                                                                                                                                                                                                                                 |                                                                                                                          |                                                                                               |
|                | LDC                              | Unterstützung                                                                                                                                                                                                                                                                     |                                                                                                                          |                                                                                               |
|                | Elektronischer Blendenverschluss | Minimum / Maximum / Anti-Flimmern (2 ~ 1/12 000 Sek.)                                                                                                                                                                                                                             |                                                                                                                          |                                                                                               |
|                | Videodrehung                     | Umdrehen, Spiegeln, Hausfluransicht (90°/270°)                                                                                                                                                                                                                                    |                                                                                                                          |                                                                                               |
|                | Analyse                          | Unschärfe-Ermittlung, Richtungserkennung, Nebelerkennung, Gesichtserkennung, Bewegungserkennung, Digitales automatisches Verfolgen, Zeigen/Verbergen, Betreten/Verlassen, Herumstehen, Manipulation, Virtuelle Linie, Geräuscherkennung, Geräuschklassifizierung, Schockerkennung |                                                                                                                          |                                                                                               |
|                | Business-Intelligence            | Menschenzählen, Warteschlangenverwaltung, Heatmap                                                                                                                                                                                                                                 |                                                                                                                          |                                                                                               |
|                | Serielle Schnittstelle           | Keine                                                                                                                                                                                                                                                                             |                                                                                                                          |                                                                                               |
|                | Alarm E/A                        | Eingabe je 1 / Ausgabe je 1                                                                                                                                                                                                                                                       |                                                                                                                          |                                                                                               |
|                | Alarm Auslöser                   | Analyse, Netzwerk trennen, Alarmeingang                                                                                                                                                                                                                                           |                                                                                                                          |                                                                                               |
|                | Alarmereignisse                  | <ul style="list-style-type: none"> <li>• Datei Hochladen über FTP, E-Mail</li> <li>• Benachrichtigung über E-Mail</li> <li>• SD-/SDHC-/SDXC- oder NAS-Aufnahme durch Ereignis auslösen</li> <li>• Alarmausgang</li> <li>• Übergabe</li> <li>• Audio-Wiedergabe</li> </ul>         |                                                                                                                          |                                                                                               |
|                | Audio In                         | Wählbar (Mic IN/Linie IN)<br>Netzspannung:<br>2,5VDC(4mA),<br>Eingabeimpedanz: etwa<br>2K Ohm                                                                                                                                                                                     | Wählbar (Mic IN/Linie IN/<br>Integriertes Mikrophon)<br>Netzspannung:<br>2,5VDC(4mA),<br>Eingabeimpedanz: etwa<br>2K Ohm | Wählbar (Mic IN/Linie IN)<br>Netzspannung:<br>2,5VDC(4mA),<br>Eingabeimpedanz: etwa<br>2K Ohm |

| Elemente       |                             | Beschreibung                                                                                                                         |                      |                      |
|----------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|
|                |                             | XNV-6081/XNV-6081R                                                                                                                   | XND-6081V/XND-6081RV | XND-6081F/XND-6081RF |
| Funktionsweise | Audio aus                   | Line-Ausgang Maximale Leistung: 1Vrms                                                                                                |                      |                      |
|                | Wischer                     | Keine                                                                                                                                |                      |                      |
|                | Koaxial-Protokoll           | Keine                                                                                                                                |                      |                      |
|                | Video-Übertragungsstrecke   | Keine                                                                                                                                |                      |                      |
| Radiometrie    | Temperaturerkennungsbereich | Keine                                                                                                                                |                      |                      |
|                | Temperaturgenauigkeit       | Keine                                                                                                                                |                      |                      |
|                | Temperaturerfassung         | Keine                                                                                                                                |                      |                      |
|                | Zusätzlich                  | Keine                                                                                                                                |                      |                      |
| Netzwerk       | Ethernet                    | RJ-45 (10/100BASE-T)                                                                                                                 |                      |                      |
|                | Video-Kompression           | H.265/H.264: Main/Baseline/High, MJPEG                                                                                               |                      |                      |
|                | Auflösung                   | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240                    |                      |                      |
|                | Max. Framerate              | H.265/H.264: Max. 60 fps/50 fps (60 Hz/50 Hz)<br>MJPEG: Max. 30 fps/25 fps (60 Hz/50 Hz)                                             |                      |                      |
|                | Smart Codec                 | Manuell (5 ea Bereich), WiseStream II                                                                                                |                      |                      |
|                | Bitraten-Steuerung          | H.264/H.265 : CBR oder VBR<br>MJPEG : VBR                                                                                            |                      |                      |
|                | Streaming                   | Unicast (20 Benutzer)/Multicast<br>Mehrfach-Streaming (bis zu 10 Profile)                                                            |                      |                      |
|                | Audio-Kompression           | G.711 µ-law /G.726 Wählbar<br>G.726 (ADPCM) 8KHz, G.711 8KHz<br>G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC: 48 Kbps bei 16 KHz |                      |                      |
|                |                             |                                                                                                                                      |                      |                      |
|                |                             |                                                                                                                                      |                      |                      |

