WISENET

NETZWERKKAMERA

Benutzerhandbuch

PNM-9084RQZ/PNM-9085RQZ

CE

Netzwerkkamera
Benutzerhandbuch

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Handelsmarke

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

WICHTIGE SICHERHEITSHINWEISE

1. Lesen Sie diese Anweisungen.
2. Bewahren Sie sie auf.
3. Beachten Sie alle Warnungen.
4. Befolgen Sie alle Anweisungen.
5. Verwenden Sie dieses Gerät nicht in der Nähe von Wasser.
6. Die verunreinigte Stelle auf der Produktoberfläche mit einem weichen, trockenen oder feuchten Tuch reinigen. (Keine Reinigungs- oder kosmetischen Mittel verwenden, die Alkohol, Lösungsmittel oder Ölbestandteile enthalten, da diese das Produkt deformieren oder schädigen können.)
7. Blockieren Sie keine Belüftungsöffnungen. Installieren Sie es gemäß den Herstelleranweisungen.
8. Installieren Sie das Gerät nicht in der Nähe von Wärmequellen wie beispielsweise von Radiatoren, Heizkörpern oder anderen Geräten (einschließlich Verstärkern), die Wärme erzeugen.
9. Bitte achten Sie darauf, die Schutzvorrichtung des gepolten bzw. geerdeten Steckers nicht zu beschädigen. Ein gepolter Stecker verfügt über zwei Stifte, von denen einer breiter als der andere ist. Ein geerdeter Stecker hat zwei Stifte und einen Erdungsstift. Der breite Stift oder der dritte Stift ist für Ihre Sicherheit vorgesehen. Wenn der vorgesehene Stecker nicht in Ihre Steckdose passt, wenden Sie sich an einen Elektriker, um die veraltete Steckdose austauschen zu lassen.
10. Schützen Sie das Netzkabel so, dass nicht darauf getreten wird, und dass es insbesondere an den Steckern oder passenden Steckdosen bzw. der Stelle, an der das Kabel das Gerät verlässt, nicht abgeklemmt wird.
11. Verwenden Sie nur die vom Hersteller angegebenen Zusatzgeräte/Zubehörteile.
12. Verwenden Sie für das Gerät nur Gestelle, Ständer, Stative, Konsolen und Tische, die vom Hersteller empfohlen oder in Verbindung mit dem Gerät verkauft werden. Bei Verwendung eines Transportwagens bewegen Sie das Gerät nur mit äußerster Vorsicht, um Verletzungen durch Umkippen zu vermeiden.



13. Trennen Sie das Gerät bei Gewitter oder längerer Abwesenheit vom Stromnetz.
14. Überlassen Sie alle Wartungsarbeiten qualifiziertem Kundendienstpersonal. Wartungsarbeiten sind erforderlich, wenn das Gerät in irgendeiner Weise beschädigt wurde, wie zum Beispiel ein beschädigtes Netzkabel oder Stecker, verschüttete Flüssigkeiten oder Gegenstände, die in das Gerät gefallen sind, das Gerät Regen oder Feuchtigkeit ausgesetzt wurde, nicht normal funktioniert oder fallen gelassen wurde.
15. Dieses Gerät ist für die Versorgung von einem eingetragenen Netzanschlussgerät mit der Kennzeichnung „Klasse 2“ oder „LPS“ und einer Ausgangsleistung von 12 Vac, 3,2 A oder PoE(55 Vac), 0,77 A. (PNM-9084RQZ)
16. Dieses Gerät ist für die Versorgung von einem eingetragenen Netzanschlussgerät mit der Kennzeichnung „Klasse 2“ oder „LPS“ und einer Ausgangsleistung von 12 Vac, 3,5 A oder PoE(55 Vac), 0,82 A. (PNM-9085RQZ)
17. Verwenden Sie Gleichstrom- und HPoE-Injektor nicht zur gleichen Zeit.
18. Dieses Produkt soll mit Isolationsstrom verwendet werden.
19. Wenn Sie bei der Installation des Gerätes zu viel Kraft verwenden, kann es zu Beschädigungen und Fehlfunktionen der Kamera kommen.
    Wenn Sie das Produ kt mit Gewalt und nicht konformen Werkzeugen installieren, kann das Produkt beschädigt werden.
20. 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.
21. 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.
22. 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.
23. 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.

VORSICHT



ERKLÄRUNG DER GRAPHISCHEN SYMBOLE



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



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

Klasse I nbauart

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

Akku

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

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 Objektiv nicht direkt mit den Händen einstellen oder bewegen. Das könnte das Objektiv beschädigen oder seine Leistung beeinträchtigen.
- Die Lebenserwartung für den Antrieb des Objektivmotors ist 200 Umdrehungen.

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.

ACHTUNG

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

Nur für folgende Modelle.

PNM-9084RQZ/PNM-9085RQZ

Risikogruppe 1
ACHTUNG: Dieses Produkt strahlt IR ab. **Nicht in die Betriebsleuchte blicken.**
Produkt gemäß IEC 62471 getestet

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PRODUKT-FUNKTIONEN

- **4-Wege-Kamera**
  Jedes der vier Kameraobjektive überwacht eine unterschiedliche Richtung.
- **Staub/Wasserdicht**
  Das Staub-/Wasser-geschützte Design schützt das Produkt vor Regen und Staub, wenn es im Freien installiert wird. (IP66)
- **IR-Modus**
  Wenn die IR-Anzeige anspricht, schaltet das Gerät in den IR-Modus, damit ein Objekt nicht zu hell dargestellt wird, wodurch sich nahe am Objektiv befindende Objekt leichter identifiziert werden können.
- **Unterstützt Videos mit 5M-Auflösung (PNM-9085RQZ)**
- **Multi-Übertragung**
  Dieser Netzwerk Encoder kann Videos in verschiedenen Auflösungen und Qualitäten über verschieden CODECs gleichzeitig anzeigen.
- **Überwachung über Webbrowser**
  Der Webbrowser kann verwendet werden, um die Bildanzeige in einer lokalen Netzwerkumgebung wiederzugeben.
- **Alarm**
  Falls ein Ereignis eintritt, werden verwandte Bilder an den registrierten E-Mail- und FTP-Server des Benutzers gesendet, auf der Micro SD-Speicherkarte gespeichert oder an der Alarmausgangsklemme angezeigt.
- **Manipulation Erkennung**
  Erkennt Versuche, die Video Überwachung zu manipulieren.
- **Funktion der Unschärfe-Ermittlung**
  Ermittelt das Unschärfe-Phänomen der Kameralinse.
- **Bewegungserkennung**
  Erkennt Bewegungen auf den von der Kamera eingehenden Videobildern.
- **Nebelerkennung**
  Erkennt Nebel, der schwerer als der Erkennungsniveau ist.
- **Gesichtserkennung**
  Erkennt Gesichter im angegebenen Bereich über den Videoeingang der Kamera.
- **IVA-Funktion (Intelligente Videoanalyse)**
  Erkennt eine Bewegung oder Situation, die die konfigurierten Ereignisregeln erfüllt.
- **ONVIF Compliance**
  Dieses Produkt unterstützt das ONVIF Profil S/T.
  Weitere Informationen finden Sie unter www.onvif.org.

ONVIF
Driving network video through global standardization

EMPFOHLENE PC-SPEZIFIKATIONEN

- CPU : Intel(R) Core(TM) i7 3.4 GHz oder höher
- RAM : 8G oder höher
- Unterstützte Betriebssystem : Windows 7, 8.1, 10, Mac OS X 10.13
- Empfohlener Browser: Google Chrome
- Unterstützte Browser: MS Explorer11, MS Edge, Mozilla Firefox (nur Windows 64bit), Apple Safari (nur Mac OSX)
- VGA : PCIe 256MB GDDR3 Videografikkarte oder höher

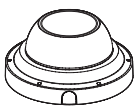
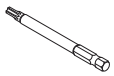
※ Im Anhang finden Sie detaillierte Informationen über bestätigte Betriebssysteme und Browser.
Einige Funktionen können auch in unterstützten Browsern eingeschränkt sein.

EMPFOHLENE TECHNISCHE DATEN FÜR MICRO SD/SDHC/SDXC SPEICHERKARTEN

- Empfohlene Kapazität : 16GB bis 256GB (MLC-Typ)
- Empfohlene Hersteller: SanDisk, Transcend
- Produkttyp: Hochleistung
- Die Kompatibilität variiert je nach Kartenhersteller und -typ.
- Es wird empfohlen, eine Speicherkarte von 16 GB oder mehr zu verwenden, die mit der UHS-3-Klasse (MLC-Typ) Spezifikation konform ist.

