

NETZWERKKAMERA

Benutzerhandbuch

XNP-6371RH



Netzwerkamera

Benutzerhandbuch

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Handelsmarke

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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, Stativ, 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(50/60 Hz), min. 4,2 A bestimmt.
16. 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.
17. 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.
18. 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.
19. 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" in der Bedienungsanleitung.
20. 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

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

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.

Die Batterie kann nicht ersetzt werden.

Trennung des Geräts

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

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

ACHTUNG

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

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: 8 G oder mehr
 - Unterstützte Betriebssystem : MS Windows, Mac OS X
 - **Plug-in freier Web-Viewer**
Unterstützte Webbrowser: Google Chrome, MS Edge, Mozilla Firefox (nur Window 64 Bit), Apple Safari (nur Mac OS X)
 - **Plug-in-Web-Viewer**
Unterstützte Webbrowser: MS Explorer, Apple Safari (nur Mac OS X)
- Siehe Anhang für detaillierte Versions-Informationen zu verifizierten OS- und Browser-Versionen.

EMPFOHLENE TECHNISCHE DATEN FÜR SD/SDHC/SDXC SPEICHERKARTEN

- Empfohlene Kapazität : 4 GB ~ 128 GB (Das ext4 Dateisystem wird für die 128GB SD Speicherkarten empfohlen.)
- Wir empfehlen Ihnen für Ihre Kamera die Verwendung einer Speicherkarte der folgenden Hersteller: SD/SDHC/SDXC Speicherkarte (MLC-Typ) : Sandisk, Transcend
- Für die Bildfrequenz unter 30 fps wird empfohlen, die Spezifikation Speicherkarte der Klasse 6 oder höher zu verwenden.
- Für die Bildfrequenz über 31 fps wird empfohlen, die Spezifikation Speicherkarte der Klasse 10 UHS oder höher zu verwenden.

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.

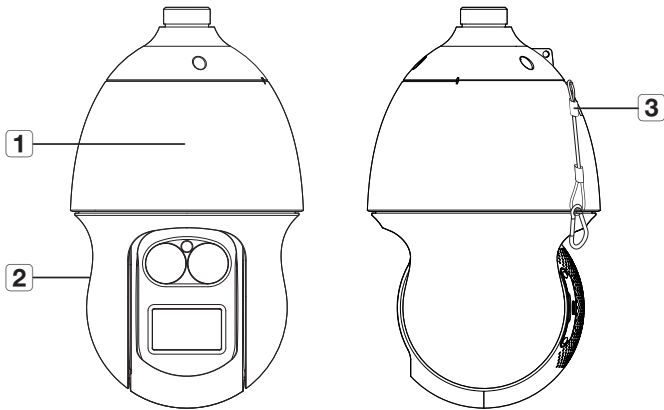
LIEFERUMFANG

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
	Hauptgehäuse	1	
	Kurzanleitung (Optional)	1	
	Garantiekarte (Optional)	1	
	Testmonitor-Kabel	1	Wird zum Testen des Kameraanschlusses an ein tragbares Displaygerät verwendet
	Inbusschraube	3	Für die Befestigung der Kamera am Montagefuß.
	L-förmiger Schraubenschlüssel	1	Für die Montage des Montagefußes nach dessen Befestigung an der Kamera.
	Montagefuß	1	Halterung für den Außenbereich
	Wasserfestes Zubehör	1	In Räumen mit hoher Luftfeuchtigkeit installieren und verwenden.

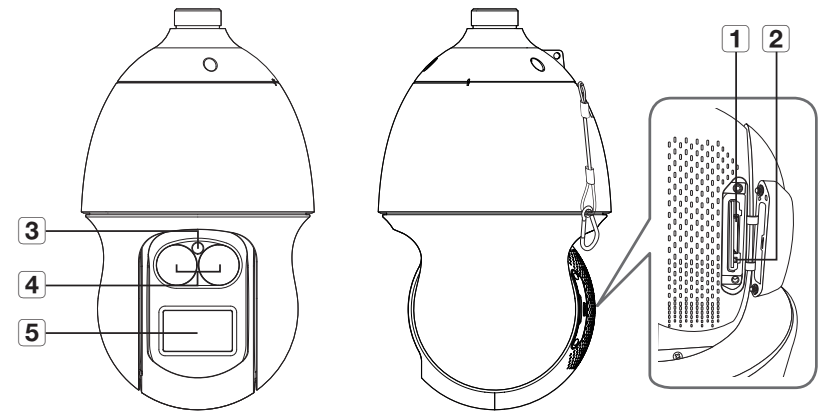
AUF EINEN BLICK

Aufbau



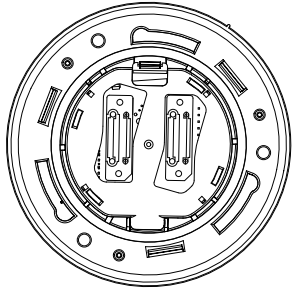
Bezeichnung	Beschreibung
1 Haupteinheit	Schützt den PTZ-Mechanismus im Innern vor direktem Sonnenlicht, Regen oder Stoß.
2 Abschirmdeckel	Abschirmdeckel für das Objektiv und den Geräteschutz.
3 Sicherheitskabel	Das Kabel verhindert, dass das Produkt während der Installation stürzt.

Im Inneren

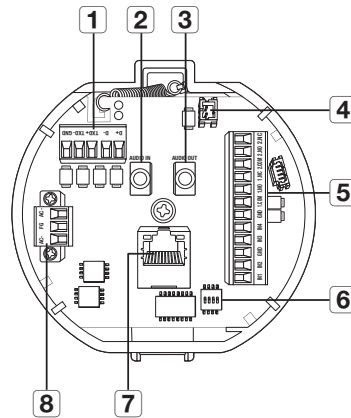


Bezeichnung	Beschreibung
1 SD-Speicherkartenfach	Fach für die SD-Speicherkarte. <input checked="" type="checkbox"/> Lesen Sie unter <Einsetzen/Entfernen einer SD-Speicherkarte> wie die SD-Karte eingelegt werden soll. (Seite 14)
2 Reset-Taste	Diese Taste setzt alle Kameraeinstellungen auf die Werkseinstellungen zurück. Drücken und 5 Sekunden gedrückt halten, um das System neu zu starten. ! 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 Beleuchtungssensor	Erkennt das einfallende Licht, und steuert die Infrarot-LED.
4 IR LED	Diese infrarot LEDs werden über den Beleuchtungssensor gesteuert.
5 Objektiv	Kameraobjektiv.

