

NETZWERKKAMERA

Benutzerhandbuch

PNM-9030V



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 Stromversorgung dieses Produkts sollte mit einem zugelassenen Netzgerät der "Klasse 2" oder "LPS", mit einer Leistung von 12 V Gleichspannung, 1.57 A oder PoE, 0.5 A, erfolgen.
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 (Installation and connection)" in der Bedienungsanleitung.
20. Installation oder Verwendung des Produkts ins Wasser kann zu ernsthaften Schäden am Produkt führen.



21. Außerhalb des Abstands zum Gegenstand kann eine Bildschirmverzerrung auftreten.
22. Beim Zugriff auf Multi-Kanäle (CH 1 – 5) kann die eingestellte Fps von 15 Fps um 1 oder 2 Fps abfallen.
23. Beim Codieren kann eine Echtzeit-Fps-Fluktuation von ± 1 Fps auftreten.

WARNUNG

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

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

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

VORSICHT

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

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.

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.

INHALTE

ÜBERSICHT

3

- 3 Wichtige Sicherheitshinweise
- 6 Empfohlene PC-Spezifikationen
- 6 Empfohlene Technische Daten Für MICRO SD/SDHC/SDXC Speicherkarten
- 6 Empfohlene NAS-Spezifikationen
- 7 Lieferumfang
- 8 Auf einen Blick

INSTALLATION & VERBINDUNG

9

- 9 Installation
- 16 Anschluss an Andere Geräte

NETZWERKVERBINDUNG UND KONFIGURATION

19

- 19 Direktes Verbinden der Kamera an das LAN
- 19 Verbinden der Kamera Direkt mit Einem DHCP Basierten DSL/Kabelmodem
- 20 Schaltflächen des IP-Installationsprogramms
- 20 Einstellung der Statischen IP
- 22 Einstellung der Dynamischen IP
- 22 Portbereichweiterleitung Konfigurieren (Port Mapping)
- 23 Von Einem Gemeinsamen Lokalen PC Eine Verbindung zu der Kamera Herstellen
- 23 Von Einem Entfernten PC eine Verbindung zu der Kamera über das Internet Herstellen

WEB VIEWER

24

- 24 Verbindung mit der Kamera
- 25 Passworteinstellung
- 25 Anmelden
- 25 Einrichtung von Camera Web Viewer

ANHANG

26

- 26 Spezifikationen
- 28 Produktansicht
- 28 Fehlersuche
- 30 Open Source Announcement

EMPFOHLENE PC-SPEZIFIKATIONEN

- CPU : Intel(R) Core(TM) i7 3.4 GHz oder höher
- Unterstützte Betriebssystem : MS Windows, Mac OS X
- Unterstützte Webbrowser: Google Chrome, MS Edge, Mozilla Firefox(Nur Windows 64bit), Apple Safari (wird nur bei Mac OS X)

Im Anhang finden Sie detaillierte Informationen über bestätigte Betriebssysteme und Browser.
Einige Funktionen können auch in unterstützten Browsern eingeschränkt sein.

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/SYNOLOGY	Maximal 16 Kameras können gleichzeitig zugreifen.

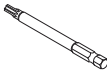


- Falls Sie NAS-Geräte für sonstige Zwecke, als die Videospeicherung verwenden, wird möglicherweise die Anzahl von zugänglichen Kameras reduziert.

LIEFERUMFANG

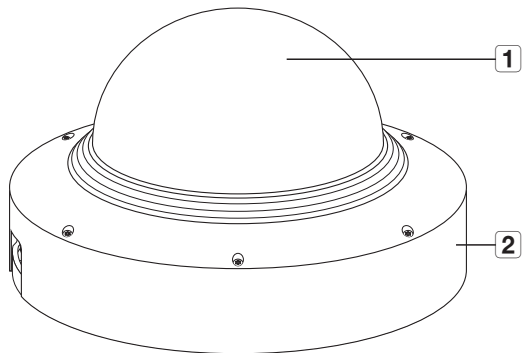
Überprüfen Sie bitte, ob in der Produktverpackung die Kamera und alle Zubehörteile enthalten sind.
(Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.)

Produktdesign	Bezeichnung	Menge	Beschreibung
	Kamera	1	
	Bedienungsanleitung, Installations-CD	1	
	Kurzanleitung (Optional)	1	
	Garantiekarte (Optional)	1	
	Netzklemmleiste	1	Der Netzstecker ist eingesteckt
	Schablone	1	Installationsanleitung des Produkts
	Netzkabel	1	Wird zum Anschließen an den Netzanschluss verwendet
	Audio-/Alarmkabel	1	Für die Verbindung mit dem Audio- und Alarmport
	Kabeltülle	1	Wird zum Verbinden des LAN-Kabel mit einem Durchmesser von 7-8,5 verwendet.
		1	Wird zum Verbinden des LAN-Kabel mit einem Durchmesser von 5-6,5 verwendet.

Produktdesign	Bezeichnung	Menge	Beschreibung
	L-förmiger Schraubenschlüssel	1	Wird verwendet, um die Dome- Abdeckung zu entfernen und zu ersetzen
	Selbstdrehende Schraube	4	Zur Montage an die Wand oder Decke
	Plastikdübel	4	Zum Befestigen einer in einer Bohrung eingesetzten Schraube (verstärkende, verankernde Wirkung)
	Maschinenschraube	4	Benutzt um das Kuppelgehäuse zusammenzubauen, wenn das Produkt auf Rohr, Wandhalterung, usw. installiert oder ein Loch blockiert wird.
	Kappen-Installierer	1	Zum Anschluss des RJ45-Kabels verwendet
	Kartentyp Feuchtigkeitsabsorbierend	1	Bei Installation befestigt.
	Bohrer	1	Wird für die Demontage der Kuppelabdeckung, Montage und Kamerainstallation verwendet.

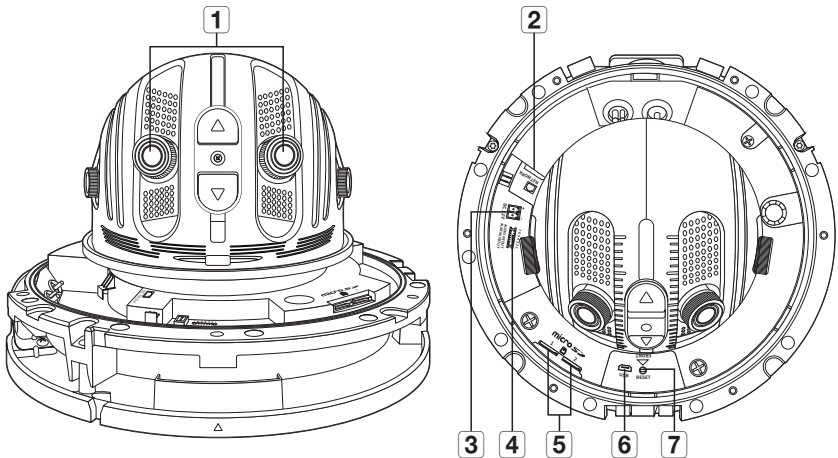
AUF EINEN BLICK

Aufbau



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

Komponenten



Bezeichnung	Beschreibung
1 Objektiv	4 Kameralinsen bilden ein Panoramabild.
2 Netzwerkanschluss	Ein Terminal, das mit Hilfe des RJ-45-Kabels eine Verbindung zu PoE+ oder LAN herstellt.
3 Stromanschluss	Port für die Netzklemmenleiste.
4 Audio- und Alarmschalter	Das Audio- und Alarmschalter in diesen Anschluss einstecken, um eine Verbindung mit dem externen Alarmgerät/Mikrofon/Lautsprecher herzustellen.
5 Micro SD-Speicherkartenfach	Fach für die Micro SD-Speicherkarte.
6 MICRO USB Port	Port für den Anschluss von WiFi-Dongles. Sie können das Installationsvideo über die auf dem Smartphone installierten Anwendungen überprüfen. Verbinden mit WiFi-Dongle Siehe auf Seite 16. ■ WiFi Dongle und OTG-Adapter werden separat verkauft.
7 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 kein DHCP-Server im Netzwerk verfügbar ist, muss das IP-Installer-Programm gestartet werden und Netzwerkeinstellungen wie IP-Adresse, Subnetzmaske, Gateway usw. konfiguriert werden, damit das System mit dem Internet verbunden werden kann.

