

# NETZWERKKAMERA

Benutzerhandbuch

QND-6012R1/6022R1/6032R1/6072R1/6082R1

QNV-6012R1/6022R1/6032R1/6072R1/6082R1

QNO-6012R1/6022R1/6032R1/6072R1/6082R1

# Netzwerkamera

## Benutzerhandbuch

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

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

## WICHTIGE SICHERHEITSHINWEISE

1. Lesen Sie diese Anweisungen.
2. Bewahren Sie sie auf.
3. Beachten Sie alle Warnungen.
4. Befolgen Sie alle Anweisungen.
5. Verwenden Sie dieses Gerät nicht in der Nähe von Wasser.
6. Die verunreinigte Stelle auf der Produktoberfläche mit einem weichen, trockenen oder feuchten Tuch reinigen. (Keine Reinigungs- oder kosmetischen Mittel verwenden, die Alkohol, Lösungsmittel oder Ölbestandteile enthalten, da diese das Produkt deformieren oder schädigen können.)
7. Blockieren Sie keine Belüftungsöffnungen. Installieren Sie es gemäß den Herstelleranweisungen.
8. Installieren Sie das Gerät nicht in der Nähe von Wärmequellen wie beispielsweise von Radiatoren, Heizkörpern oder anderen Geräten (einschließlich Verstärkern), die Wärme erzeugen.
9. Bitte achten Sie darauf, die Schutzvorrichtung des gepolten bzw. geerdeten Steckers nicht zu beschädigen. Ein gepolter Stecker verfügt über zwei Stifte, von denen einer breiter als der andere ist. Ein geerdeter Stecker hat zwei Stifte und einen Erdungsstift. Der breite Stift oder der dritte Stift ist für Ihre Sicherheit vorgesehen. Wenn der vorgesehene Stecker nicht in Ihre Steckdose passt, wenden Sie sich an einen Elektriker, um die veraltete Steckdose austauschen zu lassen.
10. Schützen Sie das Netzkabel so, dass nicht darauf getreten wird, und dass es insbesondere an den Steckern oder passenden Steckdosen bzw. der Stelle, an der das Kabel das Gerät verlässt, nicht abgeklemt 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 soll ein zugelassenes Stromversorgungseinheit sein, die mit „Klasse 2“ oder „LPS“ gekennzeichnet ist und mit 12 V DC, 0,55 A oder PoE (48 V), 0,16 A bemessen ist. (QND-6072R1/6082R1, QNV-6072R1/6082R1)
16. Dieses Produkt soll ein zugelassenes Stromversorgungseinheit sein, die mit „Klasse 2“ oder „LPS“ gekennzeichnet ist und mit 12 V DC, 0,54 A oder PoE (48 V), 0,16 A bemessen ist. (QND-6012R1/6022R1/6032R1, QNV-6012R1/6022R1/6032R1)
17. Dieses Produkt soll ein zugelassenes Stromversorgungseinheit sein, die mit „Klasse 2“ oder „LPS“ gekennzeichnet ist und mit 12 V DC, 0,55 A oder PoE (48 V), 0,16 A bemessen ist. (QNO-6072R1/6082R1)
18. Dieses Produkt soll ein zugelassenes Stromversorgungseinheit sein, die mit „Klasse 2“ oder „LPS“ gekennzeichnet ist und mit 12 V DC, 0,51 A oder PoE (48 V), 0,15 A bemessen ist. (QNO-6012R1/6022R1/6032R1)
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 Produkt 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.

## 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

	<b>VORSICHT</b> GEFAHR EINES ELEKTROSCHOCKS NICHT ÖFFNEN	
<b>VORSICHT : NICHT DIE RÜCKSEITIGE ABDECKUNG ÖFFNEN, ABDECKUNG (ODER RÜCKSEITE) NICHT ABNEHMEN. KEINE VOM BENUTZER ZU WARTENDE TEILE INNEN. WENDEN SIE SICH AN QUALIFIZIERTES KUNDENDIENSTPERSONAL.</b>		

## 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

Wird die Batterie nicht mit der richtigen Batterie ausgetauscht, besteht Explosionsgefahr. Entsorgen Sie gebrauchte Batterien vorschriftsgemäß.

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

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

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

Lesen Sie die folgenden empfohlenen Sicherheitsmaßnahmen sorgfältig durch.

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

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

Die Verwendungshinweise im Handbuch bedeuten folgendes.

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

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.

## ACHTUNG

Um Schäden durch die IR-LED zu vermeiden, blicken Sie nicht direkt auf die Betriebsleuchte.

Nur für folgende Modelle.

QND-6012R1/6022R1/6032R1/6072R1/6082R1  
QNV-6012R1/6022R1/6032R1/6072R1/6082R1  
QNO-6012R1/6022R1/6032R1/6072R1/6082R1

Risikogruppe 1
<b>ACHTUNG: Dieses Produkt strahlt IR ab.</b> <b>Nicht in die Betriebsleuchte blicken.</b>
Produkt gemäß IEC 62471 getestet



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## EMPFOHLENE PC-SPEZIFIKATIONEN

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- 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

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- Empfohlene Kapazität : 16GB bis 128GB (MLC-Typ erforderlich)
- Empfohlene Hersteller : SanDisk, Transcend
- Produkttyp : Hochleistung
- Die Kompatibilität variiert je nach Kartenhersteller und -typ.


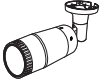







## EMPFOHLENE NAS-SPEZIFIKATIONEN









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

## LIEFERUMFANG

Überprüfen Sie bitte, ob in der Produktverpackung die Kamera und alle Zubehörteile enthalten sind.  
(Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.)

Produktdesign	Bezeichnung	Menge	Beschreibung	Modellbezeichnung
	Kamera	1		QND-6012R1/6022R1/ 6032R1/6072R1/6082R1
		1		QNO-6012R1/6022R1/ 6032R1/6072R1/6082R1
		1		QNV-6012R1/6022R1/ 6032R1/6072R1/6082R1
	Kurzanleitung (Optional)	1		QND-6012R1/6022R1/ 6032R1/6072R1/6082R1, QNO-6012R1/6022R1/ 6032R1/6072R1/6082R1, QNV-6012R1/6022R1/ 6032R1/6072R1/6082R1
	Schablone	1	Installationsanleitung des Produkts	QND-6012R1/6022R1/ 6032R1/6072R1/6082R1, QNO-6012R1/6022R1/ 6032R1/6072R1/6082R1, QNV-6012R1/6022R1/ 6032R1/6072R1/6082R1
	Netzklemmleiste	1	Der Netzstecker ist eingesteckt	QND-6012R1/6022R1/ 6032R1/6072R1/6082R1, QNV-6012R1/6022R1/ 6032R1/6072R1/6082R1
	L-förmiger Schraubenschlüssel	1	Wird verwendet, um die Richtung der Kamera zu steuern	QNO-6012R1/6022R1/ 6032R1/6072R1/6082R1
	Torx L-Schlüssel	1	Wird verwendet, um die Dome-Abdeckung zu entfernen und zu ersetzen	QNV-6012R1/6022R1/ 6032R1/6072R1/6082R1
	Alarmkabel	1	Wird zum Verbinden mit einem Alarm genutzt	QND-6012R1/6022R1/ 6032R1/6072R1/6082R1

Produktdesign	Bezeichnung	Menge	Beschreibung	Modellbezeichnung
	RJ45 wasserdichtes Zubehör	1	Wird zur Installation an feuchten Orten verwendet	QNO-6012R1/6022R1/ 6032R1/6072R1/6082R1
	Sonnenschutz	1	Schützt die Kamera vor direkter Sonneneinstrahlung	
	Sonnenblenden-Befestigungsschraube	1	Dient der Befestigung des Sonnenschutzes an der Kamera	
	Netzkabel	1	Wird zum Anschließen an den Netzanschluss verwendet	QNV-6012R1/6022R1/ 6032R1/6072R1/6082R1
	Alarmkabel	1	Wird zum Verbinden mit einem Alarm genutzt	QNV-6012R1/6022R1/ 6032R1/6072R1/6082R1
	Testmonitor-Kabel	1	Wird zum Testen des Kameraanschlusses an ein tragbares Displaygerät verwendet	QND-6012R1/6022R1/ 6032R1/6072R1/6082R1, QNO-6012R1/6022R1/ 6032R1/6072R1/6082R1, QNV-6012R1/6022R1/ 6032R1/6072R1/6082R1
	Kabeltülle	1	Wird zum Verbinden des LAN-Kabel	QNV-6012R1/6022R1/ 6032R1/6072R1/6082R1
	Installationsvorrichtung für Kappen	1	Wird beim Anschließen eines RJ45-Kabels verwendet	QNV-6012R1/6022R1/ 6032R1/6072R1/6082R1



Für die zur Montage verwendeten Blechschrauben Schrauben M4, L30 oder mehr verwenden.

Optionales Zubehör für die Installation

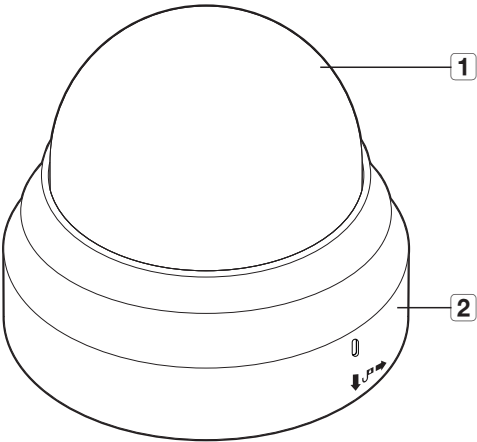
Damit sich die Installation einfacher gestaltet, können Sie das entsprechende optionale Zubehör kaufen.



Modellname	Hängebefestigung	Hinteres Gehäuse	Stangenbefestigung	Alle
QNV-6012R1/6022R1/6032R1	SBP-122HMMW	SBV-120GW		SBP-300LMW (Brüstungsbefestigung)
QNV-6072R1/6082R1	SBP-301HMMW2	SBV-136BW		SBP-300CMW (Deckenbefestigung)
QND-60121R/6022R1/6032R1	SBP-300HMMW7			SBP-300WMW1 (Wandbefestigung)
QND-6072R1/6082R1	SBP-122HMMW			SBP-300NBW (Installationsgehäuse)
QNO-6012R1/6022R1/ 6032R1/6072R1/6082R1		SBO-100B1	SBP-302PM	SBP-300PMW (Stangenbefestigung)
				SBP-300KMW (Eckenbefestigung)

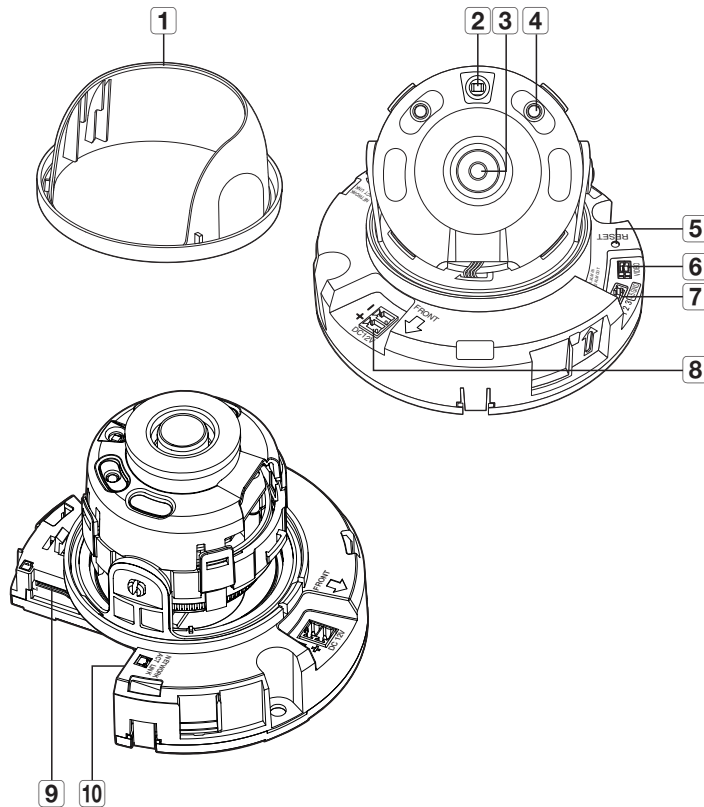
AUF EINEN BLICK (QND-6012R1/6022R1/6032R1)

Aufbau



Bezeichnung	Beschreibung
<b>1</b> Abdeckklappe	Gehäuseabdeckung zum Schutz des Objektivs und der Haupteinheit.
<b>2</b> Kamera-Gehäuse	Teil des Kameragehäuses.