Ansicht der Unterseite des Montagefußes



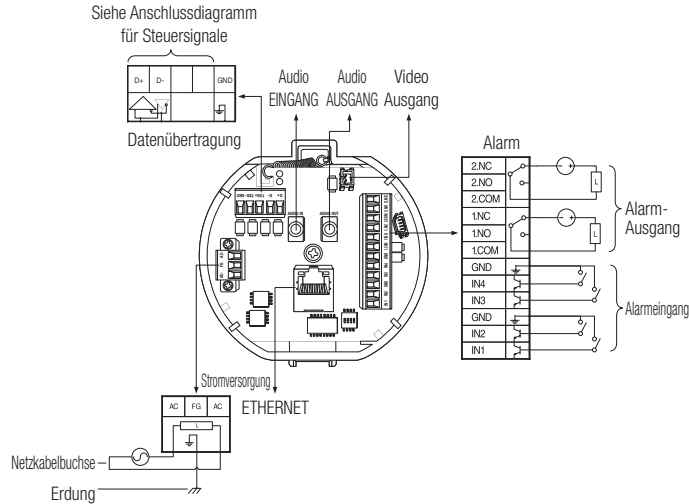
Innenansicht des Montagefußes



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.

Schnittstelle für die Kameraverkabelung

Die Kameraverkabelung ist auf folgender Abbildung dargestellt.

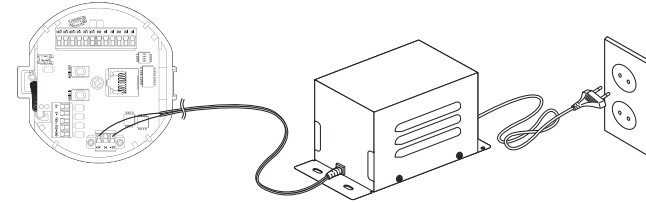


- Im Menü Einstellung „Normal Öffnen“ auswählen
 - Aktivierung des Sensoreingangs: Während des Kurzschließens für den Kontakttyp oder wenn der aktive Typ auf Tiefstand ist.
- Im Menü Einstellung „Normal Schließen“ auswählen.
 - Aktivierung des Sensoreingangs: Wenn es für den Kontakttyp geöffnet oder 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	Stromaufnahme
AC 24V	22V – 26V Wechselstrom	6 A

- Das Produkt kann nicht bei -50°C Umgebungstemperatur oder darunter verwendet werden.
- Das Produkt wird möglicherweise bei -50°C, je nach dem Montagebereich, nicht entfrostat.
- Nachdem das Produkt in einer Umgebung mit Niedrigtemperatur angebracht ist, wird es bis zu 2 Stunden dauern, ehe es normal zu funktionieren beginnt.
- Die Geschwindigkeit des Zooms beim IR-Dimmer kann sich bei -40°C oder noch niedrigerer Temperatur verlangsamen.
- Wird das Produkt eingeschaltet, nachdem es eine gewisse Zeit lang -20°C oder einer noch niedrigeren Temperatur ausgesetzt war, dann setzen Sie die Zeit zurück.

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

Kupferdraht Norm (AWG)	#24(0,22mm²)	#22(0,33mm²)	#20(0,52mm²)	#18(0,83mm²)
Widerstand (Ω/m)	0,078	0,050	0,030	0,018
Spannungsverlust (V/m)	0,028	0,018	0,011	0,006
Empfohlene Entfernung (m)	Weniger als 20	Weniger als 30	Weniger als 30	Weniger als 30

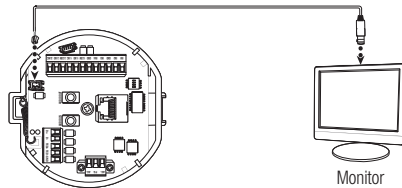
- Wie der oben aufgeführten Tabelle zu entnehmen ist, ist mit einem von der Kabellänge abhängigen Spannungsverlust zu rechnen. Wenn für den Anschluss der Kamera ein zu langes Kabel verwendet wird, kann die Kamera eventuell nicht richtig funktionieren.
 - Betriebsspannung der Kamera: AC 24V±10%
 - Die 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

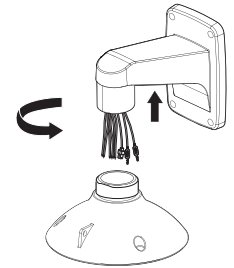
Modell	Montage
SBP-300WM1	Wandmontage
SBP-300WM	
SBP-300CM	Deckenmontage
SBP-300LM	Fensterbrettmontage
SBP-300KM	Eckenmontage
SBP-300PM	Säulenmontage

- !** Unter „**Optionales Installationszubehör**“ ist eine Übersicht der einzelnen Halterungen dargestellt (nicht im Lieferumfang enthalten). (Seite 12)

Installation mit Wandhalterung

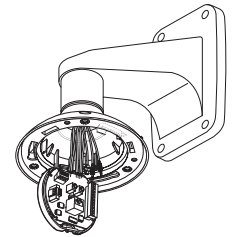
Den Montagefuß an der Halterung befestigen

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



- 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 9.

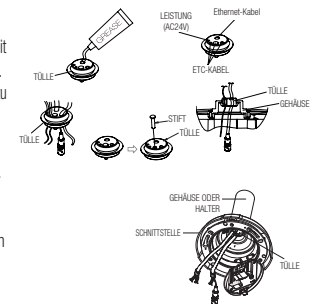
- !**
- Die Kamera nicht an die Stromversorgung anschließen, bevor die Installation abgeschlossen ist. Wenn die Stromversorgung bereits während der Installation angeschlossen wird, kann dies zu Feuer oder der Beschädigung des Geräts führen.