INSTALLATION



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

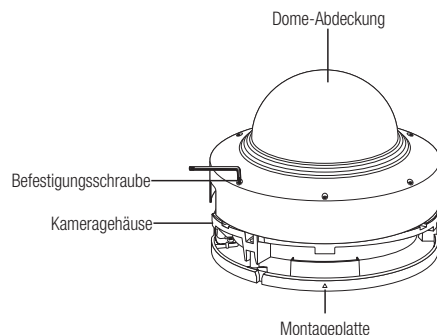
Bevor Sie mit der Installation beginnen

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

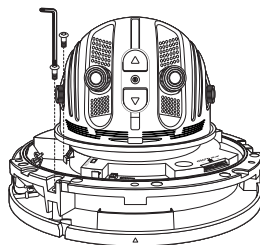
- Wählen Sie einen Aufstellungsort, der mindestens 5-mal das Gewicht der Kamera tragen kann.
- Verklemmte Kabel oder ein abgelöster Kabelschutz können zu Schäden an dem Produkt und Brandgefahr führen.
- Halten Sie aus Sicherheitsgründen andere Personen von dem Ort der Kamerainstallation fern. Achten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

Demontage

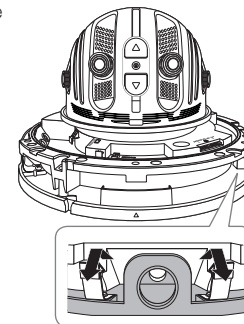
1. Entfernen Sie die Kuppelabdeckung, indem Sie die Befestigungsschraube der Kuppelabdeckung lösen. Dies kann vorgenommen werden, indem der bereitgestellte Inbusschlüssel oder Bohrer gegen den Uhrzeigersinn verwendet wird.



2. Lösen Sie die Befestigungsschraube am Kameragehäuse.

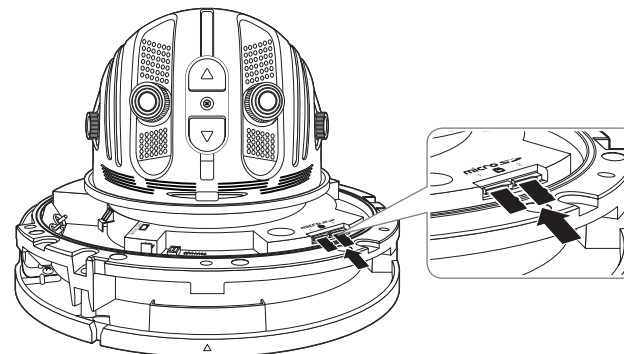


3. Entfernen Sie das Kameragehäuse und die Montageplatte, indem Sie die Tellerfeder ziehen, wie in der Abbildung gezeigt.



Einlegen einer Micro SD-Speicherkarte

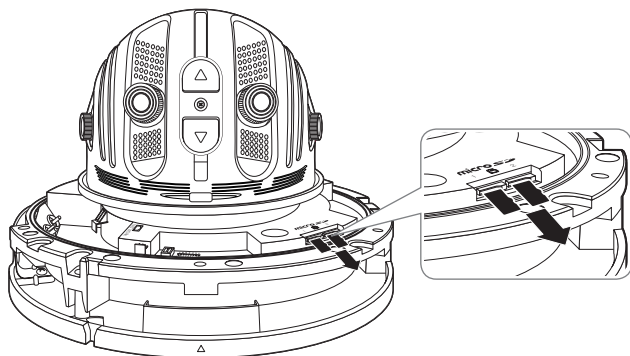
1. Entfernen Sie die Kuppelabdeckung der Kamera.
2. Eine Micro-SD-Karte in Pfeilrichtung einlegen, siehe Abbildung.



- Das Netzkabel von der Kamera abtrennen, bevor die Micro SD-Speicherkarte eingelegt wird.
- Nicht mit Gewalt in falscher Richtung einsetzen. Dies kann Ihre Micro SD-Speicherkarte und Ihr Produkt beschädigen.
- Bei Regen oder hoher Luftfeuchtigkeit empfiehlt es sich nicht, die Micro-SD-Karte einzulegen oder zu entfernen.
- Der Ausbau des Produktdeckels sollte innerhalb von 5 Minuten abgeschlossen sein, sonst besteht die Gefahr der Innenkondensation von Tau.
- Stellen Sie den Produktkörper bei der Installation/Entfernung der Micro-SD-Speicherkarte auf einen flachen Untergrund, um den Verlust oder das Herunterfallen von Teilen zu vermeiden.

Herausnehmen einer Micro SD-Speicherkarte

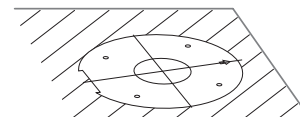
Drücken Sie leicht am ungeschützten Ende der Speicherkarte, wie im Schaubild zu sehen, um die Speicherkarte aus dem Steckplatz auszuwerfen.



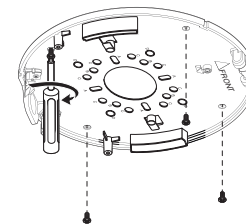
- Sie sollten eine SD-Karte für jeden Kanal aufheben.
- Bitte beachten Sie, dass, falls Sie die Micro SD-Speicherkarte fest drücken und loslassen, sobald sie ausgeworfen wird, diese herauspringen kann.
- Bevor Sie die Micro SD-Speicherkarte im <Speicherkapazität> entfernen, müssen Sie das Gerät auf 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

Installation an einer Decke oder Wand

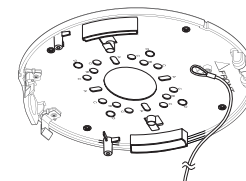
1. Verwenden Sie die mitgelieferte Schablone, um Löcher für die Installation zu bohren (Durchmesser 6 mm und Mindesttiefe 45 mm) und führen Sie die mitgelieferten Kunststoffanker zum Ende hin ein.



2. Richten Sie die Bohrungen der Befestigungsplatte zur Installation mit den Bohrungen mit Kunststoffdübeln aus und ziehen Sie die Schendschrauben an.



3. Befestigen Sie das Sicherheitskabel.



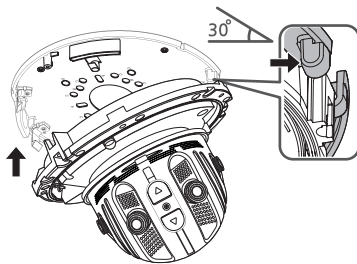
4. Befestigen Sie das Kameragehäuse an der Befestigungsplatte.
 - Befestigen Sie es an den Scharnieren wie in der Abbildung dargestellt.

5. Verbinden sie die Klemme in der Kamera mit dem erforderlichen Kabel.

6. Drücken Sie die Stiftfeder hinein.

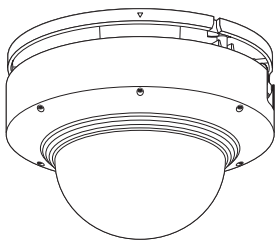
7. Stellen Sie das Objektiv auf die gewünschte Richtung ein, indem Sie sich auf „**Einstellen der Überwachungsrichtung der Kamera**“ beziehen. (Seite 15)

- Falls Sie das Objektiv kippen, müssen Sie das Objektiv anpassen, da dies sonst den Bildschirm blockieren kann.



