

NETZWERKKAMERA

Benutzerhandbuch

XNZ-6320



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. Es ist beabsichtigt, dass dieses Produkt mit einem Netzgerät geliefert wird, dass mit „Klasse 2“ oder „BSA“ und Nennspannung 12 VDC, 0,62 A/ 37-57 VDC (PoE), 0,19 A gekennzeichnet ist.
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.



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

Die Batterie kann nicht ersetzt werden.

Trennung des Geräts

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

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

ACHTUNG

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

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

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

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

Lesen Sie die folgenden empfohlenen Sicherheitsmaßnahmen sorgfältig durch.

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

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

Die Verwendungshinweise im Handbuch bedeuten folgendes.

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

In bestimmten Installationsumgebungen kann es zu Störungen der Funkkommunikation kommen. Wenn eine Störung von elektromagnetischen Wellen zwischen dem Produkt und einem Funkkommunikationsgerät auftritt, wird empfohlen, einen gewissen Abstand zwischen den beiden einzuhalten oder die Richtung der Empfangsantenne zu ändern.

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EMPFOHLENE PC-SPEZIFIKATIONEN

- CPU : Intel(R) Core(TM) i7 3.4 GHz oder höher
- RAM : 8G oder höher
- Unterstützte Betriebssystem : Windows, Mac OS X
- Empfohlene Suchmaschine : Google Chrome
- Unterstützte Browser : MS Explorer, MS Edge, Mozilla Firefox (wird nur bei 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
- Es wird empfohlen, eine Speicherkarte von 16 GB oder mehr zu verwenden, die mit der UHS-3-Klasse (MLC-Typ) Spezifikation konform ist.

EMPFOHLENE NAS-SPEZIFIKATIONEN

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

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



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

LIEFERUMFANG

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

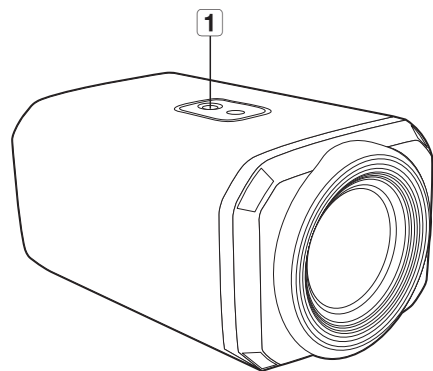
Produktdesign	Bezeichnung	Menge	Beschreibung
	Kamera	1	
	Kurzanleitung (Optional)	1	
	Garantiekarte (Optional)	1	
	Testmonitor-Kabel	1	Wird zum Testen des Kameraanschlusses an ein tragbares Displaygerät verwendet
	10-polige Anschlussklemme	1	Dient zum Anschluss von Alarmein- und -ausgängen



- SFP-Modul und Glasfaseroptikkonverter werden getrennt verkauft. Bitte wählen und kaufen Sie einen SFP von Base-FX und einen Glasfaserkonverter.

AUF EINEN BLICK

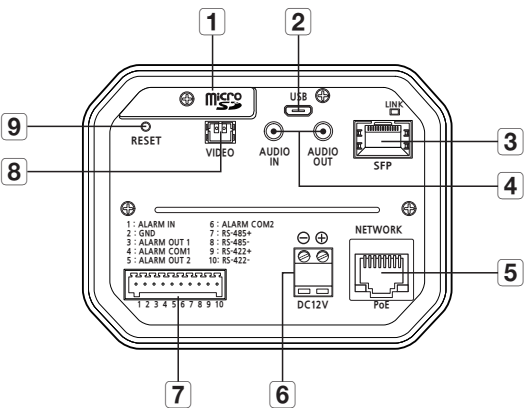
Vorderseite



Bezeichnung	Beschreibung
1 Schraubenöffnung für die Montagehalterung	Wird zum Befestigen der Kamera an einer Halterung verwendet. Schraubengröße : Dies ist die Spezifikation für die Schrauben, die zur Befestigung der Kamera an der Unterlage verwendet werden. 1/4" -20 UNC L : 4.5mm±0.2mm (ISO Standard), oder 0.197" (ASA Standard)

■ Die Montagehalterung ist nicht im Lieferumfang enthalten.
Weitere Informationen über die Verwendung der Montagehalterung finden Sie in den Produktunterlagen.