LIEFERUMFANG

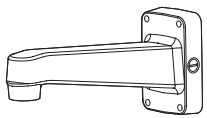
Überprüfen Sie bitte, ob in der Produktverpackung die Kamera und alle Zubehörteile enthalten sind.
(Da in jedem Vertriebsland die Zubehörteile nicht die gleichen sind.)

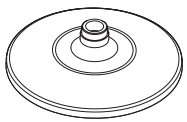
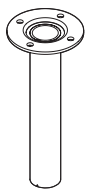
Produktdesign	Bezeichnung	Menge	Beschreibung
	Kamera	1	
	Kurzanleitung (Optional)	1	
	Schablone	1	Installationsanleitung des Produkts
	Netzklemmleiste	1	Der Netzstecker ist eingesteckt
	Netzkabel	1	Wird zum Anschließen an den Netzanschluss verwendet
	Maschinenschraube	4	Für die Befestigung Ihrer Kamera an der Hängebefestigung, GangBox, etc. verwendete Schrauben.
	Kappen-Installierer	1	Zum Anschluss des RJ45-Kabels verwendet
	Bohrer	1	Wird für die Demontage der Kuppelabdeckung, Montage und Kamerainstallation verwendet.

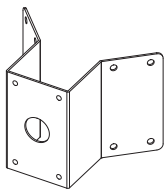
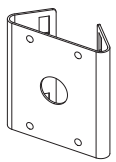
Produktdesign	Bezeichnung	Menge	Beschreibung
	Kabeltülle	1	Ersatzbuchsen für LAN-Kabel oder Alarm- und Audio-Kabel.
		1	
	HPoE-Injektor	1	Verbindet Stromversorgung und Netzwerk
	Audio-/Alarmkabel	1	Für die Verbindung mit dem Audio- und Alarmport

OPTIONALES ZUBEHÖR FÜR DIE INSTALLATION

Sie können optional verfügbares Zubehör kaufen.

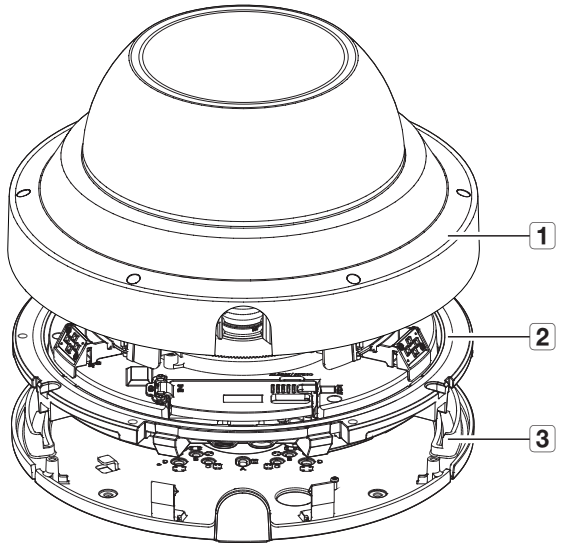
Produkttyp	Wandbefestigung
Modellname	SBP-390WMW2
	

Produkttyp	Hängebefestigung	Deckenbefestigung
Modellname	SBP-317HMW	SBP-300CMW
		

Produkttyp	Eckenbefestigung	Stangenbefestigung
Modellname	SBP-300KMW	SBP-300PMW
		

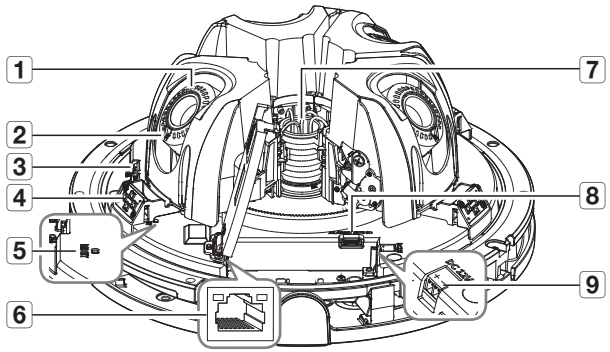
AUF EINEN BLICK

Aufbau



Bezeichnung	Beschreibung
1 **Abdeckklappe**	Gehäuseabdeckung zum Schutz des Objektivs und der Haupteinheit.
2 **Kameragehäuse**	Gehäuseteil, bei dem das Kameraobjektiv und die Anschlussklemmen beinhaltet sind.
3 **Montageplatte**	Platte, welche die Kamera bei einer Befestigung an der Decke oder an einer separat gelieferten Befestigung fixiert.

Komponenten



Bezeichnung	Beschreibung
1 Objektiv	Kameraobjektive zeigen in verschiedene Richtungen.
2 Beleuchtungssensor	Erkennt das einfallende Licht, und steuert die Infrarot-LED.
3 Micro SD-Speicherkartenfach	Fach für die Micro SD-Speicherkarte.
4 IR LED	Diese infrarot LEDs werden über den Beleuchtungssensor gesteuert.
5 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.
6 HPoE-Verbindungsanschluss	Dieses Terminal verbindet Strom und Netzwerk über einen HPoE-Injektor oder es verbindet sich über ein Ethernet-Kabel mit dem Netzwerk.

Bezeichnung		Beschreibung
7 Kabel		Farbe - CH 1: Rot CH 2: Grün CH 3: Blau CH 4: Schwarz
8 Audio- und Alarmkabelanschluss	ARM-IN	Wird verwendet, um den Alarm-Eingang-Sensor oder den externen Tag-/Nachtsensor zu verbinden.
	ARM-OUT	Anschluss für Audioausgabe.
	GND	Dies sind gebräuchliche Ports um Alarmeingangs/-ausgangssignale zu verbinden.
	MIC	Wird zum Anschließen eines Mikrofons verwendet.
	SPEAKER	Wird zum Anschließen von Lautsprechern verwendet.
9 Stromanschluss		Port für die Netzklemmenleiste.

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.

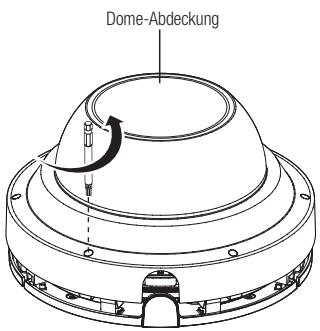
Bevor Sie mit der Installation beginnen

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.

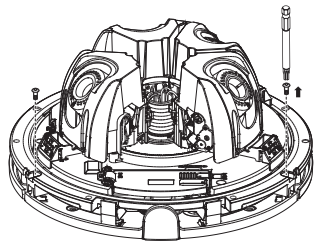
Demontage

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

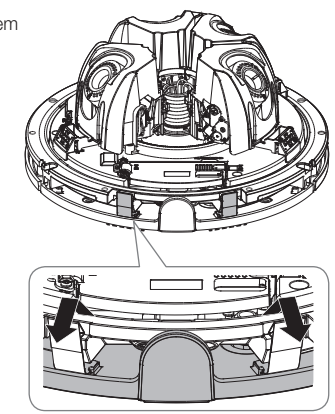


2. Lösen Sie die Befestigungsschraube am Kameragehäuse.

- Das Objektiv nicht direkt mit den Händen einstellen oder bewegen. Das könnte das Objektiv beschädigen oder seine Leistung beeinträchtigen.

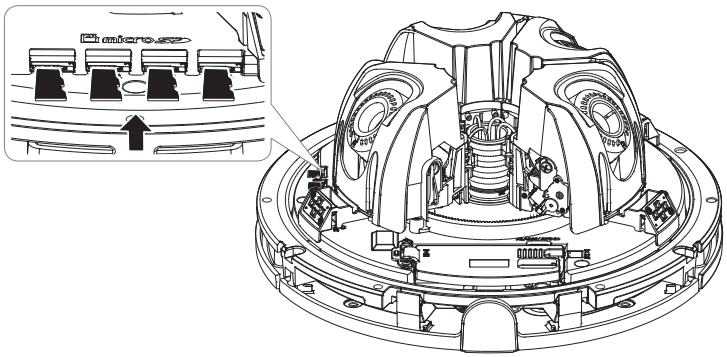


3. Entfernen Sie das Kameragehäuse und die Montageplatte, indem Sie die Tellerfeder ziehen, wie in der Abbildung gezeigt.