| Elemente            |                                    | Beschreibung                                                                                                                                                                                                                                            |                                                                       |                        |
|---------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------|
|                     |                                    | XNV-6081/XNV-6081R                                                                                                                                                                                                                                      | XND-6081V/XND-6081RV                                                  | XND-6081F/XND-6081RF   |
| Netzwerk            | Protokoll                          | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP                                                              |                                                                       |                        |
|                     | Sicherheit                         | HTTPS (SSL) Authentifizierungsprotokoll<br>Anmelde-Übersicht Authentifizierung<br>IP-Adressfilter<br>Benutzerzugriff Protokoll<br>802.1X Authentifizierungsmethode (EAP-TLS, EAP-LEAP)                                                                  |                                                                       |                        |
|                     | Randspeicher                       | Micro SD/SDHC/SDXC 2 Slots 512 GB                                                                                                                                                                                                                       |                                                                       |                        |
|                     | Anwendungsprogrammierschnittstelle | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet Open-Plattform                                                                                                                                                                                       |                                                                       |                        |
|                     | Web Viewer                         | Unterstützte Betriebssystem : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12<br>Empfohlener Browser: Google Chrome<br><br>Unterstützter Browser : MS Explorer11, MS Edge, Mozilla Firefox (Nur Windows 64bit), Apple Safari (wird nur bei Mac OS X) |                                                                       |                        |
|                     | Speicher                           | 1024 MB RAM, 256 MB Flash                                                                                                                                                                                                                               |                                                                       |                        |
| Betriebsbedingungen | Betriebstemperatur / Feuchtigkeit  | -50°C ~ +60°C (-58°F ~ +140°F) / Weniger als 90% rel.Luftfeuchtigkeit<br>* Eine Inbetriebnahme muss bei über -35°C erfolgen                                                                                                                             | -25°C ~ +60°C (-13°F ~ +140°F) / Weniger als 90% rel.Luftfeuchtigkeit |                        |
|                     | Lagerungstemperatur / Feuchtigkeit | -50°C ~ +60°C (-58°F ~ +140°F) / Weniger als 90% rel.Luftfeuchtigkeit                                                                                                                                                                                   |                                                                       |                        |
|                     | Zertifizierung                     | IP66/IP67, IK10+, NEMA4X, IP6K9K                                                                                                                                                                                                                        | IP52, IK10                                                            | IP52, IK10, Anfüllrate |

| Elemente   |                             | Beschreibung                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                 |                                                 |
|------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
|            |                             | XNV-6081/XNV-6081R                                                                                                                                                                                                                                                                                                                                                                                                                                     | XND-6081V/XND-6081RV                            | XND-6081F/XND-6081RF                            |
| Elektrisch | Eingangsspannung            | PoE (IEEE802.3af, Klasse 3), 24 V AC (optional), 12 V DC<br>PoE(IEEE802.3af, Klasse 3), 12VDC                                                                                                                                                                                                                                                                                                                                                          |                                                 |                                                 |
|            | Energieverbrauch            | XNV-6081 - PoE: Max 7,0 W, typisch 4,90 W<br>12VDC: Max 5,4 W, typisch 3,70 W<br>24VAC: Max 7,1 W, typisch 4,90 W<br><br>XNV-6081R - PoE: Max 12,95 W, typisch 10,30 W<br>12VDC: Max 10,8 W, typisch 8,40 W<br>24VAC: Max 13,3 W, typisch 10,40 W<br><br>XND-6081V/XND-6081F - PoE : Max 7,0 W, typisch 4,20 W<br>12VDC : Max 5,4 W, typisch 3,10 W<br><br>XND-6081RV/XND-6081RF - PoE: Max 12,95 W, typisch 9,4 W<br>12VDC: Max 10,8 W, typisch 7,6 W |                                                 |                                                 |
| Mechanisch | Farbe / Materiell           | Weiß/Aluminium                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                 |                                                 |
|            | RAL-Code                    | RAL9003                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                 |                                                 |
|            | Produktabmessungen/-gewicht | Ø180 x 125 mm (7,09 x 4,92"), 1,75 kg (3,86 lb)                                                                                                                                                                                                                                                                                                                                                                                                        | Ø160 x 125 mm (6,30 x 4,92"), 1,45 kg (3,20 lb) | Ø205 x 163 mm (8,07 x 6,42"), 1,80 kg (3,97 lb) |