Rückseite



Bezeichnung	Beschreibung
1 Micro SD-Speicherkartenfach	Fach für die Micro SD-Speicherkarte.
2 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 12. ■ WiFi Dongle und OTG-Adapter werden separat verkauft.
3 SFP-Modulschlitz	Das Terminal, das die Glasfaseroptikverbindung über SFP-Modul (LC-Typ) herstellt. (100 Base-FX)
4 Anschluss für Audio	AUDIO OUT Wird zum Anschließen von Lautsprechern verwendet. AUDIO IN Wird zum Anschließen eines Mikrofons verwendet.
5 Netzwerkanschluss	Dient zum Anschluss des PoE oder Ethernet Kabels für die Netzwerkverbindung.
6 Stromanschluss	Zum Anschluss des Stromkabels.

Bezeichnung		Beschreibung
7 Anschlüsse für Alarm E/A	ALARM IN	Wird verwendet, um den Alarm-Eingang-Sensor oder den externen Tag-/Nachtsensor zu verbinden.
	ALARM OUT	Anschluss für Audioausgabe.
	ALARM COM	Das übliche Terminal, das Alarmausgangssignale verbindet.
	GND	Für die Erdung.
	RS-485+/RS-485-	RS-485 Datenleitung
	RS-422+/RS-422-	RS-422 Datenleitung
8 Test Monitor Ausgang	Anschluss zum Testen der Videoausgabe. Verwenden Sie das Test Monitor Kabel, um ein tragbares Anzeigergerät anzuschließen und das Videobild zu testen.	
9 Reset-Taste	Diese Taste setzt alle Kameraeinstellungen auf die Werkseinstellungen zurück. Drücken und 5 Sekunden gedrückt halten, um das System neu zu starten. i 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.	

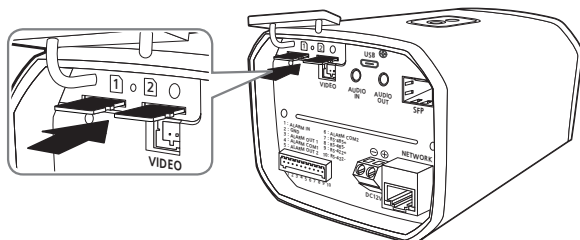
- i** Der RS-485/RS-422 Anschluss unterstützt nur den direkt Anschluss eines Neig-/Schwenkantriebs. Externe Anschlüsse des RS-485/RS-422 Controllers werden nicht unterstützt.

EINLEGEN/HERAUSNEHMEN EINER MICRO SD-SPEICHERKARTE

- ! Das Netzkabel von der Kamera abtrennen, bevor die Micro SD-Speicherkarte eingelegt wird.
- Keine Kraft anwenden und in die umgekehrte Richtung einstecken. Dadurch könnte Ihre Mikro-SD-Speicherkarte beschädigt werden.
- Bei Regen oder hoher Luftfeuchtigkeit empfiehlt es sich nicht, die Micro-SD-Karte einzulegen oder zu entfernen.

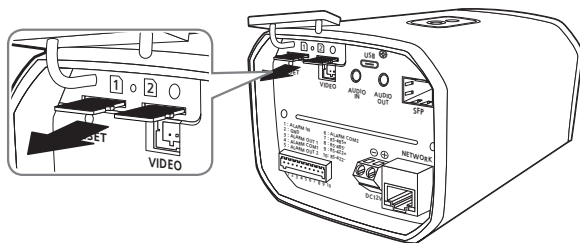
Einlegen einer Micro SD-Speicherkarte

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



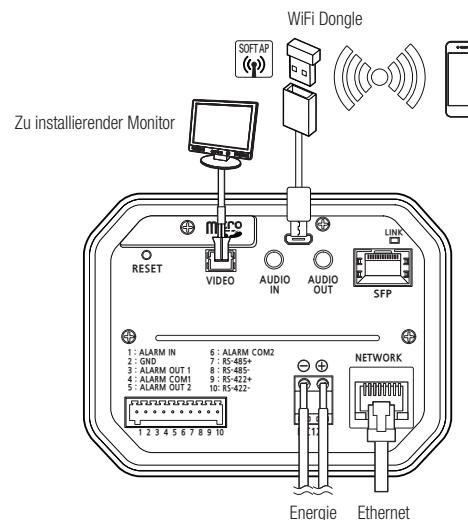
Herausnehmen einer Micro SD-Speicherkarte

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



- ! Wenn die Micro SD-Speicherkarte zu stark hineingedrückt wird, kann die Karte beim Loslassen unkontrolliert aus dem Steckplatz herausschießen.
- 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.