Einlegen einer Micro SD-Speicherkarte

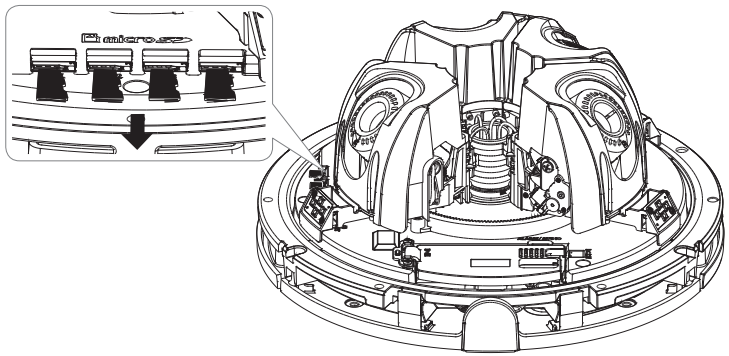
1. Entfernen Sie die Kuppelabdeckung der Kamera.
2. Eine Micro-SD-Karte in Pfeilrichtung einlegen, siehe Abbildung.



- 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.
- Wenn die IR-LED LED ihrer Kamera den Mirco SD-Steckplatz blockiert, greifen Sie auf den Web Viewer zu und bewegen Sie das Objektiv bis der Steckplatz wieder freiliegt.

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.

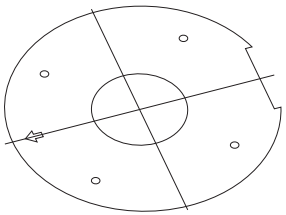


- Sie sollten eine SD-Karte für jeden Kanal aufheben.
- Bitte beachten Sie, dass, falls Sie die Micro SD-Speicherkarte fest drücken und loslassen, sobald sie ausgeworfen wird, diese herausspringen kann.
- Vor dem Entfernen der Micro SD-Speicherkarte in <**Setup (⚙)**>-<**Ereignis**>-<**Speicherkapazität**> das Gerät auf <Aus> setzen, die Schaltfläche [**Anwenden**] drücken und die Kamera ausschalten.
- Wenn Sie die Kamera ausschalten oder die Micro SD-Speicherkarte mit Produktdaten entfernen, gehen Daten möglicherweise verloren oder werden beschädigt.

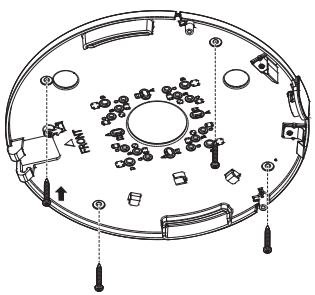
Montage (Befestigungsplatte)

[Direkte Montage an der Decke]

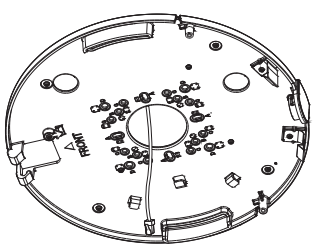
1-1. Die Montageschablone an der gewünschten Fläche anbringen und die Bohrungen für Schrauben und Kabel bohren.



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



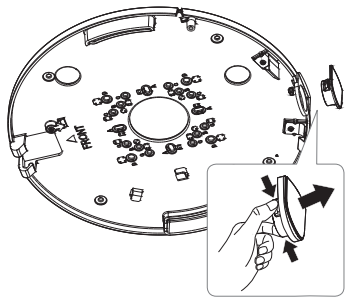
1-3. Ziehen Sie die erforderlichen Kabel zwischen den Strom- / LAN- / Audio- & Alarmkabeln durch die Öffnung in der Montageplatte.



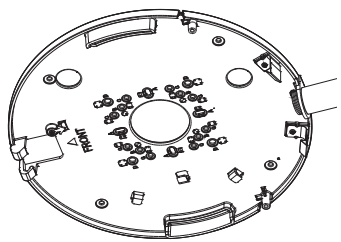
[Montage mit Rohr]

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

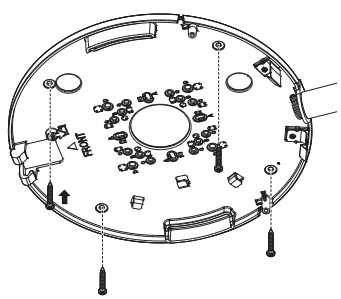
2-2. Die Rohrabdeckung von der Befestigungsplatte trennen, indem deren Seiten gedrückt werden.



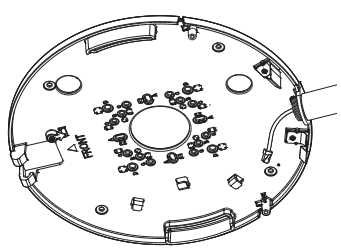
2-3. Das Rohr auf der Befestigungsplatte positionieren.



2-4. Die Befestigungsplatte mit den entsprechenden Schrauben befestigen.



2-5. Ziehen Sie die erforderlichen Kabel zwischen den Strom- / LAN- / Audio- & Alarmkabeln durch das Rohr.

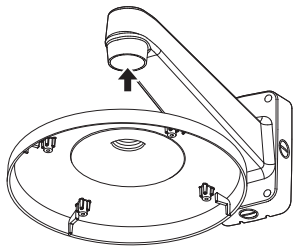


[Anbindung an den entbündelten Anschluss]

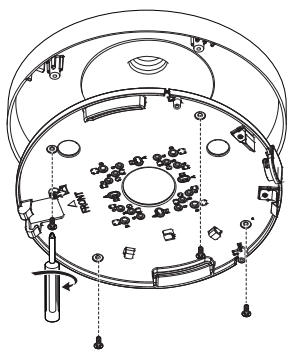
Wählen Sie eine der Optionen (entbündelt) aus und kaufen Sie was für den Ort der Installation oder Ihr Komfort notwendig ist.

3-1. Installieren sie die Hängehalterung an den Wandhalterungsadapter.

- Wandhalterungsadapters und Hängehalterungen werden separat verkauft.

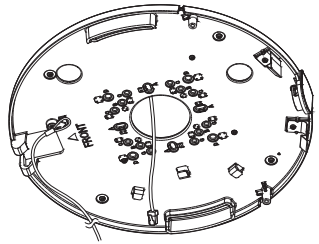


3-2. Verbinden Sie die Montageplatte mit der Aufhängung.



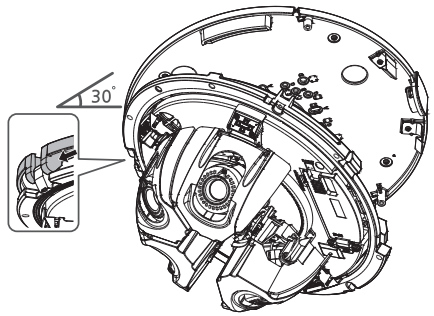
Einbau (Kameragehäuse und Kuppelabdeckung)

1. Befestigen Sie das Sicherheitskabel.



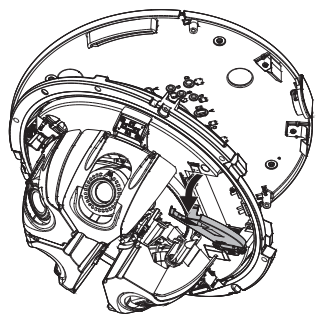
2. Befestigen Sie das Kameragehäuse an der Befestigungsplatte.

- Befestigen Sie es an den Scharnieren wie in der Abbildung dargestellt.

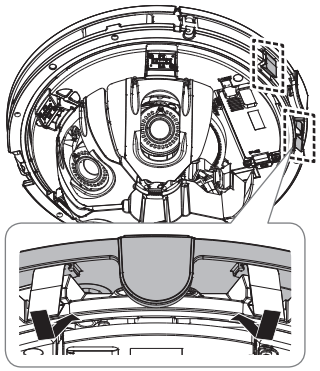


3. Öffnen Sie die Kabelabdeckung am Kameragehäuse.

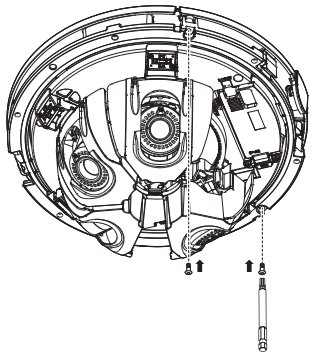
4. Schließen Sie die notwendigen Kabel an die Anschlüsse in der Kamera an, und danach schließen Sie die Kabelabdeckung.



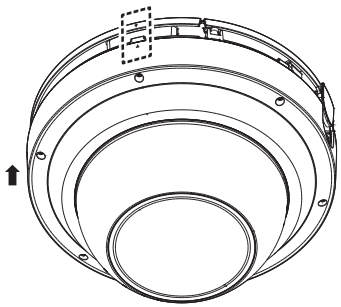
5. Wie in der Abbildung dargestellt auf die Blattfeder drücken, bis sie einrastet.