| Elemente |                              | Beschreibung                                                                                                               |            |            |
|----------|------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------|------------|
|          |                              | XNV-8081R                                                                                                                  | XND-8081RV | XND-8081RF |
| Video    | Bildaufnahmegerät            | 1/1.8" 6MP CMOS                                                                                                            |            |            |
|          | Effektive Pixel              | 2616(H) x 1976(V)                                                                                                          |            |            |
|          | NETD                         | Keine                                                                                                                      |            |            |
|          | Pixelgröße                   | Keine                                                                                                                      |            |            |
|          | Mindestbeleuchtung           | Farbe: 0,07 Lux (F1,2, 1/30 Sek.),<br>S/W: 0 Lux (IR-LED an)                                                               |            |            |
|          | Videoausgang                 | CVBS: 1,0 Vp-p/75 Ω Composite, 720x480(N), 720x576(P) für Installation<br>USB : Micro USB Typ B, 1280x720 zur Installation |            |            |
| Objektiv | Brennweite (Zoomrate)        | 3,9~9,4mm(2,4x) motorisierter Gleitfokus                                                                                   |            |            |
|          | Max. Blendenverhältnis       | F1.3                                                                                                                       |            |            |
|          | Sichtwinkelfeld              | H: 92,1°(Weit)~38,7°(Tele)<br>V: 67,2°(Weit)~29,0°(Tele)<br>D: 119,9°(Weit)~48,6°(Tele)                                    |            |            |
|          | Mindestentfernung zum Objekt | 0,5 m (1,64 Fuß)                                                                                                           |            |            |
|          | Fokus-Steuerung              | Einfacher Fokus                                                                                                            |            |            |
|          | Objektivart                  | DC Auto-Blende, P-Iris                                                                                                     |            |            |
|          | Montagetyp                   | Keine                                                                                                                      |            |            |
|          | Optionales Objektiv          | Keine                                                                                                                      |            |            |

| Elemente                    |                                         | Beschreibung                           |            |            |
|-----------------------------|-----------------------------------------|----------------------------------------|------------|------------|
|                             |                                         | XNV-8081R                              | XND-8081RV | XND-8081RF |
| Schwenken/<br>Neigen/Drehen | Bereich für Schwenken/<br>Neigen/Drehen | 0°~360° / -45°~85° / 0°~355°           |            |            |
|                             | Schwenkbereich                          | Keine                                  |            |            |
|                             | Schwenkgeschwindigkeit                  | Keine                                  |            |            |
|                             | Neigungsbereich                         | Keine                                  |            |            |
|                             | Neigungsgeschwindigkeit                 | Keine                                  |            |            |
|                             | Drehbereich                             | Keine                                  |            |            |
|                             | Bildfolge                               | Keine                                  |            |            |
|                             | Genauigkeit der<br>Voreinstellung       | Keine                                  |            |            |
|                             | Azimut                                  | Keine                                  |            |            |
|                             | Autom. Nachverfolgen                    | Keine                                  |            |            |
| Funktionsweise              | IR sichtbare Länge                      | 50 m (164 Fuß)                         |            |            |
|                             | Kameratitel                             | Bis zu 85 Zeichen angezeigt            |            |            |
|                             | Tag und Nacht                           | Auto (ICR)                             |            |            |
|                             | Gegenlichtkompensation                  | BLC, HLC, WDR, SSDR                    |            |            |
|                             | BREIT-Dynamischer Bereich               | 120dB                                  |            |            |
|                             | Digitale Rauschunterdrückung            | SSNR V                                 |            |            |
|                             | Digitale Bildstabilisierung             | Unterstützung (Eingebauter Gyrosensor) |            |            |
|                             | Entnebeln                               | Unterstützung                          |            |            |
|                             | Bewegungserkennung                      | 8ea, 8punkt Polygonzonen               |            |            |

