Hanwha Vision

NETZWERKKAMERA

Benutzerhandbuch

PNV-A9081R/PND-A9081RV
PND-A9081RF/PNO-A9081R
PNB-A9001

CE

Netzwerkkamera
Benutzerhandbuch

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Handelsmarke

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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 Missmanagment 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, 1,48 A oder PoE, 0,38 A bemessen ist. (PND-A9081RV/RF)
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, 1,56 A oder PoE, 0,38 A bemessen ist. (PNV-A9081R)
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, 1,5 A oder PoE, 0,4 A bemessen ist. (PNO-A9081R)
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, 1,15 A oder PoE, 0,32 A bemessen ist. (PNB-A9001)
19. Dieses Produkt soll mit Isolationsstrom verwendet werden.
20. Wenn Sie bei der Installation des Gerätes zu viel Kraft verwenden, kann es zu Beschädigungen und Fehlfunktionen der Kamera kommen.
    Wenn Sie das Produ kt mit Gewalt und nicht konformen Werkzeugen installieren, kann das Produkt beschädigt werden.
21. Stellen Sie das Produkt nicht an Orten auf, an denen chemische Stoffe oder Ölnebel vorhanden sind oder entstehen können. Da Speiseöle 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.
22. 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.
23. 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.
24. Installation oder Verwendung des Produkts ins Wasser kann zu ernsthaften Schäden am Produkt führen.
25. Auch wenn eine schnelle Temperaturänderung Frost in der Kuppel erzeugen könnte, gibt es kein Problem mit dem Video
26. Dieses Gerät wurde mit einem STP-Kabel verifiziert. Die Verwendung einer geeigneten GND-Erdung und einem STP-Kabel wird empfohlen, um Ihr Produkt und Eigentum effektiv gegen Überspannung, Blitzschlag und Kommunikationsunterbrechung zu schützen..

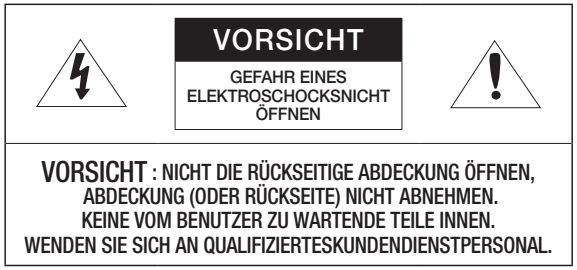
WARNUNG

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



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.

Wenn eine neue Produkt-Box geöffnet wird (oder bei der ersten Verwendung des Produkts), kann sich Feuchtigkeit am Glas der Kamera bilden. Die gebildete Feuchtigkeit verschwindet normalerweise innerhalb einiger Stunden nach dem Einschalten.

Das Gore-Ventil nicht willkürlich lösen oder anziehen.

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.

Wir garantieren nicht für die Qualität von Produkten von Drittanbietern (z.B. Objektive, Zubehör), die Sie separat kaufen.

In bestimmten Installationsumgebungen kann es zu Störungen der Funkkommunikation kommen.
Wenn eine Störung von elektromagnetischen Wellen zwischen dem Produkt und einem Funkkommunikationsgerät auftritt, wird empfohlen, einen gewissen Abstand zwischen den beiden einzuhalten oder die Richtung der Empfangsantenne zu ändern.

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EMPFOHLENE PC-SPEZIFIKATIONEN

- CPU : Intel(R) Core(TM) i7 3.4 GHz oder höher
- RAM : 8G oder höher
- Empfohlener Browser: Chrome
- Unterstützte Browser: Chrome, Safari, Firefox, MS Edge(chromium based)
- Unterstützte Betriebssystem : Windows, Mac, Linux, Android, iOS, Chrome
- Verifikationsumgebung
  - Windows 10: Google Chrome Version 80 oder höher, Firefox Version 72 oder höher, MS Edge Version 83 oder höher
  - Mac 10.13/14: Safari Version 11.0.1 oder höher

※ Die Video-Wiedergabeleistung des Web Viewer hängt von der Leistung der CPU und GPU des Benutzers ab.

EMPFOHLENE TECHNISCHE DATEN FÜR MICRO SD/SDHC/SDXC SPEICHERKARTEN

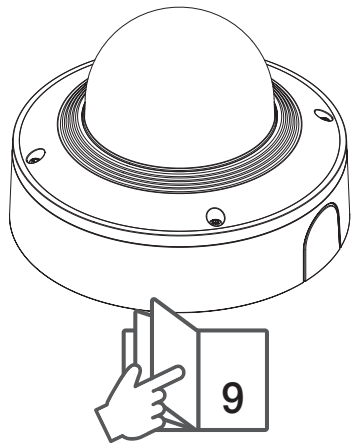
- Empfohlene Kapazität : 16GB bis 256GB (MLC-Typ erforderlich)
- Empfohlene Hersteller: SanDisk, Transcend
- Produkttyp: Hochleistung
- Die Kompatibilität variiert je nach Kartenhersteller und -typ.

EMPFOHLENE NAS-SPEZIFIKATIONEN

- Empfohlene Kapazität : 200GB oder mehr wird empfohlen.
- Bei dieser Kamera raten wir zu NAS mit den folgenden Spezifikationen.
  Empfohlene Produkte : QNAP NAS, Synology NAS

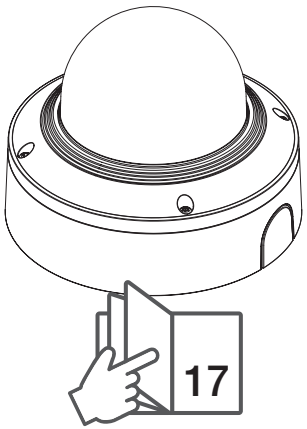
Vandalensichere Außenkuppel-Kamera

PNV-A9081R



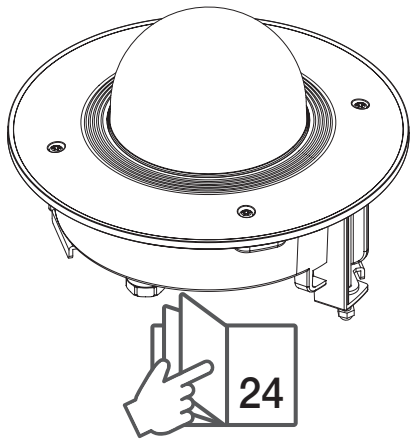
Innenkuppel-Kamera

PND-A9081RV



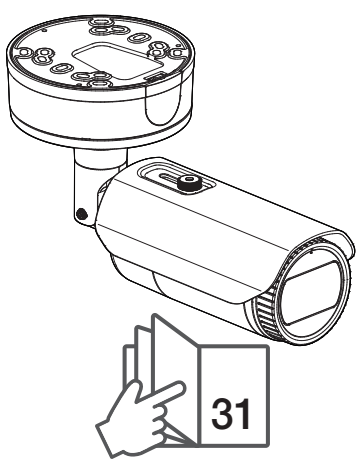
Bündige Kuppel-Kamera

PND-A9081RF



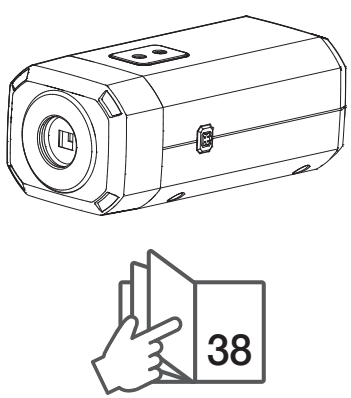
Außenbereich-Bullet-Kamera

PNO-A9081R



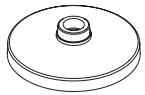
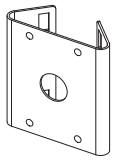
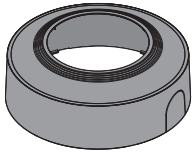
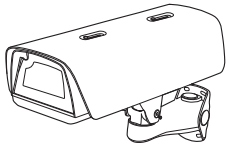
Boxkamera

PNB-A9001



OPTIONALES ZUBEHÖR FÜR DIE INSTALLATION

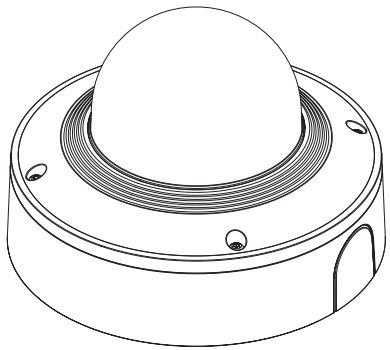
Sie können optional verfügbares Zubehör kaufen.

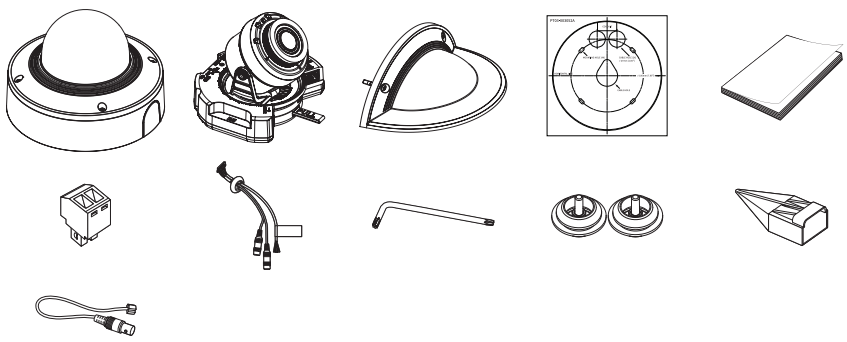
Modellname	Hängebefestigung	Stangenbefestigung	Abdeckhaut	Gehäuse	Alle
PNV-A9081R	SBP-187HMW		SBC-180B (Schwarz)		SBP-300LMW (Brüstungsbefestigung) SBP-300CMW (Deckenbefestigung) SBP-300WMW (Wandbefestigung) SBP-300WMW1 (Wandbefestigung) SBP-300NBW (Installationsgehäuse) SBP-300NBW (Wandhalterung-Unterteil) SBP-300PMW (Stangenbefestigung) SBP-300KMW (Eckenbefestigung)
PND-A9081RV	SBP-167HMW		SBC-160B (Schwarz)		
PNO-A9081R		SBP-302PM			
PNB-A9001				SHB-4300HP	

LIEFERUMFANG

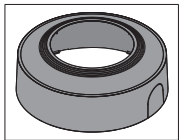
Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.



<PNV-A9081R>

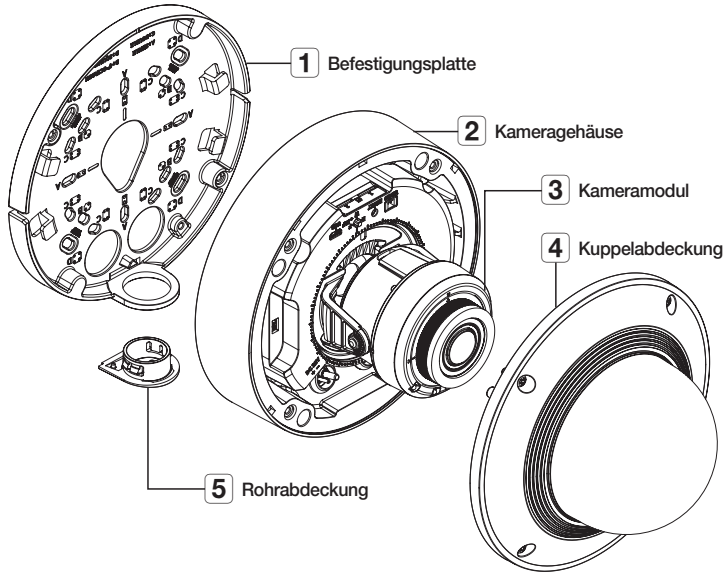


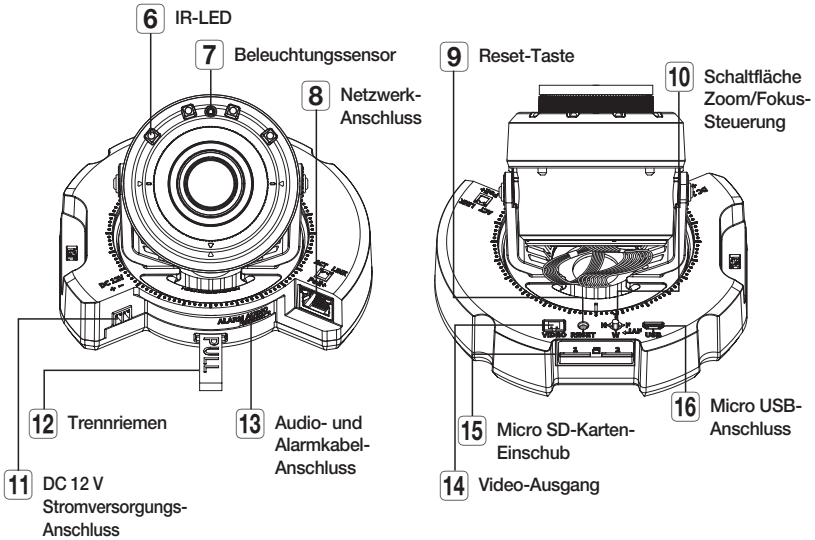
Option (nicht eingeschlossen)



SBC-180B
(Farbe: Schwarz)

AUF EINEN BLICK





INSTALLATION

- Diese Kamera ist wasserdicht und entspricht den IP67 / IP6K9K-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.

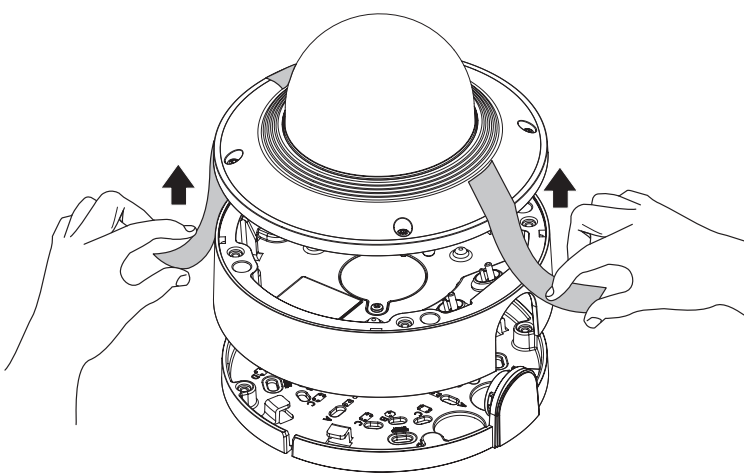
Bevor Sie mit der Installation beginnen

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

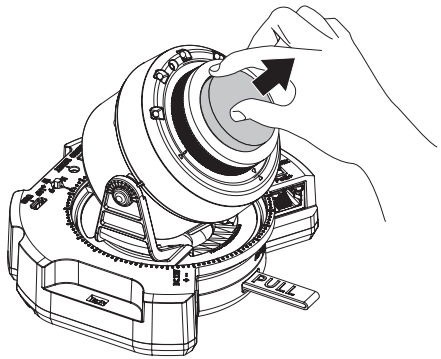
- Wählen Sie einen Aufstellungsort, der mindestens 5-mal das Gewicht der Kamera tragen kann.
- Verklemmte Kabel oder ein abgelöster Kabelschutz können zu Schäden an dem Produkt und Brandgefahr führen.
- Halten Sie aus Sicherheitsgründen andere Personen von dem Ort der Kamerainstallation fern. Achten 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.

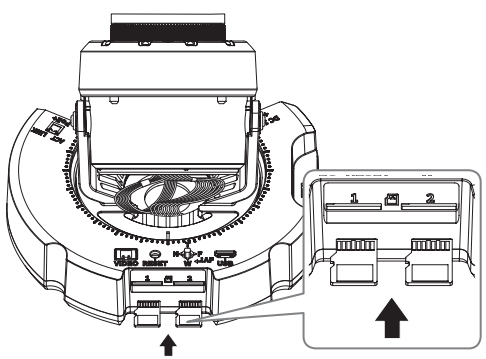


2. Das Kissen, dass das Kameraobjektiv schützt, abnehmen.



Einlegen einer Micro SD-Speicherkarte

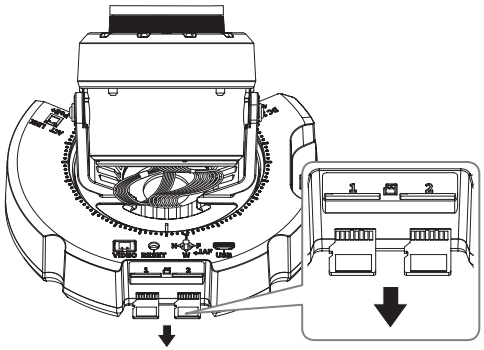
Die Micro SD-Karte in den Micro SD-Karten-Einschub am Kameramodul in Pfeilrichtung einsetzen.



- 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.