8. Montieren Sie die Kuppelabdeckung.

- Bei der Montage der Kuppelabdeckung müssen die Pfeile ausgerichtet werden.
- Um sicherzustellen, dass es keine Probleme mit einer Undichtigkeit gegen Wasser gibt, müssen die Befestigungsschrauben unter Zuhilfenahme eines Inbusschlüssels oder Bohrers festgezogen werden.
- Ziehen Sie den schützenden Kunststoff ab, der an der Innen-/Außenseite der Kuppelabdeckung angebracht ist.



Anbindung an den entbündelten Anschluss

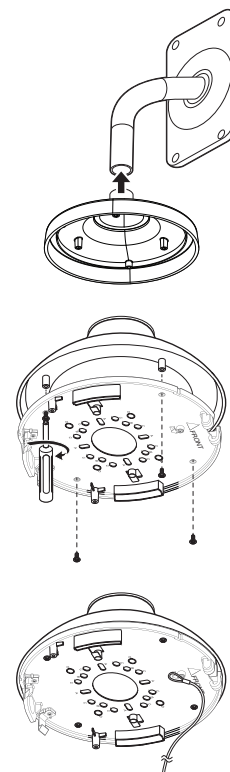
Wählen Sie eine der Optionen (entbündelt) aus und kaufen Sie was für den Ort der Installation oder Ihr Komfort notwendig ist.

1. Installieren sie die Hängehalterung an den Wandhalterungsadapter.

- Wandhalterungsadapters und Hängehalterungen werden separat verkauft.

2. Verbinden Sie die Montageplatte mit der Aufhängung.

3. Befestigen Sie das Sicherheitskabel.

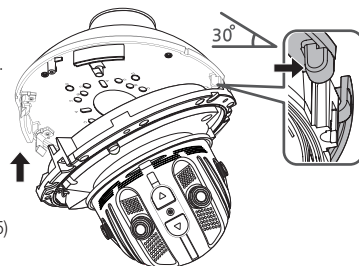


4. Befestigen Sie das Kameragehäuse an der Befestigungsplatte.
 - Befestigen Sie es an den Scharnieren wie in der Abbildung dargestellt.

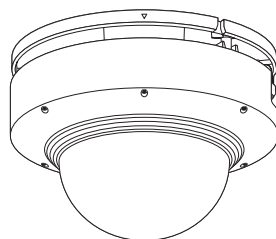
5. Verbinden sie die Klemme in der Kamera mit dem erforderlichen Kabel.

6. Drücken Sie die Stiftfeder hinein.

7. Stellen Sie das Objektiv auf die gewünschte Richtung ein, indem Sie sich auf „**Einstellen der Überwachungsrichtung der Kamera**“ beziehen. (Seite 15)
 - Falls Sie das Objektiv kippen, müssen Sie das Objektiv anpassen, da dies sonst den Bildschirm blockieren kann.



8. Montieren Sie die Kuppelabdeckung.
 - Bei der Montage der Kuppelabdeckung müssen die Pfeile ausgerichtet werden.
 - Um sicherzustellen, dass es keine Probleme mit einer Undichtigkeit gegen Wasser gibt, müssen die Befestigungsschrauben unter Zuhilfenahme eines Inbusschlüssels oder Bohrers festgezogen werden.
 - Ziehen Sie den schützenden Kunststoff ab, der an der Innen-/Außenseite der Kuppelabdeckung angebracht ist.

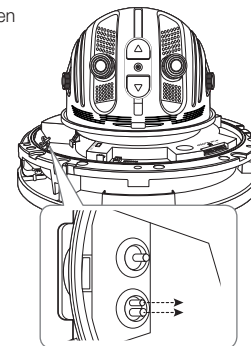


Methode 1. Schließen Sie das wasserdichte Stromkabel sowie das LAN-Kabel an

1. Die Dome-Abdeckung und den Behälter entfernen.
2. Das lange herausragende Teil des Gummistopfen am Boden herausziehen und, wie in der Abbildung dargestellt, entfernen.

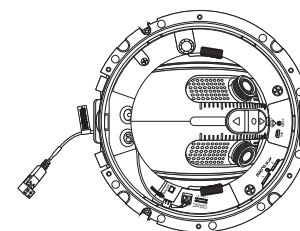


- Eine geeignete Kabeltülle zum Verbinden des LAN-Kabels verwenden.
 - Basiskamera : Das Kabel mit dem Durchmesser 5-6,5 verwenden
 - Bereitgestellte Komponenten: Das Kabel mit dem Durchmesser 7-8,5 verwenden



3. Stecken Sie das Netzkabel in das kleine Loch, indem Sie das herausragende Teil des Gummistopfen, wie in Schritt 2 entfernen, und legen das Kabel entlang der langen Kerbe.

4. Verbinden Sie das Netzkabel mit der Netzklemmenleiste.

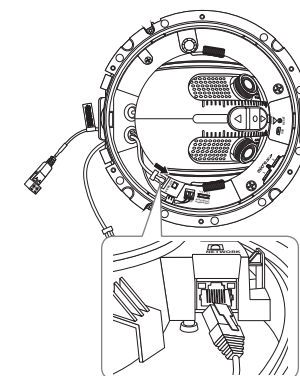


5. Nachdem in Schritt 2 der Gummistopfen entfernt wurde, entsteht eine große Öffnung in die das LAN-Kabel einzustecken ist.

6. Entfernen Sie den Mantel mit einem Kabelschneider und gleichen Sie die Kabel an.

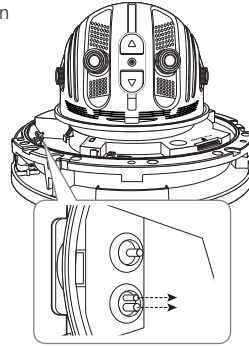
7. Das LAN-Kabel mit einem LAN-Stecker verbinden und in das LAN-Werkzeug einstecken.

8. Nachdem das Kabel fertig ist, kann es mit dem Ethernet-Port verbunden werden.

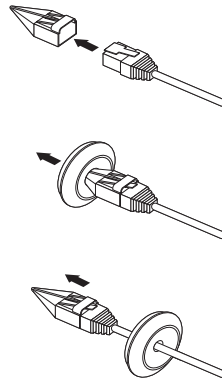


Methode 2. Schließen Sie das wasserdichte Stromkabel sowie das LAN-Kabel an

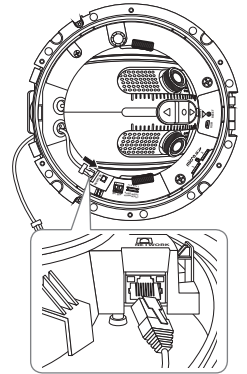
1. Die Dome-Abdeckung und den Behälter entfernen.
2. Das lange herausragende Teil des Gummistopfen am Boden herausziehen und, wie in der Abbildung dargestellt, entfernen.
3. Ziehen Sie die Gummiabdeckung über das Loch, um sie zu entfernen.



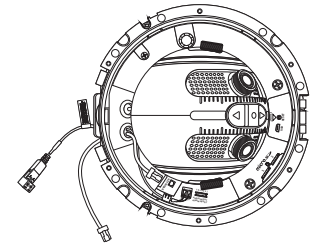
4. Verwenden Sie die Installationsvorrichtung für Kappen, um das RJ45-Kabel durchzuführen.