| Elemente       |                                  | Beschreibung                                                                                                                                                                                                                                                                      |                                                                                                                          |                                                                                               |
|----------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|                |                                  | XNV-8081R                                                                                                                                                                                                                                                                         | XND-8081RV                                                                                                               | XND-8081RF                                                                                    |
| Funktionsweise | Privatsphärenausblendung         | 32ea, Polygonzonen<br>- Farbe : grau / grün / rot / blau / schwarz / weiß<br>- Mosaik                                                                                                                                                                                             |                                                                                                                          |                                                                                               |
|                | Verstärkungssteuerung            | Gering / Mittel / Hoch                                                                                                                                                                                                                                                            |                                                                                                                          |                                                                                               |
|                | Weißabgleich                     | ATW / AWC / Manuell / Innenbereich / Außenbereich                                                                                                                                                                                                                                 |                                                                                                                          |                                                                                               |
|                | LDC                              | Unterstützung                                                                                                                                                                                                                                                                     |                                                                                                                          |                                                                                               |
|                | Elektronischer Blendenverschluss | Minimum / Maximum / Anti-Flimmern (2 ~ 1/12 000 Sek.)                                                                                                                                                                                                                             |                                                                                                                          |                                                                                               |
|                | Videodrehung                     | Umdrehen, Spiegeln, Hausfluransicht (90°/270°)                                                                                                                                                                                                                                    |                                                                                                                          |                                                                                               |
|                | Analyse                          | Unschärfe-Ermittlung, Richtungserkennung, Nebelerkennung, Gesichtserkennung, Bewegungserkennung, Digitales automatisches Verfolgen, Zeigen/Verbergen, Betreten/Verlassen, Herumstehen, Manipulation, Virtuelle Linie, Geräuscherkennung, Geräuschklassifizierung, Schockerkennung |                                                                                                                          |                                                                                               |
|                | Business-Intelligence            | Menschenzählen, Warteschlangenverwaltung, Heatmap                                                                                                                                                                                                                                 |                                                                                                                          |                                                                                               |
|                | Serielle Schnittstelle           | Keine                                                                                                                                                                                                                                                                             |                                                                                                                          |                                                                                               |
|                | Alarm E/A                        | Eingabe je 1 / Ausgabe je 1                                                                                                                                                                                                                                                       |                                                                                                                          |                                                                                               |
|                | Alarm Auslöser                   | Analyse, Netzwerk trennen, Alarmeingang                                                                                                                                                                                                                                           |                                                                                                                          |                                                                                               |
|                | Alarmergebnisse                  | <ul style="list-style-type: none"> <li>• Datei Hochladen über FTP, E-Mail</li> <li>• Benachrichtigung über E-Mail</li> <li>• SD-/SDHC-/SDXC- oder NAS-Aufnahme durch Ereignis auslösen</li> <li>• Alarmausgang</li> <li>• Übergabe</li> <li>• Audio-Wiedergabe</li> </ul>         |                                                                                                                          |                                                                                               |
|                | Audio In                         | Wählbar (Mic IN/Linie IN)<br>Netzspannung:<br>2,5VDC(4mA),<br>Eingabeimpedanz: etwa<br>2K Ohm                                                                                                                                                                                     | Wählbar (Mic IN/Linie IN/<br>Integriertes Mikrophon)<br>Netzspannung:<br>2,5VDC(4mA),<br>Eingabeimpedanz: etwa<br>2K Ohm | Wählbar (Mic IN/Linie IN)<br>Netzspannung:<br>2,5VDC(4mA),<br>Eingabeimpedanz: etwa<br>2K Ohm |

| Elemente       |                             | Beschreibung                                                                                                                            |            |            |
|----------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
|                |                             | XNV-8081R                                                                                                                               | XND-8081RV | XND-8081RF |
| Funktionsweise | Audio aus                   | Line-Ausgang Maximale Leistung: 1Vrms                                                                                                   |            |            |
|                | Wischer                     | Keine                                                                                                                                   |            |            |
|                | Koaxial-Protokoll           | Keine                                                                                                                                   |            |            |
|                | Video-Übertragungsstrecke   | Keine                                                                                                                                   |            |            |
| Radiometrie    | Temperaturerkennungsbereich | Keine                                                                                                                                   |            |            |
|                | Temperaturgenauigkeit       | Keine                                                                                                                                   |            |            |
|                | Temperaturerfassung         | Keine                                                                                                                                   |            |            |
|                | Zusätzlich                  | Keine                                                                                                                                   |            |            |
| Netzwerk       | Ethernet                    | RJ-45 (10/100BASE-T)                                                                                                                    |            |            |
|                | Video-Kompression           | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                  |            |            |
|                | Auflösung                   | 2560x1920, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |            |            |
|                | Max. Framerate              | H.265/H.264: Max. 30 fps/25 fps (60 Hz/50 Hz)<br>MJPEG: Max. 30 fps/25 fps (60 Hz/50 Hz)                                                |            |            |
|                | Smart Codec                 | Manuell (5 ea Bereich), WiseStream II                                                                                                   |            |            |
|                | Bitraten-Steuerung          | H.264/H.265 : CBR oder VBR<br>MJPEG : VBR                                                                                               |            |            |
|                | Streaming                   | Unicast (20 Benutzer)/Multicast<br>Mehrfach-Streaming (bis zu 10 Profile)                                                               |            |            |
|                | Audio-Kompression           | G.711 µ-law /G.726 Wählbar<br>G.726 (ADPCM) 8KHz, G.711 8KHz<br>G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps<br>AAC-LC: 48 Kbps bei 16 KHz    |            |            |