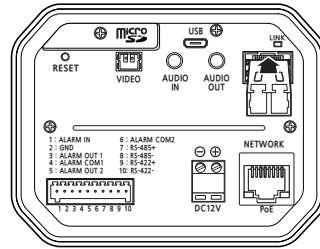
ANSCHLUSS AN ANDERE GERÄTE



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

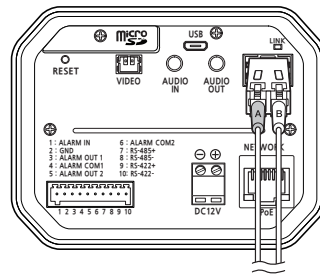
SPF-Modul anschließen

1. SFP-Modul einstecken.



2. Das Optikkabel (AB) an den Typ LC des SFP-Moduls anschließen.
3. Das andere Ende des Optikkabels (BA) an den Glasfaseroptikkonverter anschließen, der mit dem SPF-Modul verbunden wird.

- SFP-Module und Glasfaseroptikkonverter werden getrennt verkauft.
- SFP-Module der folgenden Hersteller werden empfohlen:
 - Comnet, IFS, Skylane, AVAGO, CISCO
- Das SFP-Modul und den Glasfaseroptikkonverter anhand Querverbindung des Lichtwellenleiterkabels (AB/BA) anschließen.



- Die Verbindung des SPF-Moduls muss erfolgen, nachdem die angeschlossene Kamera ausgeschaltet ist.
- Während die Kamera eingeschaltet ist, darf das SFP-Modul weder installiert noch entfernt werden.
- Durch einen Knick im Lichtwellenleiterkabel kann die Verbindung der Kommunikation unterbrochen werden.
- Schauen Sie nicht direkt auf den Lichtwellenleiterkabel. Ihre Augen können beschädigt werden.

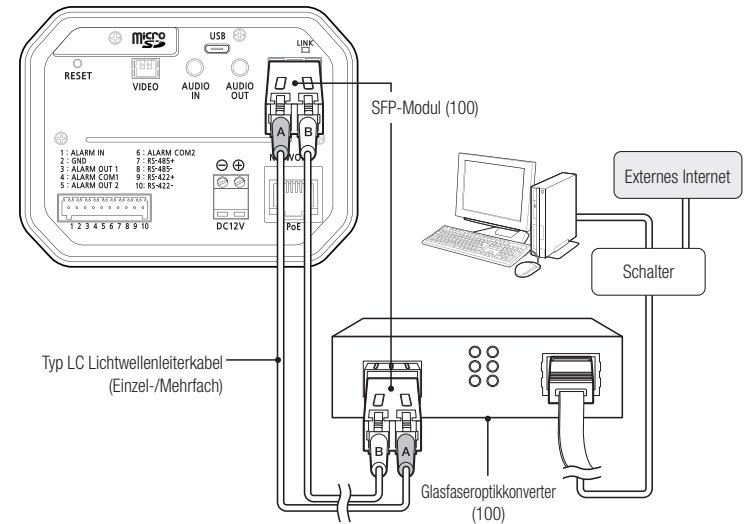
Ethernet-Verbindung

Anschluss an Ihr lokales Netzwerk oder Internetanschluss, indem Ihr Ethernetkabel oder SFP-Optik-Verbindung angeschlossen werden.

Die Ethernetverbindung von diesem Produkt unterstützt die redundante Verbindung zwischen RJ-45 und SFP und die SFP hat Vorrang.

Verhaltensbeispiel:

- Wenn der SFP-Port während der Nutzung von RJ-45 angekoppelt ist, dann ist SFP für den Ethernet-Link aktiviert, während RJ-45 deaktiviert ist.
- Wenn die SFP-Verbindung plötzlich abgebrochen ist während der SFP-Nutzung, wird die RJ-45 Verbindung automatisch aktiviert.



WiFi-Verbindung

Kameraeinstellung

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

Smartphone-Einrichtung

- 1. Installieren Sie die Wisenet Installation Anwendung.
- 2. Wählen Sie die SSID-Kamera nach dem Einschalten des WiFi.
- 3. Führen Sie die Wisenet Installationsanwendung aus.
- 4. Wenn Sie sich bei der Kamera anmelden, wird das Video verbunden (Anfang passwort: 4321)
 - Das Video wird abgespielt, ohne bei der ersten Verbindung angemeldet zu sein.
- 5. 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 die Stromquelle für PoE und DC 12V gleichzeitig eingeschaltet werden, wird die Geräteleistung die externe Stromquelle DC 12V) verwenden.
 - Es kann ebenfalls ein Router mit PoE Funktion für die Stromversorgung der Kamera verwendet werden.
 - Verwenden Sie PoE, das mit den IEEE802.3af Protokollen kompatibel ist.
 - Egal ob es PoE oder DC 12V ist, wird die Nutzung einer einzigen Stromquelle 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.
 - Zuerst das Netzteil und das Netzteil des Netzkabels anschließen und dann das Netzkabel an die Steckdose an der Wand anschließen.