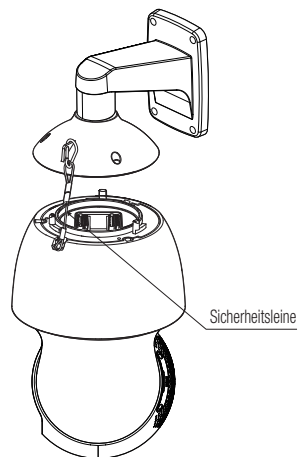
Kabelverbindungen überprüfen und installieren.

- Beachten Sie, dass für die Installation im Freien, wo aufgrund von Witterung Feuchtigkeit über das **ROHR** oder die **HALTERUNG** eindringen können, **TÜLLEN** mitgeliefert werden. Verwenden Sie das **GEHÄUSE** unter Verwendung der **TÜLLEN**, um Feuchtigkeitseintritt zu verhindern.

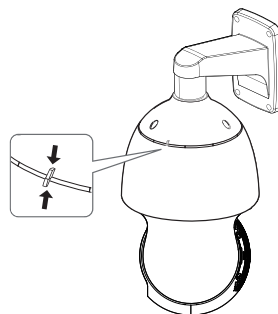
- Tragen Sie, bevor Sie die **TÜLLEN** einsetzen, auf diese sparsam Schmiermittel auf und führen Sie die Kabel durch die Löcher der Tüllen. Verwenden Sie **STIFTE**, um damit leere Löcher, durch die keine Kabel verlaufen, zu verschließen.
- Setzen Sie die **TÜLLEN** wie abgebildet an der Oberseite des **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.

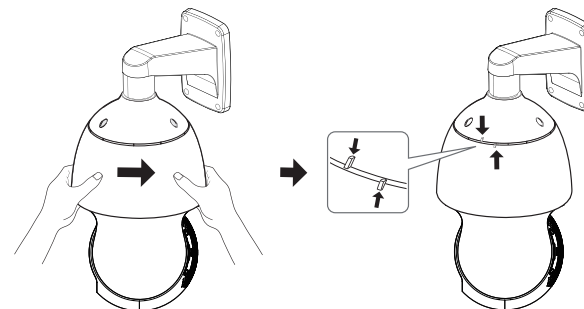


4. Zusammensetzen der Kamera und des Montagefußes Beim Zusammensetzen die Markierungen der Kamera und des Montagefußes aufeinander ausrichten.



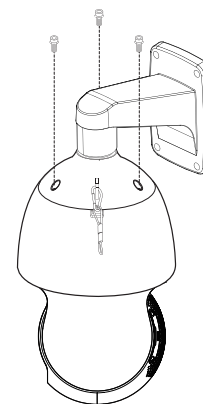
5. Die Kamera befestigen

Drehen Sie das Kameragehäuse im Uhrzeigersinn, um das Referenzzeichen im oberen und unteren Abschnitt zu positionieren (wie in der Abbildung angezeigt).



6. Secure Camera and Installation Base

Wie im Bild unten dargestellt die Montage-Grundplatte und Kamera mit den Sechskantschrauben befestigen.



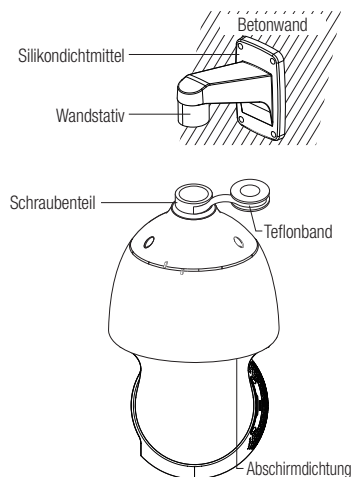
Anmerkungen zur Wasserdichtheit

Dieses Modell ist ein Produkt mit integriertem Gehäuse für die Installation im Außenbereich.

■ Bei Kombination des Hauptgehäuses und der Wandhalterung für die Montage an der Wand

1. Das Wandstativ an der vertikalen Wand anbringen. Wird es an eine schräge Wand montiert, kann Feuchtigkeit über das externe Kabel in das Hauptgehäuse eindringen.
2. Für die Montage wickeln Sie das Schraubteil des Gehäuses ausreichend mit einem Teflonband ein.
3. Bitte stellen Sie sicher, dass die Dichtung nicht vom Abschirmdeckel getrennt wird, wenn der Abschirmdeckel abgenommen und auf den Gehäusekörper montiert wird.
4. Den Wandstativadapter wasserdicht einbauen und zwecks Abdichtung zwischen und um die Wand sowie beim Wandstativ ein Silikondichtmittel auftragen.

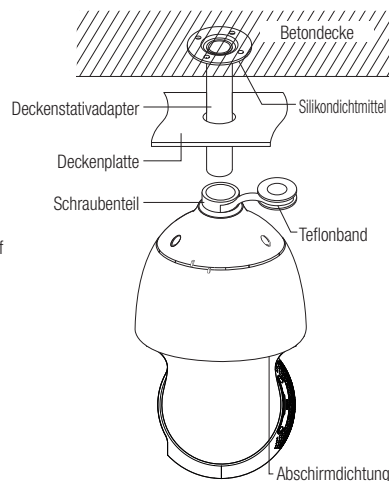
! ■ Wenn die eingebaute Seite nicht plan ist, ist besonders darauf zu achten, dass eine ausreichende Abdichtung gegeben ist.



■ Bei Kombination des Hauptgehäuses und des Deckenhaltungsadapters für die Installation an der Wand

1. Für die Montage wickeln Sie das Schraubteil des Gehäuses ausreichend mit einem Teflonband ein.
2. Bitte stellen Sie sicher, dass die Dichtung nicht vom Abschirmdeckel getrennt wird, wenn der Abschirmdeckel abgenommen und auf den Gehäusekörper montiert 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.