5. Führen Sie den Gummistopfen erneut ein und verbinden Sie das LAN-Kabel mit dem Ethernet-Anschluss.

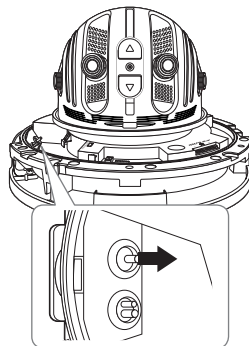


6. Stecken Sie das Netzkabel in das kleine Loch, indem Sie das herausragende Teil des Gummistopfen, wie in Schritt 2 entfernen, und legen das Kabel entlang der langen Kerbe.
7. Verbinden Sie das Netzkabel mit der Netzklemmenleiste.

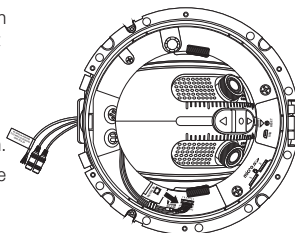


Audio-/Alarmkabel verbinden

1. Die Dome-Abdeckung und den Behälter entfernen.
2. Ziehen Sie, wie in der Abbildung dargestellt, den Gummistopfen am Boden heraus.



3. Führen Sie das Audio-/Alarmkabel in das Loch, das durch Entfernen der Gummikappe in Schritt 2 entsteht. Verbinden Sie das Kabel mit dem PCB-Alarmanschluss.
4. Richten Sie das Kabel so aus, dass es bei der Kamerainstallation nicht beschädigt oder eingeklemmt wird.
5. Führen Sie den Gummistecker des Audio-/Alarmkabels in das Loch.
6. Stellen Sie das Objektiv in eine gewünschte Richtung ein, indem Sie den Abschnitt „Überwachungsrichtung der Kamera einstellen“ nachsehen. (Seite 15)
7. Befestigen Sie die Dome-Abdeckung.



Befestigen eines optionalen Montageadapters

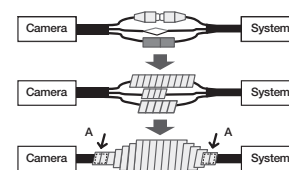
Wählen Sie eine der Optionen (entbündelt) aus und kaufen Sie was für den Ort der Installation oder Ihr Komfort notwendig ist.

1. Die Dome-Abdeckung vom Behälter entfernen, wir verweisen diesbezüglich auf den Abschnitt „**Demontage**“. (Seite 9)
2. Befestigen Sie das Kameragehäuse mit dem optionalen Montageadapter mithilfe von Maschinenschrauben, die mit der Kamera mitgeliefert werden.
3. Verbinden Sie und ordnen Sie die benötigten Kabel sorgfältig, andernfalls werden sie während der Installation beschädigt oder verdreht.
4. Installieren Sie das Kameragehäuse in umgekehrter Reihenfolge der „**Demontage**“.
5. Stellen Sie das Objektiv in eine gewünschte Richtung ein, indem Sie den Abschnitt „**Überwachungsrichtung der Kamera einstellen**“ nachsehen. (Seite 15)
6. Die Dome-Abdeckung schließen.
 - Um sicherzustellen, dass es keine Probleme mit einer Undichtigkeit gegen Wasser gibt, müssen die Befestigungsschrauben unter Zuhilfenahme eines Inbusschlüssels oder Bohrers festgezogen werden.

Einbau im Außenbereich

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

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



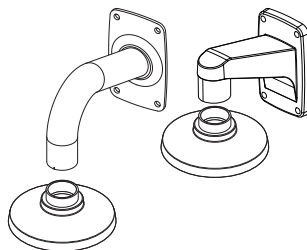
- Sollte die Kabelummantelung nicht richtig wasserundurchlässig sein, kann das zu einer unmittelbaren Undichtigkeit führen. Stellen Sie sicher, dass das Kabel dicht mit einem Klebeband geschützt ist.
- Das wasserdichte Butylklebeband besteht aus Butylkautschuk und kann auf das Doppelte seiner normalen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

Optionales Zubehör für die Installation

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

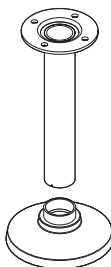
1. WANDADAPTER (SBP-300WM oder SBP-300WM1) / HÄNGEADAPER (SBP-276HM)

Mithilfe dieses Montageadapters wird die Kuppelkamera an der Wand montiert.



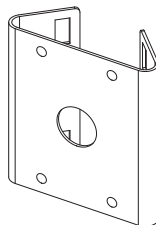
2. DECKENADAPTER (SBP-300CM) / HÄNGEADAPTER (SBP-276HM)

Mithilfe dieses Montageadapters wird die Kuppelkamera an einer Betondecke montiert.



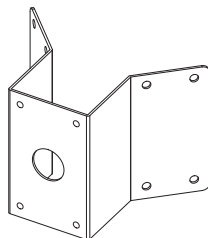
3. MASTADAPTER (SBP-300PM)

Mithilfe dieses Montageadapters wird ein Mauer-Montageadapter (SBP-300WM oder SBP-300WM1) an einer Säule mit einem Durchmesser von mindestens 80 mm montiert.

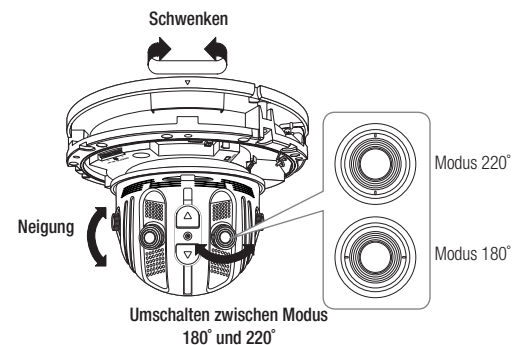


4. ECKADAPTER (SBP-300KM)

Mithilfe dieses Montageadapters wird ein Mauer-Montageadapter (SBP-300WM oder SBP-300WM1) in einer Mauerecke montiert.



Überwachungsrichtung der Kamera einstellen



■ Anpassen der Überwachungsrichtung

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

- Der effektive Pan-Bereich ist insgesamt 355° Grad.
- Der effektive Neigebereich ist insgesamt 60° Grad.

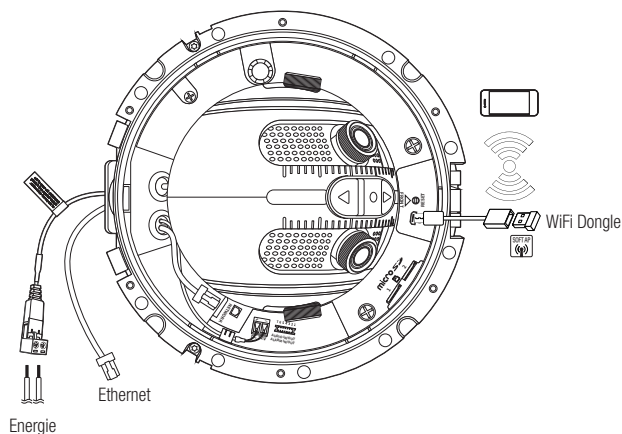


- Das Bild kann, je nach Winkel, von der Kameratasche abgedeckt werden.

■ Anpassungsmethode

1. Nachdem Sie die Kamera installiert haben, passen Sie den Schwenkwinkel entsprechend der Richtung an, die Sie überwachen möchten.
2. Stellen Sie danach den Neigungswinkel so ein, dass die Kamera die Überwachungsrichtung blickt.
3. Das Objektiv drehen, um den Modus 180°/Modus 220° zu wechseln.

ANSCHLUSS AN ANDERE GERÄTE



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

Ethernet-Verbindung

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

WiFi-Verbindung

Kameraeinstellung

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

Smartphone-Einrichtung

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

Empfohlener Dongle-Hersteller

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

Stromversorgung.

