

NETZWERKKAMERA

Benutzerhandbuch

QNP-6230/QNP-6230H



Netzwerkamera

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 Missmanagement des Passworts ergeben verantwortlich.

WICHTIGE SICHERHEITSHINWEISE

1. Lesen Sie diese Anweisungen.
2. Bewahren Sie sie auf.
3. Beachten Sie alle Warnungen.
4. Befolgen Sie alle Anweisungen.
5. Verwenden Sie dieses Gerät nicht in der Nähe von Wasser.
6. Die verunreinigte Stelle auf der Produktoberfläche mit einem weichen, trockenen oder feuchten Tuch reinigen. (Keine Reinigungs- oder kosmetischen Mittel verwenden, die Alkohol, Lösungsmittel oder Ölbestandteile enthalten, da diese das Produkt deformieren oder schädigen können.)
7. Blockieren Sie keine Belüftungsöffnungen. Installieren Sie es gemäß den Herstelleranweisungen.
8. Installieren Sie das Gerät nicht in der Nähe von Wärmequellen wie beispielsweise von Radiatoren, Heizkörpern oder anderen Geräten (einschließlich Verstärkern), die Wärme erzeugen.
9. Bitte achten Sie darauf, die Schutzvorrichtung des gepolten bzw. geerdeten Steckers nicht zu beschädigen. Ein gepolter Stecker verfügt über zwei Stifte, von denen einer breiter als der andere ist. Ein geerdeter Stecker hat zwei Stifte und einen Erdungsstift. Der breite Stift oder der dritte Stift ist für Ihre Sicherheit vorgesehen. Wenn der vorgesehene Stecker nicht in Ihre Steckdose passt, wenden Sie sich an einen Elektriker, um die veraltete Steckdose austauschen zu lassen.
10. Schützen Sie das Netzkabel so, dass nicht darauf getreten wird, und dass es insbesondere an den Steckern oder passenden Steckdosen bzw. der Stelle, an der das Kabel das Gerät verlässt, nicht abgeklemmt wird.
11. Verwenden Sie nur die vom Hersteller angegebenen Zusatzgeräte/Zubehörteile.
12. Verwenden Sie für das Gerät nur Gestelle, Ständer, Stative, Konsolen und Tische, die vom Hersteller empfohlen oder in Verbindung mit dem Gerät verkauft werden. Bei Verwendung eines Transportwagens bewegen Sie das Gerät nur mit äußerster Vorsicht, um Verletzungen durch Umkippen zu vermeiden.
13. Trennen Sie das Gerät bei Gewitter oder längerer Abwesenheit vom Stromnetz.
14. Überlassen Sie alle Wartungsarbeiten qualifiziertem Kundendienstpersonal. Wartungsarbeiten sind erforderlich, wenn das Gerät in irgendeiner Weise beschädigt wurde, wie zum Beispiel ein beschädigtes Netzkabel oder Stecker, verschüttete Flüssigkeiten oder Gegenstände, die in das Gerät gefallen sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, nicht normal funktioniert oder fallen gelassen wurde.
15. Die Versorgung dieses Produkts ist nur durch eine Stromversorgungseinheit, „Klasse 2“ oder „LPS“, Leistung: 24 Vac(50 oder 60 Hz), min. 1,6 A oder PoE(42.5V ~ 57V), min 0,7 A. bestimmt. (QNP-6230)
16. Die Versorgung dieses Produkts ist nur durch eine Stromversorgungseinheit, „Klasse 2“ oder „LPS“, Leistung: 24 Vac(50 oder 60 Hz), min. 2,9 A oder PoE(42.5V ~ 57V), min 0,9 A. bestimmt. (QNP-6230H)
17. Installieren Sie die Kamera nicht senkrecht an einer Wand. Dies verursacht einen Neigungsausstieg.
18. 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.
19. 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.



20. 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.
21. 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.
22. Installation oder Verwendung des Produkts ins Wasser kann zu ernsthaften Schäden am Produkt führen.

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.

Die Motoren zum Schwenken/Neigen/Zoomen sowie der Gleitring haben eine Garantie von einem Jahr im Dauereinsatz.

VORSICHT

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

ERKLÄRUNG DER GRAPHISCHEN SYMBOLE



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



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

Klasse I nbauart

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

Akku

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

Der CVBS-Ausgang des Produkts wurde zur einfacheren Installation bereitgestellt und dient keinen Überwachungszwecken.

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.

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
- Unterstützte Betriebssystem : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12
- **Plug-in freier Web-Viewer**
Unterstützte Webbrowser: Google Chrome 63, MS Edge 41, Mozilla Firefox 57(Window 64bit unterstützt) , Apple Safari 11 (Mac OS X unterstützt)
- **Plug-in-Web-Viewer**
Unterstützte Webbrowser: MS Explore 11, Apple Safari 11 (Mac OS X unterstützt)

EMPFOHLENE TECHNISCHE DATEN FÜR MICRO SD/SDHC/SDXC SPEICHERKARTEN

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

EMPFOHLENE NAS-SPEZIFIKATIONEN

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

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



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

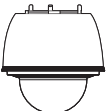
LIEFERUMFANG (QNP-6230)

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
	Kamera	1	
	Kurzanleitung (Optional)	1	
	Garantiekarte (Optional)	1	
	Testmonitor-Kabel	1	Wird zum Testen des Kameraanschlusses an ein tragbares Displaygerät verwendet
	Montagefuß	1	Bei der Installation in einem Innenraum oder in einem Deckengehäuse
	Selbstdrehende Schraube	4	Wird zum Einbau an der Decke verwendet
	Schablone	1	Installationsanleitung des Produkts
	Isolierungsplatte	1	Zu verwenden, wenn die Kamera an einer sehr feuchten Stelle angebracht wird.

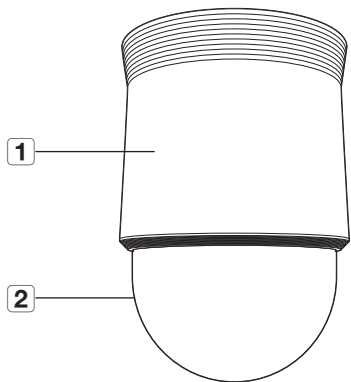
LIEFERUMFANG (QNP-6230H)

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

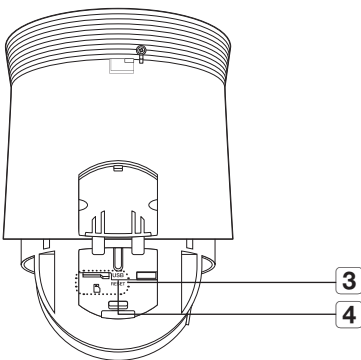
Produktdesign	Bezeichnung	Menge	Beschreibung
	Kamera	1	
	Kurzanleitung (Optional)	1	
	Garantiekarte (Optional)	1	
	Testmonitor-Kabel	1	Wird zum Testen des Kameraanschlusses an ein tragbares Displaygerät verwendet
	Sechskantschlüssel	1	Wird verwendet, um die Dome- Abdeckung zu entfernen und zu ersetzen
	Inbusschraube	3	Für die Befestigung der Kamera am Montagefuß.
	Montagefuß	1	Halterung für den Außenbereich
	Wasserfestes Zubehör	1	In Räumen mit hoher Luftfeuchtigkeit installieren und verwenden.