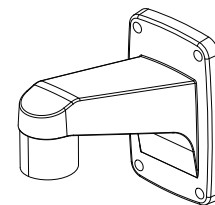


Optionales Installationszubehör

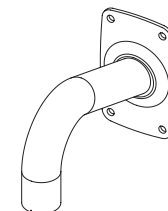
Um die Montage zu vereinfachen, kann passendes Montagezubehör bestellt werden.

1. Für die Wandmontage

- Wandhalterung (SBP-300WM1)

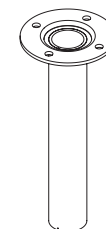


- Wandhalterung (SBP-300WM)



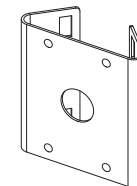
2. Für die Deckenmontage

- Deckenhalterung (SBP-300CM)



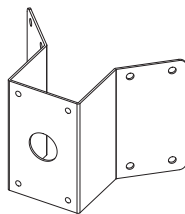
3. Für die Montage der Wandhalterung (SBP-300WM/SBP-300WM1) an einer wenigstens 80mm langen Stange.

- Säulenhalterung (SBP-300PM)



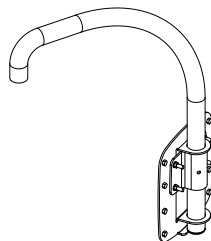
4. Für die Montage der Wandhalterung (SBP-300WM/SBP-300WM1) in einer Wandecke

- Eckhalterung (SBP-300KM)

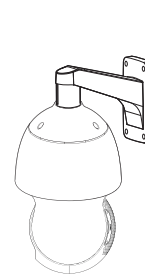


5. Für die Montage auf einem Gebäudedach

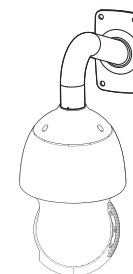
- Brüstung-Montageset (SBP-300LM)



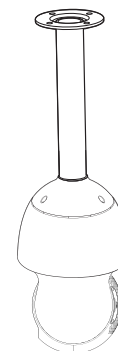
■ Befestigungsgelenk



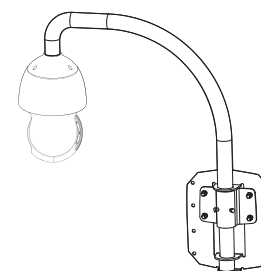
Wandhalterung (SBP-300WM1)



Wandhalterung (SBP-300WM)



Deckenhalterung (SBP-300CM)



Brüstung-Montageset (SBP-300LM)

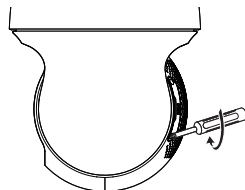
EINSETZEN/ENTFERNEN EINER SD-SPEICHERKARTE

- ! ■ Vor dem Einsetzen der SD-Speicherkarte das Stromkabel der Kamera abtrennen.
- Es wird nicht empfohlen, die SD-Speicherkarte während Regen oder feuchtem Wetter aus der Kamera zu entfernen.
- Ziehen Sie die Schrauben fest an, wenn Sie das Kameragehäuse, den Abschirmdeckel und die SD-Halterung montieren, um das Gerät gegen das Eindringen von Feuchtigkeit zu schützen.
- Wenn Sie eine SD-Speicherkarte montieren oder abmontieren, dann legen Sie das Hauptgehäuse zuerst auf den Boden, um den Verlust von Teilen und einen Sturz zu vermeiden.

Einsetzen einer SD-Speicherkarte

1. Lösen Sie zwei Schrauben an der SD-Halterung, indem Sie sie mit Hilfe des Schraubenziehers gegen den Uhrzeigersinn drehen.

- ! ■ Entfernen Sie die Schrauben nicht.

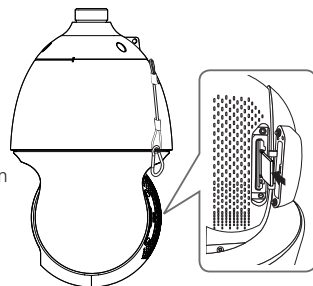


2. Ziehen Sie an der SD-Halterung und drücken Sie die SD-Speicherkarte in Pfeilrichtung hinein, wie auf der Abbildung dargestellt.

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

3. Montieren Sie, nachdem die SD-Karte eingelegt ist, die Kamera in entgegengesetzter Reihenfolge der Demontage.

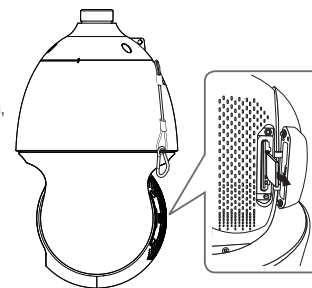
- ! ■ Ziehen Sie beim Zusammensetzen der Kamera die Schrauben fest an, damit das Eindringen von Feuchtigkeit verhindert wird.



Entfernen einer SD-Speicherkarte

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

- ! ■ Wenn zu fest auf die SD-Speicherkarte gedrückt wird, kann es passieren, dass die Karte beim Loslassen aus dem Einschub heraus schießt.
- Vor dem Entfernen der SD-Speicherkarte das Gerät auf **<Aus>** im Menü **<Speicherkapazität>** stellen, die Schaltfläche **[Anwenden]** drücken und die Kamera ausschalten.
- Wenn Sie die Kamera ausschalten oder die SD-Speicherkarte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

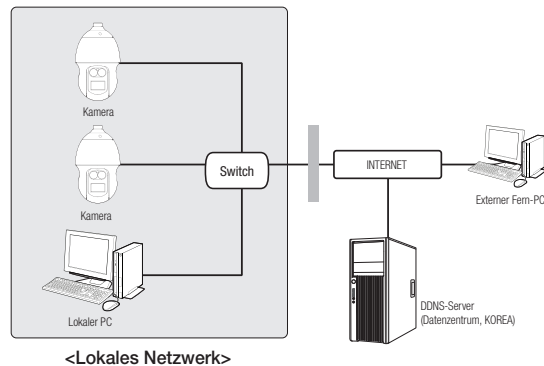


Sie können die Netzwerkeinstellungen gemäß Ihrer Netzwerkkonfigurationen einrichten.