6. Mit den Befestigungsschrauben am Kameragehäuse das Kameragehäuse an der Befestigungsplatte befestigen.



7. Montieren Sie die Kuppelabdeckung.
   - Bei der Montage der Kuppelabdeckung müssen die Pfeile ausgerichtet werden.
   - Um sicher zu stellen, dass es keine Probleme mit den Dichtungen gibt, ziehen Sie die Schrauben mit dem beigelegten Bit fest an.

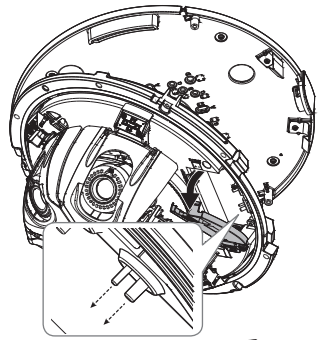


Das wasserdichte Netzkabel und LAN-Kabel verbinden

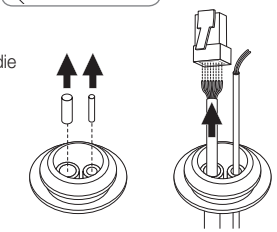
- Eine geeignete Kabeltülle zum Verbinden des LAN-Kabels verwenden.
  - Basiskamera : Das Kabel mit dem Durchmesser 5-6,5 verwenden
  - Bereitgestellte Komponenten: Das Kabel mit dem Durchmesser 7-8,5 verwenden

[Methode 1. Anschluss der LAN-/Stromkabel]

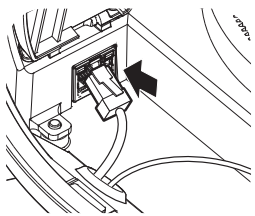
1. Wie in der Abbildung dargestellt die Spritzteile der zu verwendenden Einführung abziehen.



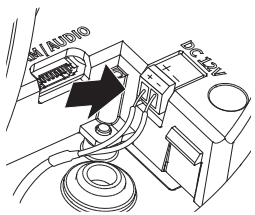
2. Führen Sie das LAN-Kabel durch das große Loch in der Buchse.
3. Entfernen Sie den Mantel mit einem Kabelschneider und gleichen Sie die Kabel an.
4. Das LAN-Kabel mit einem LAN-Stecker verbinden und in das LAN-Werkzeug einstecken.



5. Das fertige Kabel mit dem HPoE-Port verbinden.

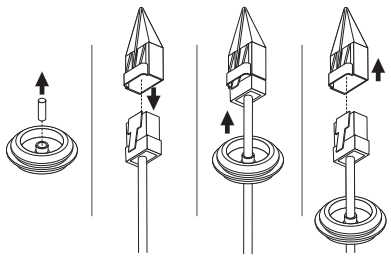


6. Das Stromversorgungsgkabel durch die kleine Bohrung der Einführung führen und am mitgelieferten Klemmenblock anschließen.

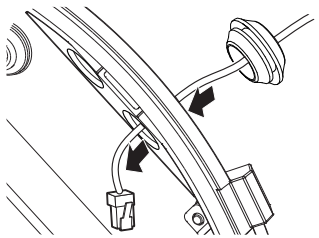


[Methode 2. Anschluss des LAN-Kabels (mit dem HPoE-Injektor)]

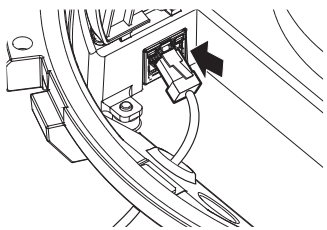
1. Das Spritzteil der mitgelieferten einfachen Einführung abziehen.
2. Den Kappen-Installierer verwenden, um das LAN-Kabel durchzuführen.



3. Die Einführung am Kameragehäuse anbringen.

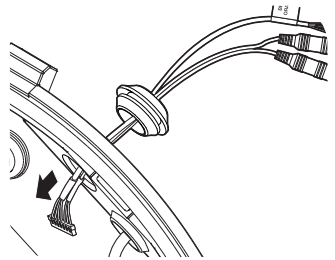


4. Das LAN-Kabel mit dem HPoE-Port verbinden.

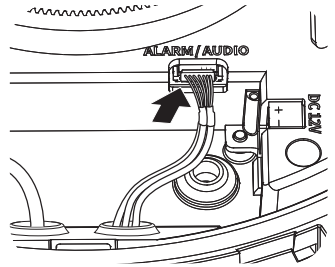


Montage von Audio- und Alarmkabeln

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



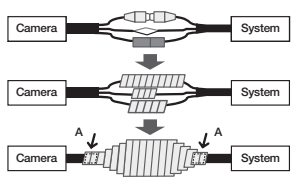
2. Die Audio- und Alarmkabel mit der Klemme ALARM/AUDIO verbinden.



Einbau im Außenbereich

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

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

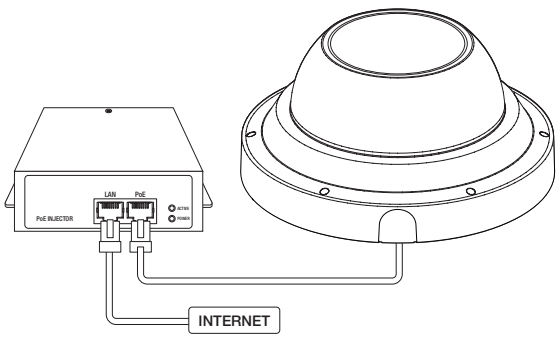


- Sollte die Kabelummantelung nicht richtig wasserundurchlässig sein, kann das zu einer unmittelbaren Undichtigkeit führen. Stellen Sie sicher, dass das Kabel dicht mit einem Klebeband geschützt ist.
- Das wasserdichte Butylklebeband besteht aus Butylkautschuk und kann auf das Doppelte seiner normalen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

ANSCHLUSS AN ANDERE GERÄTE

Antrieb und Netzwerkbetrieb

Das HPoE-Gerät mit der HPoE-Klemme der Kamera verbinden.



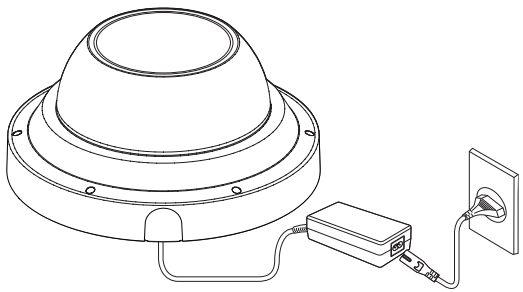
- Verbinden und verwenden Sie einen HPoE-fähigen Router.
- Verwenden Sie ein HPoE-Gerät, das der Norm IEEE802.3bt (PSE TYP 3 oder 4) entspricht.
- Wenn Sie eine Verbindung über einen HPoE-fähigen Router herstellen, benötigen Sie kein separates Stromkabel, um ihn einzuschalten.

Netzwerkkabel-Spezifikation

Artikel	Inhalte	Anmerkung
Stecker	RJ45 (10/100/1000BASE-T)	
Ethernet	10/100/1000BASE-T	Für den Betrieb mit 1000BASE-T muss für den Giga-Hub ein Kabel der Kategorie 6 oder höher verwendet werden.
Kabel	Kategorie 6	
Max. Entfernung	100M	Gleichstromwiderstand ≤ 0,188 Ω/m
HPoE	HPoE	

Stromversorgung

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



- Es wird ein Netzteil mit DC 12 V 4 A oder höher empfohlen.
- Wir empfehlen für die Stromversorgung des Gerätes die Verwendung von HPoE-Injektoren.
- Verwenden Sie Gleichstrom- und HPoE-Injektor nicht zur gleichen Zeit.
- 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

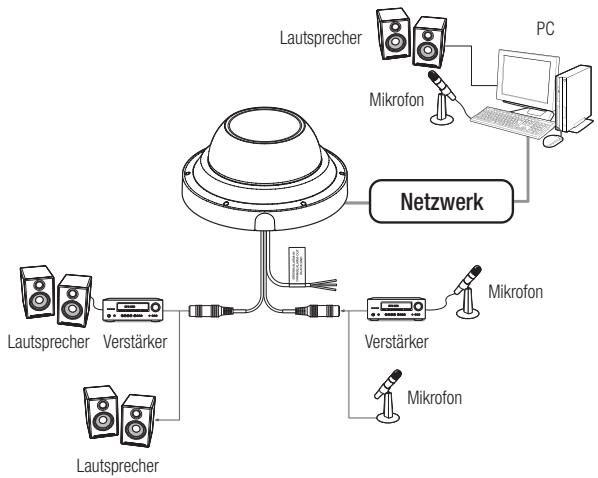
DC 12V-Eingang :