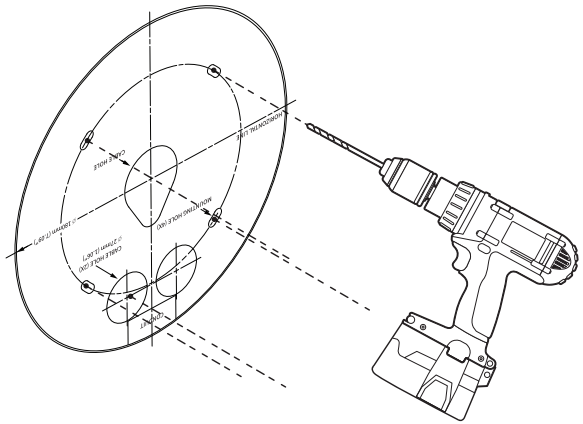


- Bevor Sie die Micro SD-Speicherkarte im <**Speicherkapazität**> entfernen, müssen Sie das Gerät auf <**Aus**> stellen und die [**Anwenden**]-Taste drücken und die Kamera deaktivieren.
- Wenn Sie die Kamera ausschalten oder die Micro SD-Speicherkarte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

Montage (Befestigungsplatte)

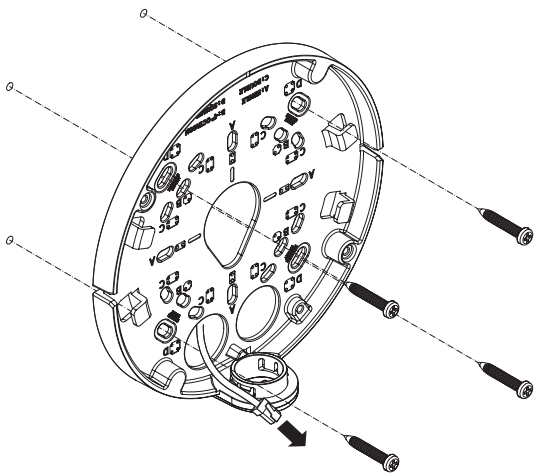
[Direkte Montage an der Wand/Decke]

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



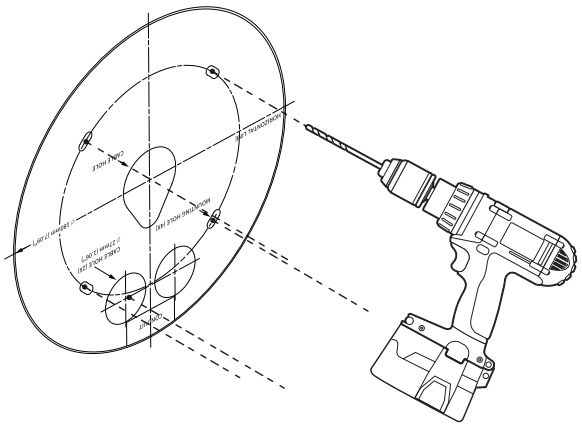
1-2. Die Befestigungsplatte mit den entsprechenden Schrauben befestigen.

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

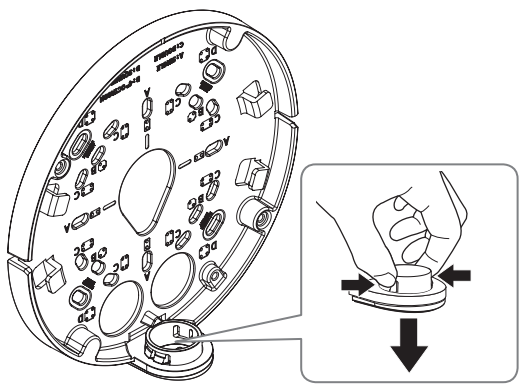


[Montage mit Rohr]

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



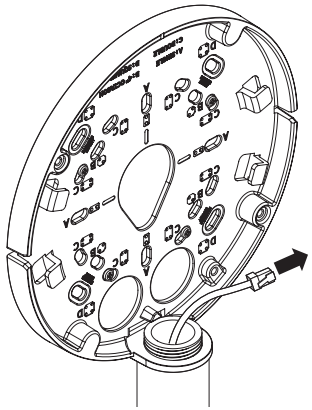
2-2. Die Rohrabdeckung von der Befestigungsplatte trennen, indem deren Seiten gedrückt werden.



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 Alarmkabel durch das Rohr heraus ziehen.



Montage (Kameragehäuse)

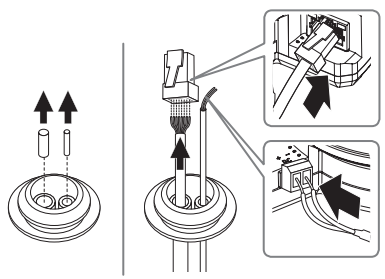
- Zum Anschluss eine Kabeleinführung verwenden, die für das LAN-Kabel geeignet ist.
  - Hauptkamera: ein Kabel mit einem Durchmesser von Ø5 bis 6,5 verwenden
  - Bauteile: ein Kabel mit einem Durchmesser von Ø5 bis 8,5 verwenden

[Montage der LAN-/Stromversorgunsgkabel]

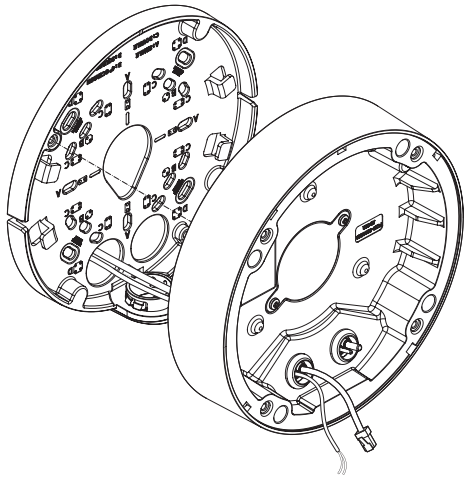
1-1. Die Spritzteile der zu verwendenden Einführung abziehen.

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 Stromversorgunsgkabel durch die kleine Bohrung der Einführung führen und am mitgelieferten Klemmenblock anschließen.



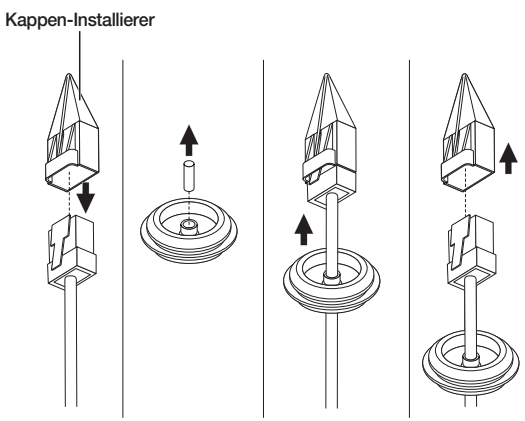
1-4. Die Einführung am Kameragehäuse anbringen.



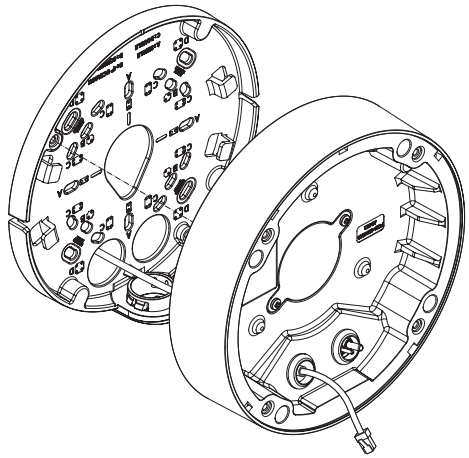
[Montage des LAN-Kabels] (IP66)

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

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

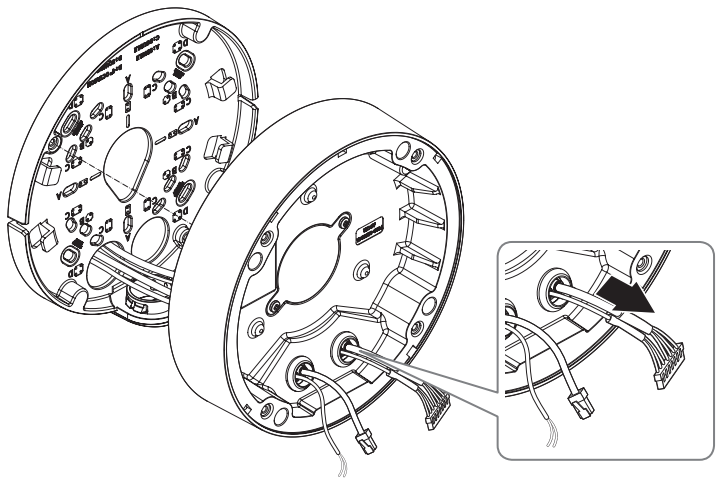


2-3. Die Einführung am Kameragehäuse anbringen.

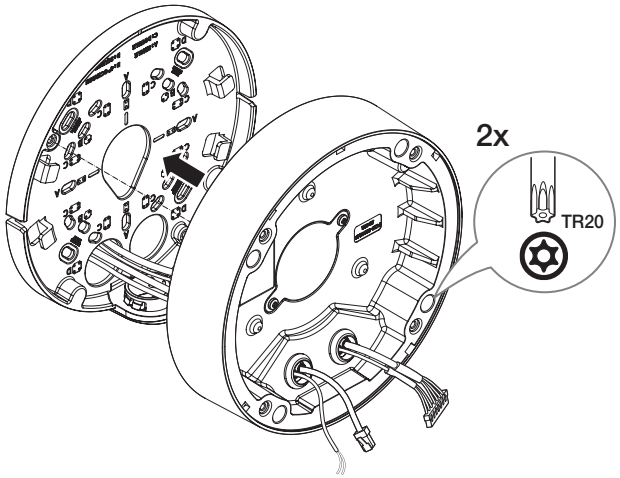


[Montage von Audio- und Alarmkabeln]

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



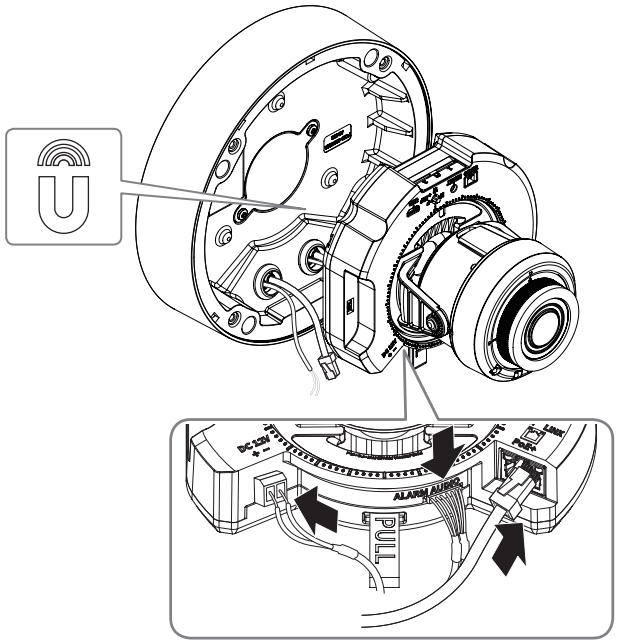
4. Die Befestigungsplatte am Kameragehäuse anbringen.



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.



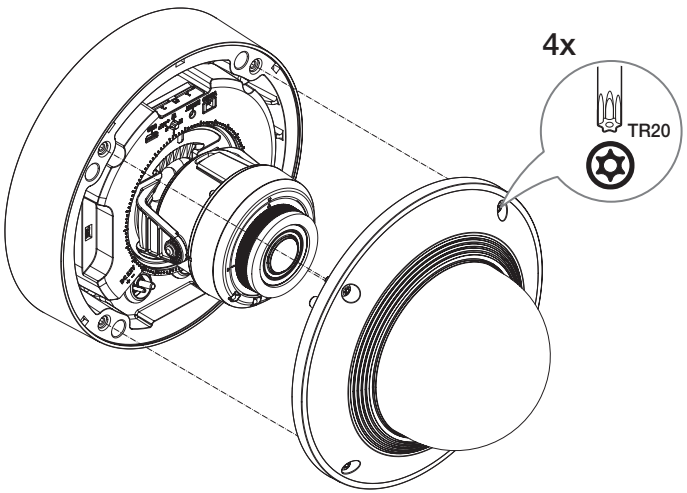
3. Das Objektiv in die gewünschte Richtung einstellen und dabei den Abschnitt „**Überwachungsrichtung der Kamera einstellen**“ beachten. (Seite 42)

Montage der Kuppelabdeckung

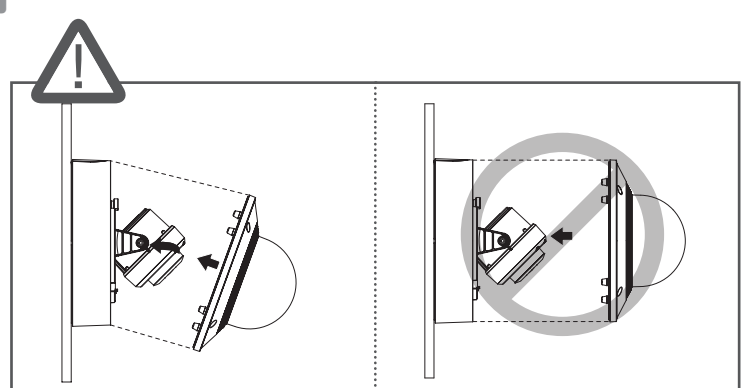
[Direkte Montage an der Wand/Decke]

1. Die Kuppelabdeckung montieren.

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

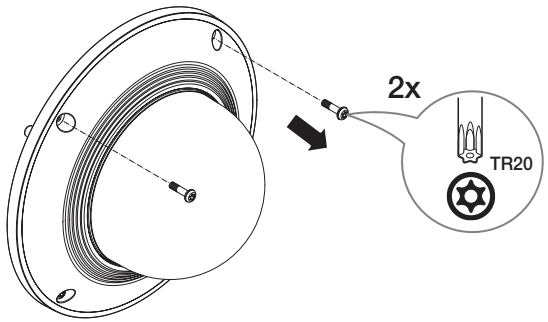


- Darauf achten, nicht die Überwachungsrichtung der Kamera zu ändern.



[Verwendung der Wetterabdeckung]

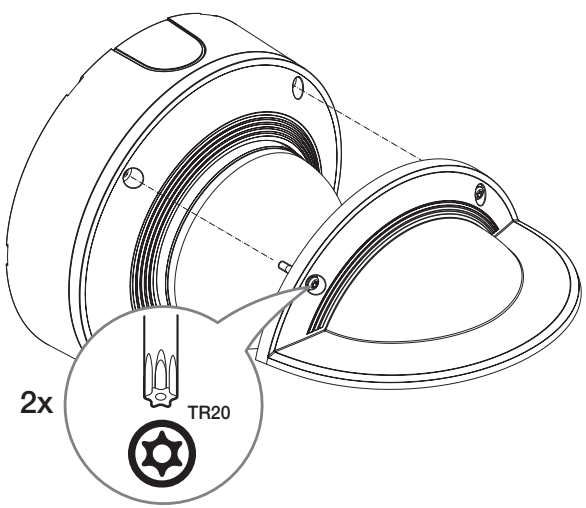
1. Die Schrauben von der Kuppelabdeckung entfernen.



2. Die Kuppelabdeckung montieren.

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

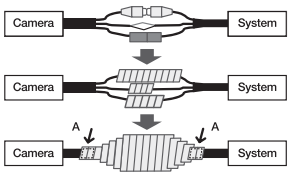
- Sicherstellen, dass die Befestigungsschrauben fest angezogen sind, so dass kein Problem mit Wasser auftritt.



Einbau im Außenbereich

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

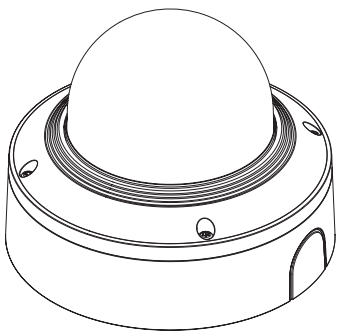
1. Stromversorgung, E/A, und LAN-Kabel anschließen.
2. Die schwarze Kabelummantelung (Bereich A) und den Kabelanschlussbereich mit dem wasserundurchlässigen (Butylisolier-) Band so umwicklen, dass mehr als die Hälfte des Butylisolierbandes überlappt wird.



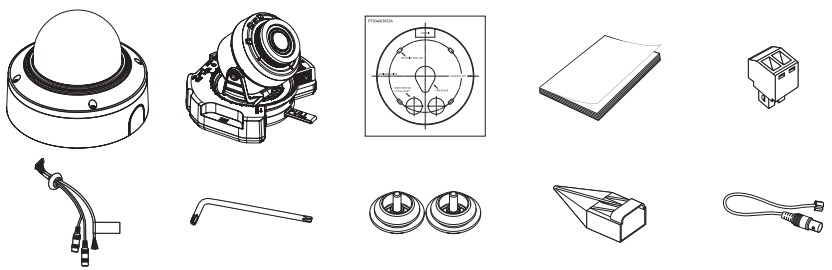
- Sollte die Kabelummantelung nicht richtig wasserundurchlässig sein, kann das zu einer unmittelbaren Undichtigkeit führen. Stellen Sie sicher, dass das Kabel dicht mit einem Klebeband geschützt ist.
- Das wasserdichte Butylklebeband besteht aus Butylkautschuk und kann auf das Doppelte seiner normalen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

LIEFERUMFANG

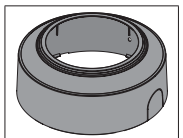
Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.



<PND-A9081RV>

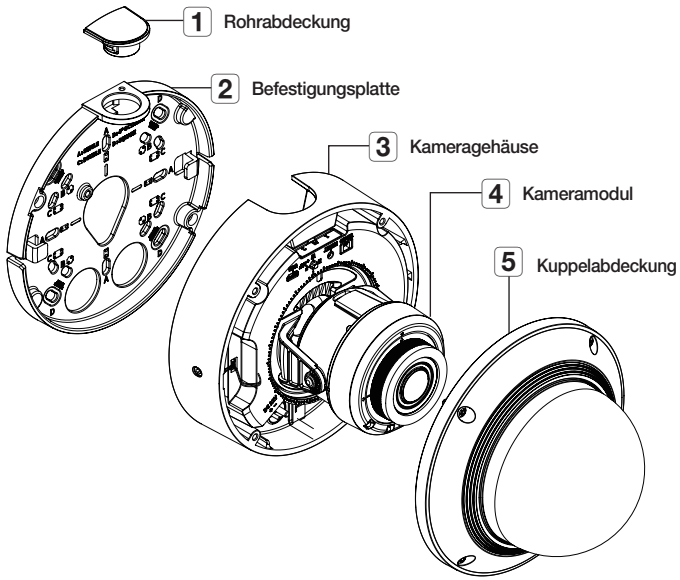


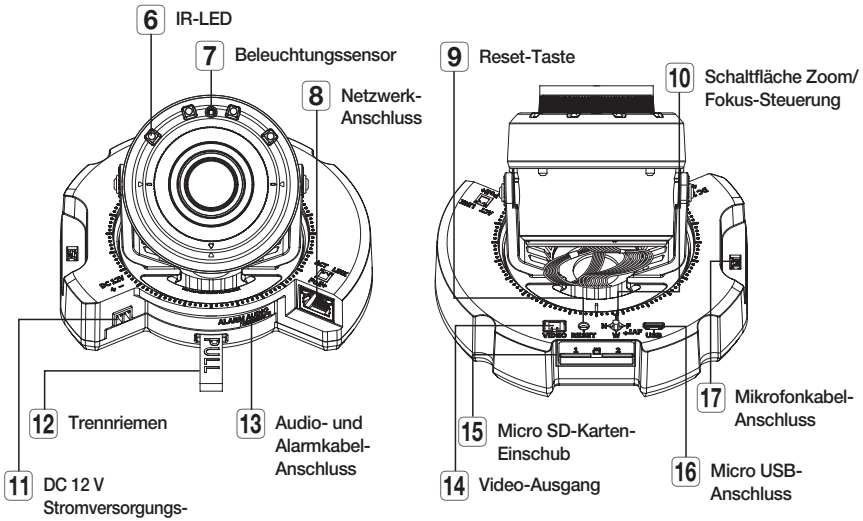
Option (nicht eingeschlossen)



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.