DIREKTES VERBINDEN DER KAMERA AN DAS LAN

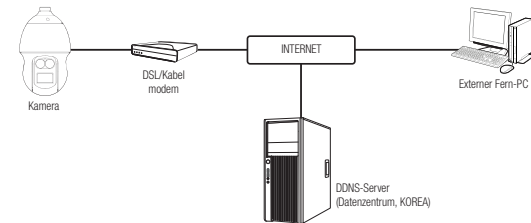
Anschluss an die Kamera von einem lokalen PC im LAN

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 17)

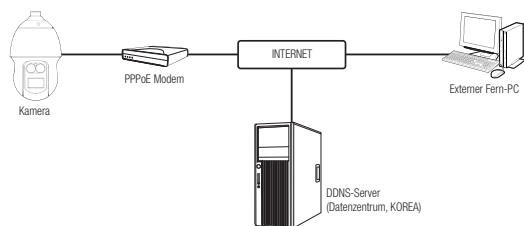
VERBINDEN DER KAMERA DIREKT MIT EINEM DHCP BASIERTEN DSL/ KABELMODEM



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

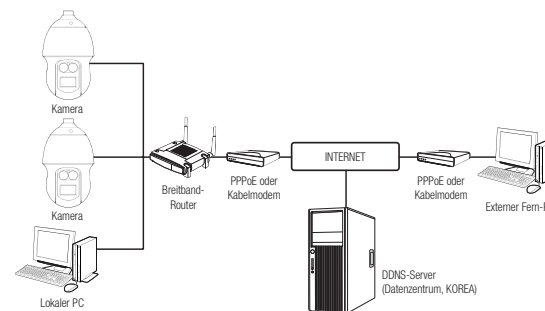


1. Den Benutzer-PC direkt mit der Netzwerkkamera verbinden.
2. Den Device Manager ausführen und die IP-Adresse der Kamera ändern, so dass Sie sich mit dem Webbrowser auf Ihrem Desktop mit dem Internet verbinden können.
3. Verwenden Sie den Webbrowser, um eine Verbindung mit dem Web Viewer herzustellen.
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 19)

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 19)

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

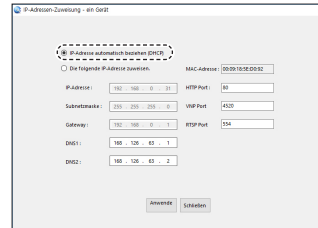
5. Auf die Schaltfläche **[Anwenden]** klicken.
6. Wenn die Erfolgsmeldung erscheint, auf **[OK]** klicken.

Konfigurieren der dynamischen IP

IP-Adresse vom DHCP-Server beziehen.

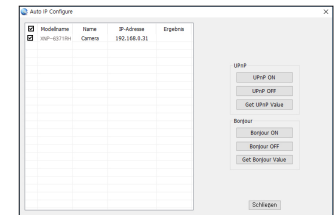
- Beispiel einer dynamischen IP-Umgebung
 - Wenn einem Breitband-Router, mit dem Kameras verbunden sind, eine IP-Adresse von einem DHCP-Server zugewiesen wird
 - Wenn die Kamera direkt mit einem xDSL- oder Kabelmodem mithilfe eines DHCP-Protokolls verbunden wird
 - Wenn die IP-Adressen von dem internen 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

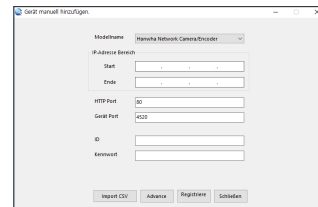
1. In der Liste auf die Kamera klicken, von der die IP automatisch konfiguriert werden soll.
2. Auf der Hauptseite des Device Manager auf **< + >** klicken.
 - Das Menü Equipment Setting erscheint.
3. Im Menü auf **<Auto IP Configure (Automatische IP-Konfiguration)>** klicken.
4. Auf die Schaltfläche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

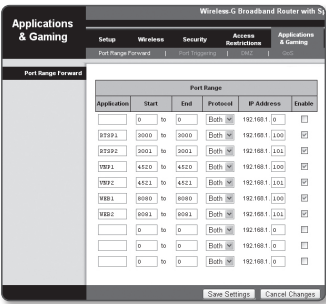


PORTBEREICHWEITERLEITUNG KONFIGURIEREN (PORT MAPPING)

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.

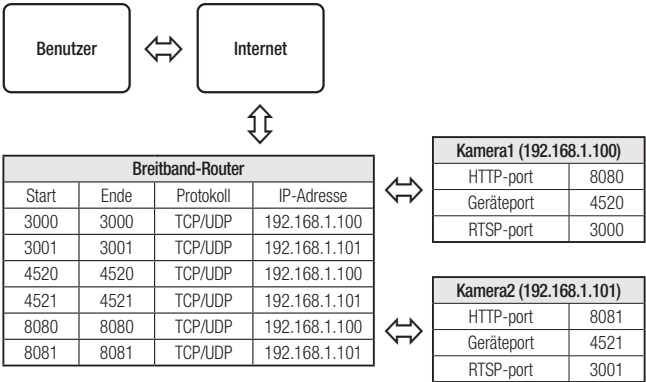


- Die Einstellung des Port-Forwarding wird am Beispiel der Einstellung eines CISCO IP-Routers gezeigt.
- Die Netzwerkeinstellungen können sich je nach Breitband-Routermodell unterscheiden. Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.

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

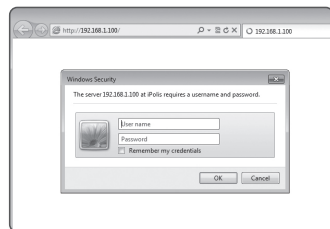


- Um DDNS zu verwenden, melden Sie sich auf der DDNS-Homepage an (<http://ddns.hanwha-security.com>) und registrieren Sie das Produkt unter **[Mein DDNS]>[Produkt registrieren]**.

VERBINDUNG MIT DER KAMERA

Sie würden, normalerweise

1. Starten Sie den Internetbrowser.
2. Die IP-Adresse der Kamera in die Adresszeile eingeben.
 bsp) • IP 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.