Kabeltyp (AWG)	#14	#16
Kabellänge (Max.)	14m	9m

Ethernet-Verbindung

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

Audio E/A Blockdiagramm



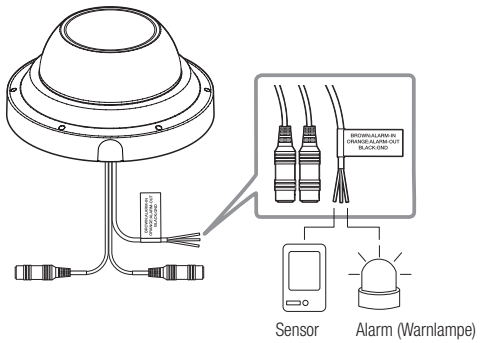
1. Verbinden Sie den AUDIO IN Anschluss der Kamera mit dem Mikrofon oder dem LINE OUT Anschluss des Verstärkers, an den das Mikrofon angeschlossen ist.
2. Verbinden Sie den AUDIO OUT Anschluss der Kamera mit dem Lautsprecher oder dem LINE IN Anschluss des Verstärkers, an den das Mikrofon angeschlossen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

- **Audio Codec**
  - Audioeingang : G.711 PCM (Bitrate: 64kbps / Abtastfrequenz: 8kHz), G.726 ADPCM (Bitrate: 16Kbps, 24Kbps, 32Kbps, 40Kbps / Abtastfrequenz: 8kHz), AAC (Bit Rate: 48Kbps / Sampling Frequency: 16kHz
  - Audioausgang : G.711 PCM (Bitrate: 64kbps / Abtastfrequenz: 8kHz)
- **Vollduplex Audio**
- **Audio-In** : wählbar (Mikrofon/Line-In), unterstützte Spannung: 2,5 V DC (4 mA), Eingangsimpedanz: 2 kOhm
- **Audio Aus** : Line-out (3,5 mm Monostecker), maximale Leistung: 1 Vms
- **Line out Impedanz** : 600Ω

▪ Wenn auf den Web Viewer zugegriffen wird und ein externes Mikrofon als Audioeingangsquelle in <**Video und Audio**> - <**Audio-Setup**> ausgewählt wird, werden folgende Spezifikationen empfohlen:
  - Frequenzbereich: 40-16.000 Hz
  - Impedanz: 1.500 Ω
  - Empfindlichkeit: -40±3 dB (7,1-14,1 mV)

I/O-Anschlüsse

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



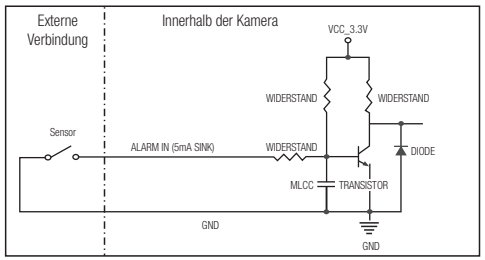
- ALARM-IN : Wird verwendet, um den Alarm-Eingang-Sensor oder den externen Tag-/Nachtsensor zu verbinden.
- ALARM-OUT : Anschluss für Audioeingang.
- GND : Gemeinsamer Port für Alarmeingang-/Alarmausgang-Signal.

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

Anschließen des externen Sensors

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

Alarm im Schaltplan



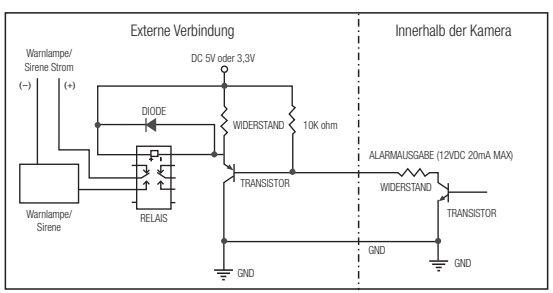
Zum Verbinden der Alarmausgabe

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

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

▪ N.C. (Normal schließen)-Methode wird nicht unterstützt.

Schaltplan Alarmausgabe

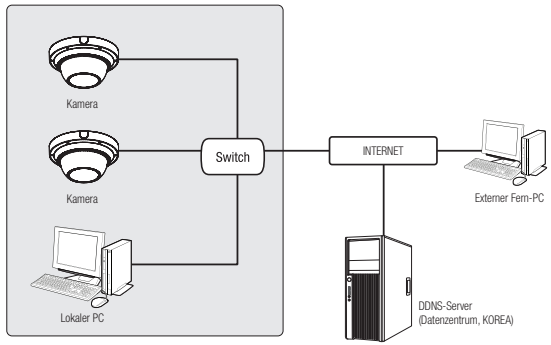


Sie können die Netzwerkeinstellungen gemäß Ihrer Netzwerkkonfigurationen einrichten.

DIREKTES VERBINDEN DER KAMERA AN DAS LAN

Anschluss an die Kamera von einem lokalen PC im LAN

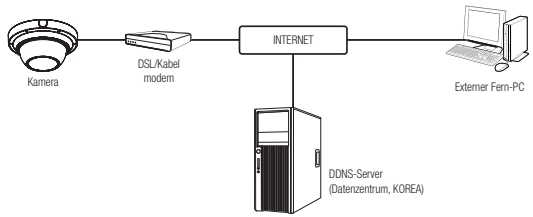
1. Starten sie einen Internetbrowser am lokalen PC.
2. Geben sie die IP-adresse der kamera in die adressenleiste des browsers ein.



<Lokales Netzwerk>

- Ein Fern-PC in einem externen Internetausgang des LAN Netzwerks kann eventuell die im Intranet installierte Kamera nicht ansteuern, wenn die Portweiterleitung nicht korrekt festgelegt oder eine Firewall eingestellt ist.
  Wenden Sie sich in dem Fall zur Lösung des Problems an Ihren Netzwerkadministrator.
- Standardmäßig, wird die IP-Adresse vom DHCP-Server automatisch zugeteilt.
  Wenn keinen DHCP-Server verfügbar ist, wird die IP-Adresse auf 192.168.1.100 gesetzt.
  Zum Ändern der IP-Adresse den Device Manager verwenden.
  Für weitere Einzelheiten zur Verwendung des Device Manager, siehe „**Verwenden des Device Manager**“. (Seite 20)

VERBINDEN DER KAMERA DIREKT MIT EINEM DHCP BASIERTEN DSL/ KABELMODEM



1. Den Benutzer-PC direkt mit der Netzwerkkamera verbinden.
2. Den Device Manager ausführen und die IP-Adresse der Kamera ändern, so dass Sie sich mit dem Webbrowser auf Ihrem Desktop mit dem Internet verbinden können.
3. Verwenden Sie den Webbrowser, um eine Verbindung mit dem Web Viewer herzustellen.
4. Gehen Sie weiter zur [**Setup**] Seite.
5. Gehen Sie weiter zum [**Netzwerk**] – [**DDNS**] und konfigurieren Sie die DDNS-Einstellungen.
6. Zu [**Basic**] – [**IP & Port**] navigieren und den IP-Typ auf [**DHCP**] einstellen.
7. Verbinden Sie die Kamera, die von Ihrem PC entfernt wurde, direkt mit dem Modem.
8. Starten Sie die Kamera erneut.

- Informationen für das Einrichten von DDNS finden Sie in der Online-Hilfe des WebViewer.
- Informationen für das Einrichten des IP-Formats finden Sie in der Online-Hilfe des WebViewer.

VERWENDEN DES DEVICE MANAGER

- Das Programm Device Manager kann heruntergeladen werden im Menü <**Technical Guides**> – <**Online Tool**> auf der Hanwha Techwin Webseite (http://www.hanwha-security.com).
- Weitere Anweisungen zum Device Manager finden sich im Menü <**Hilfe**> auf der Hauptseite.

AUTOMATISCHE SUCHE DER KAMERA

Wenn eine Kamera mit dem selben Netzwerk des PCs, auf dem der Device Manager installiert ist, verbunden ist, kann die Netzwerkkamera mit der Suchfunktion gefunden werden.

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

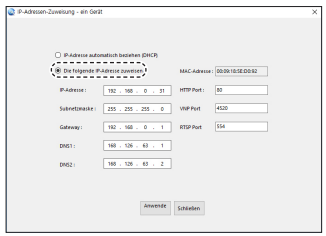
KONFIGURIEREN DER IP-ADRESSE

Wenn Sie die Netzwerkeinstellung der Kamera ändern möchten, muss das Symbol <**Login OK**> unter <**Status**> angezeigt werden. Zum Anmelden auf der Hauptseite auf <**Authentifizierung**> klicken.