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

- Wenn sowohl die PoE+ als auch die 12 V Gleichstrom Stromversorgung angeschlossen ist, wird das Gerät über die 12 V Versorgung gespeist.
 - Es kann ebenfalls ein Router mit PoE+ Funktion für die Stromversorgung der Kamera verwendet werden.
 - Verwenden Sie PoE+, das mit den IEEE802.3at Protokollen kompatibel ist.
 - Es wird die Nutzung von nur einer Stromquelle über PoE+ und Gleichstrom 12 V empfohlen.
- Achten Sie beim Anschluss des Stromkabels darauf, Plus- und Minuspol nicht zu vertauschen.
- Wenn ein externes Gerät angeschlossen werden soll, muss das Gerät vor dem Anschließen abgeschaltet werden.

Spezifikation des Netzkabels

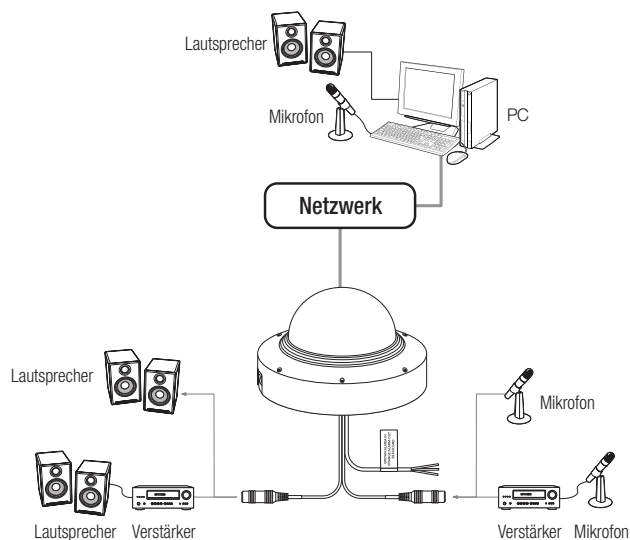
Bei DC 12V Eingabe:

Kabeltyp (AWG)	#22	#20	#18
Kabellänge (max.)	24m	38m	60m

Netzwerk-kabel-Spezifikation

Artikel	Inhalte	Anmerkung
Stecker	RJ45 (10/100/1000BASE-T)	
Ethernet	10/100/1000BASE-T	Bei einem Betrieb mit 1000BASE-T wird ein UTB-6-Kabel oder ein höheres Kabel für den Giga-Hub empfohlen.
Kabel	UTP Kategorie 6	
Max. Entfernung	100M	Gleichstromwiderstand $\leq 0,188 \Omega/\text{m}$
PoE+ Support	IEEE 802.3at	

Audio E/A Blockdiagramm



1. Verbinden Sie den AUDIO IN Anschluss der Kamera mit dem Mikrofon oder dem LINE OUT Anschluss des Verstärkers, an den das Mikrofon angeschlossen ist.
2. Verbinden Sie den AUDIO OUT Anschluss der Kamera mit dem Lautsprecher oder dem LINE IN Anschluss des Verstärkers, an den das Mikrofon angeschlossen ist.
3. Überprüfen Sie die Spezifikationen für den Audioeingang.

• Audio Codec

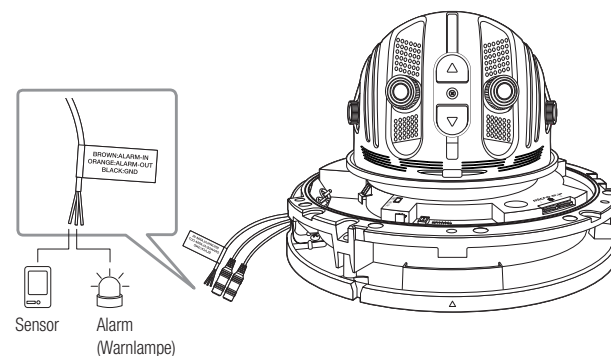
- Audioeingang : G.711 PCM (Bitrate: 64 Kbps/Sampling-Frequenz: 8 kHz), G.726 ADPCM (Bitrate: 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps/Sampling-Frequenz: 8 kHz), AAC (Bitrate: 48 Kbps/Sampling-Frequenz: 16kHz)

• Vollduplex Audio

- **Audio Ein** : Wahlweise (Mikrofon/Line-in), unterstützte Spannung: 2,5 VDC (4 mA), Eingangsimpedanz: 2 K Ohm
- **Audio Aus** : Line-out (3,5 mm Monostecker), maximale Leistung: 1 Vms
- **Line out Impedanz** : 600Ω

I/O-Anschlüsse

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



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

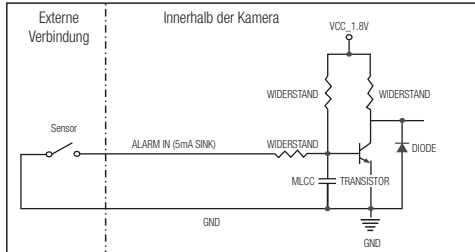


- Wenn Geräte (z.B. Blinklichter und Sirene), die die Spannungs- und Stromspezifikation überschreiten, mithilfe eines Open-Kollektors angeschlossen werden, kann es zu Funktionsstörungen kommen. Wenn Sie Geräte anschließen, die die Spezifikationen zu Netzspannung und Stromstärke überschreiten, ziehen Sie den **"Schaltplan Alarmausgabe"**, zurate. (Seite 18)

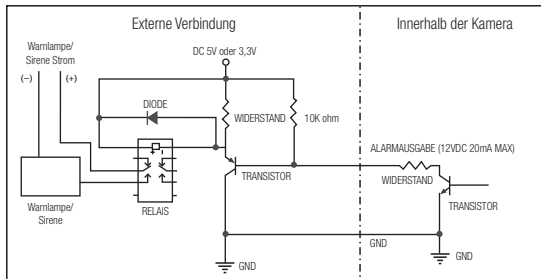
Anschließen des externen Sensors

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

Alarm im Schaltplan



Schaltplan Alarmausgabe

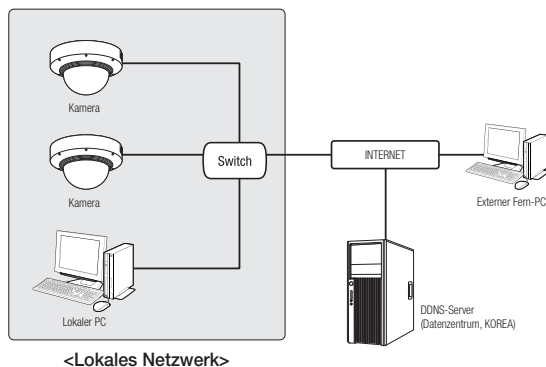


Sie können die Netzwerkeinstellungen gemäß Ihrer Netzwerkkonfigurationen einrichten.