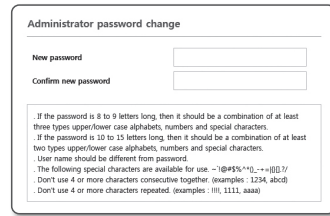
Sobald Sie ein auf dynamischer IP basierendes Gerät beim DDNS-Server registrieren, können Sie die geänderte IP-Adresse einfach überprüfen, wenn Sie versuchen auf das Gerät zuzugreifen.

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.



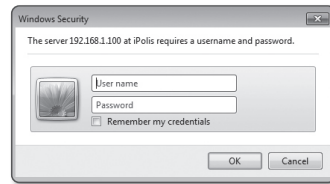
ANMELDEN

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 Web Viewer enthält den aktuellen Plug-in Web Viewer sowie den neuen Web Viewer ohne Plug-in. Aus diesem Grund ist der Web Viewer auch für die neuesten Browser-Umgebungen verfügbar, wie Chrome, EDGE, Firefox (nur Windows 64 Bit), die keine Plug-ins unterstützen. Plug-ins sind empfohlen für die Browser IE und Safari, für die Plug-ins installiert werden können. Je nach Browser-Umgebung können folgende Unterschiede auftreten.

- **Browser Chrome, Firefox (nur Windows 64 Bit), EDGE und Safari** : Auch wenn die Browser-Umgebung keine Plug-ins unterstützt, ermöglicht unser Web Viewer ohne Plug-ins die Verwendung von Web Viewer.
 - Wenn es Verzögerungen bei Live-Video gibt, wird automatisch ein Profil ohne Plug-ins (H.264s HD (1280x720) 20 FPS) erzeugt.
 - Für die Wiedergabe kann eine Verzögerung je nach Codec und Auflösung auftreten.
- Die Funktionen ohne Plug-ins sind für den Browser Chrome optimiert.
- **IE und Safari Browser** : 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

Wenn auf den Web Viewer ohne Plug-ins mit dem Browser IE zugegriffen und versucht wird, Funktionen zu verwenden, wie die Anfrage für ein Live-Video oder die Wiedergabe eines aufgenommenen Videos, erscheint eine Installations-Meldung. Wenn sie erscheint, muss das Web Viewer-Plug-in installiert werden, um die Funktionen zu verwenden.

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

- Wenn der Status des Herunterladens der Plug-in-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.

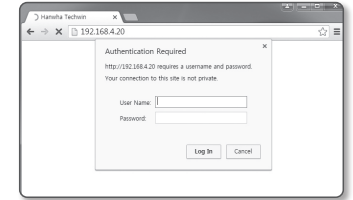
Die Web Viewer-Plugin-Installation ist abgeschlossen.

- Wenn Sie nach der Installation des Webviewer-Plug-Ins bei Ihrem Internet-Explorer zu dem Installationsbildschirm gehen, prüfen Sie, ob `webviewer_activexplugin_lib.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 es weiterhin nicht funktioniert, zu „Werkzeug → Internet-Optionen → Sicherheit → Vertraute Seiten“ gehen und die IP oder Domäne Ihrer Kamera registrieren.

EINEN KOSTENLOSEN PLUG-IN-WEBVIEWER VERWENDEN

Wenn auf die Kamera über die Webbrowser Google Chrome, Mozilla Firefox oder MS Edge zugegriffen wird, wird kein Plug-in installiert, aber das Live-Kamera-Video kann weiter ohne Installation von Plug-ins angesehen werden.

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



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 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.

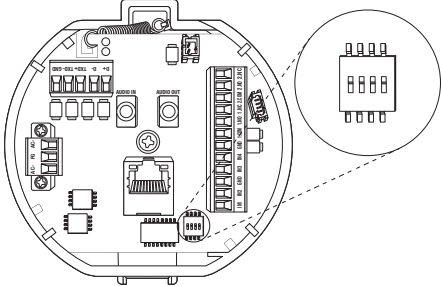
DIP-SCHALTER EINSTELLUNG

Einstellen der Protokolle und der ID DIP-Schalter

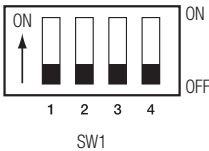
Mit Hilfe der Datenübertragungs- und ID DIP-Schalter können verschiedene Einstellungen des Kamerasystems vorgenommen werden. Bevor das Gerät installiert wird, müssen die DIP-Schalter entsprechend der Installationsumgebung eingestellt werden.

- 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	Vorbehalten
2	Abbrucheinstellung 1
3	Abbrucheinstellung 2
4	Vorbehalten

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

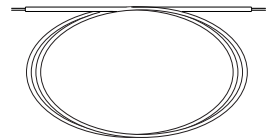
Kontrollsignalverbindung

- 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.

SPEZIFIKATIONEN

	Elemente	Beschreibung
Video	Bildaufnahmegerät	1/2" 2.17 CMOS
	Gesamtpixelanzahl	1952(H) x 1113(V), 2,17 M
	Effektive Pixel	1937(H) x 1097(V), 2,12 M
	Abtastsystem	Progressiv
	Mindestbeleuchtung	Farbe : 0,01 lux (1/30 Sek, F1,5) S/W : 0 Lux (IR LED an)
	Signal-Rauschabstand	50dB
	Videoausgang	CVBS : 1.0 Vp-p / 75Ω Composite, 720x480(N), 720x576(P), für die Installation
Objektiv	Brennweite (Zoomrate)	6 ~ 222 mm (Optisch 37X)
	Max. Blendenverhältnis	F1,5 (Weit) ~ F4,6 (Tele)
	Sichtwinkelfeld	H : 59,3°(Weit) ~ 1,9°(Tele) / V : 35,8°(Weit) ~ 1,1°(Tele)
	Mindestentfernung zum Objekt	Weit 1,5 m, Tele 2 m
	Fokus-Steuerung	Auto/Manuell/Einzelaufnahme AF
	Objektivart	DC Autom. Blende
	Montagetyp	Fest integriert
Schwenken / Neigen / Drehen	Schwenkbereich	360° Endlos
	Schwenkgeschwindigkeit	Voreinstellung : 400°/Sek. Manuell : 0,024°/Sek. -250°/Sek.
	Neigebereich	190°(-5° ~185°)
	Neigegeschwindigkeit	Voreinstellung : 300°/Sek. Manuell : 0,024°/Sek. -250°/Sek.
	Sequenz	Voreinstellung (300ea), Schwenken, Gruppe (je 6), Verfolgen, Tour, Auto-Ausführen, Zeitplan
	Voreingestellte Präzision	±0.2°
	Azimet	Ja (O/W/S/N/NO/NW/SO/SW OSD)
	Autom. Nachverfolgen	Aus / Ein