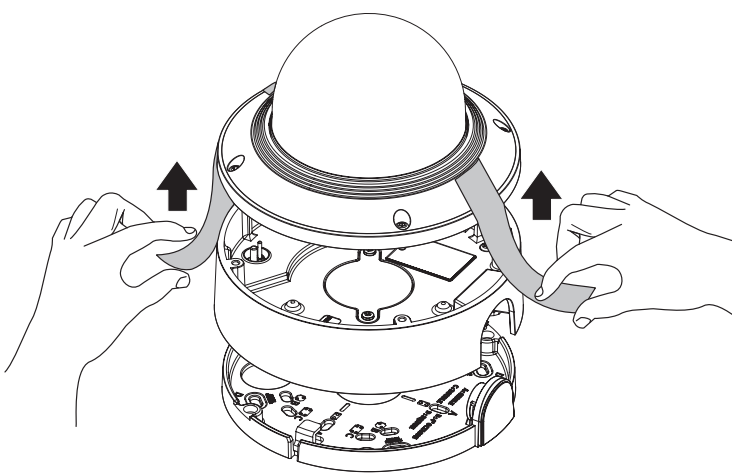
Bevor Sie mit der Installation beginnen

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

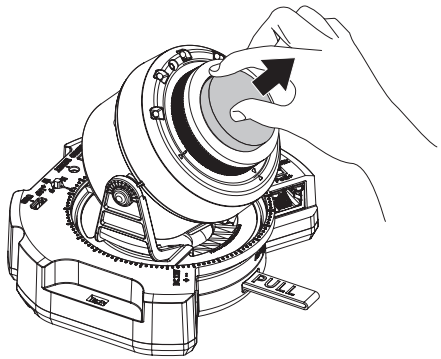
- Wählen Sie einen Aufstellungsort, der mindestens 5-mal das Gewicht der Kamera tragen kann.
- Verklemmte Kabel oder ein abgelöster Kabelschutz können zu Schäden an dem Produkt und Brandgefahr führen.
- Halten Sie aus Sicherheitsgründen andere Personen von dem Ort der Kamerainstallation fern. Achten 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.

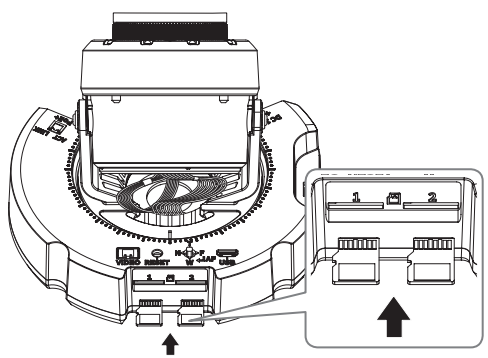


2. Das Kissen, dass das Kameraobjektiv schützt, abnehmen.



Einlegen einer Micro SD-Speicherkarte

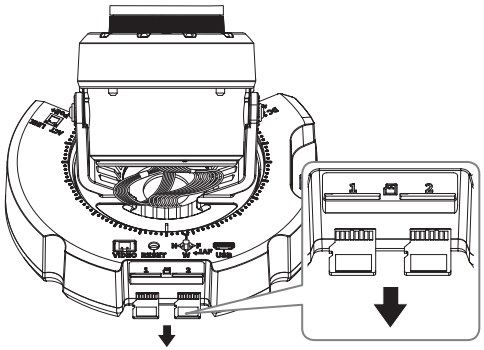
Die Micro SD-Karte in den Micro SD-Karten-Einschub am Kameramodul in Pfeilrichtung einsetzen.



- 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.

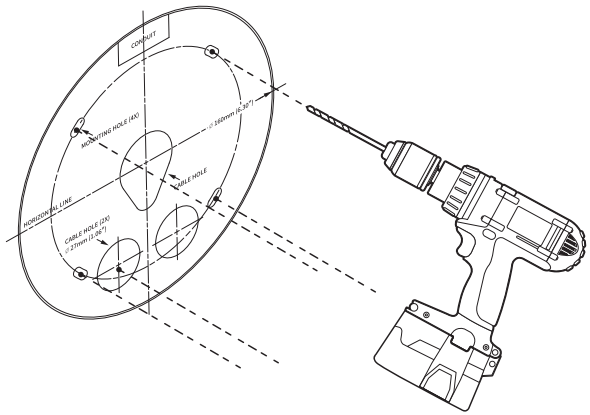


- Bevor Sie die Micro SD-Speicherkarte im <**Speicherkapazität**> entfernen, müssen Sie das Gerät auf <**Aus**> stellen und die [**Anwenden**]-Taste drücken und die Kamera deaktivieren.
- Wenn Sie die Kamera ausschalten oder die Micro SD-Speicherkarte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

Montage (Befestigungsplatte)

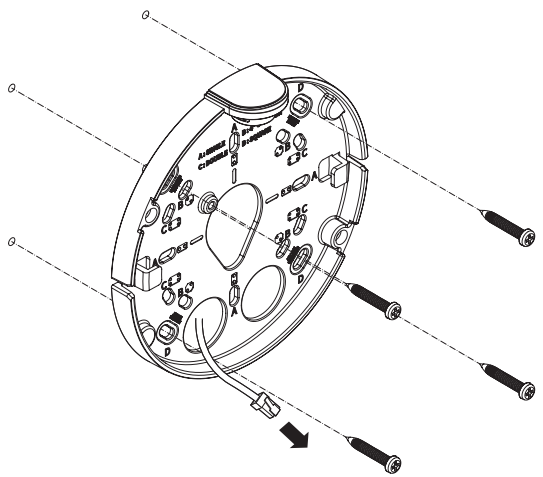
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1-1. Die Montageschablone an der gewünschten Fläche anbringen und die Bohrungen für Schrauben und Kabel bohren.



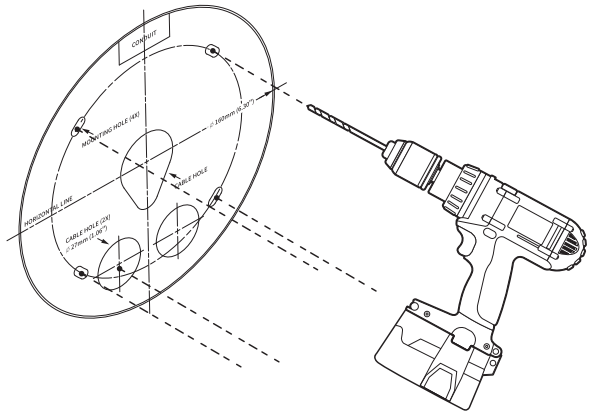
1-2. Die Befestigungsplatte mit den entsprechenden Schrauben befestigen.

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

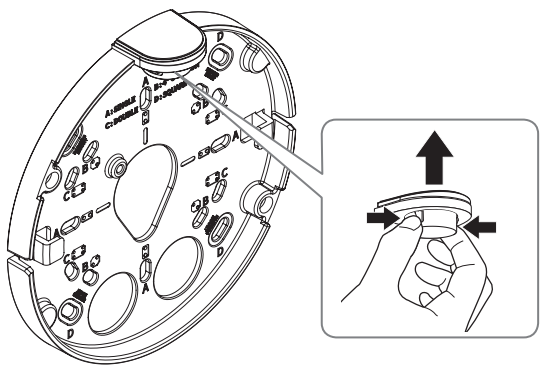


[Montage mit Rohr]

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



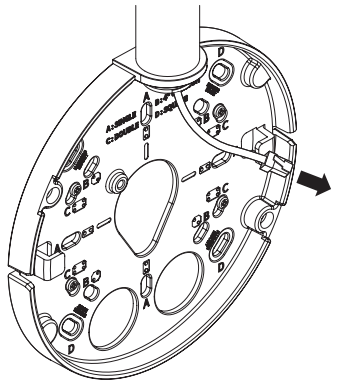
2-2. Die Rohrabdeckung von der Befestigungsplatte trennen, indem deren Seiten gedrückt werden.



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 Alarmkabel durch das Rohr heraus ziehen.



Montage (Kameragehäuse)

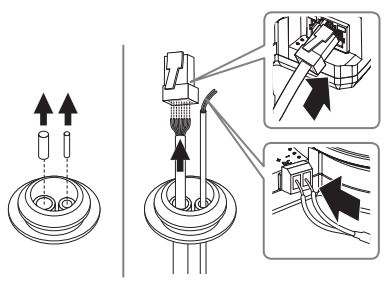
- Zum Anschluss eine Kabeleinführung verwenden, die für das LAN-Kabel geeignet ist.
  - Hauptkamera: ein Kabel mit einem Durchmesser von Ø5 bis 6,5 verwenden
  - Bauteile: ein Kabel mit einem Durchmesser von Ø5 bis 8,5 verwenden

[Montage der LAN-/Stromversorgungsgkabel]

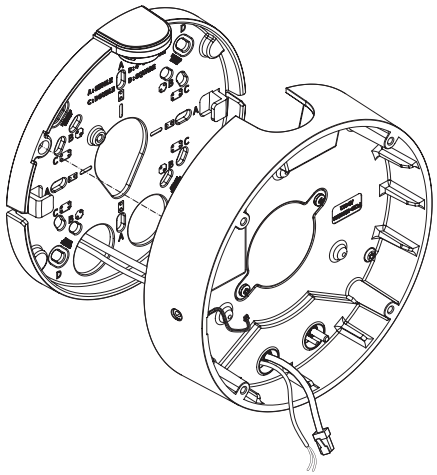
1-1. Die Spritzteile der zu verwendenden Einführung abziehen.

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 Stromversorgungsgkabel durch die kleine Bohrung der Einführung führen und am mitgelieferten Klemmenblock anschließen.



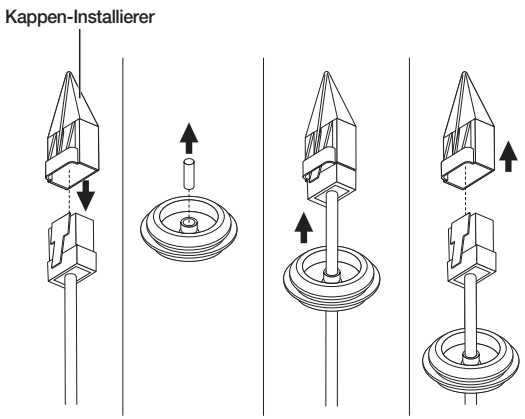
1-4. Die Einführung am Kameragehäuse anbringen.



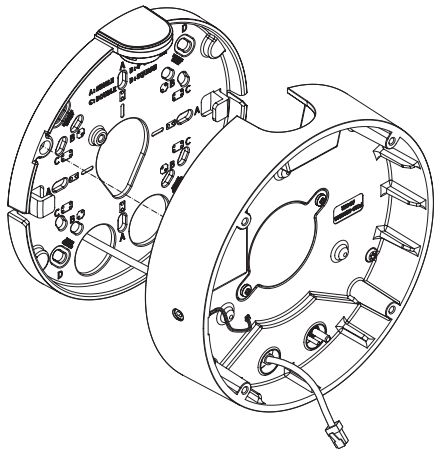
[Montage des LAN-Kabels]

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

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

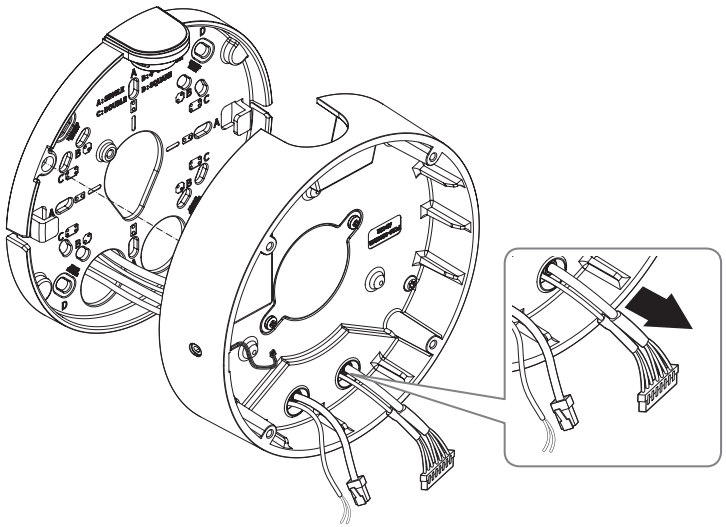


2-3. Die Einführung am Kameragehäuse anbringen.

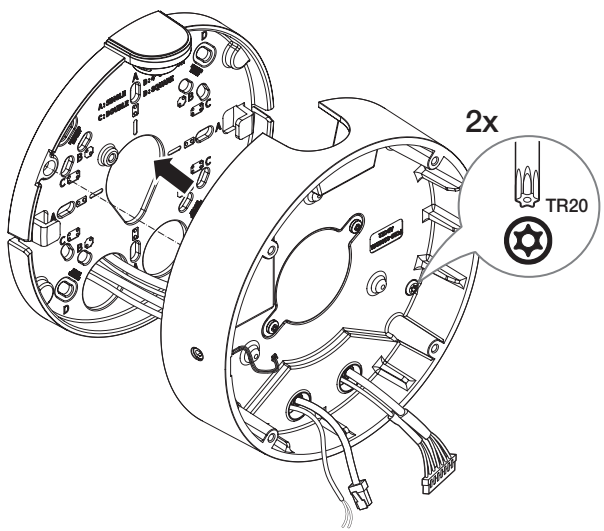


[Montage von Audio- und Alarmkabeln]

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



4. Die Befestigungsplatte am Kameragehäuse anbringen.



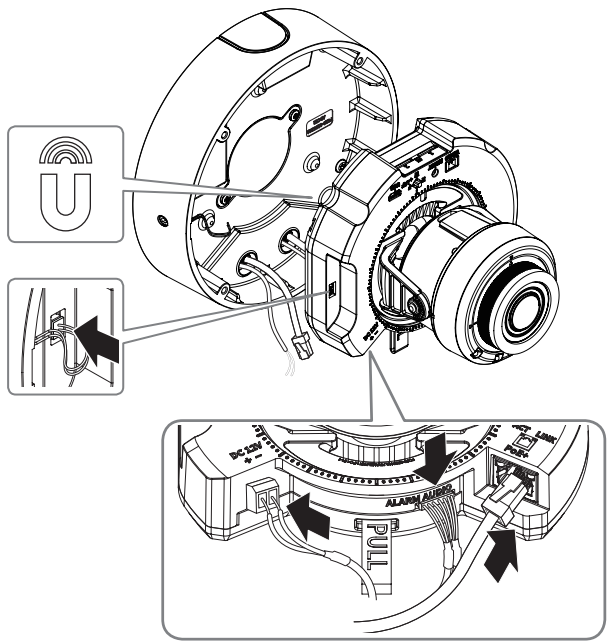
Montage des Kameramoduls

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.



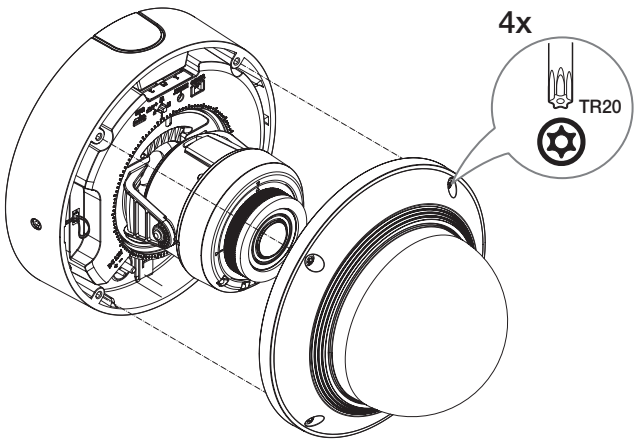
4. Das Objektiv in die gewünschte Richtung einstellen und dabei den Abschnitt „**Überwachungsrichtung der Kamera einstellen**“ beachten. (Seite 42)

Montage der Kuppelabdeckung

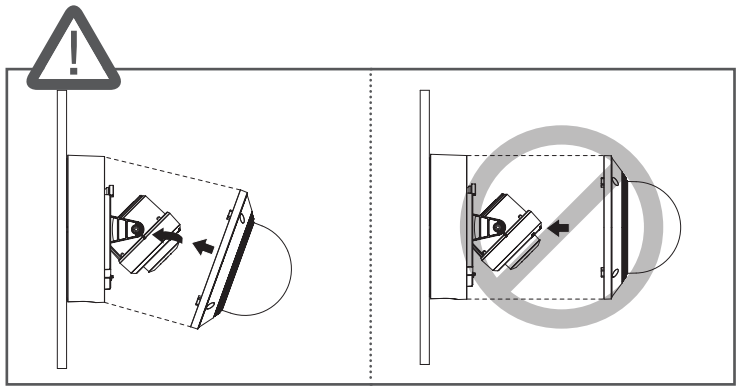
[Direkte Montage an der Wand/Decke]

1. Die Kuppelabdeckung montieren.

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

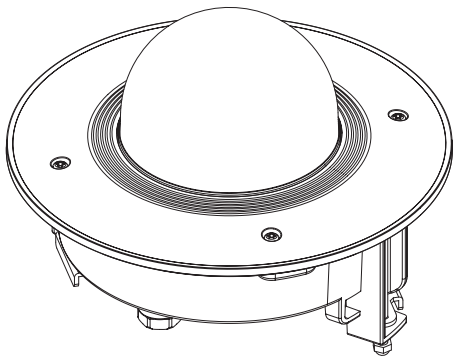


- Darauf achten, nicht die Überwachungsrichtung der Kamera zu ändern.