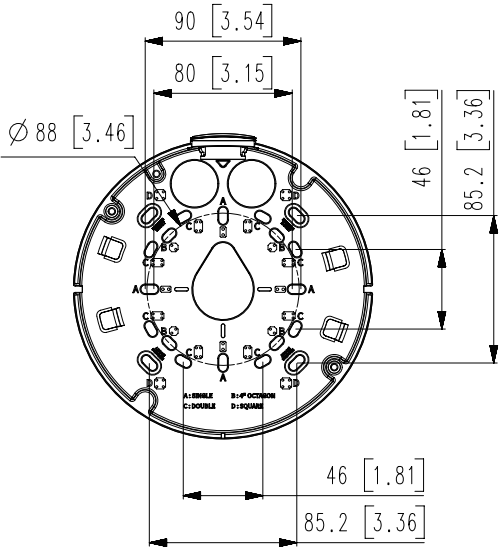
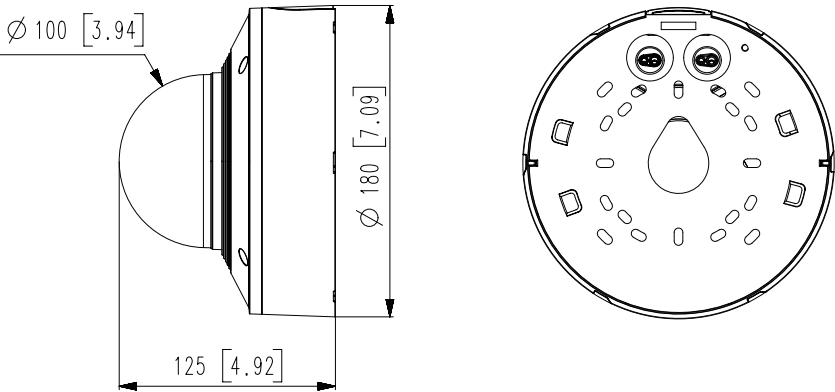
| Elemente            |                                    | Beschreibung                                                                                                                                                                                                                                            |                                                                       |                        |
|---------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------|
|                     |                                    | XNV-8081R                                                                                                                                                                                                                                               | XND-8081RV                                                            | XND-8081RF             |
| Netzwerk            | Protokoll                          | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP                                                              |                                                                       |                        |
|                     | Sicherheit                         | HTTPS (SSL) Authentifizierungsprotokoll<br>Anmelde-Übersicht Authentifizierung<br>IP-Adressfilter<br>Benutzerzugriff Protokoll<br>802.1X Authentifizierungsmethode (EAP-TLS, EAP-LEAP)                                                                  |                                                                       |                        |
|                     | Randspeicher                       | Micro SD/SDHC/SDXC 2 Slots 512 GB                                                                                                                                                                                                                       |                                                                       |                        |
|                     | Anwendungsprogrammierschnittstelle | ONVIF Profile S/G/T<br>SUNAPI(HTTP API)<br>Wisenet Open-Plattform                                                                                                                                                                                       |                                                                       |                        |
|                     | Web Viewer                         | Unterstützte Betriebssystem : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12<br>Empfohlener Browser: Google Chrome<br><br>Unterstützter Browser : MS Explorer11, MS Edge, Mozilla Firefox (Nur Windows 64bit), Apple Safari (wird nur bei Mac OS X) |                                                                       |                        |
|                     | Speicher                           | 1024 MB RAM, 256 MB Flash                                                                                                                                                                                                                               |                                                                       |                        |
| Betriebsbedingungen | Betriebstemperatur / Feuchtigkeit  | -50°C ~ +60°C (-58°F ~ +140°F) / Weniger als 90% rel.Luftfeuchtigkeit<br>* Eine Inbetriebnahme muss bei über -35°C erfolgen                                                                                                                             | -25°C ~ +60°C (-13°F ~ +140°F) / Weniger als 90% rel.Luftfeuchtigkeit |                        |
|                     | Lagerungstemperatur / Feuchtigkeit | -50°C ~ +60°C (-58°F ~ +140°F) / Weniger als 90% rel.Luftfeuchtigkeit                                                                                                                                                                                   |                                                                       |                        |
|                     | Zertifizierung                     | IP66/IP67, IK10+, NEMA4X, IP6K9K                                                                                                                                                                                                                        | IP52, IK10                                                            | IP52, IK10, Anfüllrate |

| Elemente   |                             | Beschreibung                                                                                                 |                                                                        |                                                 |
|------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------|
|            |                             | XNV-8081R                                                                                                    | XND-8081RV                                                             | XND-8081RF                                      |
| Elektrisch | Eingangsspannung            | PoE (IEEE802.3af, Klasse 3), 24 V AC (optional), 12 V DC                                                     | PoE(IEEE802.3af, Klasse 3), 12VDC                                      |                                                 |
|            | Energieverbrauch            | PoE: Max 12,95 W, typisch 10,90 W<br>12VDC: Max 11,7 W, typisch 8,90 W<br>24VAC: Max 14,9 W, typisch 11,30 W | PoE: Max 12,95 W, typisch 10,10 W<br>12VDC: Max 11,7 W, typisch 7,90 W |                                                 |
| Mechanisch | Farbe / Materiell           | Weiß/Aluminium                                                                                               |                                                                        |                                                 |
|            | RAL-Code                    | RAL9003                                                                                                      |                                                                        |                                                 |
|            | Produktabmessungen/-gewicht | Ø180 x 125 mm (7,09 x 4,92"), 1,75 kg (3,86 lb)                                                              | Ø160 x 125 mm (6,30 x 4,92"), 1,45 kg (3,20 lb)                        | Ø205 x 163 mm (8,07 x 6,42"), 1,80 kg (3,97 lb) |