AUF EINEN BLICK (QNP-6230)

Aufbau

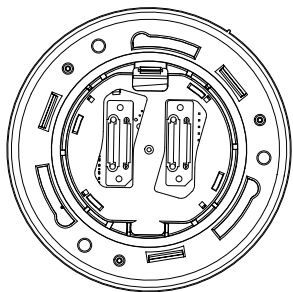


Im Inneren

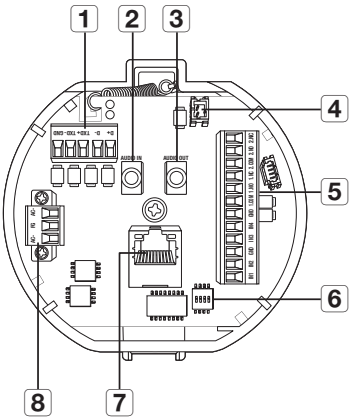


Bezeichnung	Beschreibung
1 Haupteinheit	Schützt das innere PTZ-Mechanismus gegen direkte Sonneneinstrahlung oder äußere Einflüsse.
2 Kuppelabdeckung	Kuppelabdeckung für das Objektiv und zum Schutz des Geräts.
3 Micro SD-Speicherkartenfach	Fach für die Micro SD-Speicherkarte.
4 Reset-Taste	Beim Drücken und Halten diese Taste für mindestens 5 Sekunden gedrückt, werden alle Einstellungen auf Werkseinstellungen zurückgesetzt.

Ansicht der Unterseite des Montagefußes



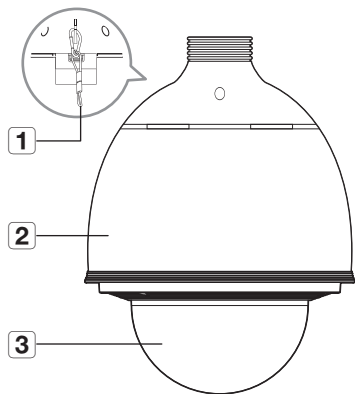
Innenansicht des Montagefußes



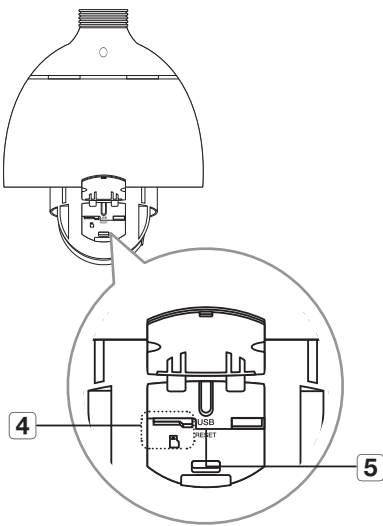
Bezeichnung	Beschreibung
1 Kommunikationsschnittstellen	Für die RS-485 Datenübertragung.
2 Audio-Eingangsbuchse	Für den Anschluss des Audio-Eingangskabels.
3 Audio-Ausgangsbuchse	Für den Anschluss des Audio-Ausgangskabels.
4 Videoausgang	Buchse für den analogen Videoausgang. (für die Installation)
5 Anschlüsse für Alarm E/A	Für den Anschluss der Alarm E/A Kabel.
6 Setup-Schalter für Datenübertragung	Kommunikationsprotokoll (RS-485) festlegen und eventuellen Endpunkt angeben.
7 Netzwerkanschluss	Anschluss für die Verbindung mit dem Netzwerk mittels Ethernet-Kabel.
8 Stromanschluss	Für den Anschluss des Stromkabels.

AUF EINEN BLICK (QNP-6230H)

Aufbau

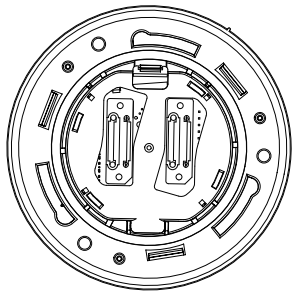


Im Inneren

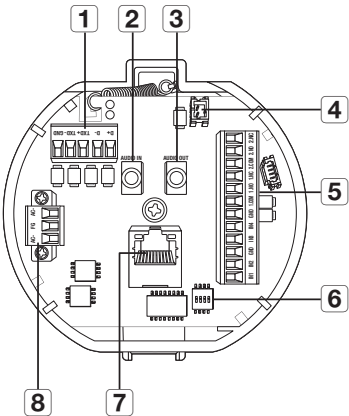


Bezeichnung	Beschreibung
1 Sicherheitskabel	Das Kabel verhindert, dass das Produkt während der Installation stürzt.
2 Gehäuse	Schützt den PTZ-Mechanismus im Innern vor direktem Sonnenlicht, Regen oder Stoß.
3 Kuppelabdeckung	Kuppelabdeckung für das Objektiv und zum Schutz des Geräts.
4 Micro SD-Speicherkartenfach	Fach für die Micro SD-Speicherkarte.
5 Reset-Taste	Beim Drücken und Halten diese Taste für mindestens 5 Sekunden gedrückt, werden alle Einstellungen auf Werkseinstellungen zurückgesetzt.

Ansicht der Unterseite des Montagefußes



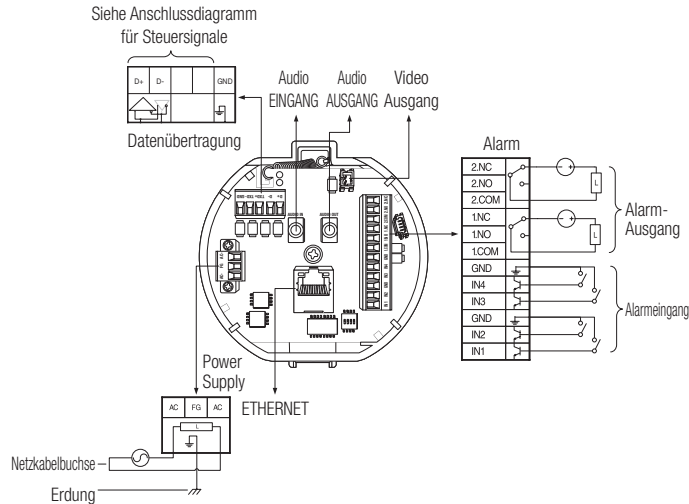
Innenansicht des Montagefußes



Bezeichnung	Beschreibung
1 Kommunikationsschnittstellen	Für die RS-485 Datenübertragung.
2 Audio-Eingangsbuchse	Für den Anschluss des Audio-Eingangskabels.
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4 Videoausgang	Buchse für den analogen Videoausgang. (für die Installation)
5 Anschlüsse für Alarm E/A	Für den Anschluss der Alarm E/A Kabel.
6 Setup-Schalter für Datenübertragung	Kommunikationsprotokoll (RS-485) festlegen und eventuellen Endpunkt angeben.
7 Netzwerkanschluss	Anschluss für die Verbindung mit dem Netzwerk mittels Ethernet-Kabel.
8 Stromanschluss	Für den Anschluss des Stromkabels.

■ Schnittstelle für die Kameraverkabelung

Die Kameraverkabelung ist auf folgender Abbildung dargestellt.

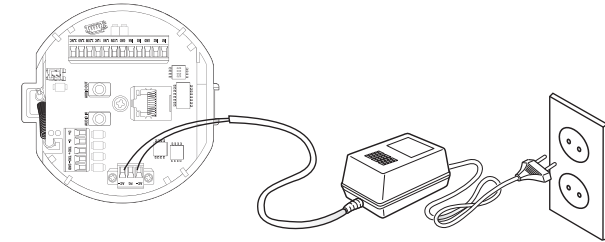


- Im Menü Einstellung „Normal Öffnen“ auswählen
 - Aktivierung des Sensoreingangs: Während des Kurzschließens für den Kontaktyp oder wenn der aktive Typ auf Tiefstand ist.
- Im Menü Einstellung „Normal Schließen“ auswählen.
 - Aktivierung des Sensoreingangs: Wenn es für den Kontaktyp geöffnet oder wenn der aktive Typ hochohmig ist (Open Collector).
- Die maximale Ausgangsleistung am Alarmsignal-Anschluss beträgt 30 V DC / 2 A, 125 V AC / 0,5 A und 250 V AC / 0,25 A.
- Beim Anschluss der Alarm Eingangs- und Ausgangskabel sicherstellen, dass ein Kabel an jeden Anschluss angeschlossen wird.
- Bei einem Anschluss von Geräten mit einer höheren Leistung als die Kamera bitte ein zusätzliches Relais verwenden.
- Sind Stromversorgungskabel und GND-Kabel am NC/NO- oder COM-Port falsch angeschlossen, besteht Brandgefahr, und beim Gerät kann ein Störfall bewirkt werden.