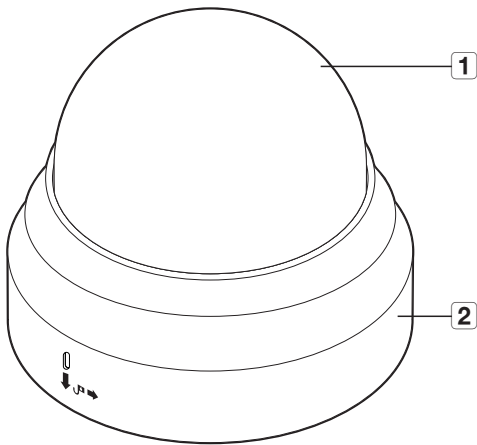
## Komponenten



Bezeichnung	Beschreibung	
<b>1</b> Innendeckel	Schutzabdeckung für das Gehäuse.	
<b>2</b> Beleuchtungssensor	Erkennt das einfallende Licht, und steuert die Infrarot-LED.	
<b>3</b> Objektiv	Kameraobjektiv.	
<b>4</b> IR LED	Diese infrarot LEDs werden über den Beleuchtungssensor gesteuert.	
<b>5</b> Reset-Taste	<p>Diese Taste setzt alle Kameraeinstellungen auf die Werkseinstellungen zurück. Drücken und 5 Sekunden gedrückt halten, um das System neu zu starten.</p> <p>■ Wenn Sie die Kamera zurücksetzen, werden die Netzwerkeinstellungen so eingestellt, dass DHCP aktiviert sein kann. Wenn im Netzwerk kein DHCP-Server vorhanden ist, muss das Programm Device Manager ausgeführt werden, um die grundlegenden Netzwerkeinstellungen, wie IP-Adresse, Subnetzmaske, Gateway, etc. zu ändern, bevor es möglich ist, sich mit dem Netzwerk zu verbinden.</p>	
<b>6</b> Test Monitor Ausgang	Anschluss zum Testen der Videoausgabe. Verwenden Sie das Test Monitor Kabel, um ein tragbares Anzeigergerät anzuschließen und das Videobild zu testen.	
<b>7</b> Alarmkabel-Port	ARM-IN	Wird verwendet, um den Alarm-Eingang-Sensor oder den externen Tag-/Nachtsensor zu verbinden.
	ARM-OUT	Anschluss für Audioausgabe.
	GND	Dies sind gebräuchliche Ports um Alarmeingangs/-ausgangssignale zu verbinden.
<b>8</b> Stromanschluss	Port für die Netzklemmenleiste.	
<b>9</b> Micro SD-Speicherkartenfach	Fach für die Micro SD-Speicherkarte.	
<b>10</b> Netzwerkanschluss	Dient zum Anschluss des PoE oder Ethernet Kabels für die Netzwerkverbindung.	

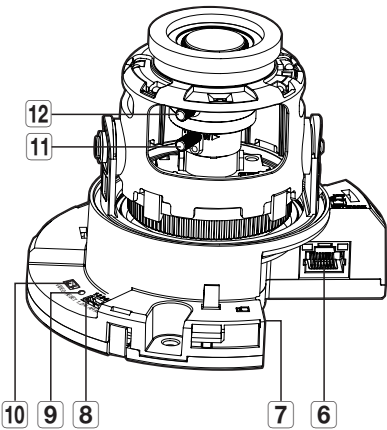
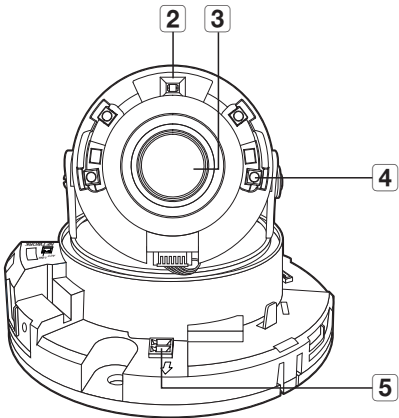
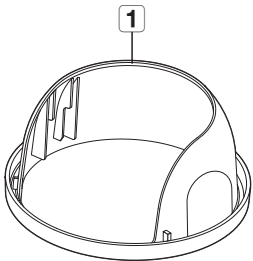
AUF EINEN BLICK (QND-6072R1/6082R1)

Aufbau

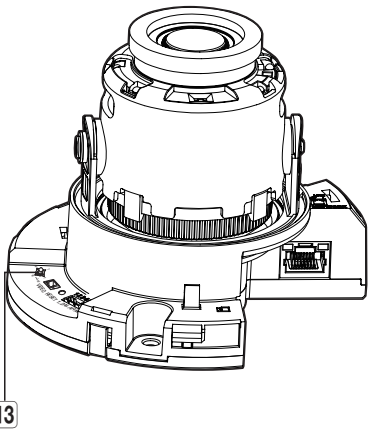


Bezeichnung	Beschreibung
1 Abdeckklappe	Gehäuseabdeckung zum Schutz des Objektivs und der Haupteinheit.
2 Kamera-Gehäuse	Teil des Kameragehäuses.

Komponenten



<QND-6072R1>



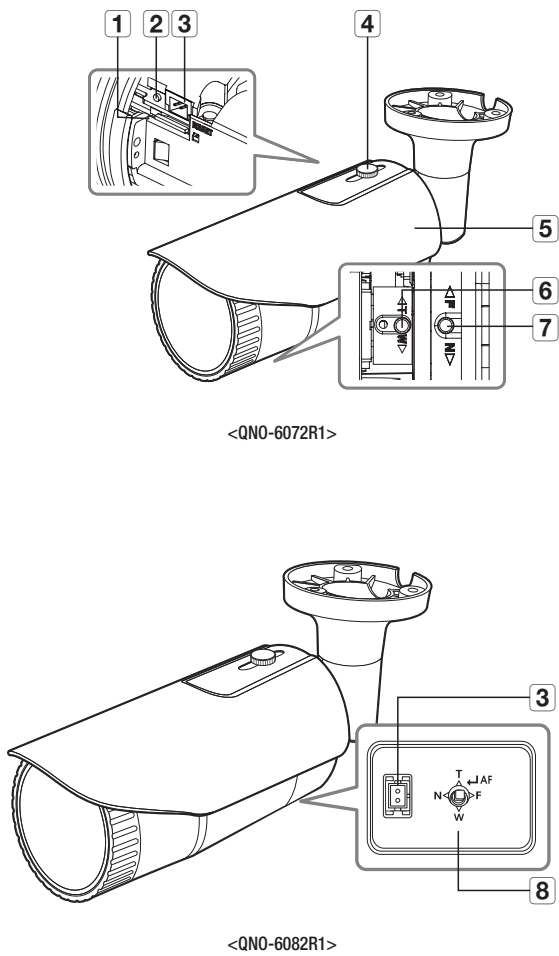
<QND-6082R1>

Bezeichnung	Beschreibung	
<b>1</b> Innendeckel	Schutzabdeckung für das Gehäuse.	
<b>2</b> Beleuchtungssensor	Erkennt das einfallende Licht, und steuert die Infrarot-LED.	
<b>3</b> Objektiv	Kameraobjektiv.	
<b>4</b> IR LED	Diese infrarot LEDs werden über den Beleuchtungssensor gesteuert.	
<b>5</b> Stromanschluss	Port für die Netzklemmenleiste.	
<b>6</b> Netzwerkanschluss	Dient zum Anschluss des PoE oder Ethernet Kabels für die Netzwerkverbindung.	
<b>7</b> Micro SD-Speicherkartenfach	Fach für die Micro SD-Speicherkarte.	
<b>8</b> Alarmkabel-Port	ARM-IN	Wird verwendet, um den Alarm-Eingang-Sensor oder den externen Tag-/Nachtsensor zu verbinden.
	ARM-OUT	Anschluss für Audioausgabe.
	GND	Dies sind gebräuchliche Ports um Alarmeingangs-/ausgangssignale zu verbinden.
<b>9</b> Reset-Taste	<p>Diese Taste setzt alle Kameraeinstellungen auf die Werkseinstellungen zurück. Drücken und 5 Sekunden gedrückt halten, um das System neu zu starten.</p> <p><b>i</b> Wenn Sie die Kamera zurücksetzen, werden die Netzwerkeinstellungen so eingestellt, dass DHCP aktiviert sein kann. Wenn im Netzwerk kein DHCP-Server vorhanden ist, muss das Programm Device Manager ausgeführt werden, um die grundlegenden Netzwerkeinstellungen, wie IP-Adresse, Subnetzmaske, Gateway, etc. zu ändern, bevor es möglich ist, sich mit dem Netzwerk zu verbinden.</p>	
<b>10</b> Test Monitor Ausgang	Anschluss zum Testen der Videoausgabe. Verwenden Sie das Test Monitor Kabel, um ein tragbares Anzeigergerät anzuschließen und das Videobild zu testen.	

Bezeichnung	Beschreibung	
<b>11</b> Zoom-Schalthebel (QND-6072R1)	T	Vergrößern (Tele)
	W	Verkleinern (breit)
	Lösen Sie den Hebel und bewegen Sie ihn nach links oder rechts, um die Linse rein- oder rauszuzoomen. Drehen Sie den Hebel im Uhrzeigersinn, um die angepasste Position zu fixieren und eine Verschiebung zu verhindern.	
<b>12</b> Schalthebel für Bildscharfe (QND-6072R1)	N	Scharfeinstellung eines nahen Objekts (nah)
	F	Scharfeinstellung eines entfernten Objekts (fern)
	Lösen Sie den Hebel und bewegen Sie ihn nach links oder rechts, um den Linsenfokus anzupassen. Drehen Sie den Hebel im Uhrzeigersinn, um die angepasste Position zu fixieren und eine Verschiebung zu verhindern.	
<b>13</b> Zoom-/Fokusregler-Schaltfläche (QND-6082R1)	T	Vergrößern (Tele)
	W	Verkleinern (breit)
	N	Scharfeinstellung eines nahen Objekts (nah)
	F	Scharfeinstellung eines entfernten Objekts (fern)
	Fokusregler	Diese Schaltfläche für die automatische Fokusreglung drücken.

AUF EINEN BLICK (QNO-6012R1/6022R1/6032R1/6072R1/6082R1)

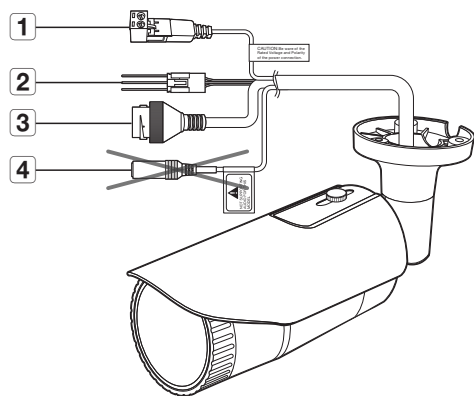
Aufbau



Bezeichnung	Beschreibung	
1	Micro-SD-Kartensteckplatz	(Innenraum des Produkts) In diesen Steckplatz lässt sich eine Micro-SD-Karte einlegen.
2	Reset-Taste	Diese Taste setzt alle Kameraeinstellungen auf die Werkseinstellungen zurück. Drücken und 5 Sekunden gedrückt halten, um das System neu zu starten. <b>!</b> Wenn Sie die Kamera zurücksetzen, werden die Netzwerkeinstellungen so eingestellt, dass DHCP aktiviert sein kann. Wenn im Netzwerk kein DHCP-Server vorhanden ist, muss das Programm Device Manager ausgeführt werden, um die grundlegenden Netzwerkeinstellungen, wie IP-Adresse, Subnetzmaske, Gateway, etc. zu ändern, bevor es möglich ist, sich mit dem Netzwerk zu verbinden.
3	Test Monitor Ausgang	Anschluss zum Testen der Videoausgabe. Verwenden Sie das Test Monitor Kabel, um ein tragbares Anzeigergerät anzuschließen und das Videobild zu testen.
4	Sonnenblenden-Befestigungsschraube	Dient der Befestigung des Sonnenschutzes an der Kamera.
5	Sonnenschutz	Schützt die Kamera vor direkter Sonneneinstrahlung.
6	Zoom-Schalthebel (QNO-6072R1)	T Vergrößern (Tele)
		W Verkleinern (breit)
7	Schalthebel für Bildscharfe (QNO-6072R1)	N Scharfeinstellung eines nahen Objekts (nah)
		F Scharfeinstellung eines entfernten Objekts (fern)
8	Zoom-/Fokusregler-Schaltfläche (QNO-6072R1)	Lösen Sie den Hebel und bewegen Sie ihn nach links oder rechts, um den Linsenfokus anzupassen. Drehen Sie den Hebel im Uhrzeigersinn, um die angepasste Position zu fixieren und eine Verschiebung zu verhindern.
		T Vergrößern (Tele)
		W Verkleinern (breit)
		N Scharfeinstellung eines nahen Objekts (nah)
		F Scharfeinstellung eines entfernten Objekts (fern)
	Fokusregler	Diese Schaltfläche für die automatische Fokusreglung drücken.