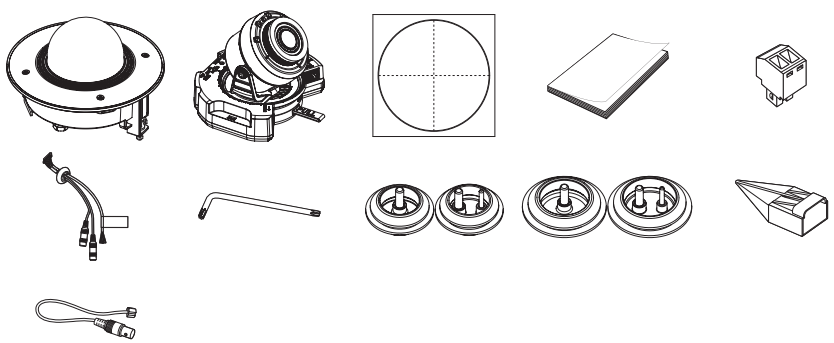


LIEFERUMFANG

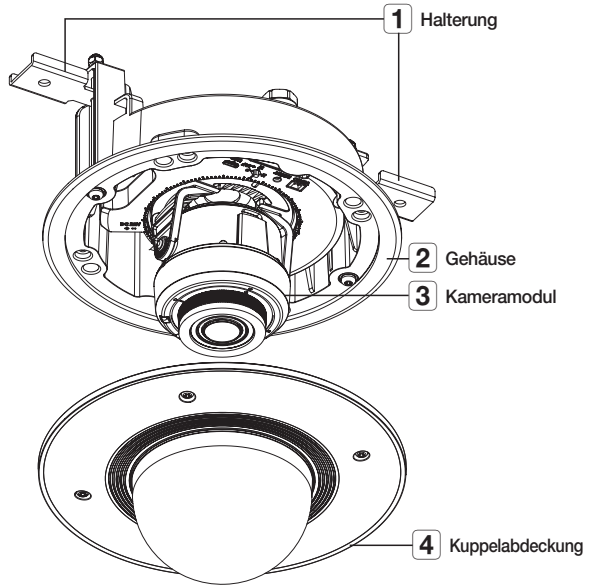
Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.

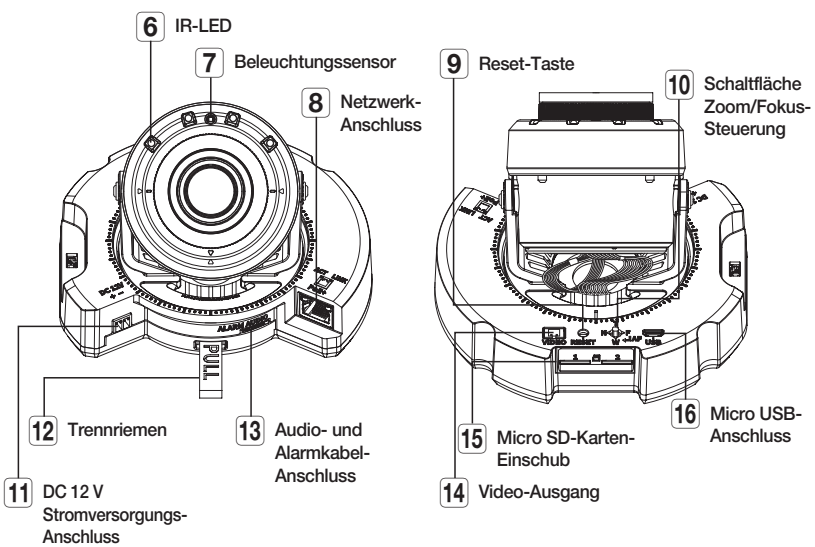


<PND-A9081RF>



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.

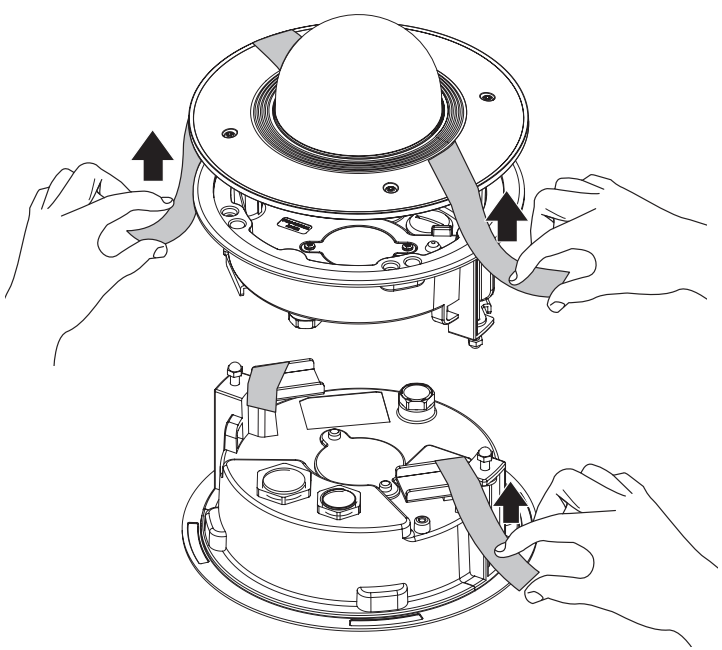
Bevor Sie mit der Installation beginnen

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

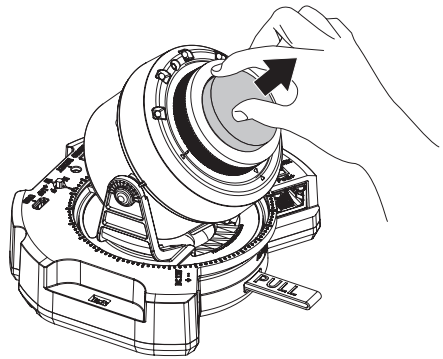
- Wählen Sie einen Aufstellungsort, der mindestens 5-mal das Gewicht der Kamera tragen kann.
- Verklemmte Kabel oder ein abgelöster Kabelschutz können zu Schäden an dem Produkt und Brandgefahr führen.
- Halten Sie aus Sicherheitsgründen andere Personen von dem Ort der Kamerainstallation fern. Achten 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.

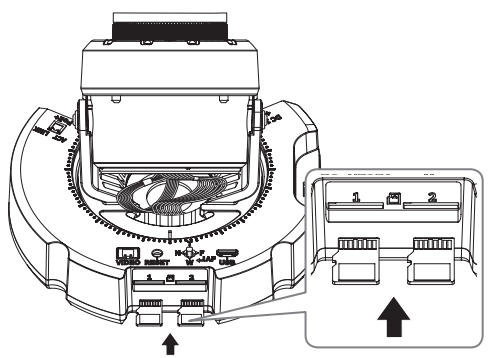


2. Das Kissen, dass das Kameraobjektiv schutzt, abnehmen.



Einlegen einer Micro SD-Speicherkarte

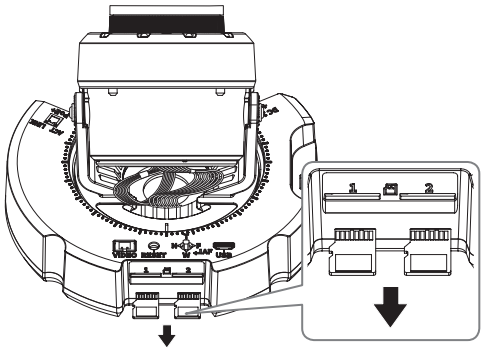
Die Micro SD-Karte in den Micro SD-Karten-Einschub am Kameramodul in Pfeilrichtung einsetzen.



- 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

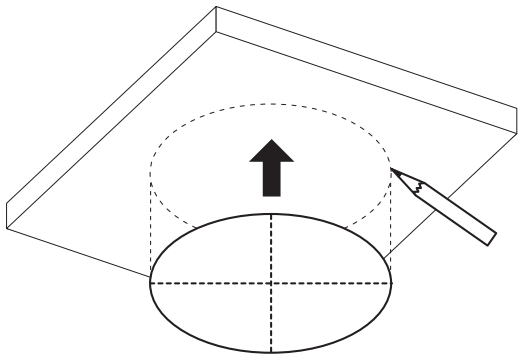
Drücken Sie leicht am ungeschützten Ende der Speicherkarte, wie im Schaubild zu sehen, um die Speicherkarte aus dem Steckplatz auszuwerfen.

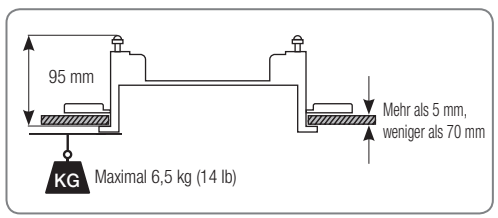


- Bevor Sie die Micro SD-Speicherkarte im <**Speicherkapazität**> entfernen, müssen Sie das Gerät auf <**Aus**> stellen und die [**Anwenden**]-Taste drücken und die Kamera deaktivieren.
- Wenn Sie die Kamera ausschalten oder die Micro SD-Speicherkarte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

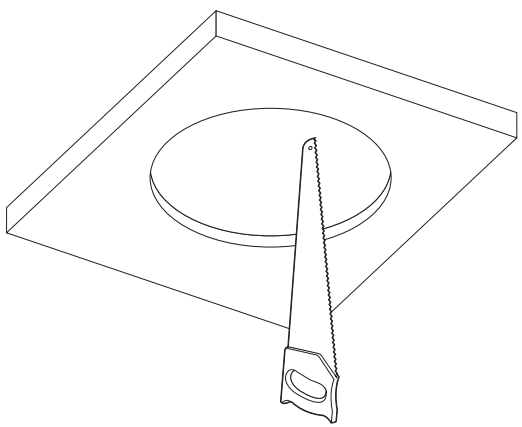
Montage (Gehäuse)

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





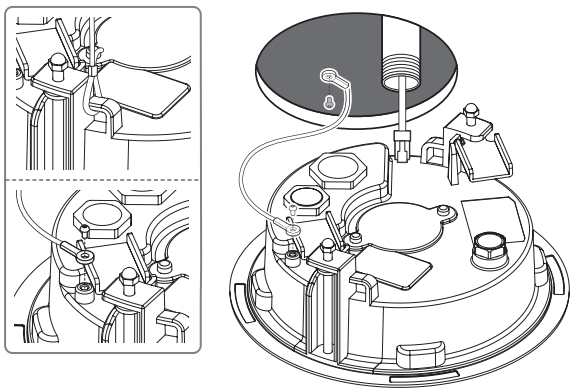
2. Die Montageschablone anbringen und die Bohrungen bohren.



3. Das Sicherheitskabel anbringen.

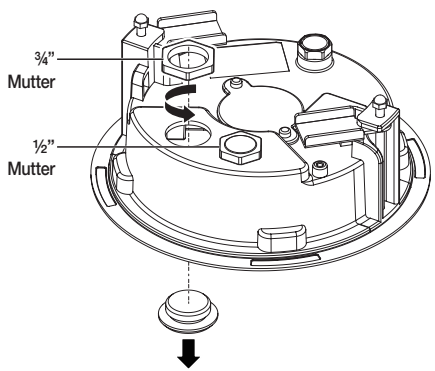
- Ein Sicherheitskabel wird nicht mitgeliefert.

z.b.

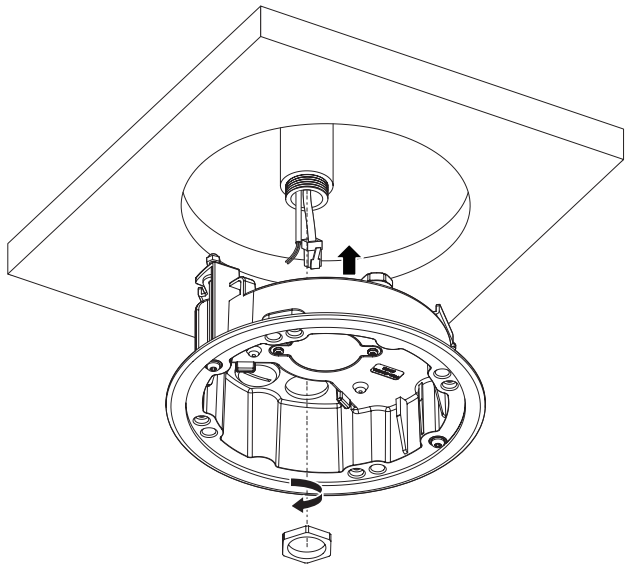


[Verwendung eines Rohrs]

4-1. Das Rohr in eine Montagebohrung einsetzen.



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



Montage (Kameragehäuse)

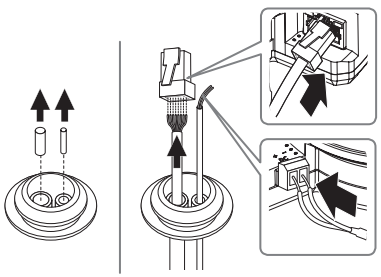
- Zum Anschluss eine Kabeleinführung verwenden, die für das LAN-Kabel geeignet ist.
  - Bauteile: ein Kabel mit einem Durchmesser von Ø5 bis 8,5 verwenden

[Montage der LAN-/Stromversorgunsgkabel]

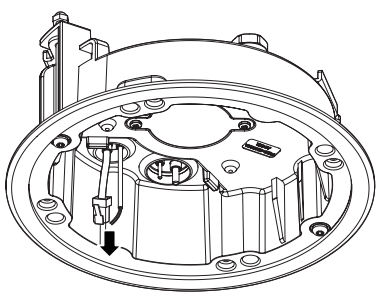
1-1. Die Spritzteile der zu verwendenden Einführung abziehen.

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 Stromversorgunsgkabel durch die kleine Bohrung der Einführung führen und am mitgelieferten Klemmenblock anschließen.



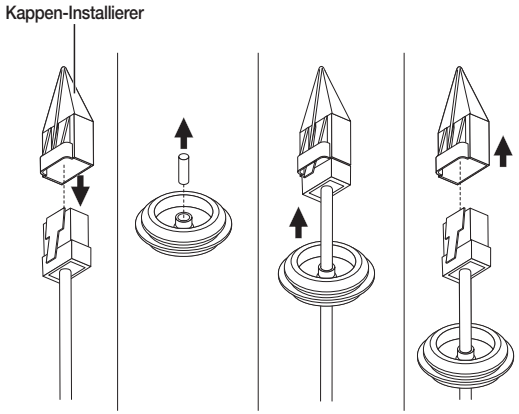
1-4. Die Einführung am Gehäuse anbringen.



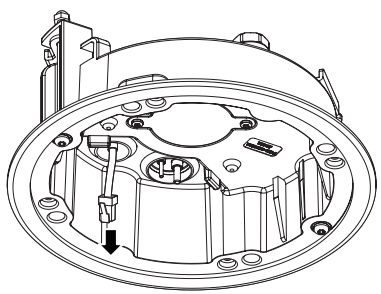
[Montage des LAN-Kabels]

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

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

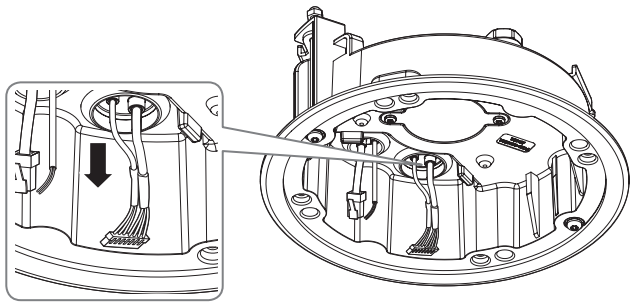


2-3. Die Einführung am Gehäuse anbringen.



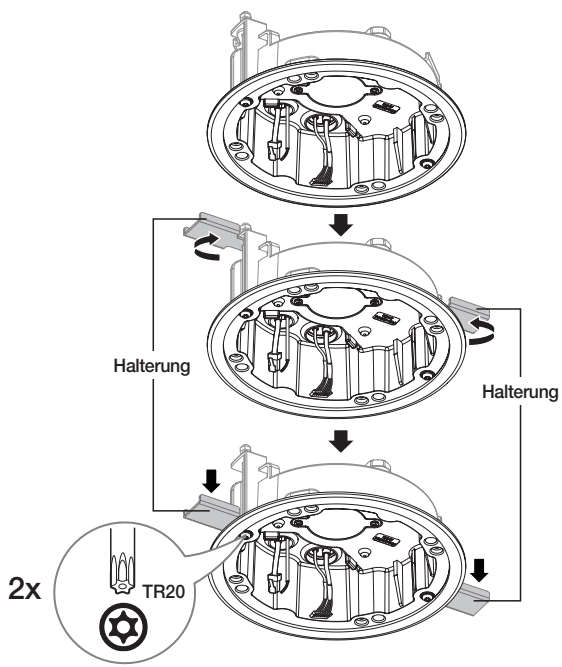
[Montage von Audio- und Alarmkabeln]

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.

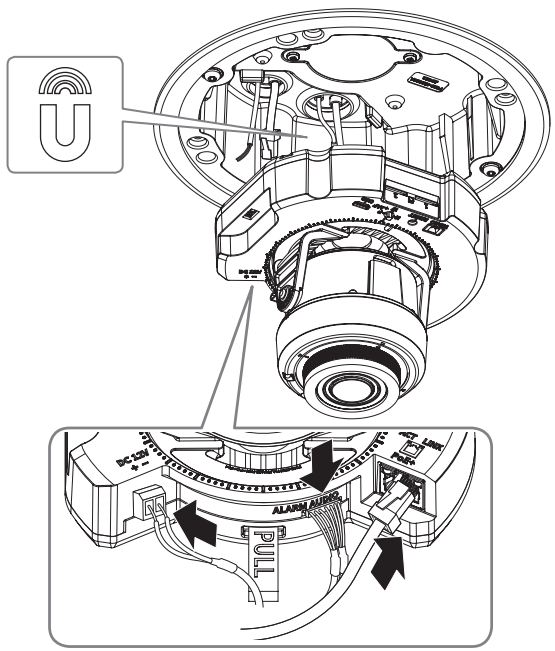


Montage des Kameramoduls

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.