ANSCHLUSS AN ANDERE GERÄTE

Vorbereitung des Netzteils und der Kabel

- Schließen Sie die Kamera an das Netzgerät an. Schließen Sie anschließend das Stromkabel an die Steckdose an.



Vor dem Anschließen an die Steckdose die Spannung und den Strom prüfen.

Nennspannung	Zulässige Spannung
AC 24V	AC22V~26V
PoE+	42.5Vdc~57Vdc

- Wenn sowohl die PoE+, als auch die 24 V Wechselstrom Stromversorgung angeschlossen ist, erfolgt die Stromversorgung des Geräts über die Stromquelle, auf die zuerst zugegriffen wurde.
 - Es wird empfohlen nur eine Stromversorgung, entweder die PoE+ oder 24 V Wechselstrom zu verwenden.
- Wenn das Gerät ein Switch angeschlossen ist, der eine PoE+ Stromversorgung zur Verfügung stellt, muss keine 24V Wechselstromquelle bereitgestellt werden.
- Sicherstellen, dass das PoE Gerät die PoE+ (IEEE 802.3at) Anforderungen erfüllt.
 - Wenn Ihre Verbindung mit einem Standard-PoE (IEEE 802.3af) Gerät-Schalter vorgenommen wird, gehen Sie zum Setup-Menü des Schalters und drücken "deaktivieren PoE". Für weitere Informationen über den Switch bitte in der Bedienungsanleitung nachschlagen.
 - Es wird empfohlen, ein Kabel zu verwenden, das den Spezifikationen von PoE+ entspricht.
- Wird für die Stromversorgung PoE+ eingesetzt, kann die Startzeit je nach Schaltermodell (nach Kanal) oder je nach Hersteller variieren (da die PoE+ Verbindungszeit inkludiert ist).
- Das Heizgerät arbeitet nicht, wenn die Stromversorgung über PoE+ erfolgt. (QNP-6230H)

Elektrischer Widerstand von Kupferdraht bei [20°C (68°F)]

QNP-6230

Kupferdraht Norm (AWG)	#20	#19	#18	#17
Widerstand (Ω/m)	0.0333	0.0264	0.021	0.0166
Empfohlene Entfernung (m)	Weniger als 20	Weniger als 25	Weniger als 30	Weniger als 30

QNP-6230H

Kupferdraht Norm (AWG)	#18	#17	#16	#15
Widerstand (Ω/m)	0.021	0.0166	0.0132	0.0104
Empfohlene Entfernung (m)	Weniger als 15	Weniger als 20	Weniger als 25	Weniger als 30

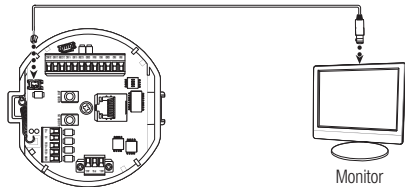
- Wie der oben aufgeführten Tabelle zu entnehmen ist, ist mit einem von der Kabellänge abhängigen Spannungsverlust zu rechnen. Wenn für den Anschluss der Kamera ein zu langes Kabel verwendet wird, kann die Kamera eventuell nicht richtig funktionieren.
 - Betriebsspannung der Kamera: AC 24V±10%
 - Die Werte für den Spannungsabfall aus der oben aufgeführten Tabelle können je nach Hersteller des Kupferkabels unterschiedlich sein.

Ethernet-Verbindung

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

Anschluss des Monitors

Das Kabel an den Video-Ausgang auf der Rückseite der Kamera und an den Video-Eingang des Monitors anschließen.



- Die Verkabelung hängt von der Art des Monitors und der Peripheriegeräte ab; siehe die entsprechenden Betriebsanleitungen der einzelnen Geräte.
- Beim Anschließen der Kamera an den Monitor sicherstellen, dass beide Geräte ausgeschaltet sind.

- Bei diesem Gerät handelt es sich um eine Netzwerk-Kamera, die die Videodaten über ein Netzwerk überträgt; die Anschlussklemme für den Videoausgang wird bei der Installation für die Einstellung des Abbildungsbereichs verwendet.
- Die Verwendung dieser Anschlussklemme für Überwachungszwecke kann zu Problemen, wie einer schlechten Bildqualität führen.
- Es ist nicht geeignet für eine 24-Stunden-Überwachung ist unter Verwendung von professionellen CRT Monitors oder tragbaren TFT/LCD Monitors.
- Verwenden Sie den Netzwerkübertragungsbildschirm zur 24-Stunden-Überwachung und Speicherung.

INSTALLATION

Vorbereitung & Befestigung der Kamerahalterung

Die Installationsanweisungen für die Halterungen und Gehäuse sind den den Halterungen und Gehäusen beiliegenden Bedienungsanleitungen zu entnehmen.

■ Erhältliche Halterungen

Modell	Montage	QNP-6230	QNP-6230H
SHP-3701H	Außengehäuse	Ja	-
SHP-3701F	Gehäuse für die Deckenhalterung		
SBP-301HM3	Hängende Montage		
SBP-300WM1	Wandmontage		Ja
SBP-300WM			
SBP-300CM	Deckenmontage		
SBP-300LM	Fensterbrettmontage		
SBP-300KM	Eckenmontage		
SBP-300PM	Säulenmontage		

- Unter „Optionales Installationszubehör“ ist eine Übersicht der einzelnen Halterungen dargestellt (nicht im Lieferumfang enthalten). (Seite 15)

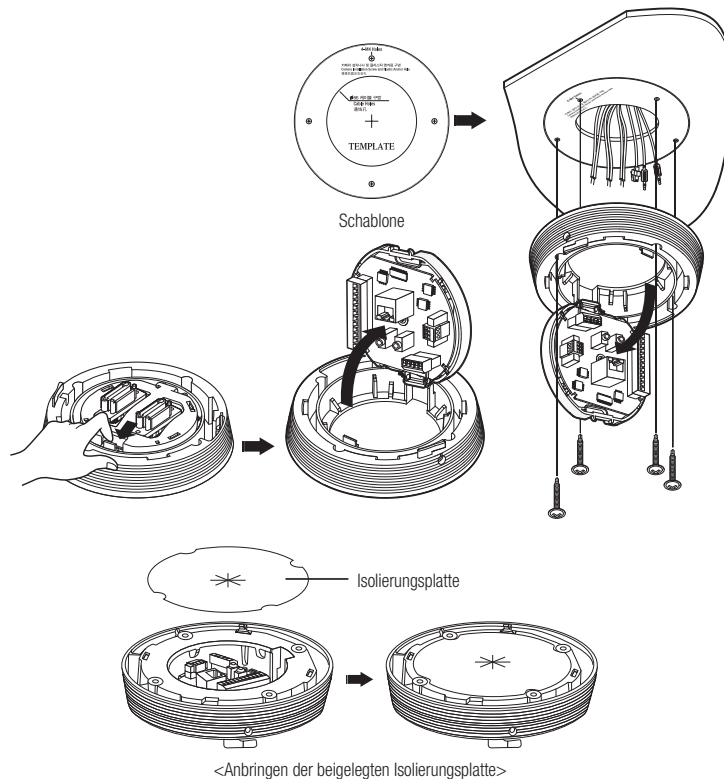
Montage an Wand- oder Deckenflächen (QNP-6230)

 ■ QNP-6230H kann nicht an Wand- oder Deckenflächen montiert werden.

■ Anbringen der Schablone & Befestigung des Montagefußes

1. Die mitgelieferte Montageschablone an der Decke befestigen. Mit Hilfe der Schablone eine 86mm große Öffnung in der Decke ausführen und die Kabel durch die Öffnung führen.
2. Den Montagefuß wie dargestellt befestigen.
3. Vor der Installation des Montagefußes, die Klappe im Montagefuß wie in der Abbildung dargestellt öffnen. Zum Öffnen der Klappe den Knopf drücken.