Komponenten

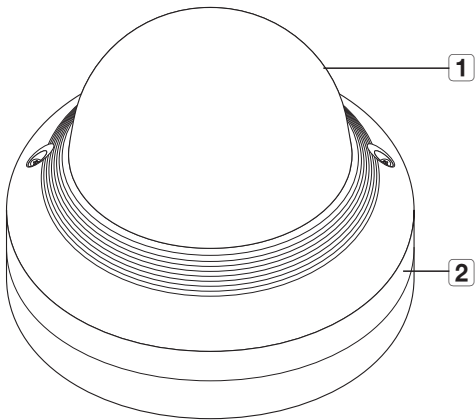


Bezeichnung		Beschreibung
1	Stromanschluss	Zum Anschluss des Stromkabels.
2	Anschlüsse für Alarm E/A	ARM-OUT Anschluss für Audioausgabe.
		GND Dies sind gebräuchliche Ports um Alarmeingangs/-ausgangssignale zu verbinden.
		ARM-IN Wird verwendet, um den Alarm-Eingang-Sensor oder den externen Tag-/Nachtsensor zu verbinden.
3	Netzwerkanschluss	Dient zum Anschluss des PoE oder Ethernet Kabels für die Netzwerkverbindung.

※ 4 Audioeingang - unterstützt keine Audio-Funktion.

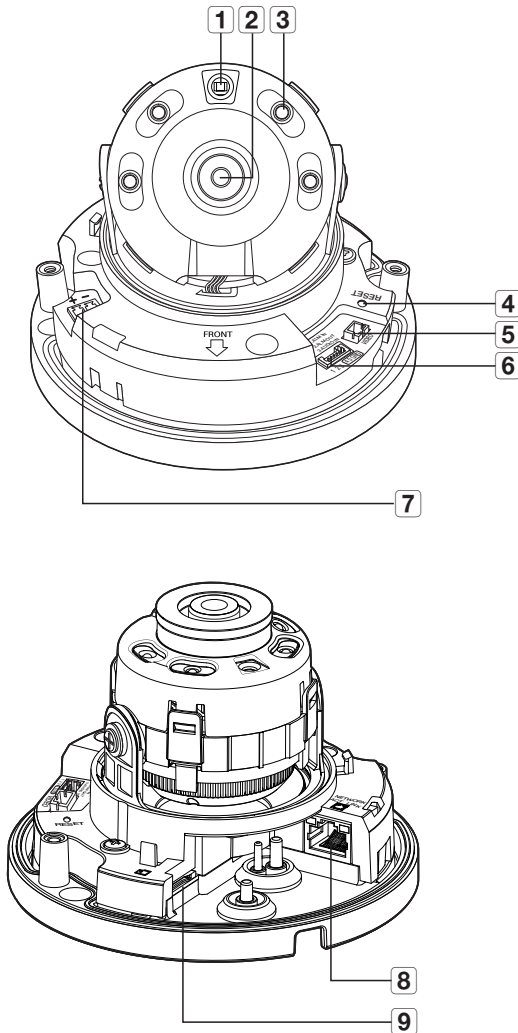
AUF EINEN BLICK (QNV-6012R1/6022R1/6032R1)

Aufbau



Bezeichnung		Beschreibung
1	Abdeckklappe	Gehäuseabdeckung zum Schutz des Objektivs und der Haupteinheit.
2	Kamera-Gehäuse	Teil des Kameragehäuses.

Komponenten

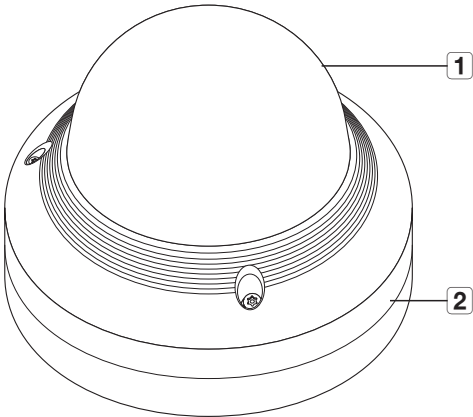


Bezeichnung		Beschreibung
1	Beleuchtungssensor	Erkennt das einfallende Licht, und steuert die Infrarot-LED.
2	Objektiv	Kameraobjektiv.
3	IR LED	Diese infrarot LEDs werden über den Beleuchtungssensor gesteuert.
4	Reset-Taste	Diese Taste setzt alle Kameraeinstellungen auf die Werkseinstellungen zurück. Drücken und 5 Sekunden gedrückt halten, um das System neu zu starten. <div>■ Wenn Sie die Kamera zurücksetzen, werden die Netzwerkeinstellungen so eingestellt, dass DHCP aktiviert sein kann. Wenn im Netzwerk kein DHCP-Server vorhanden ist, muss das Programm Device Manager ausgeführt werden, um die grundlegenden Netzwerkeinstellungen, wie IP-Adresse, Subnetzmaske, Gateway, etc. zu ändern, bevor es möglich ist, sich mit dem Netzwerk zu verbinden.</div>
5	Testmonitor-Ausgangsanschluss	Anschluss zum Testen der Videoausgabe. Verwenden Sie das Test Monitor Kabel, um ein tragbares Anzeigergerät anzuschließen und das Videobild zu testen.
6	Alarmkabel-Port	ARM-IN Wird verwendet, um den Alarm-Eingang-Sensor oder den externen Tag-/Nachtsensor zu verbinden.
		ARM-OUT Anschluss für Audioausgabe.
		GND Dies sind gebräuchliche Ports um Alarmeingangs/-ausgangssignale zu verbinden.
7	Stromanschluss	Port für die Netzklemmenleiste.
8	Netzwerkanschluss	Dient zum Anschluss des PoE oder Ethernet Kabels für die Netzwerkverbindung.
9	Micro SD-Karten-Einschub	Fach für die Micro SD-Karte.

※ 6 AUDIO IN – unterstützt keine Audio-Funktion.

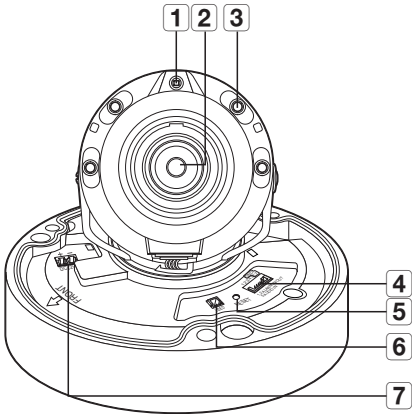
AUF EINEN BLICK (QNV-6072R1/6082R1)

Aufbau

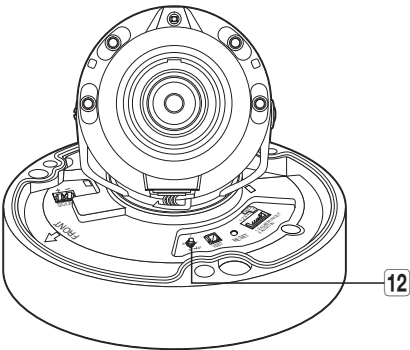


Bezeichnung	Beschreibung
1 Abdeckklappe	Gehäuseabdeckung zum Schutz des Objektivs und der Haupteinheit.
2 Kamera-Gehäuse	Teil des Kameragehäuses.

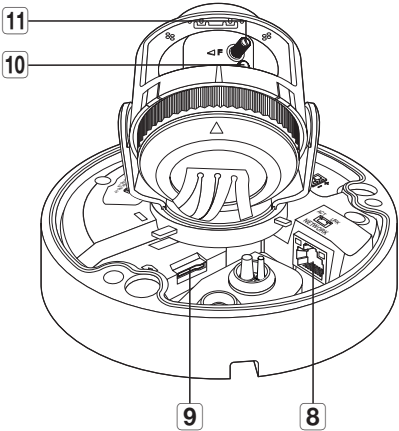
Komponenten



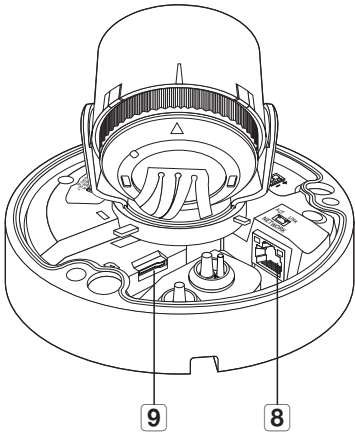
<QNV-6072R1>



<QNV-6082R1>



<QNV-6072R1>



<QNV-6082R1>

Bezeichnung	Beschreibung	
<b>1</b> Beleuchtungssensor	Erkennt das einfallende Licht, und steuert die Infrarot-LED.	
<b>2</b> Objektiv	Kameraobjektiv.	
<b>3</b> IR LED	Diese infrarot LEDs werden über den Beleuchtungssensor gesteuert.	
<b>4</b> Alarmkabel-Port	ARM-IN	Wird verwendet, um den Alarm-Eingang-Sensor oder den externen Tag-/Nachtsensor zu verbinden.
	ARM-OUT	Anschluss für Audioausgabe.
	GND	Dies sind gebräuchliche Ports um Alarmeingangs/-ausgangssignale zu verbinden.
<b>5</b> Reset-Taste	<p>Diese Taste setzt alle Kameraeinstellungen auf die Werkseinstellungen zurück. Drücken und 5 Sekunden gedrückt halten, um das System neu zu starten.</p> <p>■ Wenn Sie die Kamera zurücksetzen, werden die Netzwerkeinstellungen so eingestellt, dass DHCP aktiviert sein kann. Wenn im Netzwerk kein DHCP-Server vorhanden ist, muss das Programm Device Manager ausgeführt werden, um die grundlegenden Netzwerkeinstellungen, wie IP-Adresse, Subnetzmaske, Gateway, etc. zu ändern, bevor es möglich ist, sich mit dem Netzwerk zu verbinden.</p>	
<b>6</b> Test Monitor Ausgang	Anschluss zum Testen der Videoausgabe. Verwenden Sie das Test Monitor Kabel, um ein tragbares Anzeigergerät anzuschließen und das Videobild zu testen.	
<b>7</b> Stromanschluss	Port für die Netzklemmenleiste.	
<b>8</b> Netzwerkanschluss	Dient zum Anschluss des PoE oder Ethernet Kabels für die Netzwerkverbindung.	
<b>9</b> Micro SD-Speicherkartenfach	Fach für die Micro SD-Speicherkarte.	
<b>10</b> Zoom-Schalthebel (QNV-6072R1)	T	Vergrößern (Tele)
	W	Verkleinern (breit)
	Lösen Sie den Hebel und bewegen Sie ihn nach links oder rechts, um die Linse rein- oder rauszuzoomen. Drehen Sie den Hebel im Uhrzeigersinn, um die angepasste Position zu fixieren und eine Verschiebung zu verhindern.	
<b>11</b> Schalthebel für Bildschärfe (QNV-6072R1)	N	Scharfeinstellung eines nahen Objekts (nah)
	F	Scharfeinstellung eines entfernten Objekts (fern)
	Lösen Sie den Hebel und bewegen Sie ihn nach links oder rechts, um den Linsenfokus anzupassen. Drehen Sie den Hebel im Uhrzeigersinn, um die angepasste Position zu fixieren und eine Verschiebung zu verhindern.	

Bezeichnung	Beschreibung	
<b>12</b> Zoom-/Fokusregler-Schaltfläche (QNV-6082R1)	T	Vergrößern (Tele)
	W	Verkleinern (breit)
	N	Scharfeinstellung eines nahen Objekts (nah)
	F	Scharfeinstellung eines entfernten Objekts (fern)
	Fokusregler	Diese Schaltfläche für die automatische Fokusreglung drücken.

※ **4** AUDIO IN – unterstützt keine Audio-Funktion.

## INSTALLATION (QND-6012R1/6022R1/6032R1/6072R1/6082R1)

### Bevor Sie mit der Installation beginnen

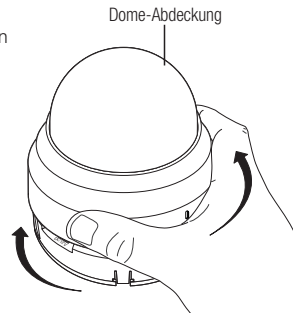
Bitte lesen Sie die folgenden Anweisungen, bevor Sie die Kamera installieren:

- Sie muss an einer Stelle (Decke oder Wand) installiert werden, die fünf (5) Mal das Gewicht der Kamera zusammen mit der Halterung 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.

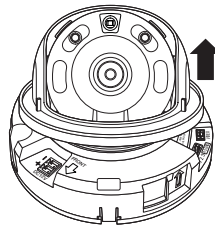
### Demontage

1. Um sie zu trennen den Kameraboden mit einer Hand halten und mit der anderen Hand den Kameradeckel gegen den Uhrzeigersinn drehen.

- ! ■ Berühren Sie nicht den durchsichtigen Teil der Kuppelabdeckung, sobald die Schutzfolie entfernt wurde.