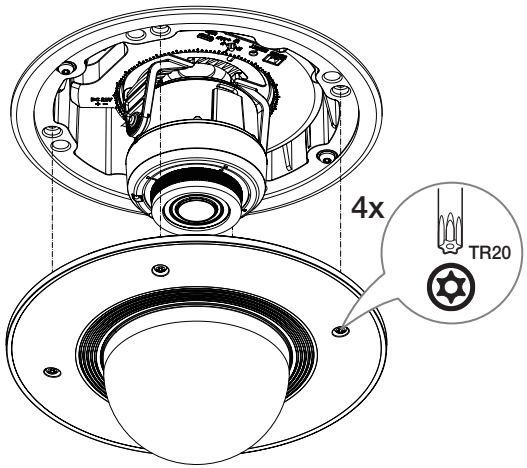


3. Das Objektiv in die gewünschte Richtung einstellen und dabei den Abschnitt „**Überwachungsrichtung der Kamera einstellen**“ beachten. (Seite 29)

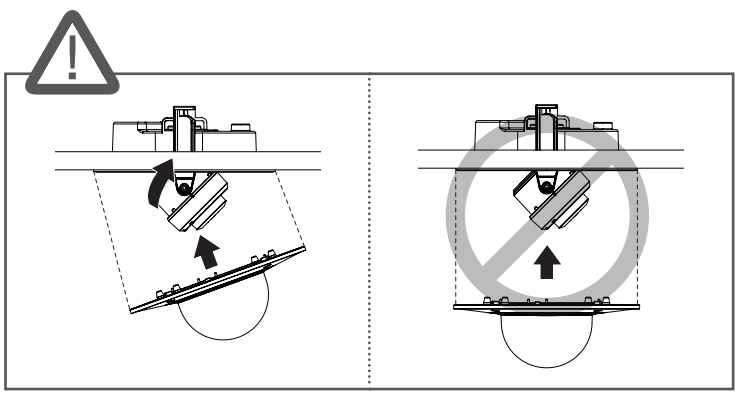
Montage der Kuppelabdeckung

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.

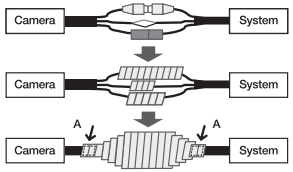


Wasserfeste Kabel

Wenn es möglich ist, dass Feuchtigkeit in den Spalt am Kabel eindringen kann, den betroffenen Bereich mit wasserfestem Butylkautschukband (kann in Geschäften gekauft werden) wie unten wasserfest abdichten.

1. Stromversorgung, E/A, und LAN-Kabel anschließen.

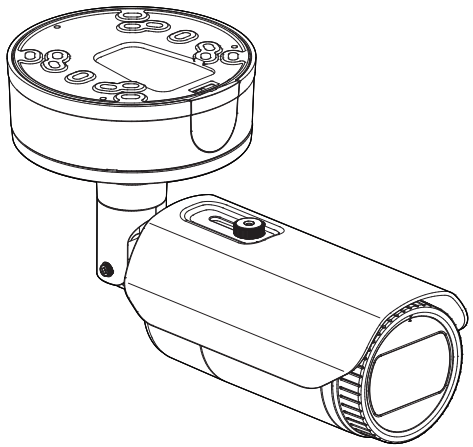
2. Die schwarze Kabelummantelung (Bereich A) und den Kabelanschlussbereich mit dem wasserundurchlässigen (Butylisolier-) Band so umwicklen, dass mehr als die Hälfte des Butylisolierbandes überlappt wird.



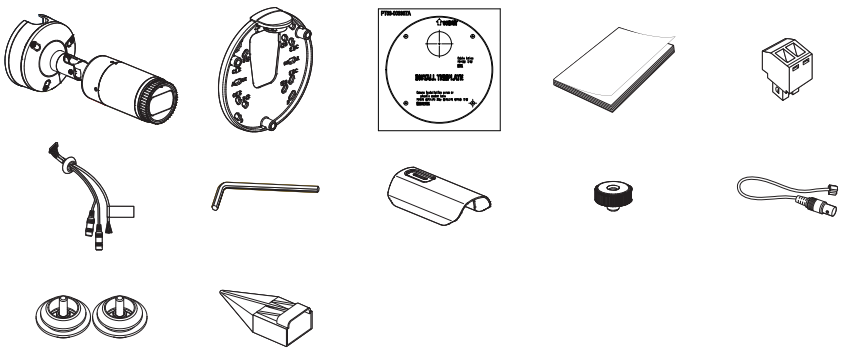
- Sollte die Kabelummantelung nicht richtig wasserundurchlässig sein, kann das zu einer unmittelbaren Undichtigkeit führen. Stellen Sie sicher, dass das Kabel dicht mit einem Klebeband geschützt ist.
- Das wasserdichte Butylklebeband besteht aus Butylkautschuk und kann auf das Doppelte seiner normalen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

LIEFERUMFANG

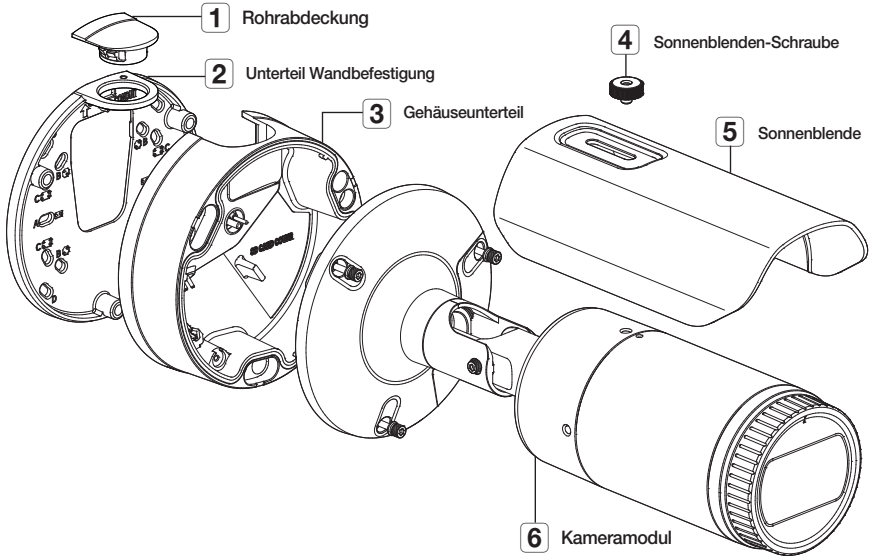
Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.

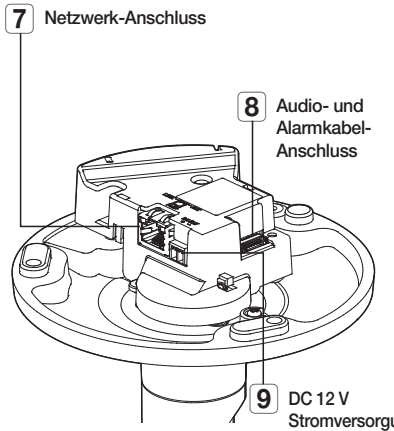


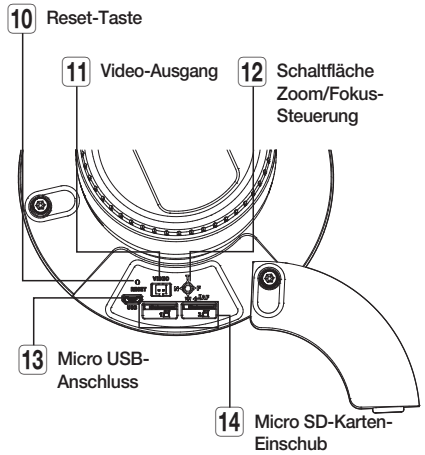
<PNO-A9081R>



AUF EINEN BLICK







- Eine schmutzige Objektivoberfläche leicht mit einem Objektivtuch oder Tuch abwischen, auf das Ethanol aufgetragen wurde.

INSTALLATION

- Diese Kamera ist wasserdicht und entspricht den IP67-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.

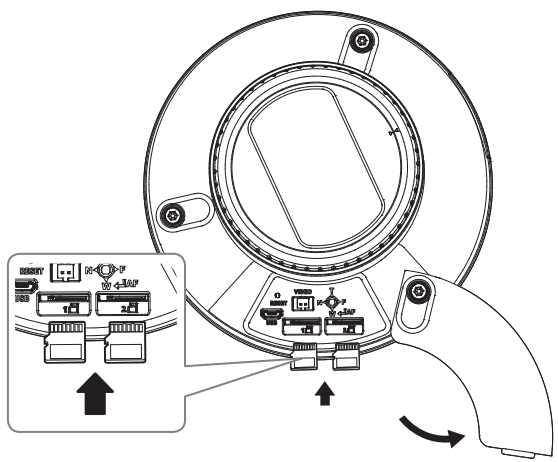
Bevor Sie mit der Installation beginnen

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
- Sonnenschutzloch nicht für andere Zwecke als zum Anschließen der Sonnenblende verwenden.

Einlegen einer Micro SD-Speicherkarte

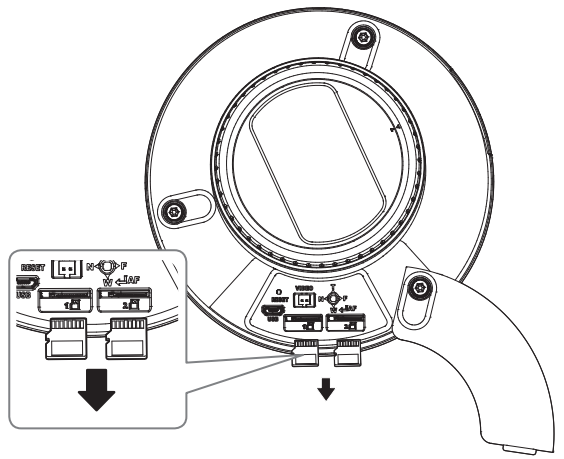
Die Micro SD-Karte in den Micro SD-Karten-Einschub am Kameramodul in Pfeilrichtung einsetzen.



- 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.

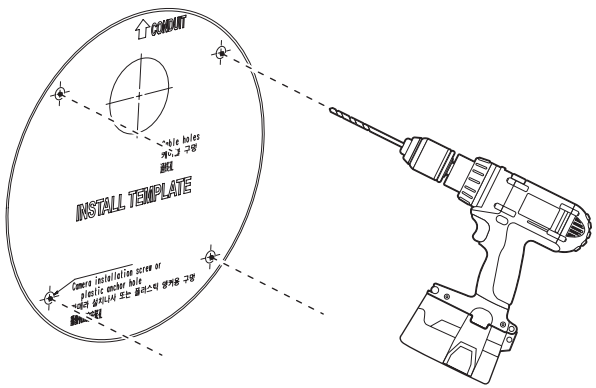


- Bevor Sie die Micro SD-Speicherkarte im <**Speicherkapazität**> entfernen, müssen Sie das Gerät auf <**Aus**> stellen und die [**Anwenden**]-Taste drücken und die Kamera deaktivieren.
- Wenn Sie die Kamera ausschalten oder die Micro SD-Speicherkarte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

Montage (Unterteil Wandbefestigung)

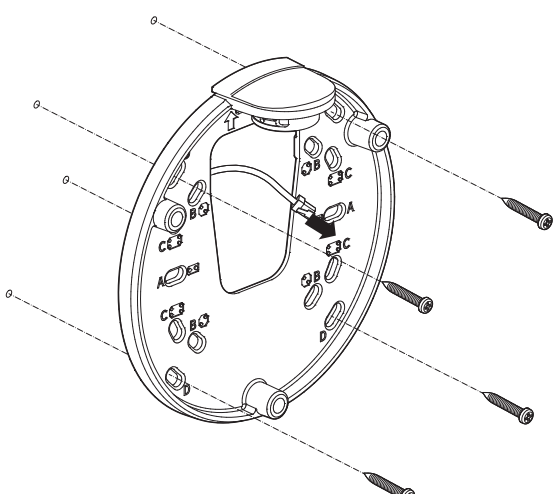
[Direkte Montage an der Wand/Decke]

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



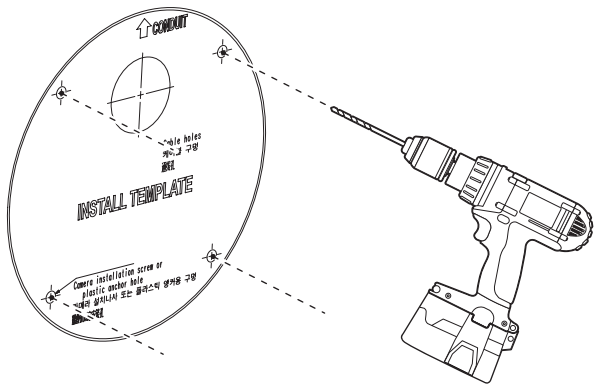
1-2. Das Unterteil der Wandbefestigung mit den entsprechenden Schrauben befestigen.

1-3. Erforderliche Kabel unter den LAN-/Stromversorgungs-/Audio- und Alarmkabel durch die Bohrung im Unterteil der Wandbefestigung heraus ziehen.

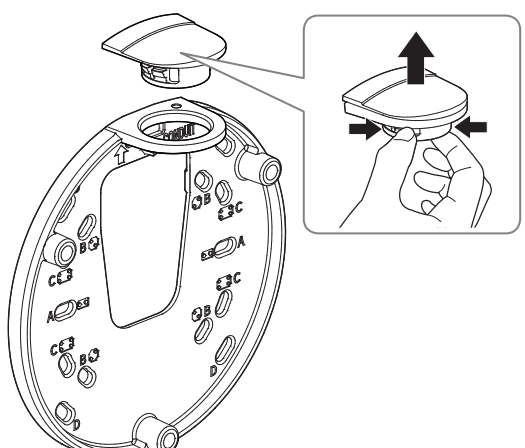


[Montage mit Rohr]

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



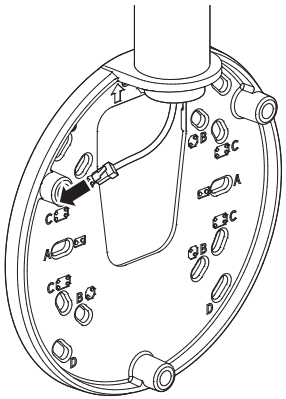
2-2. Die Rohrabdeckung vom Unterteil der Wandbefestigung trennen, indem deren Seiten gedrückt werden.



2-3. Das Rohr auf dem Unterteil der Wandbefestigung positionieren.

2-4. Das Unterteil der Wandbefestigung mit den entsprechenden Schrauben befestigen.

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



Montage (Gehäuseunterteil)

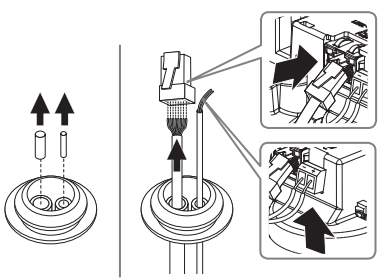
- Zum Anschluss eine Kabeleinführung verwenden, die für das LAN-Kabel geeignet ist.
  - Hauptkamera: ein Kabel mit einem Durchmesser von Ø5 bis 6,5 verwenden
  - Bauteile: ein Kabel mit einem Durchmesser von Ø5 bis 8,5 verwenden

[Montage der LAN-/Stromversorgunsgkabel]

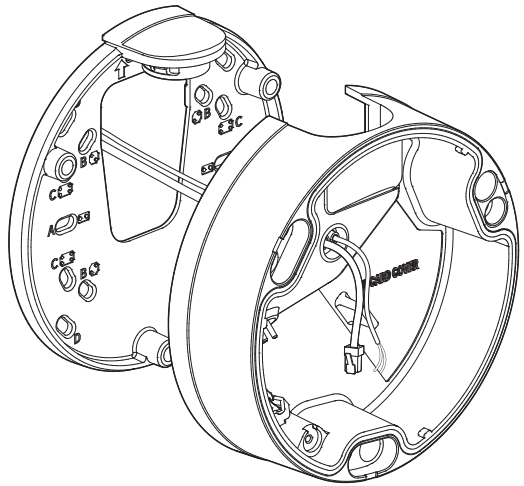
1-1. Die Spritzteile der zu verwendenden Einführung abziehen.

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 Stromversorgunsgkabel durch die kleine Bohrung der Einführung führen und am mitgelieferten Klemmenblock anschließen.



1-4. Die Einführung am Gehäuseunterteil anbringen.

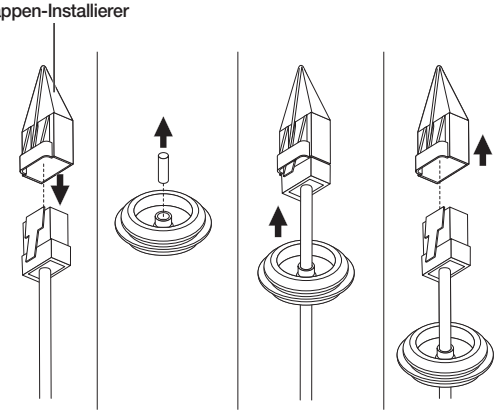


[Montage des LAN-Kabels]

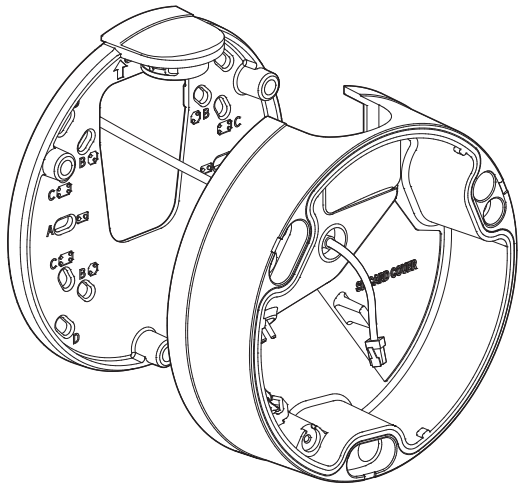
2-1. Das Spritzteil der mitgelieferten einfachen Einführung abziehen.