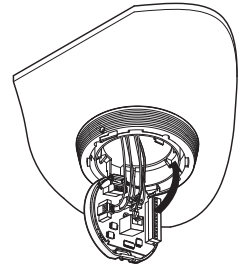
 ■ Wird die Kamera an einem sehr feuchten Ort installiert, wird sie, nach Anbringen der beigelegten Isolierungsplatte auf der Rückseite der Installationsunterlage, an die Decke montiert.



■ Anschließen der Kabel

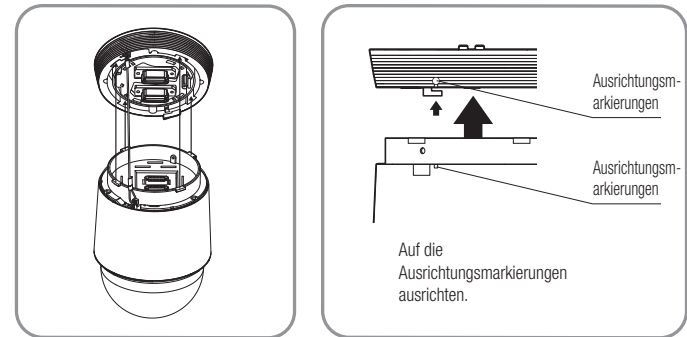
1. Die Kabel an die Klemmen an der Klappe anschließen. Siehe „Schnittstelle für die Kameraverkabelung“. (Seite 10)
2. Nachdem die Verkabelung abgeschlossen ist, die Klappe schließen.

 ■ Die Kamera nicht an die Stromversorgung anschließen, bevor die Installation abgeschlossen ist. Wenn die Stromversorgung bereits während der Installation angeschlossen wird, kann dies zu Feuer oder der Beschädigung des Geräts führen.



■ Befestigen der Sicherheitsleine und Anbringen der Kamera

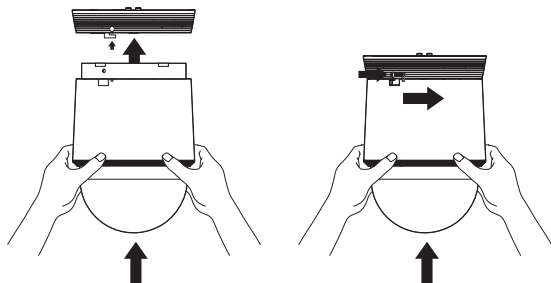
1. Zunächst ist, wie in der Abbildung links gezeigt, das Sicherheitskabel aus dem Sockel zu ziehen und danach an der Halterung festzuhaken. Im Sockelinneren ist das Sicherheitskabel aufgespult.
 - Die Kamera gemäß den Ausrichtungsmarkierungen, wie auf der Abbildung dargestellt, befestigen.
2. Die Kamera vorsichtig, wie in der Abbildung dargestellt, gemäß den Ausrichtungsmarkierungen befestigen.



 ■ Bevor fortgefahren wird sicherstellen, dass die Sicherheitsleine der Kamera an der Halterung befestigt ist. Ansonsten kann es durch ein Herabfallen der Kamera zu ernsthaften Verletzungen kommen.

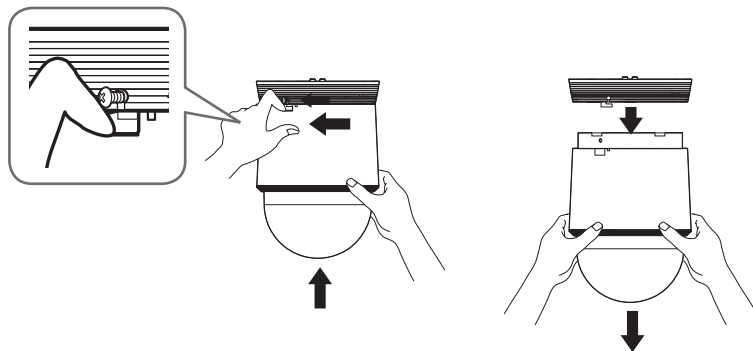
▪ Zum Befestigen oder Abnehmen der Kamera, siehe die Abbildung.

- Befestigen der Kamera : Die Kameraeinheit hochziehen und im Uhrzeigersinn drehen, bis sie, wie in der Abbildung gezeigt, nicht mehr gedreht werden kann. Nach der Drehung sind die an der Installationsbasis angebrachten Schrauben zu befestigen.



< Befestigen der Kamera >

- Abnehmen der Kamera : Wie in der Abbildung gezeigt, sind die Schrauben zu lösen, der Haken zu drücken und gegen den Uhrzeigersinn zu drehen. (Die Schrauben sind nicht vollständig demontiert.) Wenn der Haken sich nicht mehr dreht, ist die Kameraeinheit nach unten zu ziehen und abzusondern.

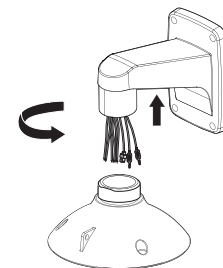


< Abnehmen der Kamera >

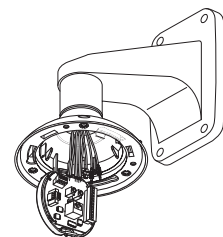
Installation mit Wandhalterung (QNP-6230H)

▪ Den Montagefuß an der Halterung befestigen

1. Den Montagefuß durch Drehen im Uhrzeigersinn an der Halterung befestigen.



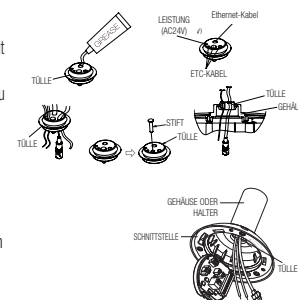
2. Wie auf der Abbildung dargestellt, den Knopf an der sich auf der Unterseite des Montagefußes befinden Klappe vorsichtig nach oben drücken. Für den Anschluss der Kabel, siehe „Schnittstelle für die Kameraverkabelung“ auf Seite 16.



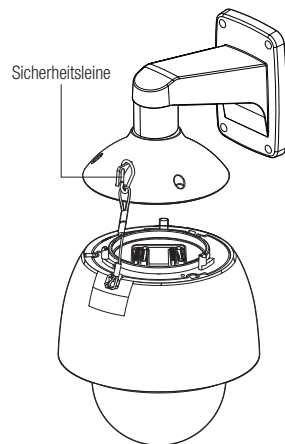
- ! ▪ Die Kamera nicht an die Stromversorgung anschließen, bevor die Installation abgeschlossen ist. Wenn die Stromversorgung bereits während der Installation angeschlossen wird, kann dies zu Feuer oder der Beschädigung des Geräts führen.

⚡ Kabelverbindungen überprüfen und installieren.

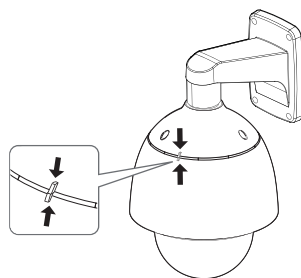
- Beachten Sie, dass für die Installation im Freien, wo aufgrund von Witterung Feuchtigkeit über das **ROHR** oder die **HALTERUNG** eindringen können, **TÜLLEN** mitgeliefert werden. Montieren Sie das **GEHÄUSE** unter Verwendung der **TÜLLEN**, um Feuchtigkeitseintritt zu verhindern.
- Tragen Sie, bevor Sie die **TÜLLEN** einsetzen, auf diese sparsam Schmiermittel auf und führen Sie die Kabel durch die Löcher der Tüllen. Verwenden Sie **STIFTE**, um damit leere Löcher, durch die keine Kabel verlaufen, zu verschließen.
- Setzen Sie die **TÜLLE** wie abgebildet an der Oberseite des **GEHÄUSES** innen ein. Üben Sie auf die **TÜLLE** kurz Druck aus, um Sie – wie in der Abbildung dargestellt – am **GEHÄUSE** sicher zu befestigen.