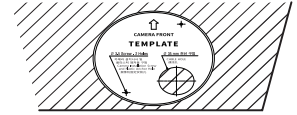


2. Den inneren Deckel heben, um sie zu trennen.

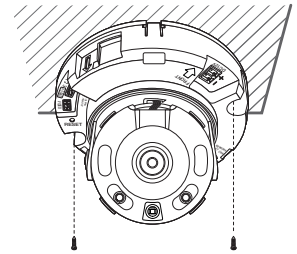


### Installation

1. Ziehen Sie die zu überwachende Richtung in Erwägung, befestigen Sie die Schablone und bohren Sie Löcher, indem Sie nach der Schablone verfahren.



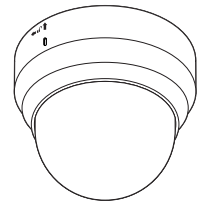
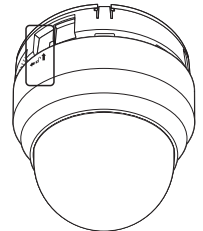
2. Bringen Sie die Kamera mithilfe von 2 Blechschrauben in den beiden Löchern, die mit einer Schablone gebohrt wurden, an.
  - Die < > Markierung, die auf der Kamera aufgedruckt ist, so festlegen, dass sie der Kamerarichtung zur Überwachung gegenüberliegt.
3. Das kamerainterne Terminal mit dem entsprechenden Kabel verbinden.
4. Stellen Sie das Objektiv in eine gewünschte Richtung ein, indem Sie den Abschnitt „Überwachungsrichtung der Kamera einstellen“ nachsehen. (Seite 24)



- ! ■ Wir empfehlen, die Kameralinse nicht zu berühren, da diese während der Herstellung korrekt fokussiert wurde. Falls Sie sie berühren, kann der Fokus der Linse verändert oder diese verunreinigt werden.

5. Bitte schließen Sie die innere Decke an den Hauptteil an.
6. Während Sie die Unterseite der Kamera mit der Hand greifen, bitte drücken Sie ihre Abdeckung mit der anderen Hand, so dass sie mit den zwei Pfeil-Symbolen ausgerichtet wird, wie es in der Abbildung angezeigt wird.

- ! ■ Um den Domdeckel zu montieren, stellen Sie die Pfeile aufeinander und drücken Sie die Abdeckung fest. Wenn das Kuppelgehäuse während des Zusammenbaus gedreht oder falsch zusammengebaut wird, kann es vorkommen, dass eine diffuse Reflexion auftritt oder die Linsensektion sich dreht, wodurch sich die Aufnahmereichweite ändern kann.
- Stellen Sie sicher, dass die Kuppelabdeckung korrekt mit dem unteren Teil verbunden ist, wie in der Abbildung angezeigt. Wenn der Schnapphaken nicht korrekt eingerastet ist, könnte die Kuppelabdeckung herunterfallen. Dies könnte zu einer Verletzung führen.



## INSTALLATION (QNO-6012R1/6022R1/6032R1/6072R1/6082R1)

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

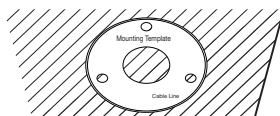
### Bevor Sie mit der Installation beginnen

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

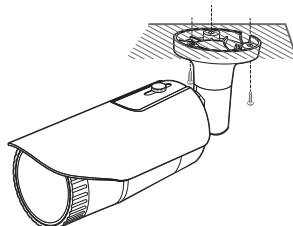
- Sie muss an einer Stelle (Decke oder Wand) installiert werden, die fünf (5) Mal das Gewicht der Kamera zusammen mit der Halterung tragen kann.
- Verklemmte Kabel oder ein abgelöster Kabelschutz können zu Schäden an dem Produkt und Brandgefahr führen.
- Halten Sie aus Sicherheitsgründen andere Personen von dem Ort der Kamerainstallation fern. Achten Sie darauf, dass sich in der Nähe der Kamerainstallation keine Gegenstände des Personals befinden.
- Sonnenschutzloch nicht für andere Zwecke als zum Anschließen der Sonnenblende verwenden.
- Für die manuelle, variable Fokus-Objektiv-Kamera müssen Funktionen, wie z.B. Fokus und Zoom, vor der Installation angepasst werden. Bei Anpassung dieser stellen Sie sicher, dass sich keine fremdartigen Materialien anhaften.

### Installation

1. Ziehen Sie die zu überwachende Richtung in Erwägung, befestigen Sie die Schablone und bohren Sie Löcher, indem Sie nach der Schablone verfahren.

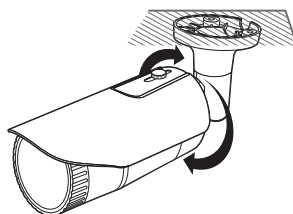


2. Setzen Sie die 3 Blechschrauben in die 3 Löcher ein und ziehen Sie sie fest, um die Kamera zu sichern.
3. Die entsprechenden Kabel mit den Kameraanschlüssen verbinden.



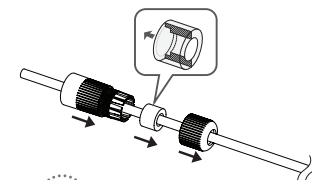
4. Die Kamerarichtung mit dem gelieferten L-Schraubenschlüssel einstellen.

- ! 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.

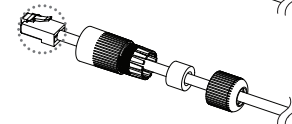


### So verbinden Sie das wasserdichte RJ45-Kabel mit einem LAN-Kabel

1. Schieben Sie es in Pfeilrichtung durch.

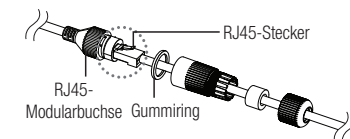


2. Verbinden Sie den LAN-Stecker mit dem Kabel.

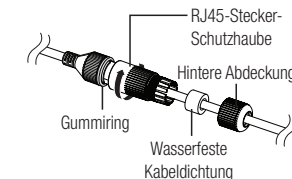


3. Verbinden Sie die RJ45-Modularbuchse mit dem RJ45-Stecker.

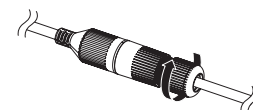
- ! Halten Sie bitte jeden Teil getrennt voneinander.



4. Montieren durch Drehen der RJ45-Modularbuchse und der Schutzklappe im Uhrzeigersinn (dem Pfeil folgen).



5. Montieren durch Drehen der RJ45-Schutzhaube und der hinteren Abdeckung im Uhrzeigersinn (dem Pfeil folgen). e hintere Abdeckung montiert, wird die wasserfeste Dichtung des Kabels fest an dem Kabel angebracht, damit das Kabel wasserdicht ist.

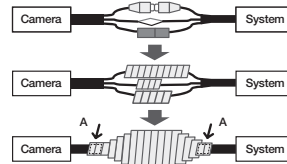


- ! Sie müssen es vollständig montieren, um die hintere Abdeckung bis zum Ende des Gewindes des RJ45-Steckers zu drehen.

## Einbau im Außenbereich

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

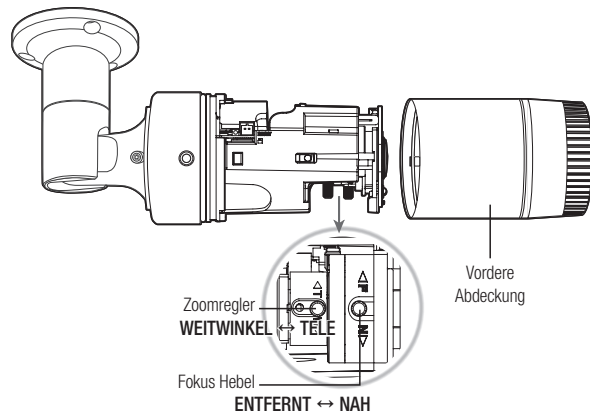
1. Die Stromversorgungs-, I/O- und LAN-Kabel anschließen.
2. Die schwarze Kabelummantelung (Bereich A) und den Kabelanschlussbereich mit dem wasserundurchlässigen (Butylisoler-) Band so umwickeln, dass mehr als die Hälfte des Butylisolerbandes überlappt wird.



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

## Für die einstellung des zoomfaktors oder der bildschärfe (QNO-6072R1)

1. Die vordere Abdeckung wie dargestellt abnehmen.
2. Den Zoom/Fokus Hebel vorsichtig lösen.
3. Den Zoom/Fokus Hebel auf WEITWINKEL (NAH) oder entsprechend TELE (ENTFERNT) einstellen.
4. Anschließend den Zoom/Fokus Hebel festziehen, um die eingestellte Position fest einzustellen.
5. Durch Drehen die vordere Abdeckung befestigen.



- ! Um die Wasserdichtigkeit zu gewährleisten, die vordere Abdeckung bis zum Anschlag drehen. Wenn die Frontklappe zusammengefügt wird, bitte den Hauptkörper und die Frontklappe zusammensetzen, damit der Sperrindikator verriegelt ist.
- Mit Hilfe des Hebels den Zoomfaktor oder die Bildschärfe einstellen und den Hebel im Uhrzeigersinn drehen, um ihn zu fixieren.
- Bevor der Zoomfaktor oder die Bildschärfe des Objektivs eingestellt werden kann, die vordere Abdeckung lösen und entfernen.

## INSTALLATION (QNV-6012R1/6022R1/6032R1)

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

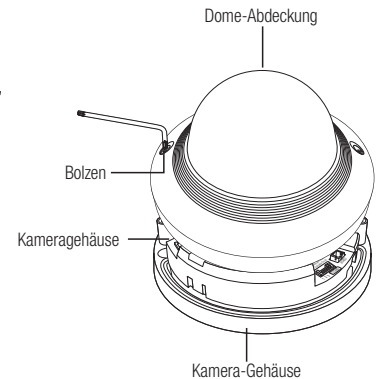
### Bevor Sie mit der Installation beginnen

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

- Sie muss an einer Stelle (Decke oder Wand) installiert werden, die fünf (5) Mal das Gewicht der Kamera zusammen mit der Halterung tragen kann.
- Verklebte Kabel oder ein abgelöster Kabelschutz können zu Schäden an dem Produkt und Brandgefahr führen.
- Halten Sie aus Sicherheitsgründen andere Personen von dem Ort der Kamerainstallation fern. Achten Sie darauf, dass sich in der Nähe der Kamerainstallation keine Gegenstände des Personals befinden.

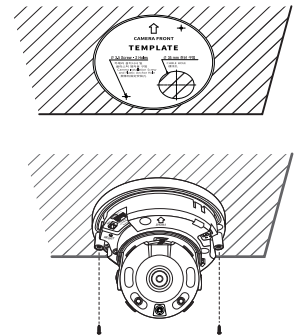
### Demontage

1. Mit dem mitgelieferten Torx L-Schlüssel die 2 Befestigungsschrauben gegen den Uhrzeigersinn drehen, um die Abdeckung zu entfernen.



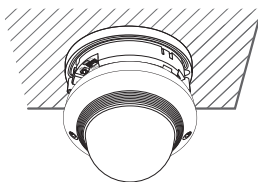
### Installation

1. Ziehen Sie die zu überwachende Richtung in Erwägung, befestigen Sie die Schablone und bohren Sie Löcher, indem Sie nach der Schablone verfahren.
2. Bringen Sie die Kamera mithilfe von 2 Blechschrauben in den beiden Löchern, die mit einer Schablone gebohrt wurden, an.
  - Die < > Markierung, die auf der Kamera aufgedruckt ist, so festlegen, dass sie der Kamerarichtung zur Überwachung gegenüberliegt.
3. Das kamerainterne Terminal mit dem entsprechenden Kabel verbinden.
4. Stellen Sie das Objektiv in eine gewünschte Richtung ein, indem Sie den Abschnitt „Überwachungsrichtung der Kamera einstellen“ nachsehen. (Seite 24)



## 5. Die Dome-Abdeckung schließen.

- Die Befestigungsschraube mit einem Torx L-Schlüssel fest anziehen, um zu verhindern, dass Wasser eintritt.

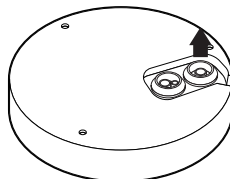


## Anschließen des LAN-Kabels

### 1. Die Dome-Abdeckung und den Behälter entfernen.

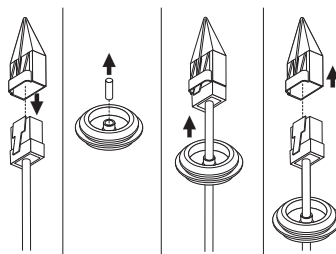
### 2. Ziehen Sie die Kabeleinführung an der Unterseite, wie abgebildet, heraus.