Netzkabel-Spezifikation für jedes Modell

Eingangsleistung	Kabeltyp (AWG)	Kabellänge (max.)
DC 12V	#20	23m
	#18	30m

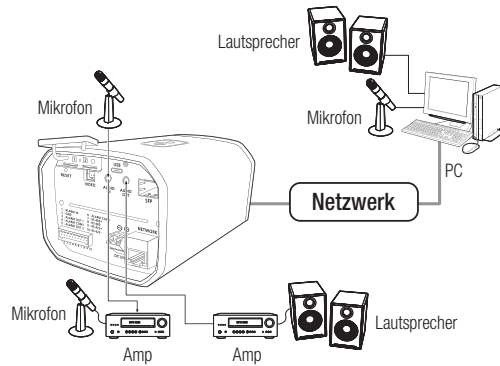
Netzwerkkabel-Spezifikation

Artikel	Inhalte	Anmerkung
Stecker	RJ45 (10/100BASE-TX)	
Ethernet	10/100Base-TX	
Kabel	UTP Kategorie 5e	
Max. Entfernung	100m	DC-Widerstand ≤ 0,125Ω /m
PoE Support	IEEE 802.3af	

Optische Kommunikation Ethernet Standard

Artikel	Inhalte
Ethernet: Optische Kommunikation	SFP (LC-Typ)
Optische Kommunikation: Ethernet physikalischer Rang	100 Base-FX
Optische Kommunikation: Default Geschwindigkeit	100Mbps
Optische Kommunikation: Ethernet Standard	IEEE 802.3u

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

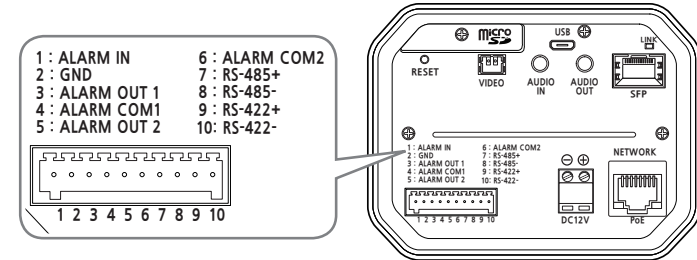
- Audioeingang : G.711 PCM (Bitrate: 64kbps / Abtastfrequenz: 8kHz), G.726 ADPCM (Bitrate: 16Kbps, 24Kbps, 32Kbps, 40Kbps / Abtastfrequenz: 8kHz), AAC (Bit Rate: 48Kbps / Sampling Frequency: 16kHz)
- Audioausgang : G.711 PCM (Bitrate: 64kbps / Abtastfrequenz: 8kHz)

• Vollduplex Audio

- **Audio Ein** : Eingang Mono Signalkabel (Max.2.4 Vpp)
- **Audio Aus** : Ausgabe Mono Signalkabel (Max.2.4 Vpp)
- **Line out Impedanz** : 600Ω

Anschluss an die I/O-Port-Box (XNB-6005)

Zum Verbinden des Alarmeingangs/Alarmausgangs mit dem entsprechenden Port auf der hinteren Port-Box.



- **ALARM IN** : Wird verwendet, um den Alarm-Eingang-Sensor oder den externen Tag-/Nachtsensor zu verbinden.
- **ALARM OUT** : Anschluss für Audioausgabe.
- **ALARM COM** : Das übliche Terminal, das Alarmausgangssignale verbindet.
- **GND** : Für die Erdung.
- **RS-485+** : Anschluss für die RS-485 Datenübertragung des Empfängers (+).
- **RS-485-** : Anschluss für die RS-485 Datenübertragung des Empfängers (-).
- **RS-422+** : Anschluss für die RS-422 Datenübertragung des Empfängers (+).
- **RS-422-** : Anschluss für die RS-422 Datenübertragung des Empfängers (-).

Anschließen eines externen RS-485/422-Geräts

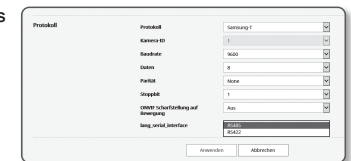
Die Kamera über die **[RS-485/422 +, -]** Anschlüsse an das externe Gerät anschließen.

Die Schwenk- und Neigungsfunktion der Kamera kann über RS-485/422 Datenübertragung gesteuert werden.

- Für die Datenübertragung über RS-485/422 muss GND angeschlossen werden. Wenn Datenübertragungsfehler auftreten, gegebenenfalls den GND Kontakt anschließen, um das Massepotential zwischen der Kamera und dem externen Gerät auszugleichen.