3. Die Sicherheitsleine der Kamera am Montagefuß befestigen.

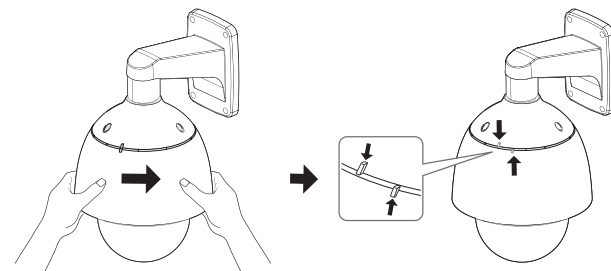


4. Zusammensetzen der Kamera und des Montagefußes Beim Zusammensetzen die Markierungen der Kamera und des Montagefußes aufeinander ausrichten.

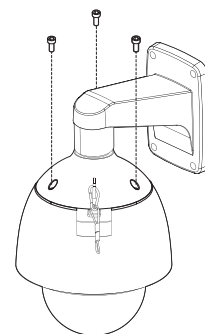


5. Die Kamera befestigen

Drehen Sie die befestigte Kameraeinheit, bis die Referenzanzeigen an der Oberseite und am Boden, wie in der Abbildung rechts, ausgerichtet sind.



6. Kamera und Montagefuß sichern Wie auf der Abbildung dargestellt, Befestigen Sie den Installationsfuß und die Kamera, wie in der Abbildung gezeigt, mittels einer Sechskantschraube.

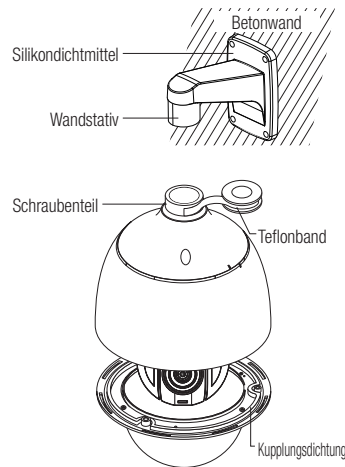


Anmerkungen zur Wasserdichtheit

▪ Geräteeinbau an der Wand durch Kombination des Outdoor-Gehäuses und des Wandstativs

1. Das Wandstativ an der vertikalen Wand anbringen. Wird die Halterung auf einer Schrägwand eingebaut, dann kann durch das Außenkabel Feuchtigkeit in das Outdoor-Gehäuse eindringen.
2. Für die Montage wickeln Sie das Schraubteil des Gehäuses ausreichend mit einem Teflonband ein.
3. Bei der Trennung der Kupplungsabdeckung und bei der Befestigung am Gehäuserahmen ist sicherzustellen, dass die Dichtung nicht gelockert und von der Kupplungsabdeckung getrennt wird.
4. Den Wandstativadapter wasserdicht einbauen und zwecks Abdichtung zwischen und um die Wand sowie beim Wandstativ ein Silikondichtmittel auftragen.

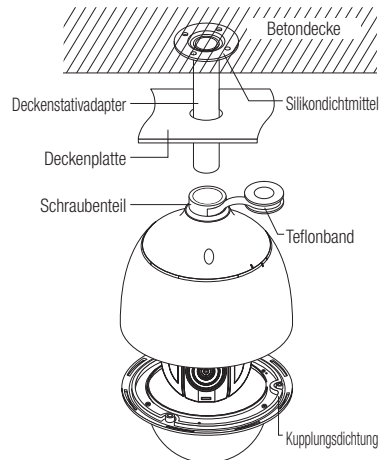
! Wenn die eingebaute Seite nicht plan ist, ist besonders darauf zu achten, dass eine ausreichende Abdichtung gegeben ist.



▪ Wandeinbau durch eine Kombination aus Outdoor-Gehäuse und Deckenhalterungsadapter

1. Für die Montage wickeln Sie das Schraubteil des Gehäuses ausreichend mit einem Teflonband ein.
2. Bei der Trennung der Kupplungsabdeckung und bei der Befestigung am Gehäuserahmen ist sicherzustellen, dass die Dichtung nicht gelockert ist und von der Kupplungsabdeckung getrennt wird.
3. Den Deckenstativadapter wasserdicht einbauen und zwecks Abdichtung zwischen und um die Wand sowie beim Deckenstativ ein Silikondichtmittel auftragen.

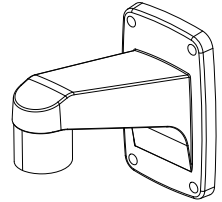
! Wenn die eingebaute Seite nicht plan ist, ist besonders darauf zu achten, dass eine ausreichende Abdichtung gegeben ist.



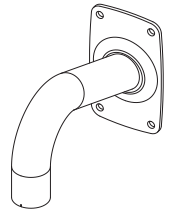
Optionales Installationszubehör

Um die Montage zu vereinfachen, kann passendes Montagezubehör bestellt werden.

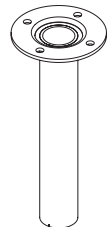
1. Für die Wandmontage
 - Wandhalterung (SBP-300WM1)



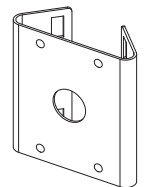
- Wandhalterung (SBP-300WM)



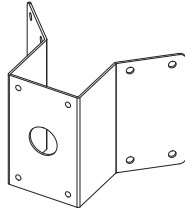
2. Für die Deckenmontage
 - Deckenhalterung (SBP-300CM)



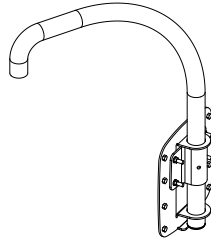
3. Für die Montage der Wandhalterung (SBP-300WM/SBP-300WM1) an einer wenigstens 80mm langen Stange.
 - Säulenhalterung (SBP-300PM)



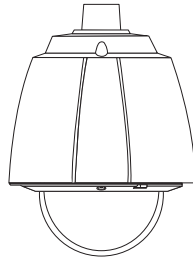
4. Für die Montage der Wandhalterung (SBP-300WM/SBP-300WM1) in einer Wandecke
- Eckhalterung (SBP-300KM)



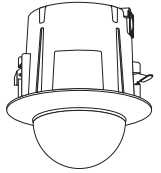
5. Für die Montage auf einem Gebäudedach
- Brüstung-Montageset (SBP-300LM)



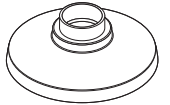
6. Für die Außenmontage der QNP-6230
- Gehäuse für die Außenmontage (SHP-3701H)



7. Für die versenkte Montage der QNP-6230 in einer Hängedecke
- Gehäuse für die flächenbündige Innenmontage für PTZ Dome Kameras (SHP-3701F)



8. Für die Montage der QNP-6230 in einer Wand- oder Deckenhalterung
- Aufhängung (SBP-301HM3)

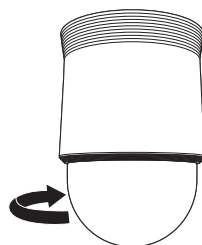


EINSETZEN/ENTFERNEN EINER MICRO SD-SPEICHERKARTE

- ! ■ 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.

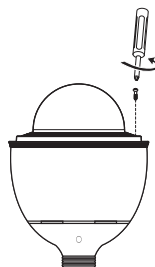
Einsetzen einer Micro SD-Speicherkarte

1. Die Abdeckung auf der Rückseite der Kamera öffnen.
(QNP-6230)



<QNP-6230>

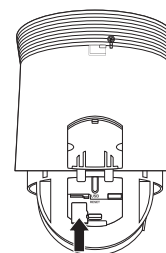
Lösen Sie die Schraube mithilfe des Schraubendrehers, indem Sie sie gegen den Uhrzeigersinn drehen und entfernen Sie die Kuppelabdeckung.
(QNP-6230H)



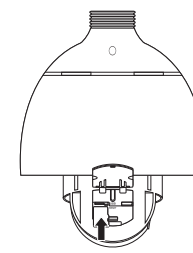
<QNP-6230H>

2. Die Micro SD-Speicherkarte, wie in der Abbildung dargestellt, in Pfeilrichtung hineinschieben.

- ! ■ Legen Sie die Micro SD-Speicherkarte nicht gewaltsam verkehrt ein. Dadurch kann die Micro SD-Speicherkarte beschädigt werden.