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

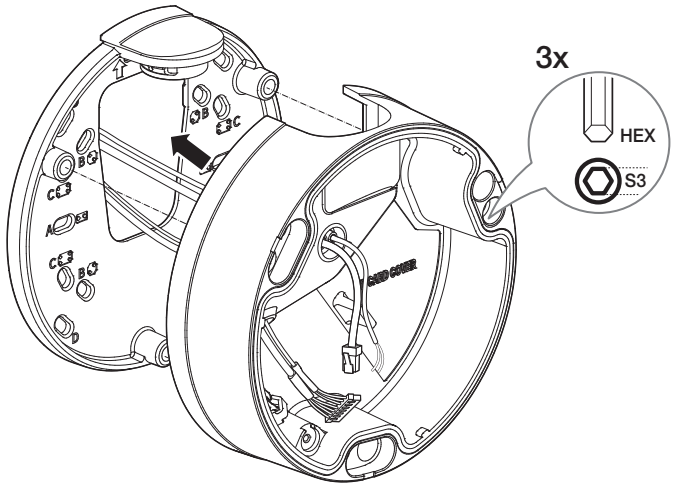
Kappen-Installierer



2-3. Die Einführung am Gehäuseunterteil anbringen.

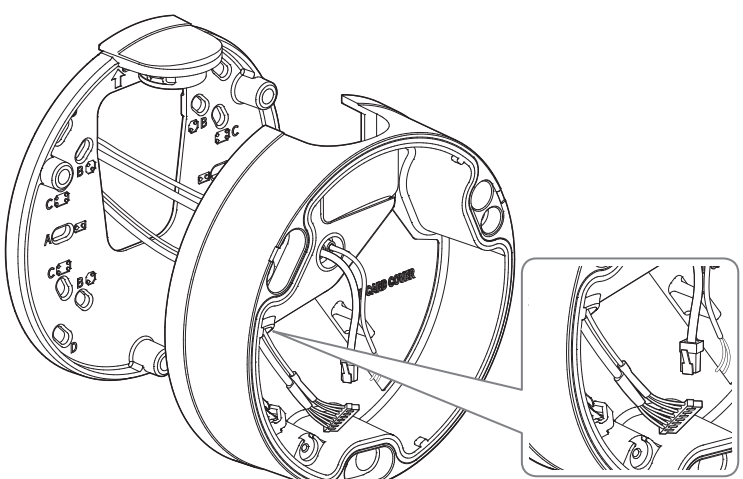


4. Das Unterteil der Wandbefestigung mit dem Gehäuseunterteil verbinden.



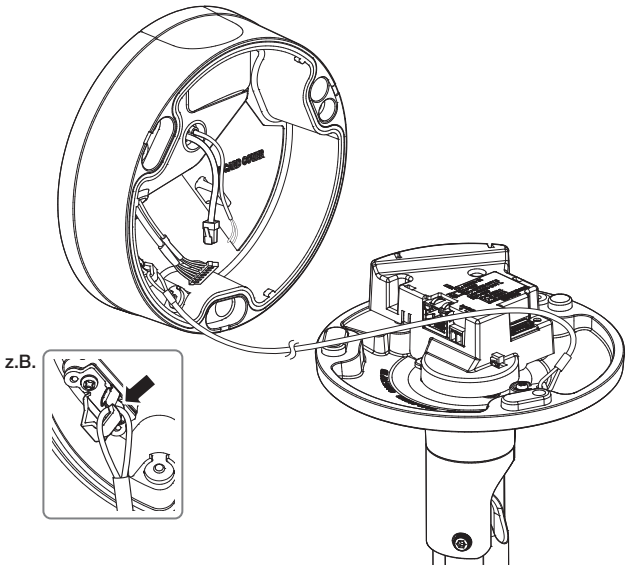
[Montage von Audio- und Alarmkabeln]

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

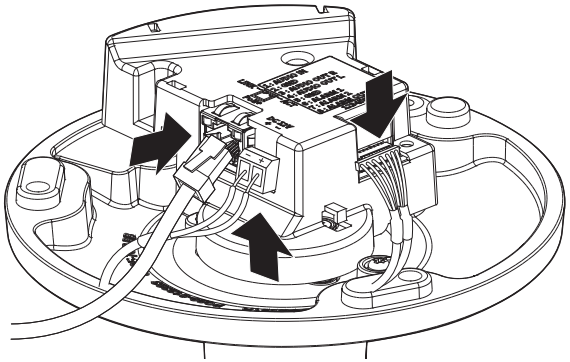


Montage des Kameramoduls

1. Das Sicherheitskabel an einen Haken im Gehäuseunterteil hängen, der wie ein Pfeil aussieht.

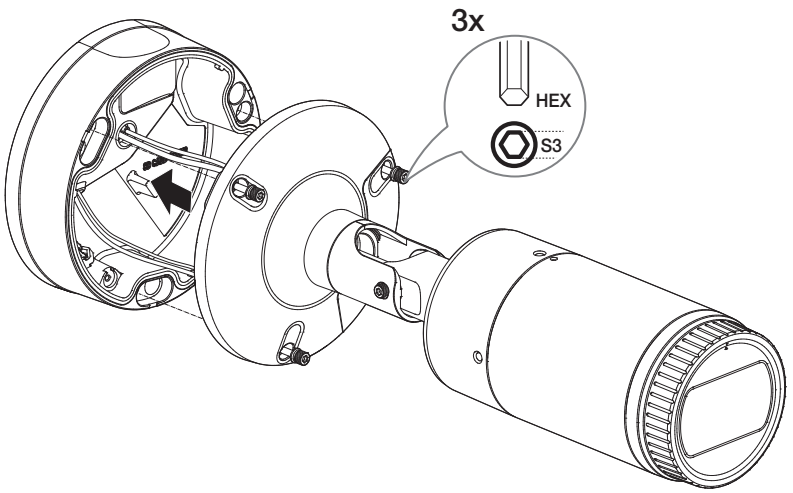


2. Die LAN-/Stromversorgungs-/Audio- und Alarmkabel am Anschluss des Kameramoduls anschließen.



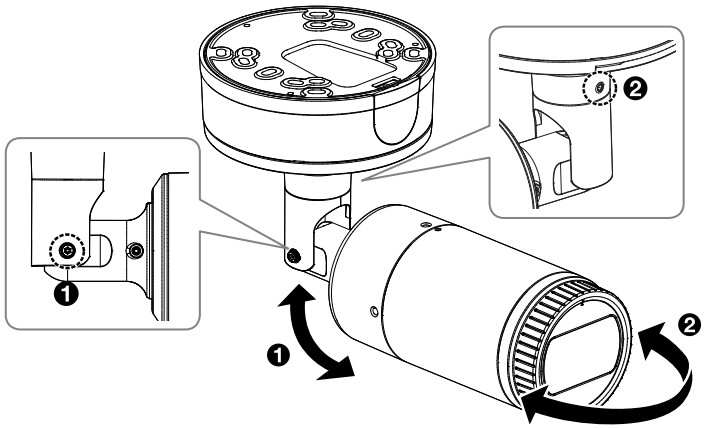
3. Das Kameramodul am Gehäuseunterteil anbringen.

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

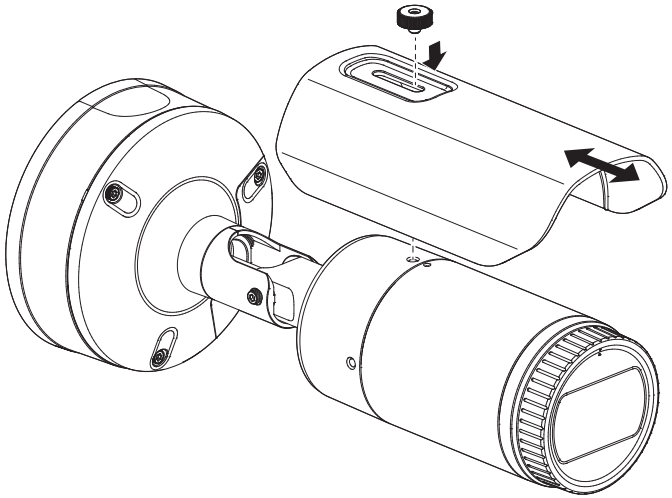


4. Die Kamerarichtung mit dem gelieferten L-Schraubenschlüssel einstellen.

- Wird die Kameraposition mit einem Halter eingestellt, bitte die Schraube vom Halter lockern, die Kamera einstellen und Schraube wieder anziehen. Sollten Sie versuchen, während die Schraube fest angezogen ist, die Einstellung mittels Kraftaufwand vorzunehmen, kann es Kratzer oder andere Probleme geben.



5. Die Sonnenblende am Kameramodul mit dem Sonnenblenden-Schraube anbringen.

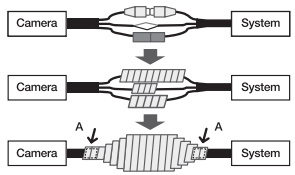


Einbau im Außenbereich

Wird die Installation außerhalb des Gebäudes vorgenommen, ist sie mit einem Butylisolierband (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.

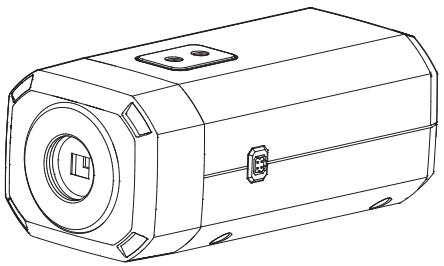
2. Die schwarze Kabelummantelung (Bereich A) und den Kabelanschlussbereich mit dem wasserundurchlässigen (Butylisolier-) Band so umwicklen, dass mehr als die Hälfte des Butylisolierbandes überlappt wird.



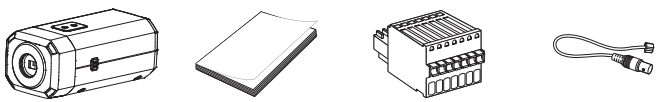
- Sollte die Kabelummantelung nicht richtig wasserundurchlässig sein, kann das zu einer unmittelbaren Undichtigkeit führen. Stellen Sie sicher, dass das Kabel dicht mit einem Klebeband geschützt ist.
- Das wasserdichte Butylklebeband besteht aus Butylkautschuk und kann auf das Doppelte seiner normalen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

LIEFERUMFANG

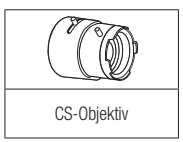
Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.



<PNB-A9001>

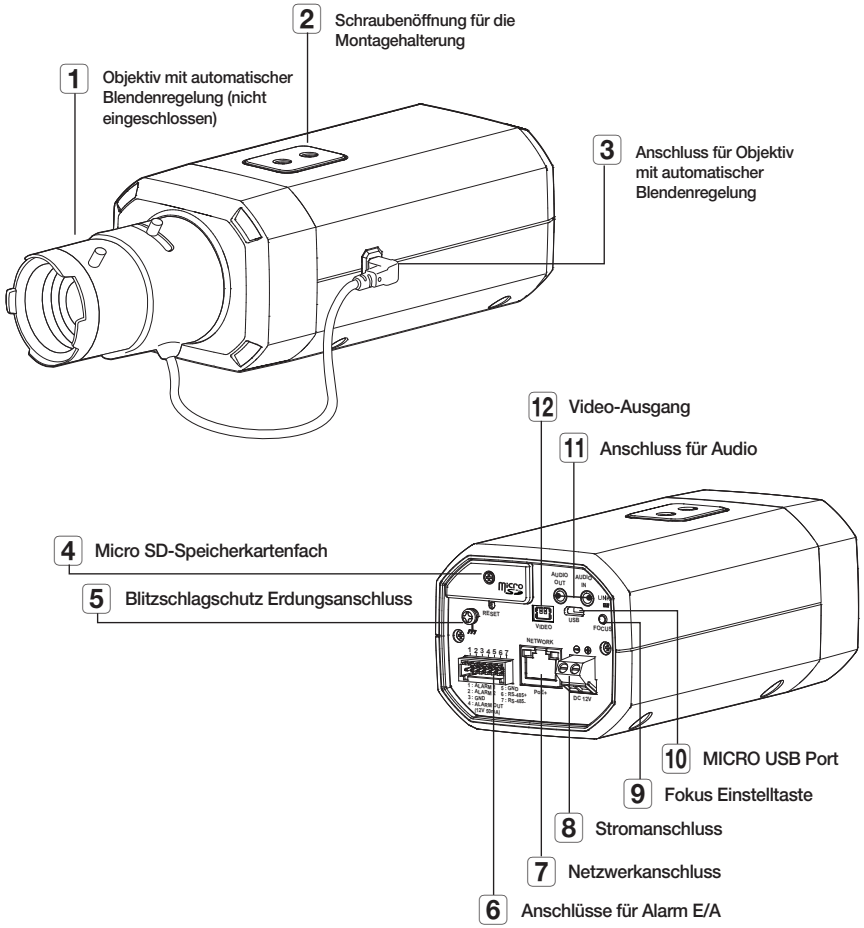


Option (nicht eingeschlossen)



CS-Objektiv

AUF EINEN BLICK



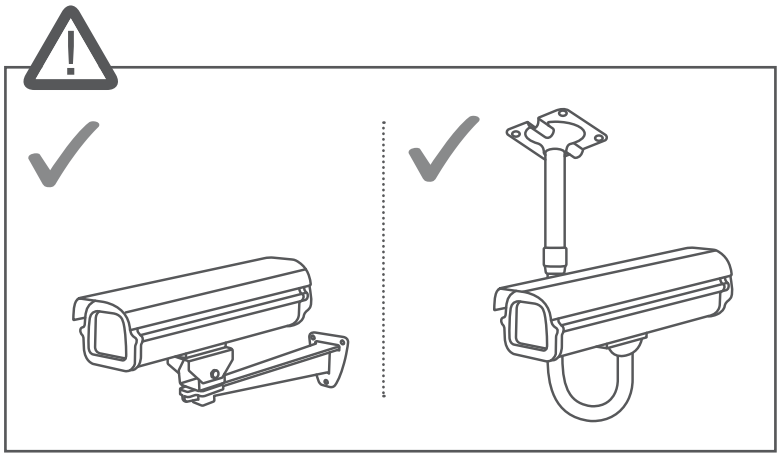
INSTALLATION

- Die an dem äußeren Kabel angeschlossene Kamerabuchse ist nicht wasserdicht. Es wird empfohlen, dieses Produkt unterhalb der Traufkante zu installieren, um zu verhindern, dass das Kabel nach außen hin sichtbar ist.

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.
- Es wird bei der Installation der Kamera empfohlen, ein Gehäuse zu montieren (separat erhältlich).



ANBRINGEN DES OBJEKTIVS

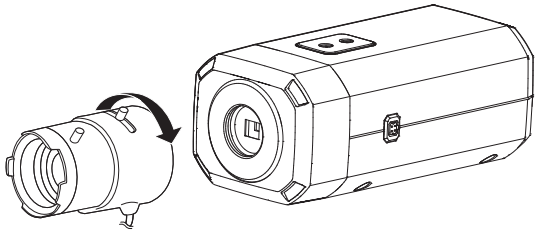
Trennen Sie die Stromverbindung, bevor Sie fortfahren.

- Das CS-Objektiv ist im Produktpaket nicht eingeschlossen.
  Das Makro-Objektiv darf nur für diesen Zweck genutzt werden.

Anbringen eines CS-Objektivs an der Kamera

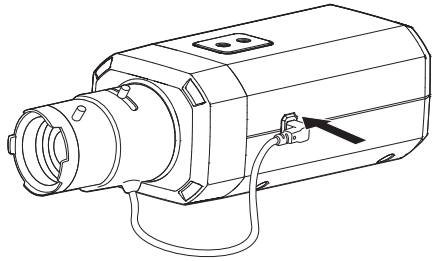
Das CS-Objektiv zur Befestigung im Uhrzeigersinn drehen.

CS-Objektiv



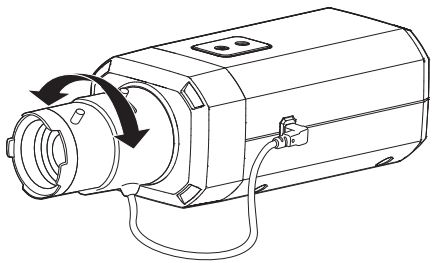
Objektiv mit automatischer Blendenregelung anschließen

Den Iris-Anschluss des Objektivs in die Nut-Verbindung der Kamera stecken.



Fokussieren

Ein Ziel zum Filmen auswählen, den Zoom-Hebel des Objektivs drehen, um die Vergrößerung und Schärfe des Objektivs einzustellen, und dann das Objektiv so einstellen, dass das Ziel deutlich angezeigt wird.

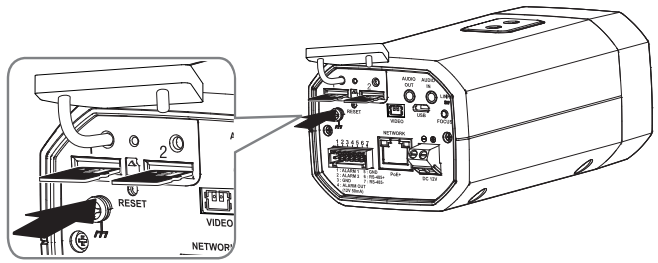


- Nach Einstellung der Schärfe mit dem Zoom-Hebel des Objektivs, die [**FOCUS**] Schaltfläche hinten an der Kamera drücken, damit das Objektiv noch schärfer eingestellt wird.
- Das i-CS-Objektiv ist mit einem Motor ausgestattet, so dass es über den Web Viewer für Zoom/Fokus und Blende öffnen/schließen angepasst werden kann.