- ! Eine geeignete Kabeltülle zum Verbinden des LAN-Kabels verwenden.
  - Basiskamera : Das Kabel mit dem Durchmesser 5-6,5 verwenden



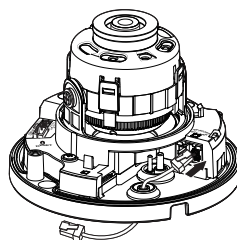
### 3. Ziehen Sie das Spritzteil der mitgelieferten einfachen Einführung ab.

### 4. Verwenden Sie den Kappen-Installierer, um das LAN-Kabel durch die Kabeleinführung zu führen.



### 5. Führen Sie das LAN-Kabel durch die Öffnung, die nach Abzug der Kabeleinführung in Schritt 2 entstanden ist. Verbinden Sie es anschließend mit dem Ethernet-Anschluss.

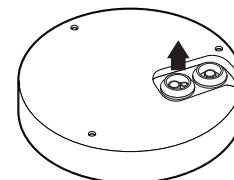
### 6. Führen Sie die Einführung des LAN-Kabels in die Öffnung ein.



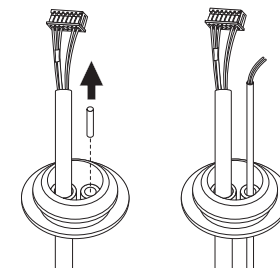
## Anschluss der Alarm- und Stromversorgungskabel

### 1. Die Dome-Abdeckung und den Behälter entfernen.

### 2. Ziehen Sie die Kabeleinführung an der Unterseite, wie abgebildet, heraus.



### 3. Das kleine extrudierte Teil an der Einführung des Alarmskabels abziehen und das Stromversorgungskabel durch die Durchführung führen.



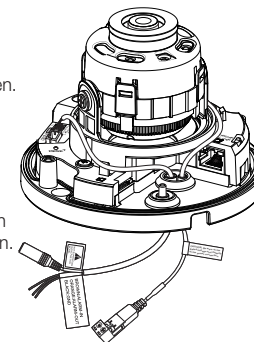
### 4. Das Alarmskabel durch das Loch führen, das nach dem Entfernen der Kabeldurchführung in Schritt 2 entstanden ist. Jeweils am Alarm-Klemmenblock bzw. Versorgungs-Klemmenblock der Platine anschließen.

### 5. Hängen Sie die Kabel bei der Anbringung der Kamera an den festen Haken, um zu verhindern, dass die Kabel beschädigt oder gequetscht werden.

### 6. Die Kabeldurchführung des Alarmskabels in das Loch einsetzen.

### 7. Stellen Sie das Objektiv in eine gewünschte Richtung ein, indem Sie den Abschnitt „Überwachungsrichtung der Kamera einstellen“ nachsehen. (Seite 24)

### 8. Befestigen Sie die Dome-Abdeckung.





## INSTALLATION (QNV-6072R1/6082R1)



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

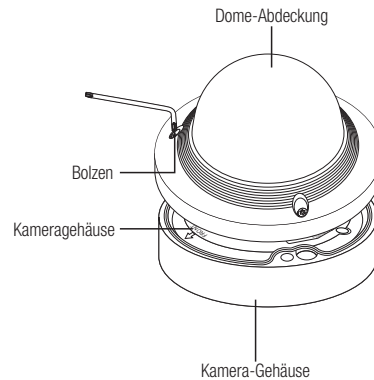
### Bevor Sie mit der Installation beginnen

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

- Sie muss an einer Stelle (Decke oder Wand) installiert werden, die fünf (5) Mal das Gewicht der Kamera zusammen mit der Halterung 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.
- Für die manuelle, variable Fokus-Objektiv-Kamera müssen Funktionen, wie z.B. Fokus und Zoom, vor der Installation angepasst werden. Bei Anpassung dieser stellen Sie sicher, dass sich keine fremdartigen Materialien anhaften.

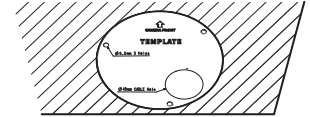
### Demontage

1. Mit dem mitgelieferten Torx L-Schlüssel die 3 Befestigungsschrauben gegen den Uhrzeigersinn drehen, um die Abdeckung zu entfernen.

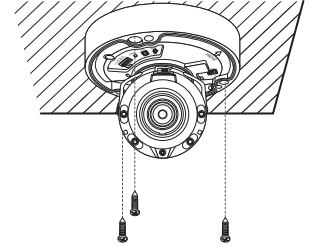


### Installation

1. Ziehen Sie die zu überwachende Richtung in Erwägung, befestigen Sie die Schablone und bohren Sie Löcher, indem Sie nach der Schablone verfahren.

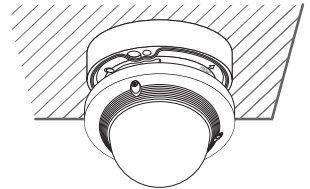


2. Bringen Sie die Kamera mithilfe von 3 Blechschrauben in den drei Löchern, die mit einer Schablone gebohrt wurden, an.
  - Die <↑> Markierung, die auf der Kamera aufgedruckt ist, so festlegen, dass sie der Kamerarichtung zur Überwachung gegenüberliegt.
3. Das kamerainterne Terminal mit dem entsprechenden Kabel verbinden.
4. Stellen Sie das Objektiv in eine gewünschte Richtung ein, indem Sie den Abschnitt „Überwachungsrichtung der Kamera einstellen“ nachsehen. (Seite 24)



- Für die manuelle, variable Fokus-Objektiv-Kamera müssen Funktionen, wie z.B. Fokus und Zoom, vor der Installation angepasst werden. Bei Anpassung dieser stellen Sie sicher, dass sich keine fremdartigen Materialien anhaften.

5. Die Dome-Abdeckung schließen.
  - Die Befestigungsschraube mit einem Torx L-Schlüssel fest anziehen, um zu verhindern, dass Wasser eintritt.

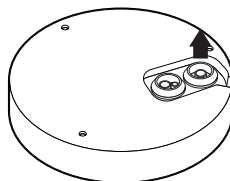


## Anschließen des LAN-Kabels

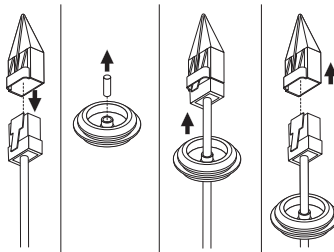
1. Die Dome-Abdeckung und den Behälter entfernen.
2. Ziehen Sie die Kabeleinführung an der Unterseite, wie abgebildet, heraus.



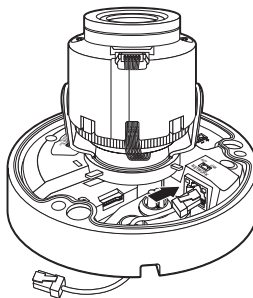
- Eine geeignete Kabeltülle zum Verbinden des LAN-Kabels verwenden.
- Basiskamera : Das Kabel mit dem Durchmesser 5-6,5 verwenden.



3. Ziehen Sie das Spritzteil der mitgelieferten einfachen Einführung ab.
4. Verwenden Sie den Kappen-Installierer, um das LAN-Kabel durch die Kabeleinführung zu führen.

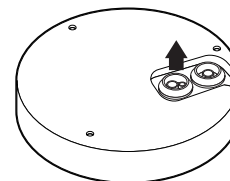


5. Führen Sie das LAN-Kabel durch die Öffnung, die nach Abzug der Kabeleinführung in Schritt 2 entstanden ist. Verbinden Sie es anschließend mit dem Ethernet-Anschluss.
6. Führen Sie die Einführung des LAN-Kabels in die Öffnung ein.

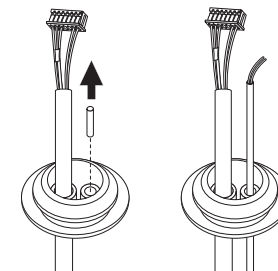


## Anschluss der Alarm- und Stromversorgungskabel

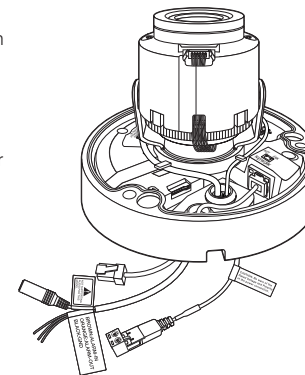
1. Die Dome-Abdeckung und den Behälter entfernen.
2. Ziehen Sie die Kabeleinführung an der Unterseite, wie abgebildet, heraus.



3. Das kleine extrudierte Teil an der Einführung des Alarmskabels abziehen und das Stromversorgungskabel durch die Durchführung führen.



4. Das Alarmskabel durch das Loch führen, das nach dem Entfernen der Kabeldurchführung in Schritt 2 entstanden ist. Jeweils am Alarm-Klemmenblock bzw. Versorgungs-Klemmenblock der Platine anschließen.
5. Hängen Sie die Kabel bei der Anbringung der Kamera an den festen Haken, um zu verhindern, dass die Kabel beschädigt oder gequetscht werden.
6. Die Kabeldurchführung des Alarmskabels in das Loch einsetzen.
7. Stellen Sie das Objektiv in eine gewünschte Richtung ein, indem Sie den Abschnitt „Überwachungsrichtung der Kamera einstellen“ nachsehen. (Seite 24)
8. Befestigen Sie die Dome-Abdeckung.



## Anbindung an den entbündelten Anschluss

Wählen Sie eine der Optionen (entbündelt) aus und kaufen Sie was für den Ort der Installation oder Ihr Komfort notwendig ist.

1. Die Dome-Abdeckung vom Behälter entfernen, wir verweisen diesbezüglich auf den Abschnitt **„Demontage“**. (Seite 21)
2. Verwenden Sie die Maschinenschraube, um das Kameragehäuse am ungebündelten Adapter zu befestigen.
3. Verbinden Sie und ordnen Sie die benötigten Kabel sorgfältig, andernfalls werden sie während der Installation beschädigt oder verdreht.
4. Installieren Sie das Kameragehäuse in umgekehrter Reihenfolge der **„Demontage“**.
5. Stellen Sie das Objektiv in eine gewünschte Richtung ein, indem Sie den Abschnitt **„Überwachungsrichtung der Kamera einstellen“** nachsehen. (Seite 23)
6. Die Dome-Abdeckung schließen.
  - Die Befestigungsschraube mit einem Torx L-Schlüssel fest anziehen, um zu verhindern, dass Wasser eintritt.

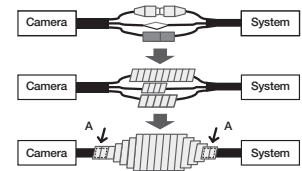
## Einbau im Außenbereich

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

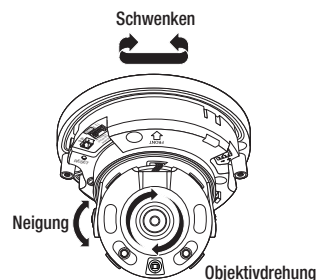
1. Die Stromversorgungs-, I/O- und LAN-Kabel anschließen.
2. Die schwarze Kabelummantelung (Bereich A) und den Kabelanschlussbereich mit dem wasserundurchlässigen (Butylisoler-) Band so umwickeln, dass mehr als die Hälfte des Butylisolerbandes überlappt wird.



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



## Überwachungsrichtung der Kamera einstellen (QND-6012R1/6022R1/6032R1/ 6072R1/6082R1, QNV-6012R1/6022R1/6032R1/6072R1/6082R1)



### Anpassen der Überwachungsrichtung

Sie können die Richtung der Kamera nur einstellen, wenn die Kamera an der Decke befestigt ist. Wobei das Drehen der Kamera nach links oder rechts Schwenken, die Einstellung der Neigung Neigen und das Drehen des Objektivs um seine Achse Drehen genannt wird.

- Der effektive Pan-Bereich ist insgesamt 350° Grad.
- Der effektive Rotationsbereich ist insgesamt 355° Grad.
- Der effektive Neigebereich ist insgesamt 67° Grad.

- !**
- Das Bild kann, je nach Winkel, von der Kameratasche abgedeckt werden.
  - Das Fokus-/Zoom-Objektiv nicht gewaltsam drehen, nachdem das Objektivgehäuse auseinandermontiert wurde. Ansonsten kann es aufgrund eines Motorfehlers zu einer unkorrekten Bildscharfeinstellung kommen.

### Anpassungsmethode

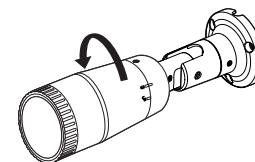
1. Nach der Installation der Kamera stellen Sie den Schwenkwinkel so ein, dass die Überwachungsrichtung berücksichtigt wird.
2. Den horizontalen Winkel so festlegen, dass das Bild nicht umgedreht ist.
3. Stellen Sie danach den Neigungswinkel so ein, dass die Kamera die Überwachungsrichtung blickt.