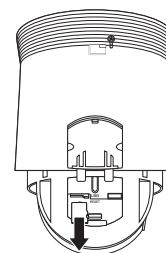
<QNP-6230>



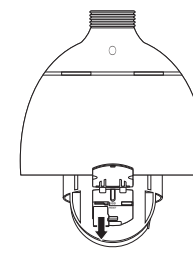
<QNP-6230H>

Entfernen einer Micro SD-Speicherkarte

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



<QNP-6230>



<QNP-6230H>

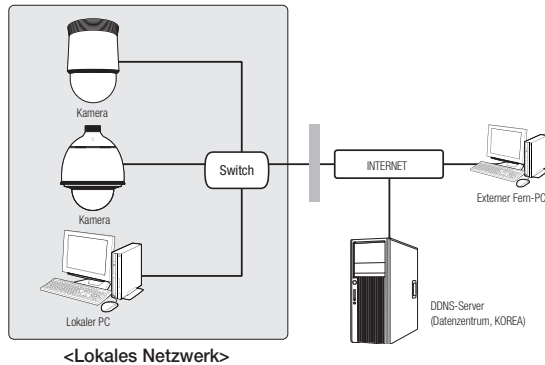
- ! ■ Ein zu starkes Drücken auf die Micro SD-Speicherkarte kann bewirken, dass die Karte unkontrolliert aus dem Steckplatz herausspringt.
- Bevor Sie die microSD-Speicherkarte entfernen, schalten Sie die Kamera aus oder stellen Sie das Gerät unter <Speichern> auf <Aus> und drücken Sie die [Anwenden]-Taste.
- Wenn Sie die Kamera ausschalten oder die Micro SD-Speicherkarte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

Sie können die Netzwerkeinstellungen gemäß Ihrer Netzwerkkonfigurationen einrichten.

DIREKTES VERBINDEN DER KAMERA AN DAS LAN

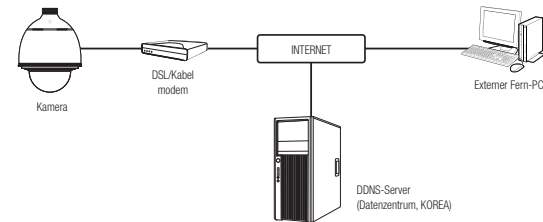
Anschluss an die Kamera von einem lokalen PC im LAN

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.
- Im Device Manager kann das Initialpasswort „4321“ für die Einstellung von IP-Adresse, Subnetzmaske, Gateway, HTTP-Port, VNP-Port und IP-Typ verwendet werden. Nach Änderung der Netzwerk-Schnittstelle greifen Sie zwecks besserer Sicherheit auf den Webviewer zu und ändern Sie das Passwort.
- 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 20)

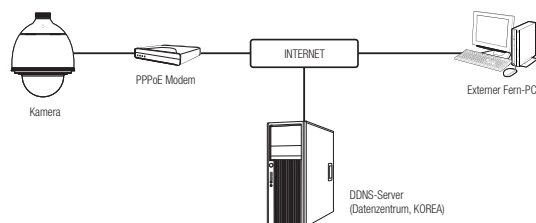
VERBINDEN DER KAMERA DIREKT MIT EINEM DHCP BASIERTEN DSL/ KABELMODEM



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.

DIE KAMERA DIREKT MIT EINEM PPPoE-MODEM VERBINDEN



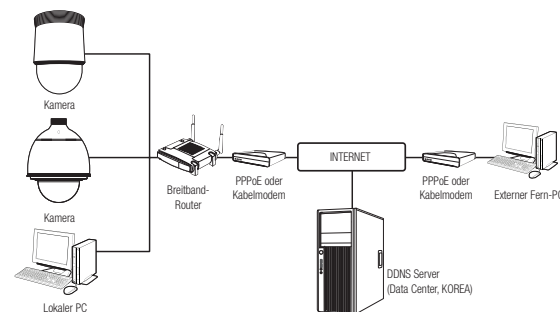
1. Den Benutzer-PC direkt mit der Netzwerkkamera verbinden.
2. Den Device Manager ausführen und die IP-Adresse der Kamera ändern, so dass Sie sich mit dem Webbrowser auf Ihrem Desktop mit dem Internet verbinden können.
3. Verwenden Sie den Webbrowser, um eine Verbindung mit dem Web Viewer herzustellen.
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]**-Setup-Seite navigieren und den IP-Typ auf **[PPPoE]** sowie die ID und das Passwort des Netzwerkdienstes eingeben.
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.

VERBINDEN DER KAMERA AN EINEN BREITBAND-ROUTER ÜBER DAS PPPoE/KABELMODEM

Das ist für eine kleine Netzwerkumgebung wie zum Beispiel Eigenheime, SOHO und gewöhnliche Geschäfte.



Konfigurieren der Netzwerkeinstellungen des an einen Breitband-Router

Befolgen Sie die nachfolgenden Anweisungen zur Konfiguration der Netzwerkeinstellungen des an einen Breitband-Router angeschlossenen lokalen PCs.

- Wählen Sie : **<Network>** → **<Properties>** → **<Local Area Connection>** → **<General>** → **<Properties>** → **<Internet Protocol (TCP/IP)>** → **<Properties>** → **<Obtain an IP address automatically>** oder **<Use the following IP address>**.
- Befolgen Sie die nachfolgenden Anweisungen bei der Auswahl von **<Use the following IP address>**:
 - bsp1) Wenn die Adresse (LAN IP)des Breitband-Routers 192.168.1.1 ist
 - IP-Adresse : 192.168.1.100
 - Subnetz Maske : 255.255.255.0
 - Standard Gateway : 192.168.1.1
 - bsp2) Wenn die Adresse (LAN IP)des Breitband-Routers 192.168.0.1 ist
 - IP-Adresse : 192.168.0.100
 - Subnetz Maske : 255.255.255.0
 - Standard Gateway : 192.168.0.1
 - bsp3) Wenn die Adresse (LAN IP)des Breitband-Routers 192.168.xxx.1 ist
 - IP-Adresse : 192.168.xxx.100
 - Subnetz Maske : 255.255.255.0
 - Standard Gateway : 192.168.xxx.1



- Sehen Sie bezüglich der Adresse des Breitband-Routers in der Dokumentation des Gerätes nach.
- Für weitere Informationen über die Portweiterleitung des Breitband Routers, bitte unter **"Portbereichweiterleitung Konfigurieren (Port Mapping)"** nachschlagen. (Seite 22)

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.

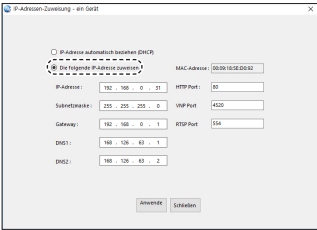
KONFIGURIEREN DER IP-ADRESSE

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.



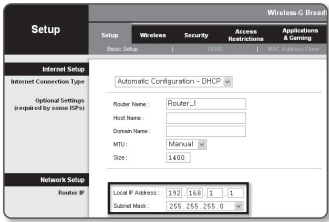
Wenn Sie keinen Breitband-Router verwenden

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.
- VNP Port : Wird verwendet, um die Videosignalübertragung zu steuern. Der Standardwert lautet 4520.
- RTSP Port: Ein Port, der das Echtzeit-Streaming steuert. Der Initialwert ist 554.