EINLEGEN/HERAUSNEHMEN EINER MICRO SD-SPEICHERKARTE

Einlegen einer Micro SD-Speicherkarte

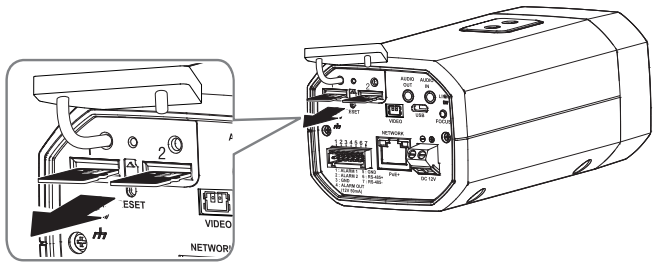
Die Micro SD-Karte in den Micro SD-Karten-Einschub am Kameramodul in Pfeilrichtung einsetzen.



- 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.

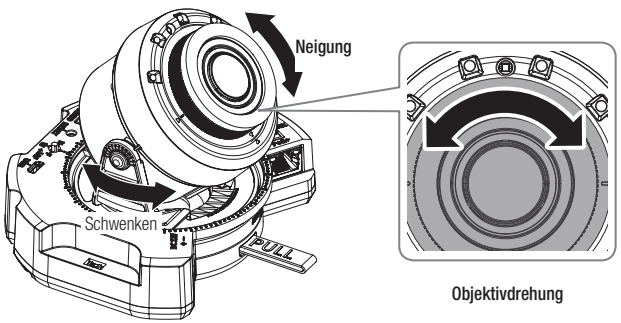
Herausnehmen einer Micro SD-Speicherkarte

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



- 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.

ÜBERWACHUNGSRICHTUNG DER KAMERA EINSTELLEN



Objektivdrehung

▪ 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˚ – 360˚.
- Der Neigungswinkel beträgt -45˚ – 85˚.
- Der Drehwinkel beträgt 0˚ – 355˚.

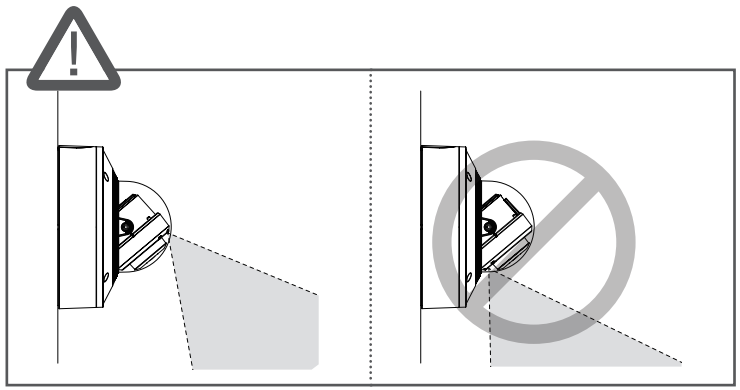
▪ Bei einem Neigungswinkel von 75 Grad oder mehr kann je nach Zoom-Vergrößerung in einigen Teilen des Bildschirms eine Sichteinschränkung oder ein unscharfes Bild auftreten.

▪ Nicht mit Gewalt drehen oder auf das Fokus-/Zoom-Objektiv drücken. Ansonsten kann der Fokus nicht richtig funktionieren auf Grund eines Motorfehlers.

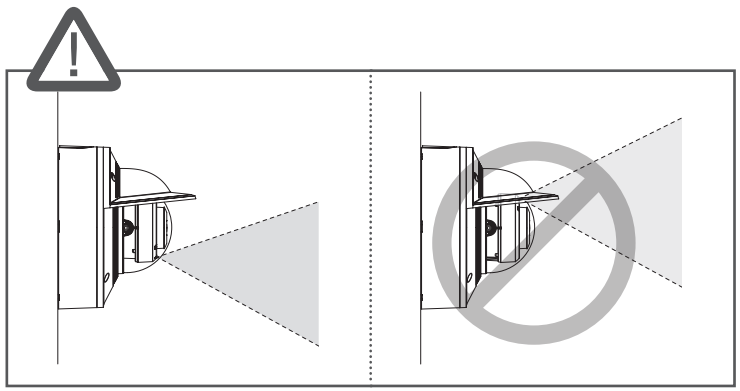
▪ Anpassungsmethode

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.

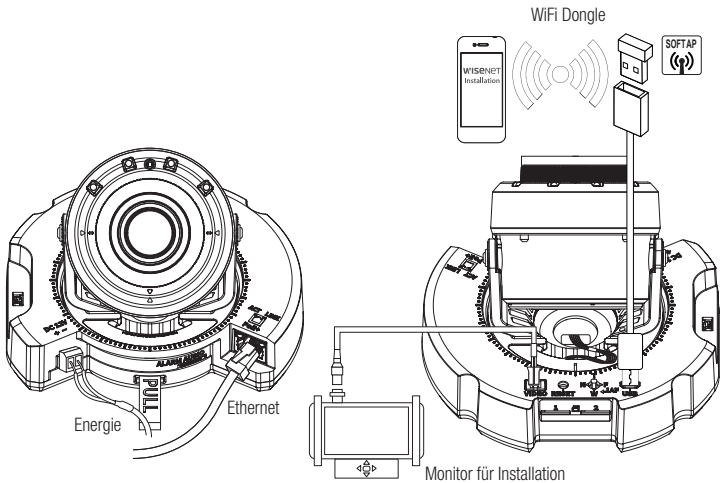
▪ Die Richtung der IR-LEDs so einstellen, dass ihr Blickfeld nicht durch ein Instrument behindert wird.



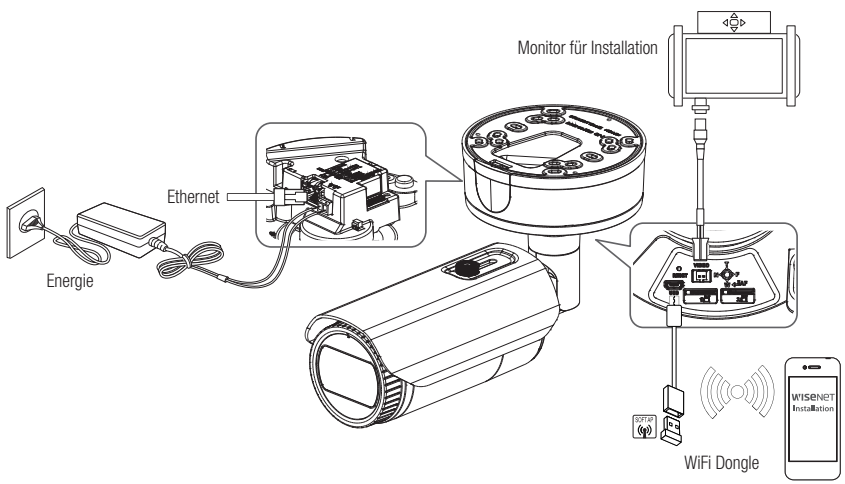
▪ Die Richtung der IR-LEDs so einstellen, dass ihr Blickfeld nicht durch eine Wetterabdeckung (wenn vorhanden) behindert wird.



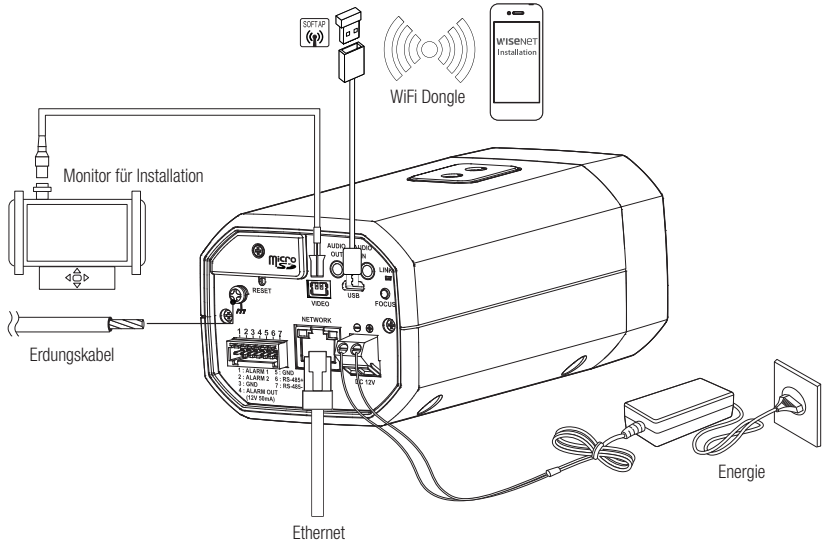
ANSCHLUSS AN ANDERE GERÄTE



<PNV-A9081R/PND-A9081RV/PND-A9081RF>



<PNO-A9081R>



<PNB-A9001>

- 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 802.3at Protokollen kompatibel ist.
- Achten Sie beim Anschluss des Stromkabels darauf, Plus- und Minuspol nicht zu vertauschen.
- Wenn ein externes Gerät angeschlossen werden soll, muss das Gerät vor dem Anschließen abgeschaltet werden.
- Zuerst das Netzteil und das Netzteil des Netzkabels anschliesen und dann das Netzkabel an die Steckdose an der Wand anschliesen.

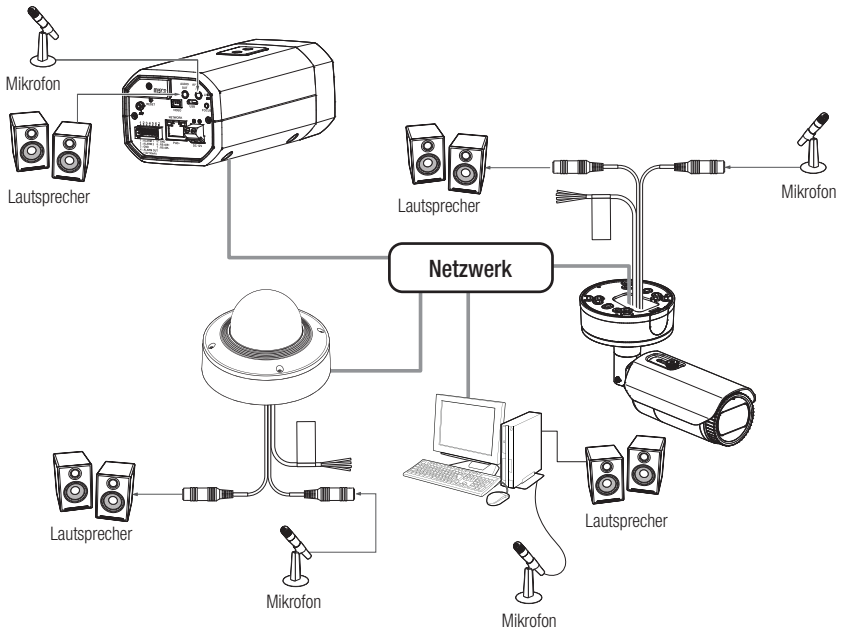
Netzkabel-Spezifikation für jedes Modell

Modell	Eingangsleistung	Kabeltyp (AWG)	Kabellänge (max.)
PND-A9081RV PND-A9081RF PNV-A9081R	DC 12V	#18	15m
		#16	24m
PNO-A9081R	DC 12V	#18	15m
		#16	24m
PNB-A9001	DC 12V	#18	18m
		#16	29m

Netzwerkkabel-Spezifikation

Artikel	Inhalte	Anmerkung
Stecker	RJ-45(10/100/1000BASE-T)	
Ethernet	10/100/1000BASE-T	
Kabel	Kategorie 6	
Max. Entfernung	100M	
PoE Support	IEEE 802.3at	

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 PND-A9081RV / PNB-A9001).

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 (PND-A9081RV/PNB-A9001)** : Wahlweise (Mikrofon/Line-in/Integriertes Mikrofon), unterstützte Spannung: 2,5 VDC (4 mA), Eingangsimpedanz: 2 K Ohm
- **Audio Ein (PNV-A9081R/PND-A9081RF/PNO-A9081R)** : 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:

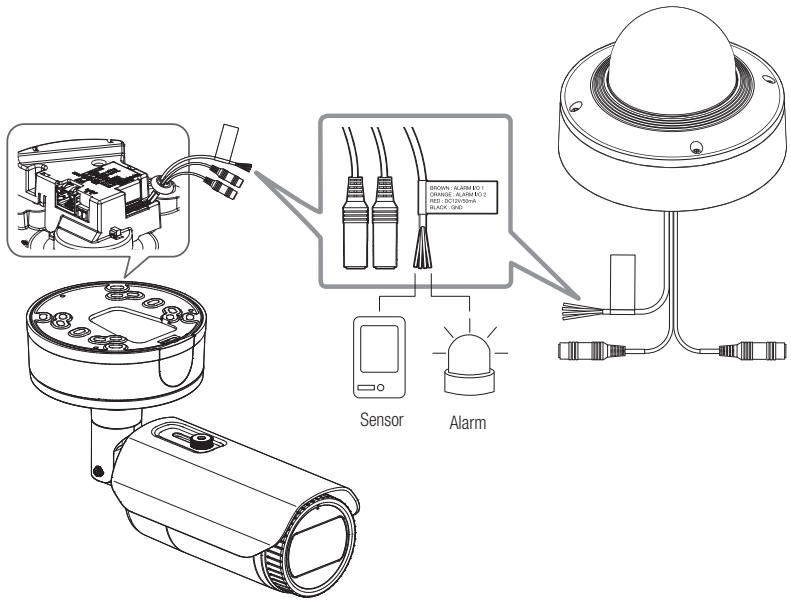
- Frequenzbereich: 40-16.000 Hz
- Impedanz: 1.500 Ω
- Empfindlichkeit: -40±3 dB (7,1-14,1 mV)

▪ 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, Sirenengeräusch, 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.



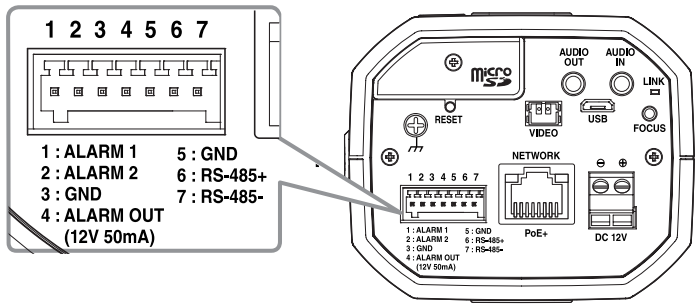
Alarmbezogener Anschluss

- Darauf achten, dass das bereitgestellte Audio-/Alarmkabel vor der Verwendung angeschlossen wird.

Kabelfarbe	Funktion	Beschreibung
BRAUN: ALARM E/A 1 ORANGE: ALARM E/A 2	ALARM I/O 1, ALARM I/O 2	Diese beiden Ports sind vom Web Viewer aus konfigurierbar, da sie als Alarmeingang oder Alarmausgang benutzt werden können ※ Alarm-E/A kann über die Einstellung Webviewer geändert werden.
ROT	DC 12V/50mA	Dieser Stift ermöglicht eine durchgängige Ausgabe von DC 12 V mit einer maximalen Stromstärke von 50 mA
SCHWARZ	GND	Es ist ein Erdungsanschluss.

I/O-Anschlüsse (PNB-A9001)

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

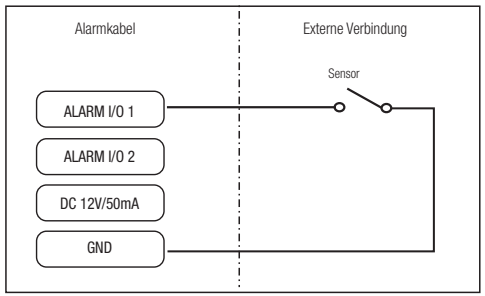


Funktion	Beschreibung
ALARM 1, ALARM 2	Diese beiden Ports sind vom Web Viewer aus konfigurierbar, da sie als Alarmeingang oder Alarmausgang benutzt werden können ※ Alarm-E/A kann über die Einstellung Webviewer geändert werden.
GND	Es ist ein Erdungsanschluss.
ALARM OUT	Dieser Stift ermöglicht eine durchgängige Ausgabe von DC 12 V mit einer maximalen Stromstärke von 50 mA
RS-485	Durch den Anschluss eines externen Geräts an den Port [RS-485 +, –] kann das externe Gerät gesteuert werden. Für die Datenübertragung über RS-485 muss GND angeschlossen werden. Wenn Datenübertragungsfehler auftreten, gegebenenfalls den GND Kontakt anschließen, um das Massepotential zwischen der Kamera und dem externen Gerät auszugleichen.

Um die Verbindung mit einem externen Sensor herzustellen

Zur Verwendung als Alarmeingang: Einen der [ALARM-E/A]-Ports und die andere Anschlussklemme mit dem Port [ERDUNG] verbinden.

Schaltplan für Alarmeingang (Beispiel)



<Wenn ALARM-E/A 1 als Eingangsklemme konfiguriert ist>

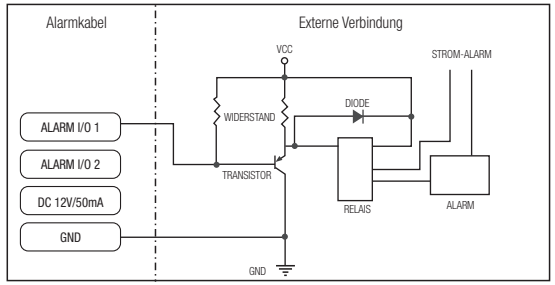
Um die Verbindung mit einem Alarmausgang herzustellen

Wenn Geräte (z. B. Blinklicht und Sirene), die die Spannungs- und Stromvorgaben (DC 12 V / 50 mA) überschreiten, mithilfe der Open-Collector-Methode angeschlossen werden, kann dies zu Schäden führen.

Unten finden Sie zwei Fälle für den Anschlussplan des Alarmausgangs.

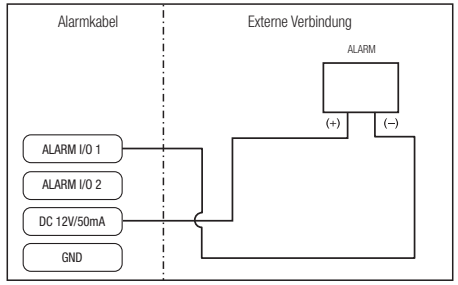
Anschlussplan für Alarmausgang (Beispiel)

Wenn das Warnlicht / die Sirene DC 12 V / 50 mA überschreitet (Vorgaben zur Verbindung des Relais gemäß Leistungsangaben des Warnlichts / der Sirene).