## EINLEGEN/HERAUSNEHMEN EINER MICRO SD-SPEICHERKARTE

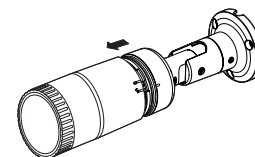
- !**
- Das Netzkabel von der Kamera abtrennen, bevor die Micro SD-Speicherkarte eingelegt wird.
  - Die Micro SD-Speicherkarte nicht mit Gewalt einlegen. Prüfen, ob die Karte richtig herum eingelegt wird. Ansonsten kann die Micro SD-Speicherkarte beschädigt werden.
  - Bei Regen oder hoher Luftfeuchtigkeit empfiehlt es sich nicht, die Micro-SD-Karte einzulegen oder zu entfernen.
  - Der Ausbau des Produktdeckels sollte innerhalb von 5 Minuten abgeschlossen sein, sonst besteht die Gefahr der Innenkondensation von Tau.

### Einlegen einer Micro SD-Speicherkarte (QNO-6012R1/6022R1/6032R1/6072R1/ 6082R1)

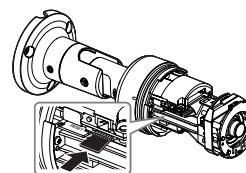
1. Drehen Sie das vordere Gehäuse in die Richtung LÖSEN [↺].



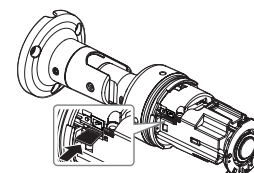
2. Vordere Abdeckung ziehen und abnehmen.



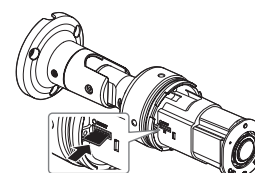
3. Eine Micro-SD-Karte in Pfeilrichtung einlegen, siehe Abbildung.



<QNO-6012R1/6022R1/6032R1>



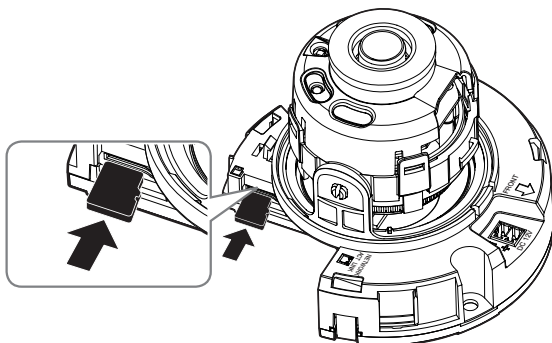
<QNO-6072R1>



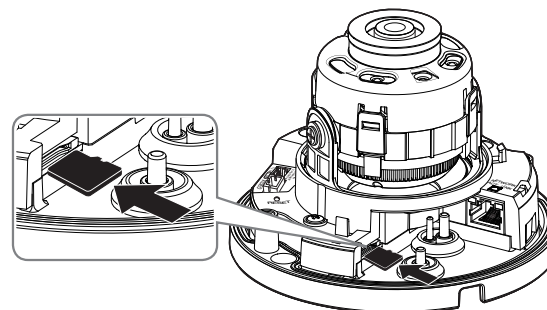
<QNO-6082R1>

## Einlegen einer Micro SD-Speicherkarte (QND-6012R1/6022R1/6032R1/6072R1/6082R1, QNV-6012R1/6022R1/6032R1/6072R1/6082R1)

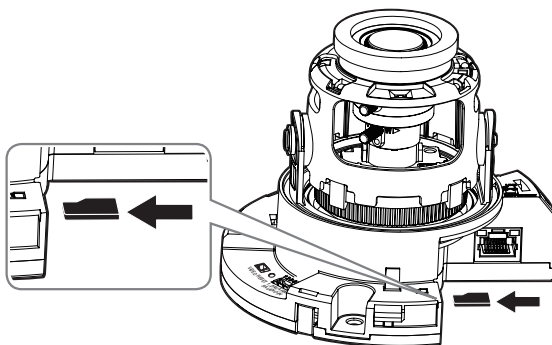
1. Den Domedeckel von der Kamera entfernen.
2. Eine Micro-SD-Karte in Pfeilrichtung einlegen, siehe Abbildung.



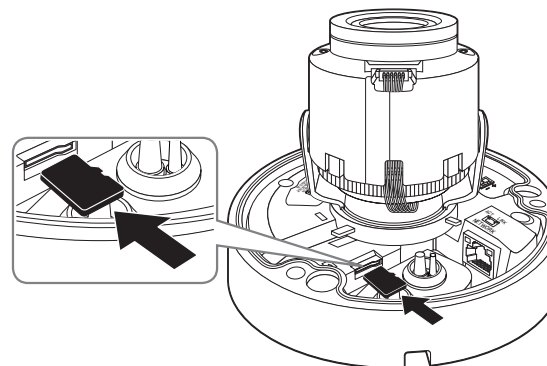
<QND-6012R1/6022R1/6032R1>



<QNV-6012R1/6022R1/6032R1>



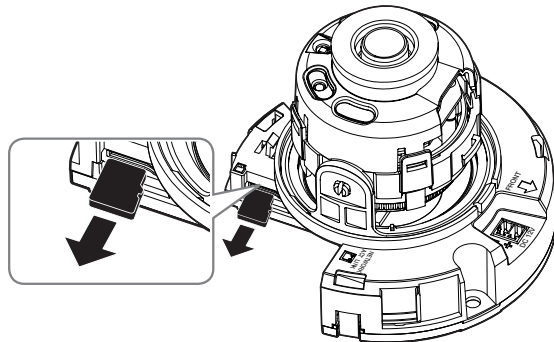
<QND-6072R1/6082R1>



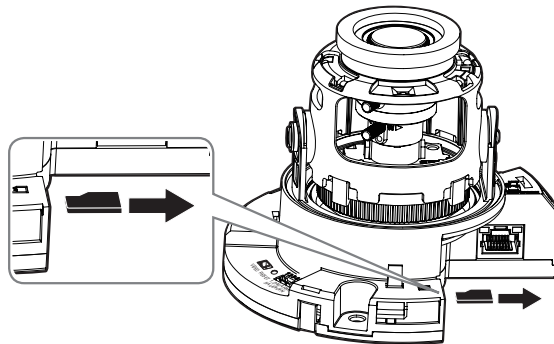
<QNV-6072R1/6082R1>

## Herausnehmen einer Micro SD-Speicherkarte

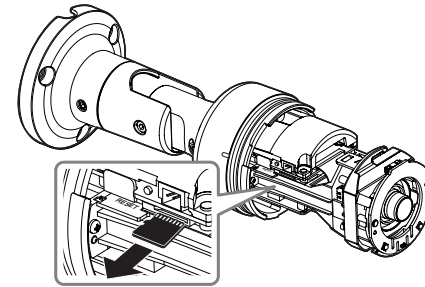
Drücken Sie leicht am ungeschützten Ende der Speicherkarte, wie im Schaubild zu sehen, um die Speicherkarte aus dem Steckplatz auszuwerfen.



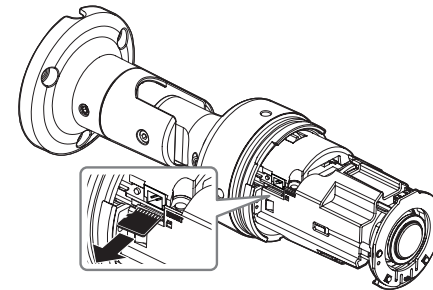
<QND-6012R1/6022R1/6032R1>



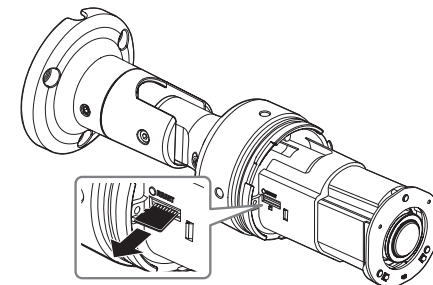
<QND-6072R1/6082R1>



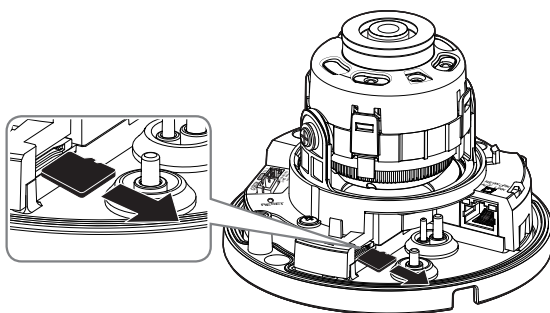
<QNO-6012R1/6022R1/6032R1>



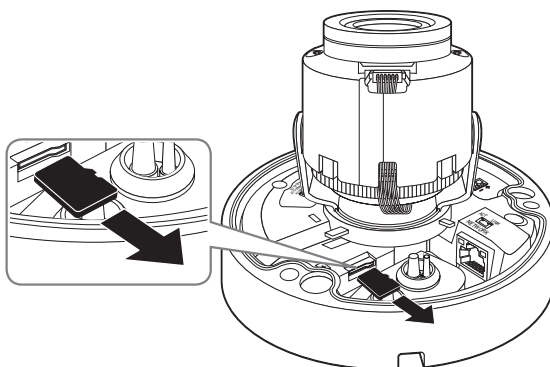
<QNO-6072R1>



<QNO-6082R1>



<QNV-6012R1/6022R1/6032R1>



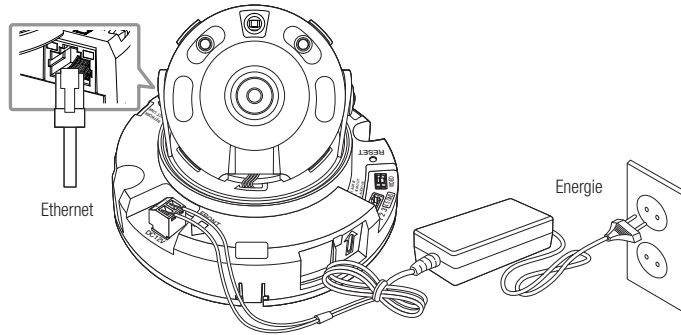
<QNV-6072R1/6082R1>

- Bevor Sie die Micro SD-Karte im <Setup (⚙️)>-<Ereignis>-<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-Karte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

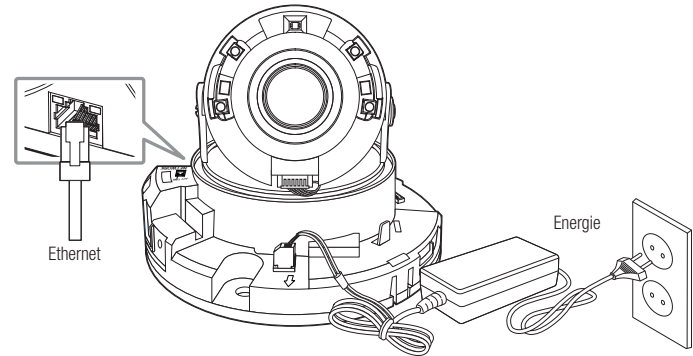
## STROMVERSORGUNG UND VERNETZUNG



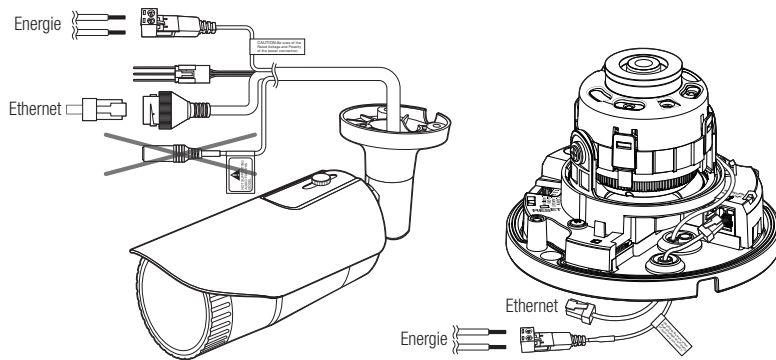
- Bevor Sie den 12V-Netzstecker in die Steckdose stecken, montieren Sie zuerst den Klemmenblock.