	Elemente	Beschreibung
Funktionsweise	Kameratitel	Aus / Ein (bis zu 85 Zeichen werden angezeigt) - W/W: Englisch/Numerisch/Sonderzeichen - Allgemein: Mehrfachleitungen (Max. 5), Farbe (Grau/Grün/Rot/Blau/Schwarz/Weiß), Transparenz, Automat. Skalierung je nach Auflösung
	Tag und Nacht	Autom. (Elektrisch) / Farbe / S/W / Zeitplan
	Gegenlichtkompensation	Aus / BLC / HLC / WDR
	BREIT-Dynamischer Bereich	150dB
	Kontraststeigerung	SSDR (Aus / Ein)
	Digitale Rauschunterdrückung	SSNR5 (2D+3D Rauschunterdrückung) (Aus / Ein)
	Digitale Bildstabilisierung	Aus/Ein (eingebauter Gyroskop)
	Entnebeln (Optical)	Auto/Manuell/Aus
	Bewegungserkennung	Aus/An (8 ea, rechteckig)
	Privatsphärenausblendung	Aus / An (24 Zonen rechteckiger Zonen) - Farbe : Grau/Grün/Rot/Blau/Schwarz/Weiß - Zoomverhältnisooption für Maskenmodus - Mosaik-Option
	Verstärkungssteuerung	Aus / Gering / Mittel / Hoch
	Weißabgleich	ATW/AWC/Manuell/Innen/Außen (einschließlich Mercury & Sodium)
	Elektronischer Blendenverschluss	Minimum / Maximum / Anti-Flimmer (2 ~ 1/12,000Sek)
	Digitalzoom	32x
	Bilddrehung	Umdrehen / Spiegeln : Aus/Ein
	Video- und Audio-Analyse	Manipulierung, Herumstehen, Richtungserkennung, Virtuelle Linie, Betreten/ Verlassen, Zeigen/Verbergen, Geräusch-Erkennung, Gesichtserkennung, Bewegungserkennung, Nebelerkennung, Geräuschklassifizierung
	Serielle Schnittstelle	RS-485 - Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell
	Alarm E/A	Eingang 4 Stk. / Ausgang 2Stk (Relais-Art)
	Alarm Auslöser	Alarmeingang, Bewegungserkennung, Video- und Audio-Analyse, Netzwerk trennen

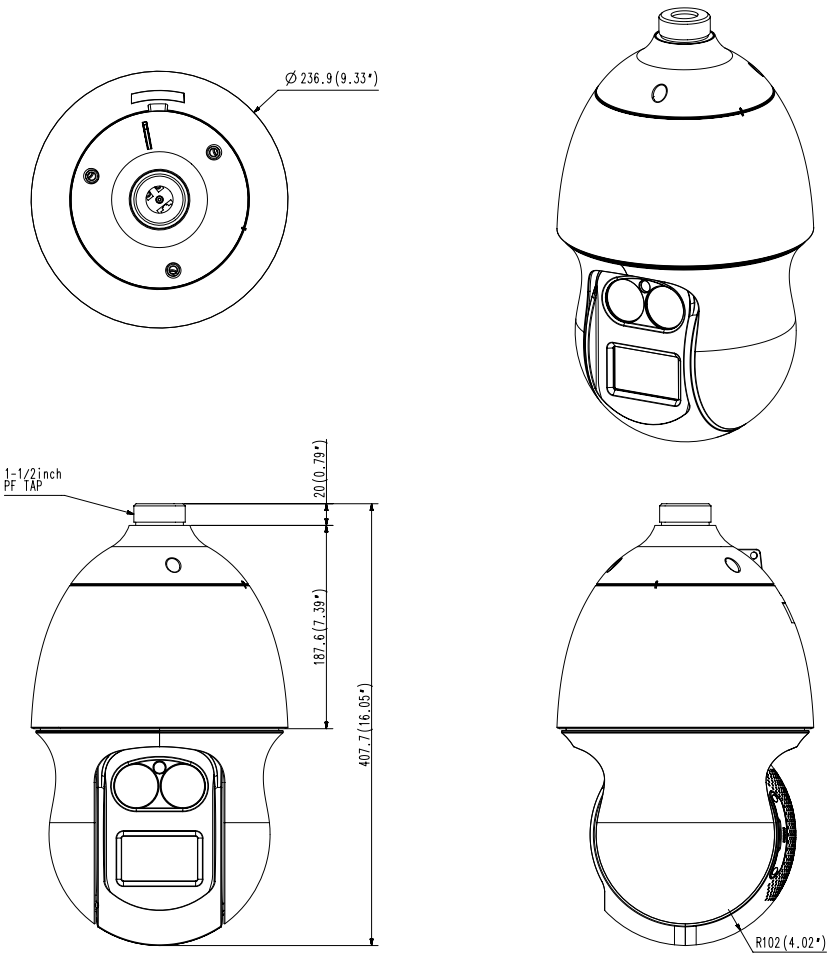
Elemente		Beschreibung
Funktionsweise	Alarmereignisse	<ul style="list-style-type: none"> Hochladen der Datei über FTP, E-Mail Benachrichtigung über E-Mail, TCP und HTTP Lokaler Speicher (SD/SDHC/SDXC) oder NAS-Aufnahme bei Ereignis. (Alarmauslöser) Externe Ausgabe PTZ-Voreinstellung
	Audio In	Wählbar (Mic IN/Linie IN), Netzspannung: 2,5VDC(4mA), Eingabeimpedanz: etwa 2K Ohm
	Audio aus	Ausgang (3,5 mm Mono-Buchse), Max. Ausgangspegel: 1Vrms
	Pixel-Zähler	Unterstützung
Netzwerk	Ethernet	RJ-45 (10/100 BASE-T)
	Videokomprimierungsformat	H.264 (MPEG-4 Teil 10/AVC) : H.265, Bewegung JPEG
	Auflösung	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
	Max. Framerate	H.265/H.264: Max. 60 FPS bei allen Auflösungen Bewegungs-JPEG: Max. 30 FPS bei allen Auflösungen
	Smart codec	Manueller Betrieb (bereichsbasiert : JE 5)
	Video Qualität Anpassung	H.264/H.265/MJPEG : Bitrate-Levelsteuerung
	Bitrate Steuerungsmethode	H.264/H.265: CBR oder VBR, mit WiseStream Bewegung JPEG : VBR
	Streaming Kapazität	Mehrfach Streaming (Bis zu 10 Profile)
	Audiokomprimierungsformat	G.711 u-law /G.726 Selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48 Kbps bei 16KHz
	Audiokommunikation	Bidirektional