DIREKTES VERBINDEN DER KAMERA AN DAS LAN

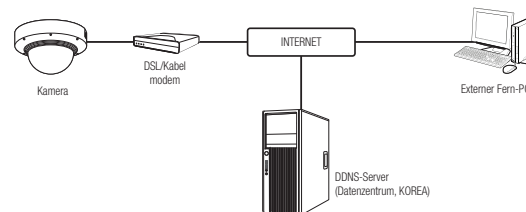
Anschluss an die Kamera von einem lokalen PC im LAN

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



- Ein Fern-PC in einem externen Internetausgang des LAN Netzwerks kann eventuell die im Intranet installierte Kamera nicht ansteuern, wenn die Portweiterleitung nicht korrekt festgelegt oder eine Firewall eingestellt ist. Wenden Sie sich in dem Fall zur Lösung des Problems an Ihren Netzwerkadministrator.
- Bei dem IP-Installer können Sie das Anfangspasswort "4321" zum Einstellen der IP-Adresse, Subnet Mask, Gateway, HTTP Port, VNP Port, IP-Typ verwenden. 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. Verwenden Sie die IP-Adresse, um den IP-Installer zu ändern. Weitere Informationen zur Verwendung des IP-Installers finden Sie unter „Einstellung der statischen IP“; (Seite 20)

VERBINDEN DER KAMERA DIREKT MIT EINEM DHCP BASIERTEN DSL/ KABELMODEM

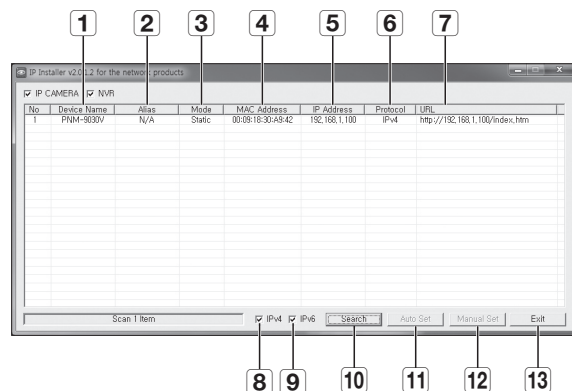


1. Den Benutzer-PC direkt mit der Netzwerkkamera verbinden.
2. Führen Sie den IP-Installer aus und ändern Sie die IP-Adresse der Kamera, damit Sie den Webbrowser Ihres Desktops mit dem Internet verbinden können.
3. Verwenden Sie den Webbrowser, um eine Verbindung mit dem Web Viewer herzustellen.
4. Gehen 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.

h2>SCHALTFLÄCHEN DES IP-INSTALLATIONSPROGRAMMS



Bezeichnung	Beschreibung
1 Device Name	Modellname der verbundenen Kamera. Klicken Sie auf die Spalte, um die Liste nach Modellnamen zu sortieren. Wenn Sie jedoch während einer Suche darauf klicken, wird die Suche gestoppt.
2 Alias	Diese Funktion steht zurzeit nicht zur Verfügung.
3 Mode	Für den aktuellen Verbindungsstatus des Netzwerkes wird entweder <Static> oder <Dynamic> angezeigt.
4 MAC(Ethernet) Address	Ethernetadresse der verbundenen Kamera. Klicken Sie auf die Spalte, um die Liste nach Ethernetadressen zu sortieren. Wenn Sie jedoch während einer Suche darauf klicken, wird die Suche gestoppt.
5 IP Address	IP-Adresse. Klicken Sie auf die Spalte, um die Liste nach IP-Adressen zu sortieren. Wenn Sie jedoch während einer Suche darauf klicken, wird die Suche gestoppt.
6 Protocol	Netzwerkeinstellungen der Kamera. Standardmäßig ist „IPv4“ eingestellt. Kameras mit der Einstellung „IPv6“ werden mit „IPv6“ angezeigt.
7 URL	DDNS URL-Adresse für den externen Zugriff vom Internet aus. Diese wird jedoch von der <IP Address> der Kamera ersetzt, wenn die DDNS-Registrierung fehlschlug.
8 IPv4	Sucht nach Kameras mit der Einstellung IPv4.
9 IPv6	Sucht nach Kameras mit der Einstellung IPv6. Ist nur in einer IPv6 kompatiblen Umgebung aktiviert.

Bezeichnung	Beschreibung
10 Search	Sucht nach Kameras, die zurzeit mit dem Netzwerk verbunden sind. Wenn weder IPv4 noch IPv6 aktiviert sind, wird diese Schaltfläche grau dargestellt.
11 Auto Set	Der IP-Installer konfiguriert die Netzwerkeinstellungen automatisch.
12 Manual Set	Sie müssen die Netzwerkeinstellungen manuell vornehmen.
13 Exit	Damit wird das IP-Installationsprogramm beendet.

- Bei der Installation des IP-Installers nur das auf der Installations-CD gelieferte Installationsprogramm oder, falls vorhanden, die neueste Version verwenden. Die neueste Softwareversion kann von der Hanwha Vision-Website heruntergeladen werden.
- Das Programm Device Manager kann heruntergeladen werden im Menü **<Support>** – **<Online Tool>** auf der Hanwha Vision Webseite (<https://www.HanwhaVision.com>).

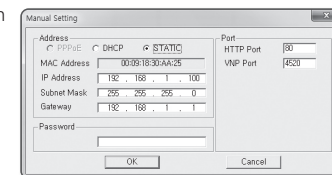
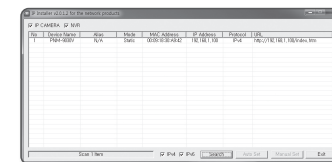
h2>EINSTELLUNG DER STATISCHEN IP

h3>Manuelle Netzwerkeinstellung

Führen Sie die Datei **<IP Installer_v2.XX.exe>** aus, um die Kamerasuchliste anzuzeigen.
Anfangs werden sowohl **[Auto Set]** als auch **[Manual Set]** grau dargestellt.

- Für gefundene Kameras mit der Einstellung IPv6 werden diese Schaltflächen grau dargestellt, da die Kameras diese Funktion nicht unterstützen.

- Wählen Sie eine Kamera aus der Suchliste.
Lesen Sie die MAC-Adresse der Kamera vom Etikett der Kamera ab.
Die Schaltflächen **[Auto Set]** und **[Manual Set]** sind nun aktiviert.
- Klicken Sie auf **[Manual Set]**.
Das Dialogfenster für die Manual Setting erscheint.
<IP Address>, **<Subnet Mask>**, **<Gateway>**, **<HTTP Port>** und **<VNP Port>** der Kamera werden bei den voreingestellten Werten angezeigt.
- Geben Sie die nötigen Informationen in dem Fenster **<Address>** an.
 - MAC (Ethernet) Address : Die auf dem Etikett der Kamera abgedruckte MAC-Adresse wird automatisch angezeigt und erfordert keine Einstellung durch den Benutzer.



- Auf das IP bezogene Parameter lassen sich nur einstellen, wenn DHCP nicht aktiviert ist.

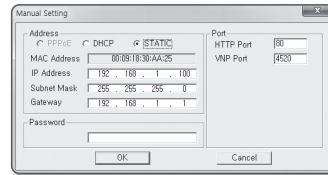
Wenn Sie keinen Breitband-Router verwenden

Kontaktieren Sie ihren Netzwerkadministrator für die Einstellung der <IP Address>, <Subnet Mask> und für das <Gateway>.

- Geben Sie die nötigen Informationen in dem Fenster <Port> an.

- 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.

- Geben Sie das Kennwort ein.
Geben Sie das Passwort des „admin“ Kontos für den Zugriff auf die Kamera ein.

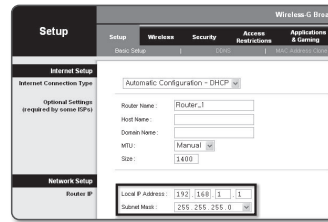


- Es wird empfohlen, dass Sie für Ihr Passwort aus Sicherheitsgründen eine Kombination aus Zahlen, alphabetischen Groß- und Kleinbuchstaben und Sonderzeichen verwenden.
- Informationen für das Ändern des Passworts finden Sie in der Online-Hilfe des WebViewer.

- Klicken Sie auf [OK].
Die manuelle Netzwerkeinstellung ist beendet.