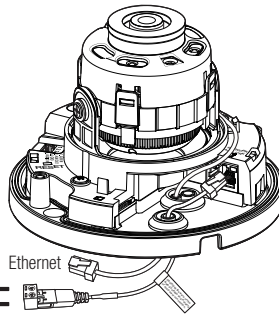
<QND-6012R1/6022R1/6032R1>



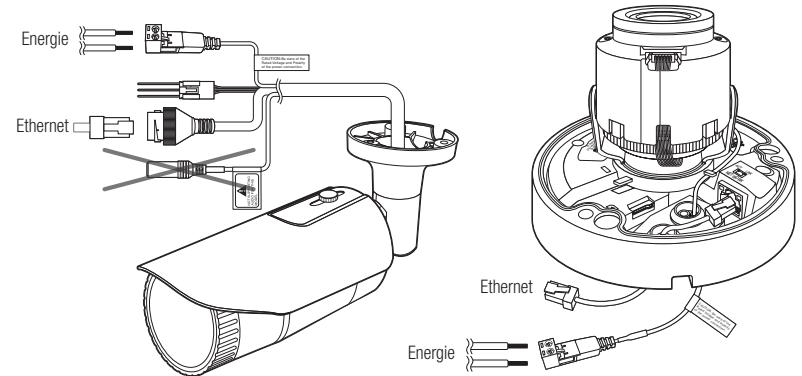
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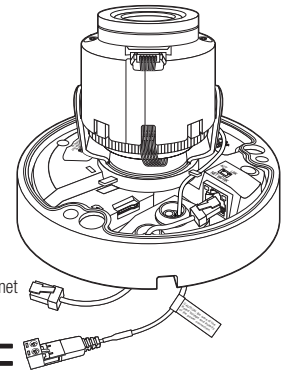
<QNO-6012R1/6022R1/6032R1>



<QNV-6012R1/6022R1/6032R1>



<QNO-6072R1/6082R1>



<QNV-6072R1/6082R1>



## Ethernet-Verbindung

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

## Stromversorgung.

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

- Wenn sowohl PoE als auch 12 V DC gleichzeitig genutzt werden, wird das Produkt mit 12 V DC versorgt.
  - Es kann ebenfalls ein Router mit PoE Funktion für die Stromversorgung der Kamera verwendet werden.
  - Verwenden Sie PoE, das mit den IEEE 802.3af Protokollen kompatibel ist.
  - Es wird empfohlen, nur entweder die PoE oder 12 V Gleichstrom Stromversorgung zu verwenden.
- 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.

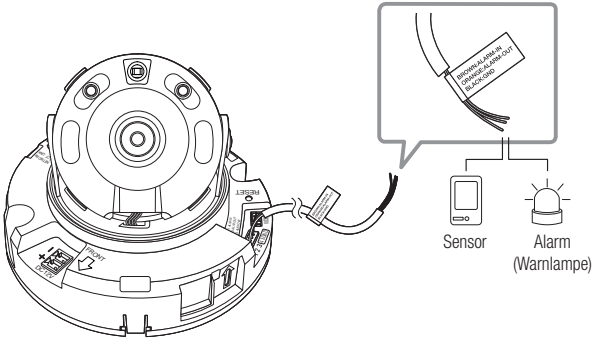
## Netzwerkabel-Spezifikation

Artikel	Inhalte	Anmerkung
Stecker	RJ45	
Ethernet	10/100BASE-T	10/100 Mbps
Kabel	Kategorie 5e	
Max. Entfernung	100M	Gleichstromwiderstand $\leq 0,125 \Omega/m$
PoE Support	IEEE 802.3af	

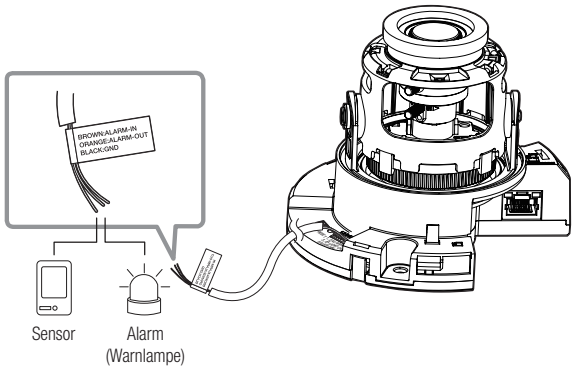
- Wenn Sie kein Kabel der 5e-Kategorie verwenden, ist eine Übertragungsdistanz von 100 m nicht garantiert.

## I/O-Anschlüsse

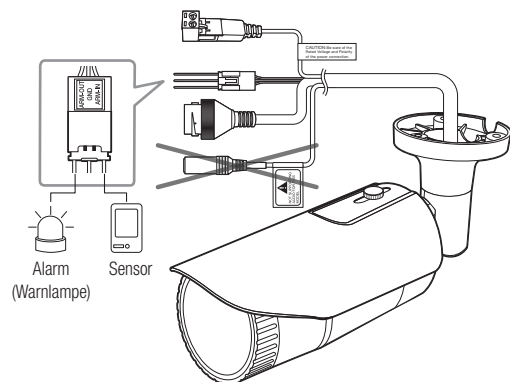
Verbinden Sie das Alarm-E/A-Kabel mit dem entsprechenden Port der Portbox.



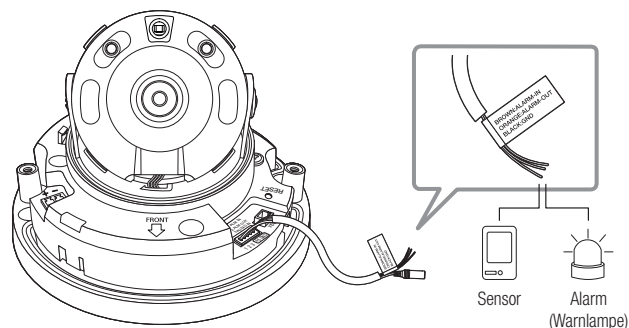
<QND-6012R1/6022R1/6032R1>



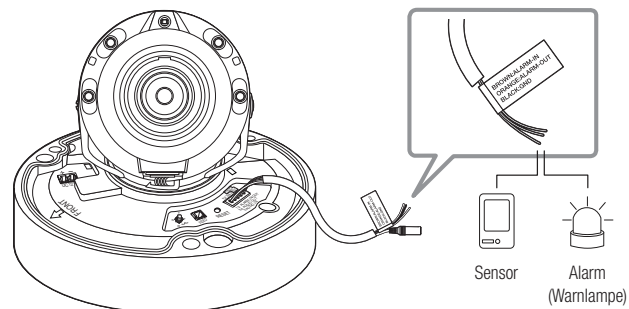
<QND-6072R1/6082R1>



<QN0-6012R1/6022R1/6032R1/6072R1/6082R1>



<QNV-6012R1/6022R1/6032R1>



<QNV-6072R1>

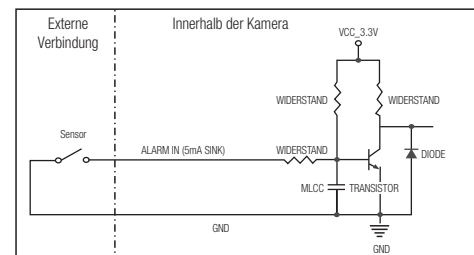
- **ALARM-IN** : Wird verwendet, um den Alarm-Eingang-Sensor oder den externen Tag-/Nachtsensor zu verbinden.
- **ALARM-OUT** : Anschluss für Audioeingang.
- **GND** : Gemeinsamer Port für Alarmeingang-/Alarmausgang-Signal.

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

## Anschließen des externen Sensors

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

## Alarm im Schaltplan

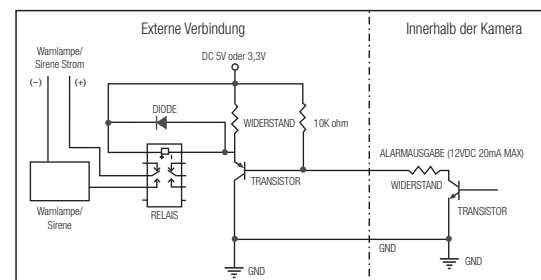


## Zum Verbinden der Alarmausgabe

Wenn Geräte (z.b. Blinklichter und Sirene), die die Spannungs- und Stromspezifikation überschreiten, mithilfe eines Open-Kollektors angeschlossen werden, kann es zu Funktionsstörungen kommen.

Sehen Sie sich den Alarmausgabe-Verbindungsschaltplan unten an, wenn Sie Geräte verbinden, die die Spannungs- und Stromspezifikationen überschreiten.

## Schaltplan Alarmausgabe

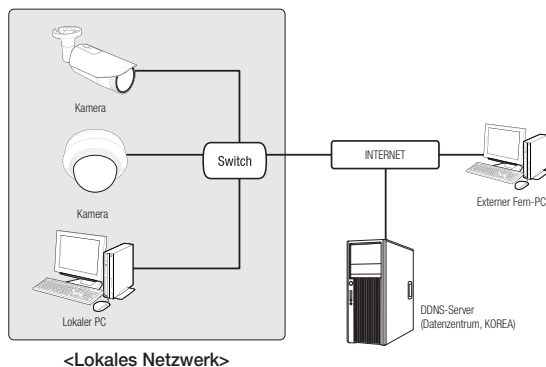


Sie können die Netzwerkeinstellungen gemäß Ihrer Netzwerkkonfigurationen einrichten.

## DIREKTES VERBINDEN DER KAMERA AN DAS LAN

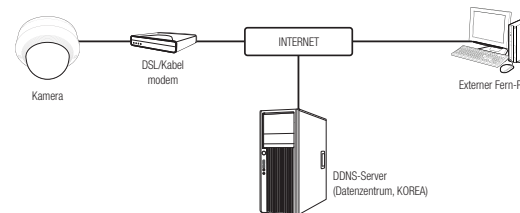
### Anschluss an die Kamera von einem lokalen PC im LAN

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



- Ein Fern-PC in einem externen Internetausgang des LAN Netzwerks kann eventuell die im Intranet installierte Kamera nicht ansteuern, wenn die Portweiterleitung nicht korrekt festgelegt oder eine Firewall eingestellt ist. Wenden Sie sich in dem Fall zur Lösung des Problems an Ihren Netzwerkadministrator.
- Standardmäßig wird die IP-Adresse vom DHCP-Server automatisch zugeteilt. Wenn keinen DHCP-Server verfügbar ist, wird die IP-Adresse auf 192.168.1.100 gesetzt. Zum Ändern der IP-Adresse den Device Manager verwenden. Für weitere Einzelheiten zur Verwendung des Device Manager, siehe „Verwenden des Device Manager“, (Seite 32)

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



1. Den Benutzer-PC direkt mit der Netzwerkkamera verbinden.
2. Den Device Manager aufrufen und die IP-Adresse der Kamera ändern, so dass es möglich ist, sich mit dem Web-Browser Ihres Desktops mit der Kamera zu verbinden.
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.

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

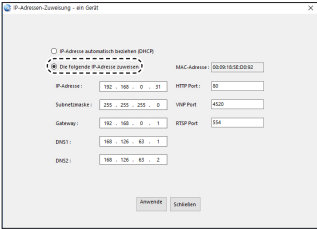
KONFIGURIEREN DER IP-ADRESSE

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.

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



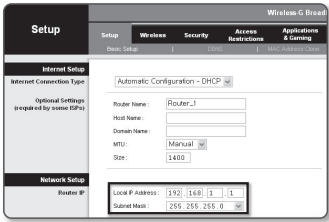
Wenn Sie keinen Breitband-Router verwenden

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 die Portweiterleitung des Breitband Routers, bitte unter **"Portbereichweiterleitung Konfigurieren (Port Mapping)"** nachschlagen. (Seite 34)

Wenn mehrere Kameras mit dem Breitband-Router verbunden sind

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

bsp)

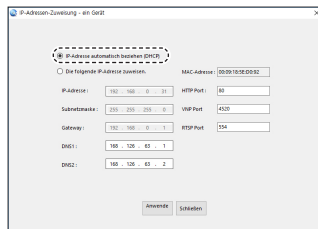
Kategorie		Kamera #1	Kamera #2
IP-Einstellungen	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Port-Einstellungen	HTTP Port	8080	8081
	RTSP Port	554	555

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

## Konfigurieren der dynamischen IP

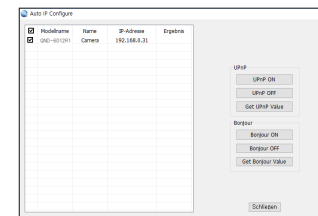
IP-Adresse vom DHCP-Server beziehen.