<Wenn ALARM-E/A 1 als Ausgangsklemme konfiguriert ist>

Wenn das Warnlicht / die Sirene DC 12 V / 50 mA nicht überschreitet



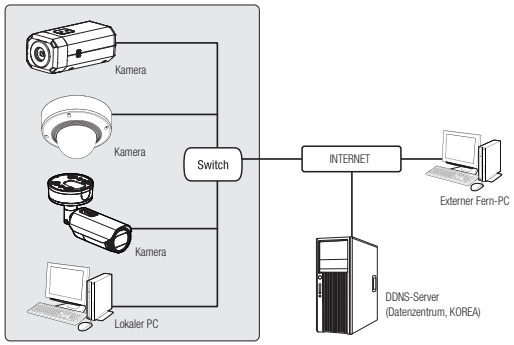
<Wenn ALARM-E/A 1 als Ausgangsklemme konfiguriert ist>

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

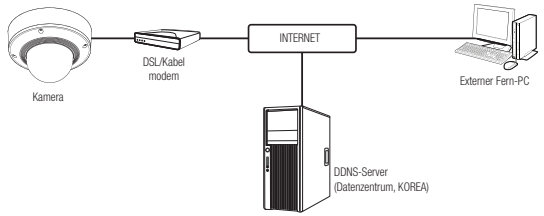
1. Starten sie einen Internetbrowser am lokalen PC.
2. Geben sie die IP-adresse der kamera in die adressenleiste des browsers ein.



<Lokales Netzwerk>

- 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 49)

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 <**Support**> – <**Online Tool**> auf der Hanwha Vision Webseite (https://www.HanwhaVision.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.

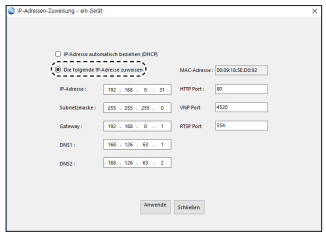
KONFIGURIEREN DER IP-ADRESSE

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.



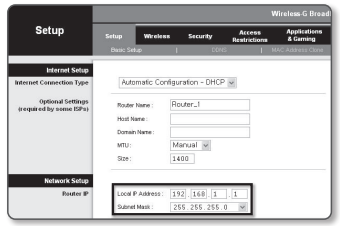
Wenn Sie keinen Breitband-Router verwenden

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.
- 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 due Portweiterleitung des Breitband Routers, bitte unter "**Portbereichweiterleitung Konfigurieren (Port Mapping)**" nachschlagen. (Seite 51)

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 Subnet Mask Gateway	192.168.1.100 255.255.255.0 192.168.1.1	192.168.1.101 255.255.255.0 192.168.1.1
Port-Einstellungen	HTTP Port RTSP Port	8080 554	8081 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

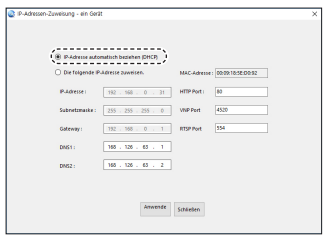
5. Auf die Schaltfläche [**Anwenden**] klicken.
6. Wenn die Erfolgsmeldung erscheint, auf [**OK**] klicken.

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

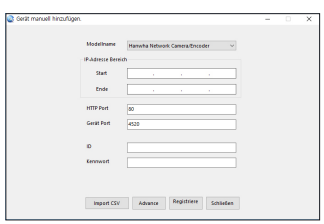
1. In der Liste auf die Kamera klicken, von der die IP-Einstellungen geändert werden sollen.
2. Auf der Hauptseite des Device Manager auf <**IP Assign (IP zuweisen)**> klicken.
3. <**IP-Adresse automatisch beziehen (DHCP)**> auswählen.
4. Auf die Schaltfläche [**Anwenden**] klicken.
5. Wenn die Erfolgsmeldung erscheint, auf [**OK**] klicken.



MANUELLES REGISTRIERUNG DER KAMERA

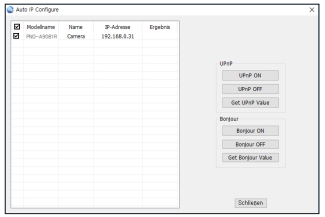
Wenn die Kamera mit der Suchfunktion nicht gefunden werden kann, kann die Kamera aus der Ferne registriert werden, indem die IP-Information manuell eingegeben werden, wenn die Kamera mit dem externen Netzwerk verbunden ist.

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, 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.



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.

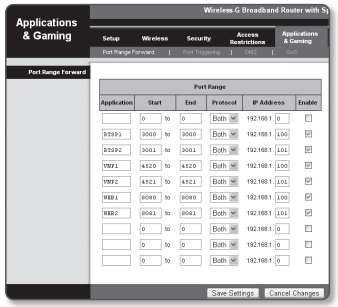


PORTBEREICHWEITERLEITUNG KONFIGURIEREN (PORT MAPPING)

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.

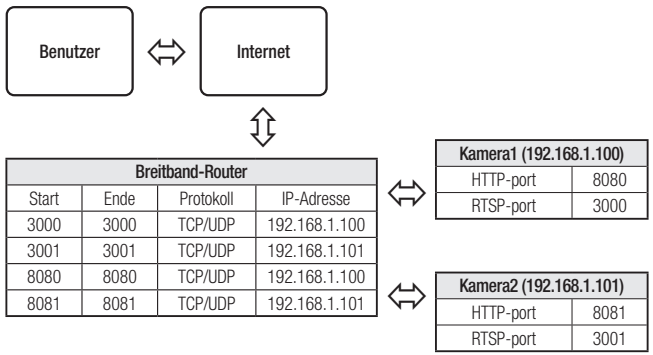


- Die Einstellung des Port-Forwarding wird am Beispiel der Einstellung eines CISCO IP-Routers gezeigt.
- Die Netzwerkeinstellungen können sich je nach Breitband-Routermodell unterscheiden.
  Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.

Einstellen des Portweiterleitungsbereichs für mehrere Netzwerkkameras

- Sie können auf dem Breitband-Router-Gerät durch seine Webseitekonfiguration Portweiterleitung-Richlinien 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 <**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.

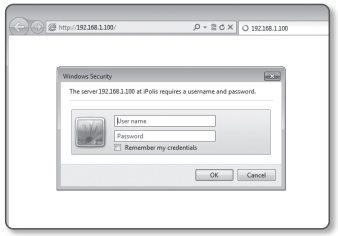
1. Bevor Sie auf eine Kamera im Breitband-Routernetzwerk zugreifen können, sollten Sie die Portbereichweiterleitung für den Breitband-Router eingestellt haben.
2. Starten Sie den Internetbrowser auf dem entfernten Computer und geben Sie die DDNS-URL der Kamera oder die IP-Adresse des Breitband-Routers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

- Um DDNS zu verwenden, melden Sie sich auf der DDNS-Homepage an (http://ddns.hanwha-security.com) und registrieren Sie das Produkt unter [**Mein DDNS**]>[**Produkt 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 Addresse (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 Addresse: 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-Addresse: 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.

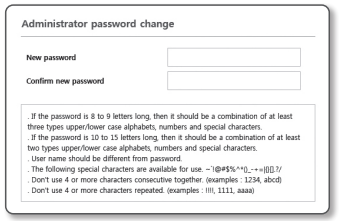
So überprüfen Sie die DDNS-Adresse

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 anschließen im Net Viewer unter <**Netzwerk**> - <**DDNS**> auf <**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.

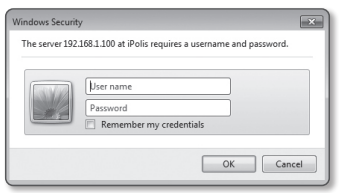


- Für ein neues Passwort mit 8 bis 9 Ziffern müssen Sie mindestens drei der Folgenden verwenden: Groß-/Kleinbuchstaben, Zahlen und Sonderzeichen. Für ein Passwort mit 10 bis 15 Ziffern müssen Sie mindestens zwei dieser Zeichentypen verwenden.
  - Zulässige Sonderzeichen sind. : ~`!@#$%^*()_-+=|{}[].?/
- 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.

1. Geben Sie „**admin**“ in das <**User name**> Eingabefeld ein.
   Die Administrator ID, „**admin**“, kann nicht verändert werden.
2. Geben Sie das Passwort in dem Eingabefeld <**Password**> ein.
3. 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

1. Klicken Sie auf das [**Einrichten ( )**]-Symbol.
2. Das Fenster für die Einstellungen erscheint.
3. 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.
4. Klicken Sie auf <**Hilfe ( )**> um detaillierte Beschreibungen jeder Funktion betrachten zu können.

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.	• 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.
Was sind die notwendigen Spezifikationen für eine WAVE-Datei, damit sie bei einem Ereignis abgespielt werden kann?	• Eine Samplingrate von 48.000 KHz oder weniger wird empfohlen. • Für Bits pro Sample (bps) wird bis zu 8/16 Bit empfohlen. • Nur das Codierformat PCM wird unterstützt.
Wenn Sie unter Safari per HTML auf den Plug-in-freien Webviewer zugreifen, wird kein Video angezeigt.	• 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. • 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.
Ich kann von einem Webbrowser nicht auf die Kamera zugreifen.	• Überprüfen Sie, ob die Netzwerkeinstellungen der Kamera entsprechend sind. • Kontrollieren Sie, oballe Netzwerkkabel korrekt angechlossen wurden. • Prüfen Sie bei einer Verbindung über DHCP, ob die Kamera dynamische IP-Adressen problemlos erhalten kann. • Prüfen Sie, wenn die Kamera mit einem Breitband-Router verbunden ist, ob die Portweiterleitung korrekt konfiguriert ist.
Der Viewer wurde während der Überwachung getrennt.	• Verbundene Viewer werden nach etwaigen Änderungen an der Kamera oder den Netzwerkkonfigurationen getrennt. • Prüfen Sie alle Netzwerkverbindungen.
Die mit dem Netzwerk verbundene Kamera wird im Programm Device Manager nicht erkannt.	• Schalten Sie die Firewall-Einstellungen an Ihrem PC aus und suchen Sie dann die Kamera erneut.
Die Bilder überlappen.	• 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.
Es wird kein Bild eingeblendet.	• 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.

PROBLEM	LÖSUNG
Stimme wird nicht aufgezeichnet, obwohl die Audio-Eingabeeinstellungen konfiguriert wurden.	• Sie müssen das <Audio-Eingang> - Kontrollkästchen im <Basis> - <Video Profil> aktivieren.
<Bewegungserkennung> des <Analyse> ist auf <Aktivieren> eingestellt, doch haben mich keine E-Mails mit Benachrichtigungen erreicht, selbst wenn ein Analyse-Ereignis eingetreten ist.	• Überprüfen Sie die Einstellungen in der folgenden Reihenfolge: A. Prüfen Sie die Einstellungen unter <Datum & Uhrzeit>. B. Die <Bewegungserkennung> muss auf <Aktivieren> gestellt sein. C. Prüfen Sie, ob die Option <E-mail> im <Ereigniseinrichtung> Menü markiert ist.
Am Port für den Signalausgang wird kein Signal erkannt, selbst wenn ein Ereignis der intelligenten Videoanalyse aufgetreten ist.	• Prüfen Sie die Einstellungen des Ports für den Signalausgang.
Auf die Micro SD Speicherkarte kann nicht aufgenommen werden.	• Prüfen, ob die Micro SD-Karte defekt ist.
Die Micro SD Speicherkarte ist eingelegt, aber die Kamera funktioniert nicht richtig.	• 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. • Formatieren Sie die Speicherkarte über das Menü <Setup> → <Ereignis> → <Speicherkapazität>.
Kann nicht in NAS aufnehmen.	• Bestätigen Sie, dass die in NAS registrierten Informationen richtig sind.
Meldet, dass die NAS-Einstellung fehlgeschlagen ist.	• Bestätigen Sie, dass die IP-Adresse des NAS gültig ist. • Bestätigen Sie, dass die ID/dass Passwort des NAS gültig ist. • Bestätigen Sie, dass Sie auf den als Basisordner bezeichneten Ordner mit der NAS-ID zugreifen können. • Bestätigen Sie, dass die NAS SMB/CIFS-Punkte nicht angekreuzt sind. • Bestätigen Sie, dass die NAS IP-Adresse und die Kamera-IP-Adresse dasselbe Format haben. Ex) Der Erstwert des NAS & der Kamerasubnetzmaske ist 255.255.255.0. 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 • Prüfen Sie, ob Sie als ein anderer Benutzer ohne Formatierung des gespeicherten oder benutzten Basisordners zugreifen wollten. • Bestätigen Sie, dass Sie empfohlene NAS-Ausrüstung benutzten.

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GPL SW

Component Name	License	URL
Base Kernel	GPL 2.0	
Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-4.2	GPL 2.0	
mtd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtd-utils
mii-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
zeroconf	GPL 2.0	

LGPL SW

Component Name	License	URL
gLibc	LGPL 2.0	
Inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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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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1. This License Agreement sets forth copyrights and the terms and conditions of use applicable to the source code of T-Kernel distributed by T-Engine Forum and any derivative work created therefrom.

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1. "T-Kernel" means a real-time operating system controlled and distributed by T-Engine Forum on behalf of the copyright holder thereof.

2. "Source Code" means a source program, including related comments and documentations, for the T-Kernel and the Ported Source Code defined in Article 2.8 which is registered with T-Engine Forum.

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4. "Compiler-dependent Part" means the part of the Source Code which depends on compiler and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.

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6. "T-Engine Hardware" means the hardware which is manufactured in accordance with the T-Engine Hardware specifications or the µT-Engine Hardware specifications issued by T-Engine Forum, and registered with T-Engine Forum.

7. "Similar Hardware to T-Engine Hardware" means any hardware (including software which emulates hardware) other than that defined in Article 2.6 above, on which the T-Kernel can be operated.

8. "Ported Source Code" means a source program produced from the Source Code by modifying only its Hardwaredependent Part and/or Compiler-dependent Part to enable it to be operated on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware. The Ported Source Code which is registered with T-Engine Forum shall be included in the Source Code.

9. "Modified Source Code" means a source program modified from the Source Code for the purpose of improving its performance, increasing or decreasing its function, and the like. The Ported Source Code shall not be included in the Modified Source Code.

10. "Binary Code" means an executable code form which is created by compiling programs, which include all or part of the Source Code or the Modified Source Code.

11. "Derivative Work" means the Modified Source Code or the Binary Code.

12. "Embedded Product" means any product which operates with executable code form of the Source Code, the Modified Source Code or the Binary Code loaded on its hardware.

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14. "System Developer" means any person who develops the Embedded Product by itself or has a third party develop the same, and provides, whether with or without payment, the End User with the Embedded Product.

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16. "Patch for Modification" means a difference, program, system, or the like in order to create the Modified Source Code from the Source Code or the Binary Code thereof.

17. "Vicarious Execution of Patch Processing" means vicarious execution service to create the Modified Source Code applying the Patch for Modification to the Source Code or the Binary Code thereof.

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2. to transmit a work to the general public through the Internet communication, broadcasting, and the like automatically in response to a request from the public; and

3. to distribute a copy of a work to the general public or a large number of specific persons.

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2. to run the Source Code provided by T-Engine Forum hereunder for its own research, development and the like.

3. to run the Source Code modified in accordance with the provision of Article 4.3 (1) above for its own research, development and the like.

4. to distribute the Binary Code created from the Source Code provided by T-Engine Forum hereunder or from the Source Code modified in accordance with the provision of Article 4.3 (1) above.

4. In accordance with the license granted under Article 4.1 above, the System Developer may perform the following acts:

1. to perform any and all acts set forth in the Article 4.3 above.

2. to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.

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2. The Distributor of Modification may create the Modified Source Code based on the Source Code provided by T-Engine Forum and the Patch for Modification to be applied to create such Modified Source Code from the Source Code.

3. The Distributor of Modification shall, prior to the distribution, inform T-Engine Forum of and register a name and description of the Modified Source Code in such a way as specified by T-Engine Forum.

4. The Distributor of Modification shall determine the name of the Modified Source Code subject to the rules separately established by T-Engine Forum and publish an appropriate notice as required by the rules on the Patch for Modification and the Modified Source Code.

5. The Distributor of Modification may distribute the Modified Source Code to a third party, whether with or without payment, provided that the Distributor of Modification shall take the necessary measures to prohibit the third party from making the re-Distribution of the Modified Source Code.

6. Developer with the Patch for Modification. Provided, however, that the Distributor of Modification shall be obligated to confirm that the System Developer is the Source Code User duly licensed under Article 4.1.

7. The Distributor of Modification may perform the Vicarious Execution of Patch Processing for the System Developer.

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.

9. The System Developer may, under the same obligation as imposed in Article 4.5, make the Embedded Product available for the End User through use of the Patch for Modification distributed by the Distributor of Modification or the Derivative Works obtained through the Vicarious Execution of Patch Processing.

Article 6. Distribution and Registration of the Ported Source Code

1. The Source Code User and the System Developer may, whether with or without charge, distribute to any third party only the following parts of the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware:

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.

3. Any member of T-Engine Forum who requests the distribution mentioned in the preceding paragraph shall accede to the following conditions:

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.

3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.

4. In the event that T-Engine Forum accepts the request mentioned in Article 6.2, T-Engine Forum shall register and distribute the Ported Source Code as the Source Code for T-Kernel. Provided, however, that the Ported Source Code may be treated in the same way as the Modified Source Code until the time of registration hereunder.

5. The provision set forth in Article 3 shall apply to the Ported Source Code registered in accordance with this Article.

Article 7. Use for Other Purpose

1. Any use of the Source Code, the Modified Source Code or the Ported Source Code other than those stipulated in Articles 4, 5 and 6 shall be subject to the prior approval of T-Engine Forum.

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3. Any legal dispute which may arise in relation to any breach of this License Agreement shall be subject to the exclusive jurisdiction of the Tokyo District Court.

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Iperf performance test

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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 (deflate format) and rfc1952.txt (gzip format).

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