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

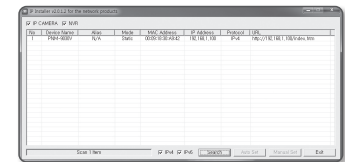
- Wenn der Wert des <HTTP port> nicht 80 ist, müssen Sie die <Port>-Nummer in die Internetadresszeile eingeben, bevor Sie auf die Kamera zugreifen können.
bsp) http://IP-Adresse: HTTP-Port
http://192.168.1.100:8080

Automatische Netzwerkeinstellung

Führen Sie die Datei <IP Installer_v2.XX.exe> aus, um die Kamerasuchliste anzuzeigen.
Anfangs werden sowohl [Auto Set] als auch [Manual Set] grau dargestellt.

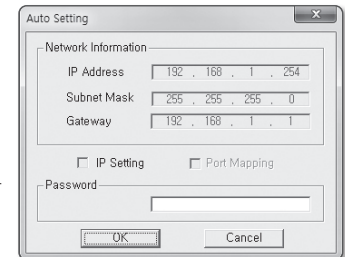
- Für gefundene Kameras mit der Einstellung IPv6 werden diese Schaltflächen grau dargestellt, da die Kameras diese Funktion nicht unterstützen.

- Wählen Sie eine Kamera aus der Suchliste.
Lesen Sie die MAC-Adresse der Kamera vom Etikett der Kamera ab.
Die Schaltflächen [Auto Set] und [Manual Set] sind nun aktiviert.
- Klicken Sie auf [Auto Set].
Das Dialogfenster für die Auto Setting erscheint.
Die <IP Address>, <Subnet Mask> und das <Gateway> werden automatisch eingerichtet.



- Geben Sie das Kennwort ein.
Geben Sie das Passwort des "admin" Kontos für den Zugriff auf die Kamera ein.

- Es wird empfohlen, dass Sie für Ihr Passwort aus Sicherheitsgründen eine Kombination aus Zahlen, alphabetischen Groß- und Kleinbuchstaben und Sonderzeichen verwenden.
- Informationen für das Ändern des Passworts finden Sie in der Online-Hilfe des WebViewer.



- Klicken Sie auf [OK].
Die automatische Netzwerkeinstellung ist beendet.

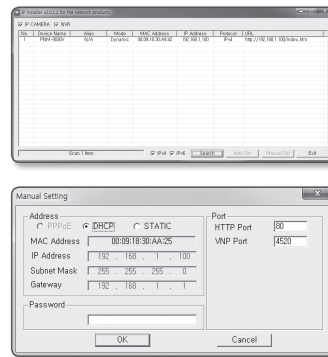
EINSTELLUNG DER DYNAMISCHEN IP

Einstellung der dynamischen IP-Umgebung

- 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

Die dynamische IP überprüfen

- Führen Sie den IP-Installer auf dem lokalen Computer des Benutzers aus. Kameras mit **<Dynamic IP>** werden in der Liste angezeigt.
- Wählen Sie eine Kamera aus den Suchergebnissen aus.
- Klicken Sie auf die Schaltfläche **[Manual Set]** und prüfen Sie die **<Dynamic IP>** der Kamera. Wenn die Markierung von **<DHCP>**, gelöscht wird, kann IP auf **<Static>** eingestellt werden.



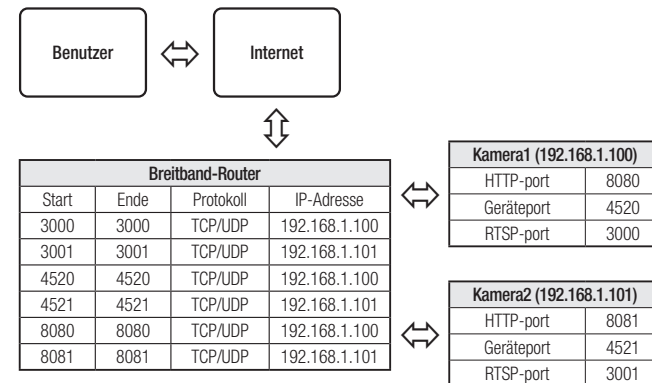
- Wenn Sie fertig sind, klicken Sie auf **[Save Settings]**. Ihre Einstellungen werden gespeichert.

- Die oben Beispielanweisungen basieren auf dem CISCO's Breitband-Router.
- 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 :

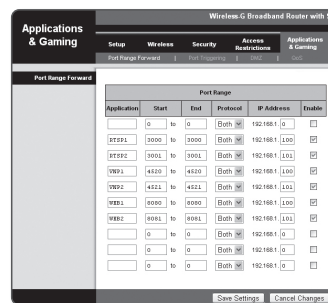


PORTBEREICHWEITERLEITUNG KONFIGURIEREN (PORT MAPPING)

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

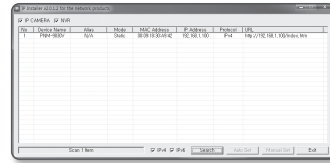
- Wählen Sie aus dem Einstellungs Menü des Breitband-Routers **<Applications & Gaming>** - **<Port Range Forward>**. Für die Einstellung der Portbereichweiterleitung eines Breitband-Routers von einem anderen Anbieter lesen Sie die Bedienungsanleitung dieses Breitband-Routers.
- Wählen Sie **<TCP>** und **<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.



- 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. Führen den IP-Installer aus.
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

Da die Verwendung des IP-Installers auf einem Remotecomputer der nicht im Netzwerk-Cluster des Breitband-Routersverbunden ist, nicht zugelassen wird, können Benutzer auf die Kameras innerhalb des Breitband-Router-Netzwerks über die DDNS URL der Kamera zugreifen.

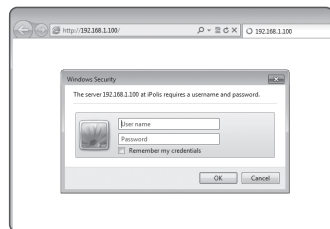
1. Bevor Sie auf eine Kamera im Breitband-Router-Netzwerk zugreifen können, sollten Sie die Portbereichweiterleitung für den Breitband-Router eingestellt haben.
2. Starten Sie den Internetbrowser auf dem entfernten Computer und geben Sie die DDNS-URL der Kamera oder die IP-Adresse des Breitband-Routers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

- Informationen, wie die DDNS zu registrieren ist, können Sie der Einrichtungsanleitung für Netzwerke entnehmen.

VERBINDUNG MIT DER KAMERA

Sie würden, normalerweise

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



Falls die Nummer des HTTP-Ports nicht 80 ist

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

URL Benutzen

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



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

Verbindung über UPnP

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

Verbindung über Bonjour

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

So überprüfen Sie die DDNS-Adresse

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

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

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

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

PASSWORTEINSTELLUNG

Beim ersten Zugriff auf das Produkt, müssen Sie das Anmelde-Passwort registrieren. 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 Anmeldedaten einzugeben.
- Die beste Bildqualität wird erreicht, wenn die Bildschirmgröße auf 100% eingestellt ist. Reduzierung des Bildseitenverhältnis kann das Bild an den Rändern abschneiden.