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



## AUTOMATISCHE KONFIGURATION DER IP

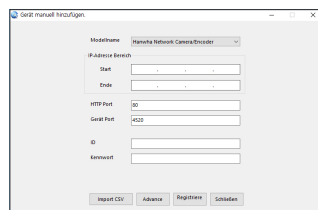
1. In der Liste auf die Kamera klicken, von der die IP automatisch konfiguriert werden soll.
2. Auf der Hauptseite des Device Manager auf **< + >** klicken.
  - Das Menü Equipment Setting erscheint.
3. Im Menü auf **<Auto IP Configure (Automatische IP-Konfiguration)>** klicken.
4. Auf die Schaltfläche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



## MANUELLES REGISTRIERUNG DER KAMERA

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

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

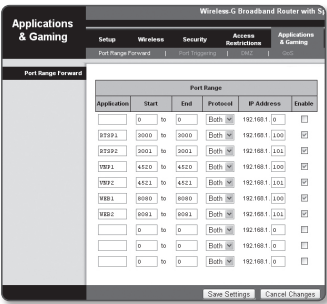


PORTBEREICHWEITERLEITUNG KONFIGURIEREN (PORT MAPPING)

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

Manuelle Portbereichweiterleitung

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

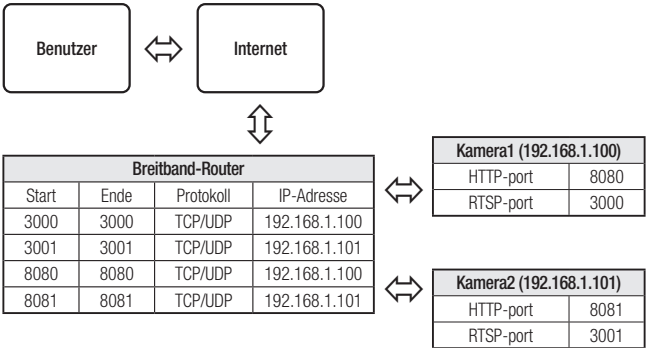


- Die Einstellung des Port-Forwarding wird am Beispiel der Einstellung eines CISCO IP-Routers gezeigt.
- Die Netzwerkeinstellungen können sich je nach Breitband-Routermodell unterscheiden. Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.

Einstellen des Portweiterleitungsbereichs für mehrere Netzwerkkameras

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

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



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

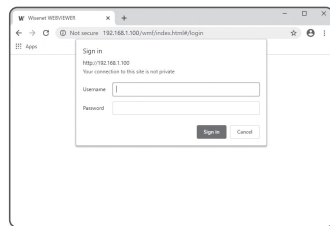


- Um DDNS zu verwenden, melden Sie sich auf der DDNS-Homepage an (<http://ddns.hanwha-security.com>) und registrieren Sie das Produkt unter **[Mein DDNS]>[Produkt registrieren]**.

## VERBINDUNG MIT DER KAMERA

### Sie würden, normalerweise

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



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

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

### URL Benutzen

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



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

### Verbindung über UPnP

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

### Verbindung über Bonjour

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

### So überprüfen Sie die DDNS-Adresse

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

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

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

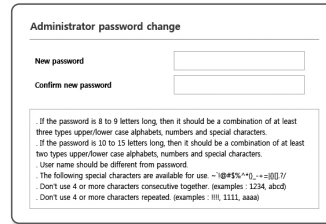
Um das Gerät auf dem <DDNS> Server zu registrieren, besuchen Sie bitte <http://ddns.hanwha-security.com>, registrieren Sie zuerst Ihr Gerät stellen Sie anschließend im Net Viewer unter <Netzwerk> - <DDNS> auf <DDNS> und geben Sie ebenfalls die <Produkt-ID> ein, die Sie bei der DDNS-Registrierung verwendet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



The dialog box is titled "Administrator password change". It contains two input fields: "New password" and "Confirm new password". Below these fields is a list of password requirements:

- If the password is 8 to 9 letters long, then it should be a combination of at least three types upper/lower case alphabets, numbers and special characters.
- If the password is 10 to 15 letters long, then it should be a combination of at least two types upper/lower case alphabets, numbers and special characters.
- User name should be different from password
- The following special characters are available for use: ~!@#%&\*^&#^\*()\_+={}|[]?/
- Don't use 4 or more characters consecutive together. (examples: 1234, abcd)
- Don't use 4 or more characters repeated. (examples: IIII, 1111, aaaa)

## 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 **[Sign in]**.  
Wenn Sie sich erfolgreich angemeldet haben, werden Sie den Live Viewer Bildschirm sehen.



The dialog box is titled "Sign in". It shows the URL "http://192.168.1.100" and a message "Your connection to this site is not private". It contains two input fields: "Username" and "Password". At the bottom right are two buttons: "Sign in" and "Cancel".

- Achten Sie beim Zugriff auf den Kamera-Webviewer besonders auf die Sicherheit, indem Sie nachprüfen ob die Bilddaten verschlüsselt sind.
- 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. Es ist möglich, die Einstellungen für die grundlegenden Informationen, Video, Netzwerk, Ereignis, Analyse und System der Kamera über das Netzwerk zu konfigurieren.
4. Klicken Sie auf **<Hilfe (ℹ)>** um detaillierte Beschreibungen jeder Funktion betrachten zu können.

## FEHLERSUCHE

PROBLEM	LÖSUNG
Wenn Sie unter Safari per HTML auf den Plug-in-freien Webviewer zugreifen, wird kein Video angezeigt.	<ul style="list-style-type: none"> <li>Bei dem ersten Zugriff auf HTTPS klicken Sie im Pop-up-Fenster zu Authentifizierung auf "Authentifizierungszertifikat anzeigen" und wählen Sie das Feld "Beim Verbinden zur IP des designierten Webviewers immer vertrauen" aus.</li> <li>Wenn im Webviewer weiterhin kein Video angezeigt wird, nachdem Sie im Nachrichtenfenster unten "Weiter" ausgewählt haben, klicken Sie auf die Befehlstaste + Q, um den Safari-Browser zu verlassen. Rufen Sie ihn dann erneut auf und folgen Sie den oben angegebenen Schritten.</li> </ul>
Ich kann von einem Webbrowser nicht auf die Kamera zugreifen.	<ul style="list-style-type: none"> <li>Überprüfen Sie, ob die Netzwerkeinstellungen der Kamera entsprechend sind.</li> <li>Kontrollieren Sie, ob alle Netzkabel korrekt angeschlossen wurden.</li> <li>Prüfen Sie bei einer Verbindung über DHCP, ob die Kamera dynamische IP-Adressen problemlos erhalten kann.</li> <li>Prüfen Sie, wenn die Kamera mit einem Breitband-Router verbunden ist, ob die Portweiterleitung korrekt konfiguriert ist.</li> </ul>
Der Viewer wurde während der Überwachung getrennt.	<ul style="list-style-type: none"> <li>Verbundene Viewer werden nach etwaigen Änderungen an der Kamera oder den Netzwerkkonfigurationen getrennt.</li> <li>Prüfen Sie alle Netzwerkverbindungen.</li> </ul>
Es wird kein Video angezeigt, wenn ich auf den Webviewer neu zugreife oder zum Client streamen.	<ul style="list-style-type: none"> <li>Die maximal verfügbare Profilanzahl ist 3. Die Verbindung kann unterbrochen werden, wenn Sie 4 oder mehr Profile nutzen. Beispiel) Wenn Sie auf MJPEG, H264 und H265 zugreifen und dann mit einem anderen Profil zugreifen, geht die Verbindung verloren.</li> </ul>
Die mit dem Netzwerk verbundene Kamera wird im Programm Device Manager nicht erkannt.	<ul style="list-style-type: none"> <li>Schalten Sie die Firewall-Einstellungen an Ihrem PC aus und suchen Sie dann die Kamera erneut.</li> </ul>
Die Bilder überlappen.	<ul style="list-style-type: none"> <li>Prüfen Sie, ob zwei oder mehr Kameras auf einer einzigen Multicast-Adresse anstelle verschiedener Adressen festgelegt sind. Wenn eine einzige Adresse für mehrere Kameras verwendet wird, können die Bilder überlappen.</li> </ul>
Es wird kein Bild eingeblendet.	<ul style="list-style-type: none"> <li>Wenn die Übertragungsmethode auf Multicast festgelegt ist, müssen Sie überprüfen, ob ein Router vorhanden ist der Multicast im LAN, an das die Kamera verbunden ist, unterstützt.</li> </ul>
<Bewegungserkennung> des <Analyse> ist auf <Aktivieren> eingestellt, doch haben mich keine E-Mails mit Benachrichtigungen erreicht, selbst wenn ein Analyse-Ereignis eingetreten ist.	<ul style="list-style-type: none"> <li>Überprüfen Sie die Einstellungen in der folgenden Reihenfolge: <ul style="list-style-type: none"> <li>A. Prüfen Sie die Einstellungen unter &lt;Datum &amp; Uhrzeit&gt;.</li> <li>B. Die &lt;Bewegungserkennung&gt; muss auf &lt;Aktivieren&gt; gestellt sein.</li> <li>C. Prüfen Sie, ob die Option &lt;E-mail&gt; im &lt;Ereigniseinrichtung&gt; Menü markiert ist.</li> </ul> </li> </ul>
Auf die Micro SD Speicherkarte kann nicht aufgenommen werden.	<ul style="list-style-type: none"> <li>Auf die SD-Speicherkarte kann nicht aufgenommen werden.</li> </ul>

PROBLEM	LÖSUNG
Die Micro SD Speicherkarte ist eingelegt, aber die Kamera funktioniert nicht richtig.	<ul style="list-style-type: none"> <li>Überprüfen Sie, ob die Speicherkarte richtig herum eingelegt wurde. Für diese Kamera kann nicht garantiert werden, dass eine Speicherkarte, die mit einem anderen Gerät formatiert wurde, reibungslos funktioniert.</li> <li>Formatieren Sie die Speicherkarte über das Menü &lt;Setup&gt; → &lt;Ereignis&gt; → &lt;Speicherkapazität&gt;.</li> </ul>
Kann nicht in NAS aufnehmen.	<ul style="list-style-type: none"> <li>Bestätigen Sie, dass die in NAS registrierten Informationen richtig sind.</li> </ul>
Meldet, dass die NAS-Einstellung fehlgeschlagen ist.	<ul style="list-style-type: none"> <li>Bestätigen Sie, dass die IP-Adresse des NAS gültig ist.</li> <li>Bestätigen Sie, dass die ID/dass Passwort des NAS gültig ist.</li> <li>Bestätigen Sie, dass Sie auf den als Basisordner bezeichneten Ordner mit der NAS-ID zugreifen können.</li> <li>Bestätigen Sie, dass die NAS SMB/CIFS-Punkte nicht angekreuzt sind.</li> <li>Bestätigen Sie, dass die NAS IP-Adresse und die Kamera-IP-Adresse dasselbe Format haben. Ex) Der Erstwert des NAS &amp; 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</li> <li>Prüfen Sie, ob Sie als ein anderer Benutzer ohne Formatierung des gespeicherten oder benutzten Basisordners zugreifen wollten.</li> <li>Bestätigen Sie, dass Sie empfohlene NAS-Ausrüstung benutzen.</li> </ul>

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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	
mtdd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdd-utils
mi-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	
zerocoinf	GPL 2.0	

### LGPL SW

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

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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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Component Name	License	URL
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Component Name	License	URL
zlib-1.2.8	zlib / libpng	<a href="http://zlib.net/">http://zlib.net/</a>

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



Hanwha Vision hat sich dem Schutz der Umwelt verpflichtet und wendet in allen Phasen des Produktherstellungsprozesses umweltfreundliche Verfahren an, um seinen Kunden umweltgerechtere Produkte zu liefern.

Das Eco-Gütesiegel ist ein Zeichen für die Absicht von Hanwha Vision, Produkte zu liefern, und zeigt an, dass die Produkte die RoHS-Richtlinie der EU erfüllen.



### Korrekte Entsorgung von Altgeräten (Elektroschrott)

(In den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Sammelsystem) Die Kennzeichnung auf dem Produkt, Zubehörteilen bzw. auf der dazugehörigen Dokumentation gibt an, dass das Produkt und Zubehörteile (z. B. Ladegerät, Kopfhörer, USB-Kabel) nach ihrer Lebensdauer nicht zusammen mit dem normalen Haushaltsmüll entsorgt werden dürfen. Entsorgen Sie dieses Gerät und Zubehörteile bitte getrennt von anderen Abfällen, um der Umwelt bzw. der menschlichen Gesundheit nicht durch unkontrollierte Müllbeseitigung zu schaden. Helfen Sie mit, das Altgerät und Zubehörteile fachgerecht zu entsorgen, um die nachhaltige Wiederverwertung von stofflichen Ressourcen zu fördern.

Private Nutzer wenden sich an den Händler, bei dem das Produkt gekauft wurde, oder kontaktieren die zuständigen Behörden, um in Erfahrung zu bringen, wo Sie das Altgerät bzw. Zubehörteile für eine umweltfreundliche Entsorgung abgeben können.

Gewerbliche Nutzer wenden sich an ihren Lieferanten und gehen nach den Bedingungen des Verkaufsvertrags vor. Dieses Produkt und elektronische Zubehörteile dürfen nicht zusammen mit anderem Gewerbemüll entsorgt werden.



### Korrekte Entsorgung der Batterien dieses Produkts

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Bitte helfen Sie, die natürlichen Ressourcen zu schützen und die nachhaltige Wiederverwertung von stofflichen Ressourcen zu fördern, indem Sie die Batterien von anderen Abfällen getrennt über Ihr örtliches kostenloses Altbatterie-Rücknahmesystem entsorgen.