PRODUKTANSICHT

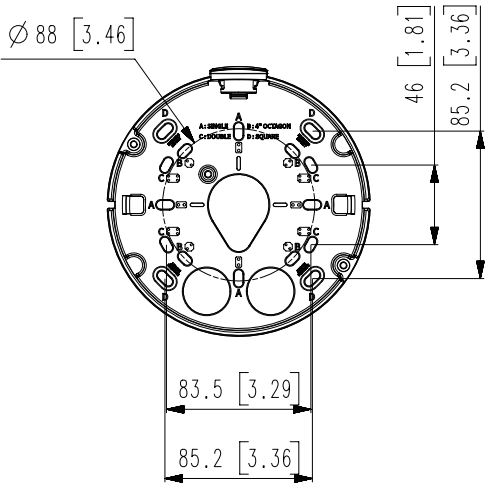
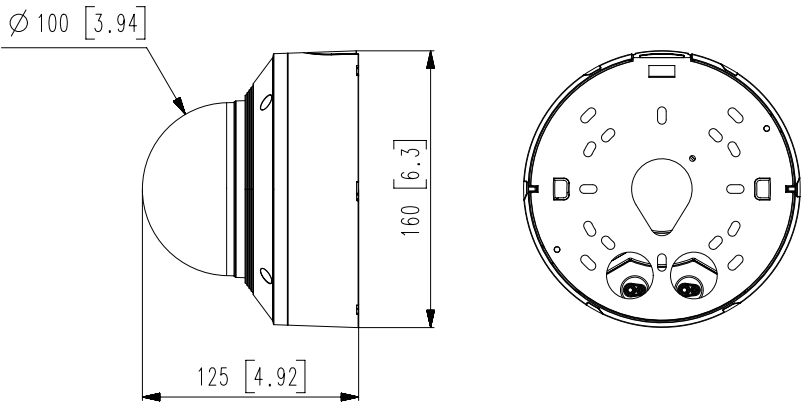
XNV-6081/XNV-6081R/XNV-8081R

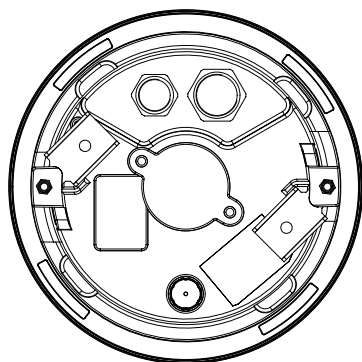
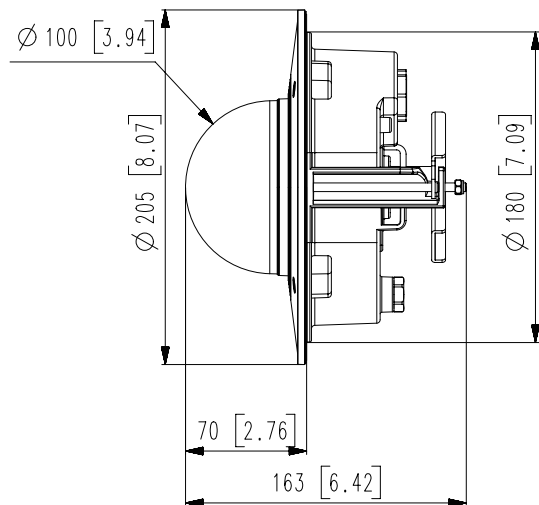
Einheit: mm [inch]



XND-6081V/XND-6081RV/XND-8081RV

Einheit: mm [inch]