Konfigurieren der statischen IP

IP-Adresse und Port-Informationen manuell eingeben und konfigurieren.

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



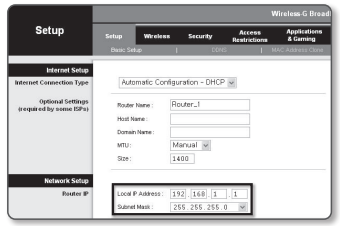
Wenn Sie keinen Breitband-Router verwenden

Den Administrator des Netzwerks nach den Werten für <**IP-Adresse**>, <**Subnetzmaske**> und <**Gateway**> fragen.

- HTTP Port : Zum Zugriff auf die Kamera über den Internetbrowser. Standardmäßig ist der Wert 80 eingestellt.
- RTSP Port: Ein Port, der das Echtzeit-Streaming steuert. Der Initialwert ist 554.

Bei Verwendung eines Breitband-Routers

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



- Die Netzwerkeinstellungen können sich je nach verbundenem Breitband-Router modell unterscheiden. Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.
- Für weitere Informationen über due Portweiterleitung des Breitband Routers, bitte unter "**Portbereichweiterleitung Konfigurieren (Port Mapping)**" nachschlagen. (Seite 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 Subnet Mask Gateway	192.168.1.100 255.255.255.0 192.168.1.1	192.168.1.101 255.255.255.0 192.168.1.1
Port-Einstellungen	HTTP Port RTSP Port	8080 554	8081 555

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

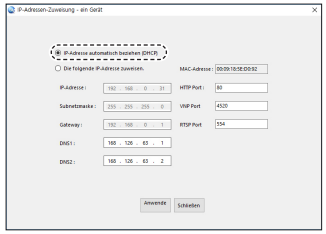
5. Auf die Schaltfläche [**Anwenden**] klicken.
6. Wenn die Erfolgsmeldung erscheint, auf [**OK**] klicken.

Konfigurieren der dynamischen IP

IP-Adresse vom DHCP-Server beziehen.

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

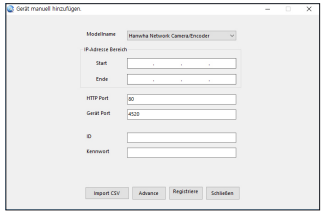
1. In der Liste auf die Kamera klicken, von der die IP-Einstellungen geändert werden sollen.
2. Auf der Hauptseite des Device Manager auf <**IP Assign (IP zuweisen)**> klicken.
3. <**IP-Adresse automatisch beziehen (DHCP)**> auswählen.
4. Auf die Schaltfläche [**Anwenden**] klicken.
5. Wenn die Erfolgsmeldung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



MANUELLES REGISTRIERUNG DER KAMERA

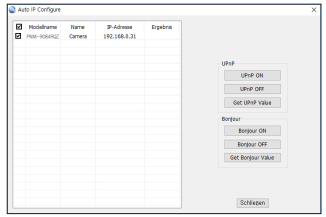
Wenn die Kamera mit der Suchfunktion nicht gefunden werden kann, kann die Kamera aus der Ferne registriert werden, indem die IP-Information manuell eingegeben werden, wenn die Kamera mit dem externen Netzwerk verbunden ist.

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



AUTOMATISCHE KONFIGURATION DER IP

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

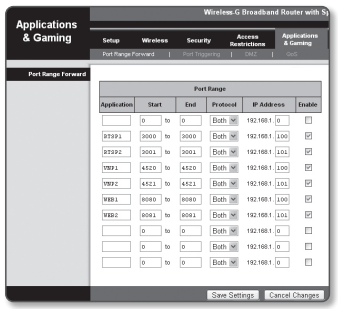


PORTBEREICHWEITERLEITUNG KONFIGURIEREN (PORT MAPPING)

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

Manuelle Portbereichweiterleitung

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

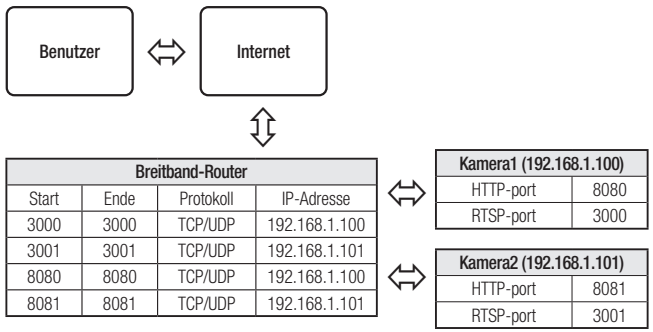


- Die Einstellung des Port-Forwarding wird am Beispiel der Einstellung eines CISCO IP-Routers gezeigt.
- Die Netzwerkeinstellungen können sich je nach Breitband-Routermodell unterscheiden.
  Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.

Einstellen des Portweiterleitungsbereichs für mehrere Netzwerkkameras

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

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



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

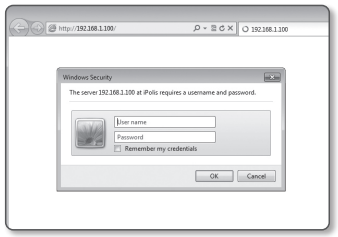
1. Bevor Sie auf eine Kamera im Breitband-Routernetzwerk zugreifen können, sollten Sie die Portbereichweiterleitung für den Breitband-Router eingestellt haben.
2. Starten Sie den Internetbrowser auf dem entfernten Computer und geben Sie die DDNS-URL der Kamera oder die IP-Adresse des Breitband-Routers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

▪ Zur Verwendung von Wisenet DDNS auf der Wisenet DDNS Homepage anmelden (http://ddns.hanwha-security.com) und das Produkt unter [**Mein DDNS**]>[**Produkt registrieren**] registrieren.

VERBINDUNG MIT DER KAMERA

Sie würden, normalerweise

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



Falls die Nummer des HTTP-Ports nicht 80 ist

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

URL Benutzen

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

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

Verbindung über UPnP

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

Verbindung über Bonjour

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

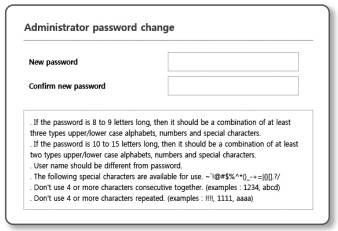
So überprüfen Sie die DDNS-Adresse

Falls die Kamera direkt an ein DHCP-basiertes Kabelmodem oder DSL-Modem angeschlossen wird, ändert sich die IP-Adresse bei jedem Versuch, eine Verbindung mit dem ISP (der Firma, die Sie abonniert haben) herzustellen.
In diesem Fall werden Sie nicht über die durch DDNS geänderte IP-Adresse informiert.

Sobald Sie ein auf dynamischer IP basierendes Gerät beim DDNS-Server registrieren, können Sie die geänderte IP-Adresse einfach überprüfen, wenn Sie versuchen auf das Gerät zuzugreifen.
Um das Gerät auf dem <**DDNS**> Server zu registrieren, besuchen Sie bitte http://ddns.hanwha-security.com, registrieren Sie zuerst Ihr Gerät stellen Sie anschließen im Net Viewer unter <**Netzwerk**> - <**DDNS**> auf <**Wisenet DDNS**> und geben Sie ebenfalls die <**Produkt-ID**> ein, die Sie bei der DDNS-Registrierung verwendet haben.

PASSWORTEINSTELLUNG

Beim ersten Zugriff auf das Produkt, müssen Sie das Anmelde-Passwort registrieren.

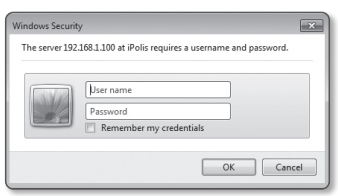


- Für ein neues Passwort mit 8 bis 9 Ziffern müssen Sie mindestens drei der Folgenden verwenden: Groß-/Kleinbuchstaben, Zahlen und Sonderzeichen. Für ein Passwort mit 10 bis 15 Ziffern müssen Sie mindestens zwei dieser Zeichentypen verwenden.
  - Zulässige Sonderzeichen sind. : ~`!@#$%^*()_-+=|{}[].?/
- Zur erhöhten Sicherheit wird empfohlen, nicht die gleichen Zeichen oder aufeinanderfolgende Eingaben der Tastatur zu wiederholen.
- Falls Sie Ihr Passwort vergessen haben, können Sie die Schaltfläche [**RESET**] drücken und das Produkt initialisieren. Verwenden Sie ein Memo-Pad oder merken Sie sich Ihr Passwort.