EINRICHTUNG VON CAMERA WEB VIEWER

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

SPEZIFIKATIONEN

Elemente		Beschreibung
Video	Bildaufnahmegerät	1/2,8" 5M CMOS x 4CH
	Gesamtpixelanzahl	2.704(H) x 2.104(V) 5,69M x 4CH
	Effektive Pixel	2.616(H) x 1.964(V) 5M x 4CH
	Abtastsystem	Progressiver Scan
	Mindestbeleuchtung	Farbe: 0,15 Lux (F2.0, 1/30 Sek., 30IRE) S/W: 0,01 Lux (F2.0, 1/30 Sek., 30IRE)
	Video-Ausgang	USB: Mikro-USB Typ B, 1280 x 720 für Installation
Objektiv	Brennweite (Zoomrate)	4 mm
	Max. Blendenverhältnis	F2.0
	Sichtwinkelfeld	[180° Modus] H: 180, V: 70, [220° Modus] H: 220, V: 52
	Mindestentfernung zum Objekt	3 m (9,84 Fuß): Mindeste empfohlene Entfernung
	Objektivart	Fester Fokus
	Montagetyp	Typ mit Innenplatine (M12)
Schwenken/ Neigen/Drehen	Schwenkbereich	355°
	Neigungsbereich	60°
	Drehbereich	-
Funktionsweise	Kameratitel	Aus / Ein (bis zu 75 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	Auto (ICR) / Farbe / S/W / Programm
	Gegenlichtkompensation	Aus / BLC / WDR
	Weiter Dynamikbereich	120 dB
	Kontraststeigerung	SSDR (Ein/Aus)
	Digitale Rauschunterdrückung	SSNR/III (2D+3D-Geräuschfilter) (Ein/Aus)

Elemente		Beschreibung
Funktionsweise	LDC	Stütze
	Entnebeln	Auto/Manuell/Aus
	Bewegungserkennung	Aus/Ein (8 ea, polygonale Zonen mit 8 Punkten), Übergabe
	Privatsphärenausblendung	Aus / Ein (16 ea, rechteckige Zonen) - Farbe : grau, grün, rot, blau, schwarz, weiß - Mosaik
	Verstärkungssteuerung	Aus / Gering / Mittel / Hoch
	Weißabgleich	ATW / AWC / Manuell / Innenbereich / Außenbereich
	Kontrast	Stufenanpassung
	Elektronischer Blendenverschluss	Minimum / Maximum / Anti-Flimmern (2 ~ 1/12.000 Sek.)
	Kippen / Spiegeln	Kippen : Ein/Aus Spiegeln : Ein/Aus
	Digitales PTZ	Stütze
	Intelligente Video-Analyse	Manipulierung, Herumstehen, Richtungserkennung, Virtuelle Linie, Betreten/Verlassen, Zeigen/Verbergen, Bewegungserkennung, Geräusch-Erkennung, Geräuschklassifizierung, Heatmap
	Alarm E/A	Eingabe je 1 / Ausgabe je 1
	Audio In	Linie IN Netzspannung: 2,5VDC(4mA), Eingabeimpedanz: etwa 2K Ohm
	Audio aus	Line-out (3,5mm Stereo Minijack)
	Alarm Auslöser	Alarmeingabe, Bewegungserkennung, Video- & Audioanalytik, Netzwerktrennung
	Alarmereignisse	• Datei Hochladen über FTP, E-Mail • Benachrichtigung über E-Mail • Lokale Speicherung (SD/SDHC/SDXC) oder NAS Aufnahme bei getrennten Netzwerk & Ereignis (Alarmauslöser) • Externe Ausgabe
	Pixel-Zähler	Stütze

Elemente	Beschreibung
Ethernet	RJ-45 (10/100/1000 BASE-T)
Videokomprimierungsformat	H.265 (HEVC) Main H.264 (MPEG-4 Part 10/AVC): Main/Baseline/High MJPEG
Auflösung	[180° Modus] 6096x2540, 5760x2400, 5472x2280, 5184x2160, 4800x2000, 4560x1900, 4096x1704, 3840x1600, 2688x1120, 2560x1064, 2048x852, 1920x800, 1280x532, 640x264 [220° Modus] 7744x1936, 6096x1524, 5760x1440, 5472x1368, 5184x1296, 4800x1200, 4560x1140, 4096x1024, 3840x960, 2688x672, 2560x640, 2048x512, 1920x480, 1280x320, 640x160
Max. Framerate	H.265/H.264 : Max. 30 FPS bei allen Auflösungen MJPEG: Max. 15 fps bei 2 MP
Smart Codec	Manueller Modus (bereichsbasiert : je 5)
WiseStream II	Stütze
Video Qualität Anpassung	H.264/H.265 : Zielbitrate Pegelsteuerung MJPEG : Zielbitrate Pegelsteuerung
Bitrate Steuerungsmethode	H.264/H.265 : CBR oder VBR Motion JPEG : VBR
Streaming Kapazität	Mehrfaches Streaming (bis zu 5 oder 3 Profile für jeden Kanal)
Audiokomprimierungsformat	G.711 µ-law /G.726 Wählbar G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48 Kbps bei 16 KHz
Audiokommunikation	Bidirektional (2-Weg)
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, LLDP

Netzwerk

Elemente	Beschreibung
Sicherheit	HTTPS (SSL) Authentifizierungsprotokoll Anmelde-Übersicht Authentifizierung IP-Adressfilter Benutzerzugriff Protokoll 802.1X Authentifizierungsmethode (EAP-TLS, EAP-LEAP)
Streaming-Methode	Unicast / Multicast
Max. Benutzerzugriff	15 Benutzer im Unicast-Modus
Randspeicher	SD/SDHC/SDXC (bis zu 256 GB) - Bewegungsbilder, die mit einer SD-/SDHC-/SDXC-Speicherkarte aufgenommen werden, können heruntergeladen werden. NAS (Network Attached Storage) Lokaler PC für Sofortaufnahme
Anwendungsprogrammierschnittstelle	ONVIF Profile S/G SUNAPI(HTTP API)
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 Unterstützter Browser : Google Chrome 63, MS Edge 41, Mozilla Firefox 57 (Nur Windows 64bit), Apple Safari 11 (wird nur bei Mac OS X)
Zentralisierte Verwaltungssoftware	Smart viewer, SSM
Betriebsbedingungen	Betriebstemperatur / Feuchtigkeit -40°C ~ +55°C (-40°F ~ +131°F) / Weniger als 90% rel.Luftfeuchtigkeit * Der Start sollte erfolgen bei über -30°C Lagerungstemperatur / Feuchtigkeit -40°C ~ +60°C (-40°F ~ +140°F) / Weniger als 90% rel.Luftfeuchtigkeit
	Schutz vor Eindringling IP66
	Vandalismusschutz IK10
Elektrisch	Eingangsspannung/Strom PoE+(IEEE802.3at Class4), DC 12V Energieverbrauch Max 25.5 W (PoE+), Max 21.0 W (DC12V)
Mechanisch	Farbe / Materiell Elfenbein/Aluminium Abmessungen (ØxH) Ø253mm x H165mm (Ø9,96" x H6,5") Gewicht 3.2 kg

Netzwerk

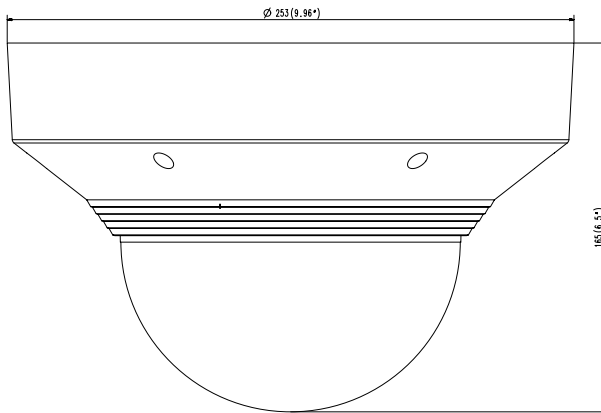
Betriebsbedingungen

Elektrisch

Mechanisch

PRODUKTANSICHT

Einheit: mm (inch)



FEHLERSUCHE

PROBLEM	LÖSUNG
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, ob alle Netzkabel 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 an das Netzwerk verbundene Kamera wird im IP-Installationsprogramm 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
Nach der „Aktivierung“ von <Bewegungserkennung> unter <Analyse> werden keine Dateien per E-Mail versendet, obwohl für die Kamera ein Video-Analyse-Ereignis stattgefunden hat.	- 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.
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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	
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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain. sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

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

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

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

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Jon Dugan

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Jean-loup Gailly Mark Adler

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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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(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.