## FEHLERSUCHE

| PROBLEM                                                                                                                                          | LÖSUNG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wenn ein Benutzer von Windows 10 über Chrome oder Firefox auf den Webviewer zugreift, ändert sich von Zeit zu Zeit die Lautstärke des Mikrofons. | <ul style="list-style-type: none"> <li>Dies geschieht, wenn der Mikrofontreiber auf Realtek-Treiber festgelegt wurde. Installieren Sie das High Definition Audio-Gerät (Standardtreiber von Windows) oder den Dritttreiber als Mikrofontreiber.</li> </ul>                                                                                                                                                                                                                                                                                                                   |
| Was sind die notwendigen Spezifikationen für eine WAVE-Datei, damit sie bei einem Ereignis abgespielt werden kann?                               | <ul style="list-style-type: none"> <li>Eine Samplingrate von 48.000 KHz oder weniger wird empfohlen.</li> <li>Für Bits pro Sample (bps) wird bis zu 8/16 Bit empfohlen.</li> <li>Nur das Codierformat PCM wird unterstützt.</li> </ul>                                                                                                                                                                                                                                                                                                                                       |
| Wenn Sie unter Safari per HTML auf den Plug-in-freien Webviewer zugreifen, wird kein Video angezeigt.                                            | <ul style="list-style-type: none"> <li>Bei dem ersten Zugriff auf HTTPS klicken Sie im Pop-up-Fenster zu Authentifizierung auf "Authentifizierungszertifikat anzeigen" und wählen Sie das Feld "Beim Verbinden zur IP des designierten Webviewers immer vertrauen" aus.</li> <li>Wenn im Webviewer weiterhin kein Video angezeigt wird, nachdem Sie im Nachrichtenfenster unten "Weiter" ausgewählt haben, klicken Sie auf die Befehlstaste + Q, um den Safari-Browser zu verlassen. Rufen Sie ihn dann erneut auf und folgen Sie den oben angegebenen Schritten.</li> </ul> |
| Ich kann von einem Webbrowser nicht auf die Kamera zugreifen.                                                                                    | <ul style="list-style-type: none"> <li>Überprüfen Sie, ob die Netzwerkeinstellungen der Kamera entsprechend sind.</li> <li>Kontrollieren Sie, ob alle Netzkabel korrekt angeschlossen wurden.</li> <li>Prüfen Sie bei einer Verbindung über DHCP, ob die Kamera dynamische IP-Adressen problemlos erhalten kann.</li> <li>Prüfen Sie, wenn die Kamera mit einem Breitband-Router verbunden ist, ob die Portweiterleitung korrekt konfiguriert ist.</li> </ul>                                                                                                                |
| Der Viewer wurde während der Überwachung getrennt.                                                                                               | <ul style="list-style-type: none"> <li>Verbundene Viewer werden nach etwaigen Änderungen an der Kamera oder den Netzwerkkonfigurationen getrennt.</li> <li>Prüfen Sie alle Netzwerkverbindungen.</li> <li>Wenn die Kamera über ein PPPoE-Netzwerk verbunden ist, kann der Viewer bei schlechten Netzwerkbedingungen getrennt werden.</li> </ul>                                                                                                                                                                                                                              |
| Die mit dem Netzwerk verbundene Kamera wird im Programm Device Manager nicht erkannt.                                                            | <ul style="list-style-type: none"> <li>Schalten Sie die Firewall-Einstellungen an Ihrem PC aus und suchen Sie dann die Kamera erneut.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Die Bilder überlappen.                                                                                                                           | <ul style="list-style-type: none"> <li>Prüfen Sie, ob zwei oder mehr Kameras auf einer einzigen Multicast-Adresse anstelle verschiedener Adressen festgelegt sind. Wenn eine einzige Adresse für mehrere Kameras verwendet wird, können die Bilder überlappen.</li> </ul>                                                                                                                                                                                                                                                                                                    |



| PROBLEM                                                                                                                                                                               | LÖSUNG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Es wird kein Bild eingeblendet.                                                                                                                                                       | <ul style="list-style-type: none"> <li>• Wenn die Übertragungsmethode auf Multicast festgelegt ist, müssen Sie überprüfen, ob ein Router vorhanden ist der Multicast im LAN, an das die Kamera verbunden ist, unterstützt.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Stimme wird nicht aufgezeichnet, obwohl die Audio-Eingabeeinstellungen konfiguriert wurden.                                                                                           | <ul style="list-style-type: none"> <li>• Sie müssen das &lt;Audio-Eingang&gt; - Kontrollkästchen im &lt;Basis&gt; - &lt;Video Profil&gt; aktivieren.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <Bewegungserkennung> des <Analyse> ist auf <Aktivieren> eingestellt, doch haben mich keine E-Mails mit Benachrichtigungen erreicht, selbst wenn ein Analyse-Ereignis eingetreten ist. | <ul style="list-style-type: none"> <li>• Überprüfen Sie die Einstellungen in der folgenden Reihenfolge:<br/>A. Prüfen Sie die Einstellungen unter &lt;Datum &amp; Uhrzeit&gt;.<br/>B. Die &lt;Bewegungserkennung&gt; muss auf &lt;Aktivieren&gt; gestellt sein.<br/>C. Prüfen Sie, ob die Option &lt;E-mail&gt; im &lt;Ereigniseinrichtung&gt; Menü markiert ist.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Am Port für den Signalausgang wird kein Signal erkannt, selbst wenn ein Ereignis der intelligenten Videoanalyse aufgetreten ist.                                                      | <ul style="list-style-type: none"> <li>• Prüfen Sie die Einstellungen des Ports für den Signalausgang.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Auf die Micro SD Speicherkarte kann nicht aufgenommen werden.                                                                                                                         | <ul style="list-style-type: none"> <li>• Auf die SD-Speicherkarte kann nicht aufgenommen werden.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Die Micro SD Speicherkarte ist eingelegt, aber die Kamera funktioniert nicht richtig.                                                                                                 | <ul style="list-style-type: none"> <li>• Überprüfen Sie, ob die Speicherkarte richtig herum eingelegt wurde. Für diese Kamera kann nicht garantiert werden, dass eine Speicherkarte, die mit einem anderen Gerät formatiert wurde, reibungslos funktioniert.</li> <li>• Formatieren Sie die Speicherkarte über das Menü &lt;Setup&gt; → &lt;Ereignis&gt; → &lt;Speicherkapazität&gt;.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Kann nicht in NAS aufnehmen.                                                                                                                                                          | <ul style="list-style-type: none"> <li>• Bestätigen Sie, dass die in NAS registrierten Informationen richtig sind.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Meldet, dass die NAS-Einstellung fehlergeschlagen ist.                                                                                                                                | <ul style="list-style-type: none"> <li>• Bestätigen Sie, dass die IP-Adresse des NAS gültig ist.</li> <li>• Bestätigen Sie, dass die ID/dass Passwort des NAS gültig ist.</li> <li>• Bestätigen Sie, dass Sie auf den als Basisordner bezeichneten Ordner mit der NAS-ID zugreifen können.</li> <li>• Bestätigen Sie, dass die NAS SMB/CIFS-Punkte nicht angekreuzt sind.</li> <li>• Bestätigen Sie, dass die NAS IP-Adresse und die Kamera-IP-Adresse dasselbe Format haben.<br/>Ex) Der Erstwert des NAS &amp; der Kamerasubnetzmaske ist 255.255.255.0.<br/>Ist die IP-Adresse 192.168.20.32, sollte sich die NAS IP-Adresse im Bereich von 192.168.20.1~192.168.20.255. befinden</li> <li>• Prüfen Sie, ob Sie als ein anderer Benutzer ohne Formatierung des gespeicherten oder benutzten Basisordners zugreifen wollten.</li> <li>• Bestätigen Sie, dass Sie empfohlene NAS-Ausrüstung benutzen.</li> </ul> |