ANMELDEN

Immer, wenn Sie auf die Kamera zugreifen, wird das Anmeldefenster angezeigt.
Geben Sie den Benutzernamen und das Passwort ein, um auf die Kamera zuzugreifen.

1. Geben Sie „**admin**“ in das <**User name**> Eingabefeld ein.
   Die Administrator ID, „**admin**“, kann nicht verändert werden.
2. Geben Sie das Passwort in dem Eingabefeld <**Password**> ein.
3. Klicken Sie auf [**OK**].
   Wenn Sie sich erfolgreich angemeldet haben, werden Sie den Live Viewer Bildschirm sehen.



- Achten Sie beim Zugriff auf den Kamera-Webviewer besonders auf die Sicherheit, indem Sie nachprüfen ob die Bilddaten verschlüsselt sind.

- Wenn Sie die Option „**Remember my credentials**“ wählen, nachdem Ihre Eingabe beendet ist, werden Sie automatisch angemeldet ohne zukünftig aufgefordert zu werden, Ihre Anmeldedaten einzugeben.
- Die beste Bildqualität wird erreicht, wenn die Bildschirmgröße auf 100% eingestellt ist. Reduzierung des Bildseitenverhältnis kann das Bild an den Rändern abschneiden.

EINRICHTUNG VON CAMERA WEB VIEWER

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

SPEZIFIKATIONEN

Elemente		Beschreibung	
		PNM-9084RQZ	PNM-9085RQZ
Video	Bildaufnahmegerät	1/2,8″ 2 MP CMOS: jeder Kanal	1/1,8″ 5 MP CMOS: jeder Kanal
	Effektive Pixel	1945(H) x 1097(V): jeder Kanal	2616(H) x 1976(V): jeder Kanal
	Mindestbeleuchtung	Farbe : 0,05 Lux (F1.6, 30 IRE) S/W : 0 Lux (IR-LED ein)	Farbe : 0,11 Lux (F1.6, 30 IRE) S/W : 0 Lux (IR-LED ein)
Objektiv	Brennweite (Zoomrate)	3,2–10 mm(3,1x) motorisierter Gleitfokus	4,13–9,4 mm(2,3x) motorisierter Gleitfokus
	Max. Blendenverhältnis	F1.6 (Weit)~F2.9(Tele)	F1.92 (Weit)~F2.67(Tele)
	Sichtwinkelfeld	H: 109,0°(Weit)~33,2°(Tele) V: 57,4°(Weit)~18,7°(Tele) D: 132,0°(Weit)~38,0°(Tele)	H: 87,58°(Weit)~37,34°(Tele) V: 64,58°(Weit)~28,04°(Tele) D: 112,46°(Weit)~46,85°(Tele)
	Mindestentfernung zum Objekt	0,5 m (1,64 Fuß)	1,2 m (3,94 Fuß)
	Objektivart	DC Auto-Blende	
	Fokus-Steuerung	Einfacher Fokus	
Schwenken / Neigen / Drehen	Schwenk-/Neigungs-/ Drehbereich	Ferneinstellung (max. 200 Zyklen) Schwenken: 0~360˚, Neigen: 30~80˚, Drehen: 0~90˚	Ferneinstellung (max. 200 Zyklen) Schwenken: 0~360˚, Neigen: 35~80˚, Drehen: 0~90˚
Funktionsweise	IR sichtbare Länge	Max. 30 m	
	Kameratitel	bis zu 85 Zeichen werden angezeigt	
	Tag und Nacht	Auto (ICR)	
	Gegenlichtkompensation	BLC, HLC, WDR, SSDR	
	BREIT-Dynamischer Bereich	120dB	
	Digitale Rauschunterdrückung	SSNRV	
	Digitale Bildstabilisierung	Support	
	Entnebeln	Support	
	Bewegungserkennung	8ea, 8punkt Polygonzonen	
	Privatsphärenausblendung	32ea, Polygonzonen - Farbe : grau, grün, rot, blau, schwarz, weiß - Mosaik	
	Verstärkungssteuerung	Gering / Mittel / Hoch	

Elemente		Beschreibung	
		PNM-9084RQZ	PNM-9085RQZ
Funktionsweise	Weißabgleich	ATW / AWC / Manuell / Innenbereich / Außenbereich	
	LDC	Support	
	Elektronischer Blendenverschluss	Minimum / Maximum / Anti-Flimmern (2 ~ 1/12,000 Sek.)	
	Videodrehung	Umdrehen, Spiegeln, Hausfluransicht (90˚/270˚)	
	Analyse	Unschärfe-Ermittlung, Richtungserkennung, Nebel kennung, Gesichtserkennung, Bewegungserkennung, Erscheinen / Verschwinden, Eingabe/Beenden, Herumlungern, Manipulation, Virtuelle Linie, Geräuscherkennung	
	Alarm-I/O	Eingang 1 ea / Ausgang 1 ea	
	Alarm Auslöser	Analyse, Netzwerk trennen, Alarmeingang	
	Alarmereignisse	• Datei Hochladen über FTP, E-Mail • Benachrichtigung über E-Mail • SD-/SDHC-/SDXC-Aufnahme durch Ereignisauslösung • Alarmausgang • Übergabe	
	Audio-In	Wählbar (Mic-In/Line-In) Versorgungsspannung: 2,5 V DC (4 mA), Eingangsimpedanz: 2 kOhm	
	Audio-Out	Line-Out, Max. Ausgangspegel: 1 Vrms	
Netzwerk	Ethernet	RJ-45 (10/100/1000BASE-T)	
	Videokomprimierungsformat	H.265/H.264: Main/Baseline/High, MJPEG	
	Auflösung	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	2560x1920, 2560x1440, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
	Max. Framerate	H.265/H.264 : Max 60fps/50fps (60Hz/50Hz) MJPEG : Max 30fps/25fps (60Hz/50Hz)	H.265/H.264 : Max 30fps/25fps (60Hz/50Hz) MJPEG : Max 30fps/25fps (60Hz/50Hz)
	Smart Codec	Manuell (5ea Bereich), WiseStream Ⅱ	

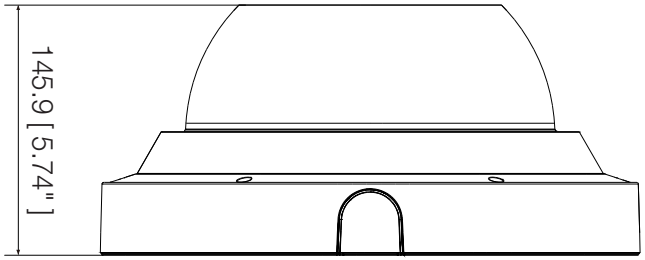
Elemente		Beschreibung	
		PNM-9084RQZ	PNM-9085RQZ
Netzwerk	Bitraten-Steuerung	H.264/H.265 : CBR oder VBR Motion JPEG : VBR	
	Streaming	Unicast (20 Anwender) / Multicast Mehrfach Streaming (Bis zu 10 Profile)	
	Audio-Kompression	G.711 µ-law /G.726 Wählbar G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48 Kbps bei 16 KHz	
	Protokoll	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP	
	Sicherheit	HTTPS (SSL) Authentifizierungsprotokoll Anmelde-Übersicht Authentifizierung IP-Adressfilter Benutzerzugriff Protokoll 802.1X Authentifizierungsmethode (EAP-TLS, EAP-LEAP)	
	Randspeicher	Micro SD/SDHC/SDXC 4 Slots 256 GB (jeder Kanal)	
	Anwendungsprogrammierschnittstelle	ONVIF Profile S/T SUNAPI(HTTP API) Offene Wisenet-Plattform	
	Web Viewer	Unterstützte Betriebssystem : Windows 7, 8.1, 10, MAC OS X 10.13 Empfohlener Browser: Google Chrome Unterstützter Browser : MS Explorer 11, MS Edge, Mozilla Firefox (Nur Windows 64bit), Apple Safari (wird nur bei Mac OS X)	
	Speicher	5 GB RAM, 1280 MB Flash	