Elemente		Beschreibung
Netzwerk	IP	IPv4, IPv6
	Protokoll	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
	Sicherheit	HTTPS (SSL) Authentifizierungsprotokoll Anmelde-Übersicht Authentifizierung IP-Adressfilter Benutzerzugriff Protokoll 802.1x Authentifizierungsmethode (EAP-TLS, EAP-LEAP)
	Streaming-Methode	Unicast/Multicast
	Max. Benutzerzugriff	20 Benutzer im Unicast-Modus
	Randspeicher	SD/SDHC/SDXC (bis zu 128 GB) - Bewegungsbilder, die mit einer SD-/SDHC-/SDXC-Speicherkarte aufgenommen werden, können heruntergeladen werden. - Die Kamera erkennt automatisch, wenn ein Speicher angeschlossen wird. - Die Speicherstatusanzeige (Bereit/Fehler/Aufnahme/formatieren/sperrern) NAS (Network Attached Storage) Lokaler PC für Sofortaufnahme (nur Plug-in-Viewer)
	Application Programming Interface	ONVIF Profile S/G SUNAPI 2.0(HTTP API) WiseNet Open Plattform
	Sprache der Webseite	Englisch, Französisch, Deutsch, Spanisch, Italienisch, Chinesisch, Koreanisch, Russisch, Japanisch, Schwedisch, Portugiesisch, Tschechisch, Polnisch, Türkisch, Niederländisch, Ungarisch, Griechisch
	Web Viewer	Unterstützte Betriebssystem : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 Plug-in freier Web-Viewer Unterstützter Browser : Google Chrome, MS Edge, Mozilla Firefox (nur Window 64 Bit), Apple Safari 10 (nur Mac OS X) Plug-in-Web-Viewer Unterstützter Browser : MS Explorer 11, Apple Safari 10 (nur Mac OS X)
	Software zur zentralen Verwaltung	SmartViewer

Elemente		Beschreibung
Betriebsbedingungen	Betriebstemperatur / Feuchtigkeit	-50°C ~ +55 (-58°F ~ +131°F) / Weniger als 90% rel. Luftfeuchtigkeit
	Lagerungstemperatur / Feuchtigkeit	-50°C ~ +60°C (-58°F ~ +140°F) / Weniger als 90% rel. Luftfeuchtigkeit
	Schutz vor Eindringling	IP66
	Vandalismusbeständig	IK10
Elektrisch	Eingangsspannung / Strom	AC 24 V ±10%
	Energieverbrauch	90W(Heizung Aus, IR AN), 60W(Heizung AN, IR AN)
Mechanisch	Farbe / Material	Schwarz (Kopf) + Elfenbein (Gehäuse)/Kunststoff+Metall
	Abmessungen (Ø x H)	Ø236,9 x H407,7 mm
	Gewicht	7,1kg

PRODUKTANSICHT

Einheit: mm (inch)



FEHLERSUCHE

PROBLEM	LÖSUNG
Die Lautstärke des Mikrofons ändert sich periodisch, wenn auf den Web Viewer über Chrome oder Firefox unter Windows 10 zugegriffen wird.	<ul style="list-style-type: none"> Dies passiert, wenn der Mikrofon-Treiber auf Realtek eingestellt ist. Dies ändern durch Installieren des High Definition Audio-Gerätetreibers (Windows Standard-Treiber) oder eines Treibers eines Drittanbieters.
Wenn Sie unter Safari per HTML auf den Plug-in-freien Webviewer zugreifen, wird kein Video angezeigt.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Schalten Sie die Firewall-Einstellungen an Ihrem PC aus und suchen Sie dann die Kamera erneut.
Die Bilder überlappen.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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
Audio-Aufnahmen funktionieren nicht, auch wenn der Audioeingang eingestellt ist.	<ul style="list-style-type: none"> Zu <Basic>-<Video-Profil> gehen und den Kasten <Audioeingang> prüfen.
Nach Einstellen von <Bewegungserkennung> auf <Aktivieren> in <Analyse> wird über E-Mail keine Datei geliefert, auch wenn ein Videoanalyse Ereignis an der Kamera eingetreten ist.	<ul style="list-style-type: none"> Überprüfen Sie die Einstellungen in der folgenden Reihenfolge: <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Prüfen Sie die Einstellungen des Ports für den Signalausgang.
Auf die SD Speicherkarte kann nicht aufgenommen werden.	<ul style="list-style-type: none"> Auf die SD-Speicherkarte kann nicht aufgenommen werden.
Die SD Speicherkarte ist eingelegt, aber die Kamera funktioniert nicht richtig.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Bestätigen Sie, dass die in NAS registrierten Informationen richtig sind.
Meldet, dass die NAS-Einstellung fehlgeschlagen ist.	<ul style="list-style-type: none"> 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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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	
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LGPL SW

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

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

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



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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.