Bei Verwendung eines Breitband-Routers

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



- Die Netzwerkeinstellungen können sich je nach verbundenem Breitband-Router modell unterscheiden. Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.
- Für weitere Informationen über die Portweiterleitung des Breitband Routers, bitte unter "Portbereichweiterleitung Konfigurieren (Port Mapping)" nachschlagen. (Seite 22)

Wenn mehrere Kameras mit dem Breitband-Router verbunden sind

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

bsp)

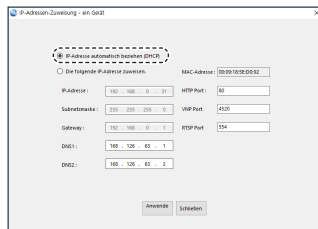
Kategorie		Kamera #1	Kamera #2
IP-Einstellungen	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Port-Einstellungen	HTTP Port	8080	8081
	VNP Port	4520	4521
	RTSP Port	554	555

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

Konfigurieren der dynamischen IP

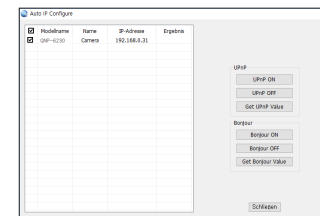
IP-Adresse vom DHCP-Server beziehen.

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



AUTOMATISCHE KONFIGURATION DER IP

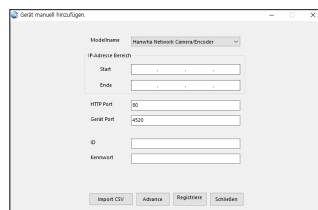
1. In der Liste auf die Kamera klicken, von der die IP automatisch konfiguriert werden soll.
2. Auf der Hauptseite des Device Manager auf **< + >** klicken.
 - Das Menü Equipment Setting erscheint.
3. Im Menü auf **<Auto IP Configure (Automatische IP-Konfiguration)>** klicken.
4. Auf die Schaltfläche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



MANUELLES REGISTRIERUNG DER KAMERA

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

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

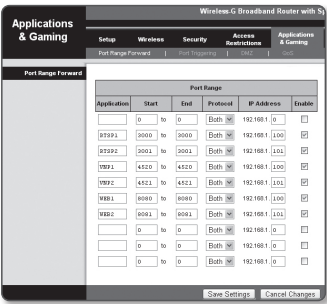


PORTBEREICHWEITERLEITUNG KONFIGURIEREN (PORT MAPPING)

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

Manuelle Portbereichweiterleitung

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

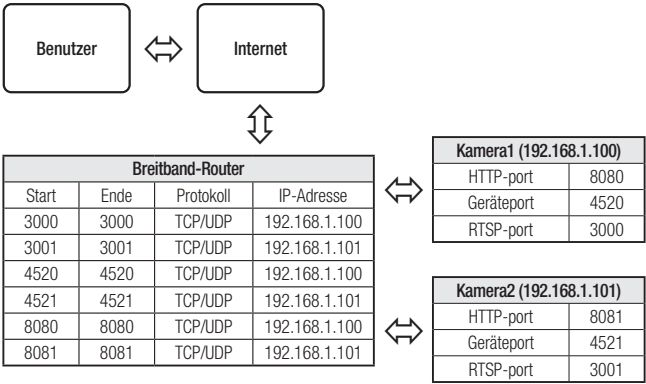


- Die Einstellung des Port-Forwarding wird am Beispiel der Einstellung eines CISCO IP-Routers gezeigt.
- Die Netzwerkeinstellungen können sich je nach Breitband-Routermodell unterscheiden. Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.

Einstellen des Portweiterleitungsbereichs für mehrere Netzwerkkameras

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

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



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

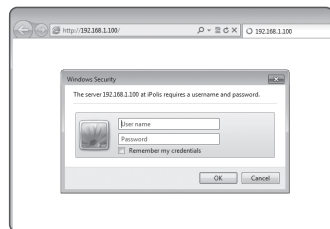


- Um DDNS zu verwenden, melden Sie sich auf der DDNS-Homepage an (<http://ddns.hanwha-security.com>) und registrieren Sie das Produkt unter **[Mein DDNS]>[Produkt registrieren]**.

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

Wenn die Kamera direkt mit dem DHCP-Kabelmodem, DSL-Modem oder PPPoE-Modem verbunden ist, wird die IP-Adresse Ihres Netzwerks jedes Mal geändert, wenn Sie versuchen eine Verbindung mit dem ISP (Internetserviceanbieter) -Server aufzunehmen.

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

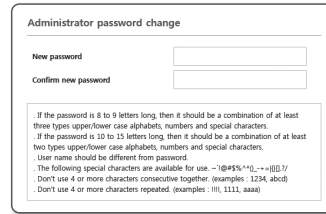
Sobald Sie ein auf dynamischer IP basierendes Gerät beim DDNS-Server registrieren, können Sie die geänderte IP-Adresse einfach überprüfen, wenn Sie versuchen auf das Gerät zuzugreifen.

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. Beim Erscheinen des Fensters **"Passwort ändern"**, ein neues Passwort eingeben.

- 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.



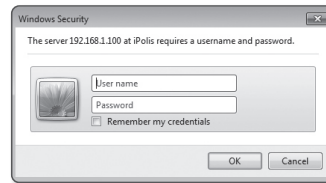
ANMELDEN

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 Anmeldeinformationen einzugeben.
- Die beste Bildqualität wird erreicht, wenn die Bildschirmgröße auf 100% eingestellt ist. Reduzierung des Bildseitenverhältnisses kann das Bild an den Rändern abschneiden.



PLUG-IN-SPEZIFIKATIONEN FÜR JEDEN BROWSER

Der vorhandene Plug-in-Web-Viewer und ein neuer kostenloser Plug-in-Web-Viewer sind gemeinsam eingebaut. Dies ermöglicht Ihnen, den Web-Viewer in neueren Browser-Umgebungen zu verwenden, die keine Plug-Ins wie Chrome, EDGE und Firefox unterstützen (nur Windows 64-Bit). Für Browser, die die Installation von Plug-Ins wie IE und Safari ermöglichen, wird die Installation des Plug-Ins empfohlen.

Je nach Browserumfeld können folgende Unterschiede auftreten.

- **Chrome-, Firefox(Wird nur bei Windows 64bit), EDGE-Browser** : Obwohl diese beiden Browser keine Plug-Ins unterstützen, können Sie einen Web-Viewer nutzen, da ein kostenloser Plug-in-Web-Viewer integriert ist.
- Da der Plug-in-freie Webviewer eine geringere Leistung als der Plug-in-Webviewer hat, besteht ein Limit bei der Überwachung von Profilen mit hoher Qualität und der Wiedergabe gespeicherter Videos. Um Profile mit hoher Qualität zu überwachen und gespeicherte Videos wiederzugeben, verwenden Sie bitte einen Plug-in-Webviewer oder einen SmartViewer.
 - Plug-in-freie Webviewer-Erstellungsbedingungen: Das ausgewählte Profil überschreitet MJPEG Full HD 10Fps H.265 FullHD 10Fps 2Mbps oder höher
- Die Plug-In-Funktion wurde für den Chrome-Browser optimiert.
- Unterstützt Adaptive Streaming
 - Dies ist die Funktion, die das Profil automatisch senkt, wenn es eine Verzögerung von mehr als 5 Sekunden gibt. Es wurde gemacht, um Probleme wie erhöhte Latenz und keine Reaktion aus dem Browser bei der Wiedergabe des Videos auf einem System mit niedrigeren Hardware-Spezifikationen als empfohlen zu verhindern. Das Videoprofil wird in folgender Reihenfolge reduziert: 1920X1080(20fps) -> 1280X720(20fps) -> 640X480(20fps).
- **Browser IE, Safari** : Sie können einen Web-Viewer auch nutzen, wenn Sie den vorhandenen Plug-in-Web-Viewer nicht installieren.
- Zur nahtlosen Überwachung/zum nahtlosen Abspielen des Videos müssen Sie ein Plug-in installieren.

INSTALLATION DES WebViewer PLUG-INS

Um auf den Plug-in-Webviewer zuzugreifen und ein Live-Video (H.264/H.265) oder ein aufgenommenes Video abspielen zu können, erscheint eine Installationsnachricht. Dann müssen Sie das Webviewer-Plug-in installieren, um die Funktion korrekt nutzen zu können.