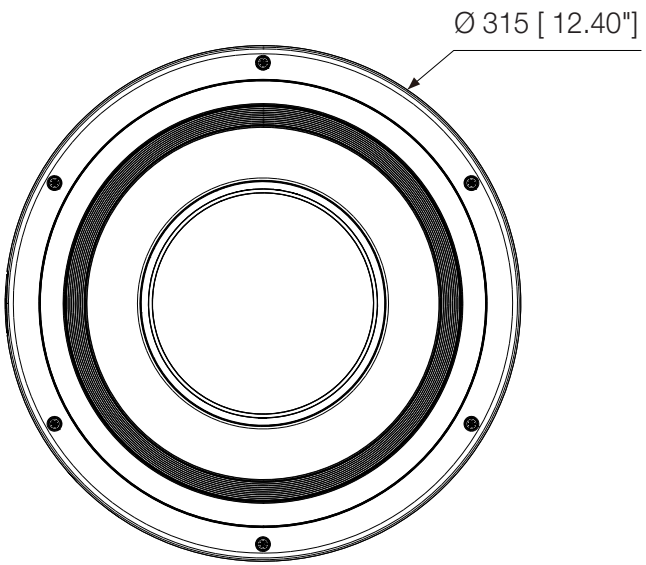
Elemente		Beschreibung	
		PNM-9084RQZ	PNM-9085RQZ
Betriebsbedingungen	Betriebstemperatur / Feuchtigkeit	-40°C ~ +55°C (-40°F ~ +131°F) / Weniger als 90% rel.Luftfeuchtigkeit	
	Lagerungstemperatur / Feuchtigkeit	-50°C ~ +60°C (-58°F ~ +140°F) / Weniger als 90% rel.Luftfeuchtigkeit	
	Zertifizierung	IP66, IK10, NEMA4X	
Elektrisch	Eingangsspannung	HPoE, 12 V DC	
	Energieverbrauch	PoE : Max. 42 W, typisch 30 W 12 V DC : Max. 38 W, typisch 28,2 W	PoE : Max. 45 W, typisch 33,7 W 12V DC : Max. 42 W, typisch 32 W
Mechanisch	Farbe / Materiell	Weiß / Aluminium	
	RAL-Code	RAL9003	
	Produktabmessungen/Gewicht	Ø 315 x 145,9 mm (12,40" x 5,74") / 5,2 kg (11,5 lb)	

PRODUKTANSICHT

PNM-9084RQZ/PNM-9085RQZ

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, oballe Netzwerkkabel korrekt angechlossen wurden. • Prüfen Sie bei einer Verbindung über DHCP, ob die Kamera dynamische IP-Adressen problemlos erhalten kann. • Prüfen Sie, wenn die Kamera mit einem Breitband-Router verbunden ist, ob die Portweiterleitung korrekt konfiguriert ist.
Der Viewer wurde während der Überwachung getrennt.	• Verbundene Viewer werden nach etwaigen Änderungen an der Kamera oder den Netzwerkkonfigurationen getrennt. • Prüfen Sie alle Netzwerkverbindungen.
Die mit dem Netzwerk verbundene Kamera wird im Programm Device Manager nicht erkannt.	• Schalten Sie die Firewall-Einstellungen an Ihrem PC aus und suchen Sie dann die Kamera erneut.
Die Bilder überlappen.	• Prüfen Sie, ob zwei oder mehr Kameras auf einer einzigen Multicast-Adresse anstelle verschiedener Adressen festgelegt sind. Wenn eine einzige Adresse für mehrere Kameras verwendet wird, können die Bilder überlappen.
Es wird kein Bild eingeblendet.	• Wenn die Übertragungsmethode auf Multicast festgelegt ist, müssen Sie überprüfen, ob ein Router vorhanden ist der Multicast im LAN, an das die Kamera verbunden ist, unterstützt. • Überprüfen Sie, ob das Objektivmodul einwandfrei arbeitet.
<Bewegungserkennung> des <Analyse> ist auf <Aktivieren> eingestellt, doch haben mich keine E-Mails mit Benachrichtigungen erreicht, selbst wenn ein Analyse-Ereignis eingetreten ist.	• Überprüfen Sie die Einstellungen in der folgenden Reihenfolge: A. Prüfen Sie die Einstellungen unter <Datum & Uhrzeit>. B. Die <Bewegungserkennung> muss auf <Aktivieren> gestellt sein. C. Prüfen Sie, ob die Option <E-mail> im <Ereigniseinrichtung> Menü markiert ist.
Auf die Micro SD Speicherkarte kann nicht aufgenommen werden.	• Auf die SD-Speicherkarte kann nicht aufgenommen werden.
Die Micro SD Speicherkarte ist eingelegt, aber die Kamera funktioniert nicht richtig.	• Überprüfen Sie, ob die Speicherkarte richtig herum eingelegt wurde. Für diese Kamera kann nicht garantiert werden, dass eine Speicherkarte, die mit einem anderen Gerät formatiert wurde, reibungslos funktioniert. • Formatieren Sie die Speicherkarte über das Menü <Setup> → <Ereignis> → <Speicherkapazität>.

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GPL SW

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

LGPL SW

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

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Version 2, June 1991

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- Version 1.1

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

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

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

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

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

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

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

5. "Header File" means the part of the Source Code which contains definitions necessary to develop application programs.

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

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

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

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

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

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

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

13. "End User" means a consumer who uses the Embedded Product.

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

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

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

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

Article 3. Copyright

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

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

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

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

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

5. The Source Code User and the System Developer shall be obligated to give a notice that the Source Code is used, in such a way as separately specified by T-Engine Forum, when they use the Source Code or the Binary Code, or make the Binary Code available for the End User on the Embedded Product.

Article 5. Distribution of Modified Source Code

1. Any of A- members of T-Engine Forum may become the Distributor of Modification by obtaining the approval of T-Engine Forum through the registration procedure as prescribed by the Forum provided that only the department of the A- member which has taken the registration procedure may distribute the Modified Source Code in such a way as provided for in this Article as long as it holds the Amembership.

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

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

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

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

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

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

8. The System Developer shall not distribute the Modified Source Code in further modified form to any third party as a stand-alone software product.

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

Article 6. Distribution and Registration of the Ported Source Code

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

1. The Hardware-dependent Part and/or Compiler-dependent Part; provided that the Source Code User and the System Developer shall inform T-Engine Forum of, and T-Engine Forum may publish, a method for distributing said Part(s) to third parties.

2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.

2. Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

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

1. The member shall confirm that the object hardware is the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

2. The member shall provide T-Engine Forum with a complete set of operational environment for the object hardware and T-Kernel free of charge when requesting the distribution.

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

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

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

Article 7. Use for Other Purpose

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

Article 8. Limited Warranty

1. T-Engine Forum and the copyright holder of the Source Code warrant that the Source Code does not infringe third party's copyrights. Provided, however, that T-Engine Forum and the copyright holder of the Source Code make no warranty as to the Hardware-dependent Part and/or Compiler- dependent Part set forth in Article 6.2 in the Ported Source Code by any third party.

2. Neither T-Engine Forum nor the copyright holder of the Source Code warrants that the Source Code will fit for any particular purpose of the Source Code User.

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

Article 11. Governing Law and Language

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.5 of 10 December 2007

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Iperf performance test

Mark Gates

Ajay Tirumala

Jim Ferguson

Jon Dugan

Feng Qin

Kevin Gibbs

John Estabrook

National Laboratory for Applied Network Research

National Center for Supercomputing Applications

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This software consists of voluntary contributions made by many individuals on behalf of the PHP Group. The PHP Group can be contacted via Email at group@php.net.

For more information on the PHP Group and the PHP project, please see <http://www.php.net>. PHP includes the Zend Engine, freely available at <http://www.zend.com>.

zlib / libpng License

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Component Name	License	URL
zlib-1.2.8	zlib / libpng	http://zlib.net/

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

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



Hanwha Techwin hat sich dem Schutz der Umwelt verpflichtet und wendet in allen Phasen des Produktherstellungsprozesses umweltfreundliche Verfahren an, um seinen Kunden umweltgerechtere Produkte zu liefern.
Das Eco-Gütesiegel ist ein Zeichen für die Absicht von Hanwha Techwin, Produkte zu liefern, und zeigt an, dass die Produkte die RoHS-Richtlinie der EU erfüllen.



Korrekte Entsorgung von Altgeräten (Elektroschrott)

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

Head Office
6, Pangyo-ro 319 beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 463-400 Rep. of KOREA
Tel : +82.70.7147.8753 Fax : +82.31.8018.3740
www.hanwha-security.com

Hanwha Techwin America
500 Frank W. Burr Blvd. Suite 43 Teaneck, NJ 07666
Toll Free +1.877.213.1222 Direct +1.201.325.6920
Fax +1.201.373.0124
www.hanwhasecurity.com

Hanwha Techwin Europe
Heriot House, Heriot Road, Chertsey, Surrey, KT16 9DT, United Kingdom
Tel +44.1372.235663 Fax +44.1932.57.8101
www.hanwha-security.eu

Hanwha
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