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| Component Name     | License | URL                                                                                                 |
|--------------------|---------|-----------------------------------------------------------------------------------------------------|
| Base Kernel        | GPL 2.0 |                                                                                                     |
| Busybox            | GPL 2.0 | <a href="http://www.busybox.net/downloads/snapshots">http://www.busybox.net/downloads/snapshots</a> |
| iproute2-4.3.0     | GPL 2.0 |                                                                                                     |
| iptables-1.4.21    | GPL 2.0 | <a href="http://ftp.netfilter.org/pub/iptables">http://ftp.netfilter.org/pub/iptables</a>           |
| ethtool-4.2        | GPL 2.0 |                                                                                                     |
| mtdd-1.5.2         | GPL 2.0 | <a href="ftp://ftp.infradead.org/pub/mtdd-utils">ftp://ftp.infradead.org/pub/mtdd-utils</a>         |
| mi-diag-2.11       | GPL 2.0 |                                                                                                     |
| rp-pppoe-3.11      | GPL 2.0 | <a href="http://www.roaringpenguin.com/pppoe/">http://www.roaringpenguin.com/pppoe/</a>             |
| wpa_supplicant-2.5 | GPL 2.0 |                                                                                                     |
| bash-4.3.30        | GPL 3.0 |                                                                                                     |
| zerocoinf          | GPL 2.0 |                                                                                                     |

### LGPL SW

| Component Name | License  | URL                                                                   |
|----------------|----------|-----------------------------------------------------------------------|
| glibc          | LGPL 2.0 |                                                                       |
| inetutils      | LGPL 3.0 |                                                                       |
| neon-0.29.6    | LGPL 2.0 | <a href="http://www.webdav.org/neon/">http://www.webdav.org/neon/</a> |

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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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established by T-Engine Forum  
on January 23, 2004  
revised on June 17, 2004  
revised on December 21, 2006  
revised on March 24, 2009

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8. The System Developer shall not distribute the Modified Source Code in further modified form to any third party as a stand-alone software product.
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1. The Hardware-dependent Part and/or Compiler-dependent Part; provided that the Source Code User and the System Developer shall inform T-Engine Forum of, and T-Engine Forum may publish, a method for distributing said Part(s) to third parties.
2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.
2. Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.
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  1. The member shall confirm that the object hardware is the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.
  2. The member shall provide T-Engine Forum with a complete set of operational environment for the object hardware and T-Kernel free of charge when requesting the distribution.
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|----------------|---------|---------------------------------------------------------|
| bzip2- 1.0.6   | Bzip2   | <a href="http://www.bzip.org/">http://www.bzip.org/</a> |

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bzip2/libbzip2 version 1.0.5 of 10 December 2007

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| Component Name | License                                   |
|----------------|-------------------------------------------|
| iperf-2.0.5    | University of Illinois / NCSA Open Source |

Ipert performance test

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| zlib-1.2.8     | zlib / libpng | <a href="http://zlib.net/">http://zlib.net/</a> |

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).



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