1. Wird zum ersten Mal auf die Seite Überwachen zugegriffen, wird die Seite Installation angezeigt. **[Download plugin]** anklicken, um mit der Installation zu beginnen.

! ■ Wenn der Status des Herunterladens der Plugin-Datei zur Installation im Internetbrowser bei 99% abgebrochen wird, dann versuchen Sie es erneut nachdem "SmartScreen Filter freigeben" in "Werkzeug → SmartScreen Filter" gewählt wurde.

2. **[Run]** im Meldungsfenster anklicken.

3. **[Yes]** anklicken, wenn das Hinweisfenster angibt, dass alle Browserfenster geschlossen werden.

✍ ■ Schritt 4 und 5 werden übersprungen, falls das Web Viewer-Plugin installiert ist.

4. Wenn die alte Version des Web Viewer-Plugins installiert ist, wird auf einem Hinweisfenster angezeigt, dass die alte Version gelöscht werden wird.

[Yes] anklicken, wenn das Hinweisfenster angezeigt wird.

5. **[OK]** anklicken.

Die alte Version des Web Viewer-Plugins ist gelöscht.

6. **[Install]** anklicken, um mit der Installation des Web Viewer-Plugins zu beginnen.

7. **[Finish]** anklicken.

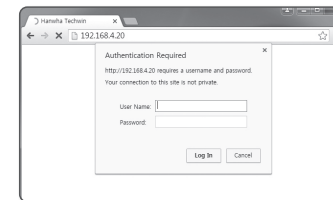
Die Web Viewer-Plugin-Installation ist abgeschlossen.

! ■ Wenn Sie nach der Installation des Webviewer-Plug-Ins bei Ihrem Internet-Explorer zu dem Installationsbildschirm gehen, prüfen Sie, ob `webviewer_activexplugin_iib.control` in dem Menü "Werkzeug → Zusätzliches Funktionsmanagement" "Activated" ist.
Falls nicht, und wenn es ein bleibendes Problem gibt, dann wählen Sie "Werkzeug → Internet-Optionen → Allgemein" und löschen Sie alle Such-Aufzeichnungen.
Wenn das Problem weiterhin besteht, bitte die IP-Adresse oder die Domäne Ihrer Kamera unter "Tools → Internetoptionen → Sicherheit → Sichere Sites" registrieren.

EINEN KOSTENLOSEN PLUG-IN-WEBVIEWER VERWENDEN

Obwohl es nicht möglich ist, Plug-ins separat zu installieren, wenn Sie auf die Kamera über Google Chrome, Mozilla Firefox oder MS Edge-Webbrowser zugreifen, können Sie das Kamera-Video ansehen und steuern, ohne Plug-ins installieren zu müssen.

1. Geben Sie Ihren Benutzernamen und Ihr Passwort zur Anmeldung ein.
2. Sobald Sie angemeldet sind, erscheint ein Bildschirm mit der Kamera-Liveansicht.



Um die Kamera einzustellen

1. Klicken Sie auf das **[Einrichten (⚙)]**-Symbol.
2. Das Fenster für die Einstellungen erscheint.
3. Es ist möglich, die Einstellungen grundlegender Informationen der Kamera, PTZ, Video und Audio, Netzwerk, Ereignis, Analyse, System sowie offene Plattform über das Netzwerk zu verwalten.
4. Klicken Sie auf **<Hilfe (❓)>** um detaillierte Beschreibungen jeder Funktion betrachten zu können.

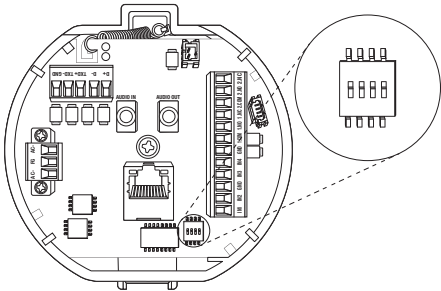
DIP-SCHALTER EINSTELLUNG

Einstellen der Protokolle und der ID DIP-Schalter

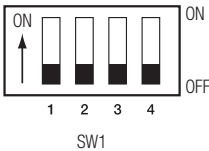
Mit Hilfe der Datenübertragungs- und ID DIP-Schalter können verschiedene Einstellungen des Kamerasystems vorgenommen werden. Bevor das Gerät installiert wird, müssen die DIP-Schalter entsprechend der Installationsumgebung eingestellt werden.

- 1. Die Schalter entsprechend Ihrer Installationsumgebung einstellen. Für ausführlichere Setupinformationen siehe das Diagramm auf der nächsten Seite.
- 2. Wenn die Schalter nicht vollständig ein- bzw. ausgeschaltet sind, kann dies zu Fehlfunktionen der Kamera führen; vor Beendigung des Setups die Schalter noch einmal überprüfen.
- 3. Vorsicht, der Schalter kann beschädigt werden, wenn er mit einem scharfen Werkzeug bedient wird.
- 4. Vorsicht, der Schalter kann beschädigt werden, wenn er mit übermäßiger Kraft bedient wird.

DIP-Schalter für das Datenübertragungsprotokoll (SW1)



Einstellungen des DIP-Schalters für das Datenübertragungsprotokoll (SW1)



SW1 Pin Nr.	Verwendungszweck
1	Übertragungsprotokoll (RS-485) festlegen
2	Abbrucheinstellung 1
3	Abbrucheinstellung 2
4	Vorbehalten

- **Einstellen des Datenübertragungsmodus**
Den Datenübertragungsmodus für die Kamera einstellen.

	Funktion	ON	OFF
SW1-#1	Schalter für den Übertragungsmodus	-	RS-485 (2 Kabel)

- **Abschluss Einstellungen**
Um die Dämpfung von Datenübertragungssignalen zwischen der Kamera und dem Controller zu verhindern, müssen die Geräte an den Kabelenden auf die jeweiligen Abschluss Einstellungen eingestellt werden.

Eingangsposition der Kamera	SW1-#2	SW1-#3
Abschluss der längsten Strecke	ON	ON
Auf der Strecke	OFF	OFF

- Der Voreinstellungswert ist in jeder Einstellungstabelle markiert dargestellt.
- Wenn Sie Controller von anderen Herstellern mit diesem Gerät verwenden möchten, setzen Sie sich bitte mit unserem Kundendienst oder unserer Technikabteilung in Verbindung.

KAMERAVERKABELUNG

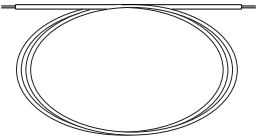
Kontrollsignalverbindung

- RS-485 Datenübertragung



Datenübertragungskabel

Für die Steuerung der Kamera über den Controller ist eine RS-485 Leitung erforderlich.



- Für diesen Anschluss darf die Kabellänge maximal 30m betragen.
- Das Datenübertragungskabel ist nicht im Lieferumfang enthalten.

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 Drittreiber als Mikrofontreiber.
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 angeschlossen 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. - Wenn die Kamera über ein PPPoE-Netzwerk verbunden ist, kann der Viewer bei schlechten Netzwerkbedingungen getrennt werden.
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.	Auf die SD-Speicherkarte kann nicht aufgenommen werden.
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 benutzen.

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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	
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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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

(In den Ländern der Europäischen Union und anderen europäischen Ländern mit einem separaten Altbatterie-Rücknahmesystem)

Die Kennzeichnung auf der Batterie bzw. auf der dazugehörigen Dokumentation oder Verpackung gibt an, dass die Batterie zu diesem Produkt nach seiner Lebensdauer nicht zusammen mit dem normalen Haushaltsmüll entsorgt werden darf. Wenn die Batterie mit den chemischen Symbolen Hg, Cd oder Pb gekennzeichnet ist, liegt der Quecksilber-, Cadmium- oder Blei-Gehalt der Batterie über den in der EG-Richtlinie 2006/66 festgelegten Referenzwerten. Wenn Batterien nicht ordnungsgemäß entsorgt werden, können sie der menschlichen Gesundheit bzw. der Umwelt schaden.

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.