Änderung des RS-485/422 Protokolls

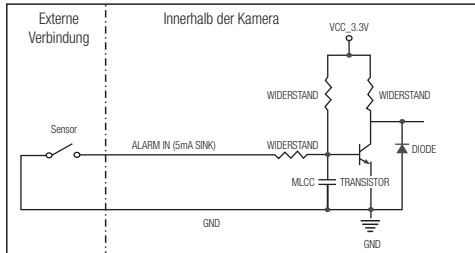
Nach Zugriff auf den Web-Viewer zu „Setup → PTZ → Externes PTZ“ Menü gehen, um das Protokoll zu ändern.



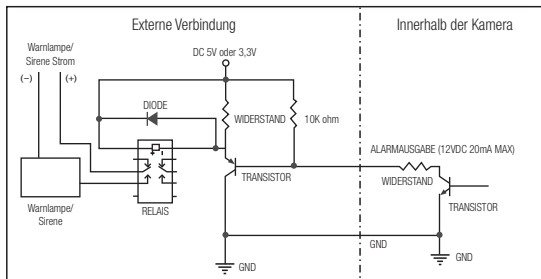
Anschließen des externen Sensors

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

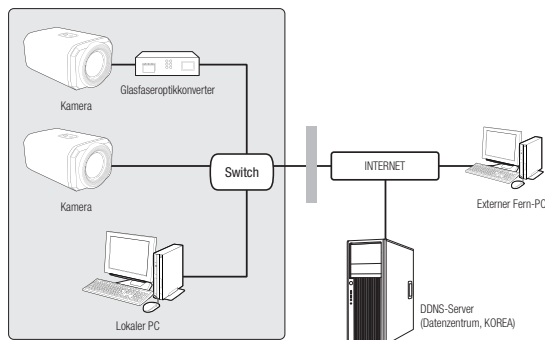


Sie können die Netzwerkeinstellungen gemäß Ihrer Netzwerkkonfigurationen einrichten.

DIREKTES VERBINDEN DER KAMERA AN DAS LAN

Anschluss an die Kamera von einem lokalen PC im LAN

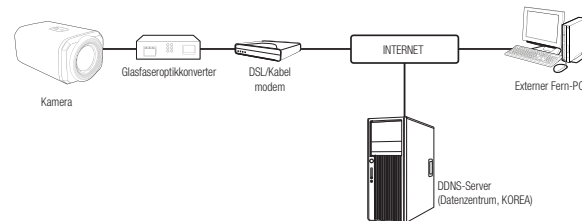
1. Starten Sie einen Internetbrowser am lokalen PC.
2. Geben Sie die IP-Adresse der Kamera in die adressenleiste des browsers ein.



<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.
- Im Device Manager kann das Initialpasswort „4321“ für die Einstellung von IP-Adresse, Subnetzmaske, Gateway, HTTP-Port, VNP-Port und IP-Typ verwendet werden. Nach Änderung der Netzwerk-Schnittstelle greifen Sie zwecks besserer Sicherheit auf den Webviewer zu und ändern Sie das Passwort.
- Standardmäßig wird die IP-Adresse vom DHCP-Server automatisch zugeteilt. Wenn keinen DHCP-Server verfügbar ist, wird die IP-Adresse auf 192.168.1.100 gesetzt. Zum Ändern der IP-Adresse den Device Manager verwenden. Für weitere Einzelheiten zur Verwendung des Device Manager, siehe „Verwenden des Device Manager“. (Seite 16)

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 **<Support>** – **<Online Tool>** auf der Hanwha Vision Webseite (<https://www.HanwhaVision.com>).
- Weitere Anweisungen zum Device Manager finden sich im Menü **<Hilfe>** auf der Hauptseite.

AUTOMATISCHE SUCHE DER KAMERA

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

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

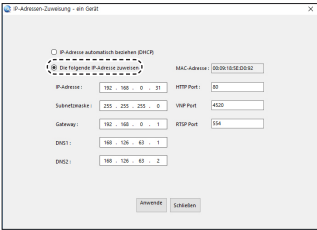
KONFIGURIEREN DER IP-ADRESSE

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

Konfigurieren der statischen IP

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

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



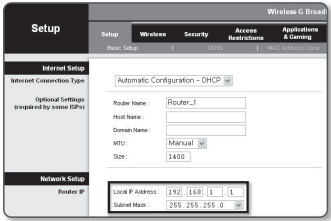
Wenn Sie keinen Breitband-Router verwenden

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

- HTTP Port : Zum Zugriff auf die Kamera über den Internetbrowser. Standardmäßig ist der Wert 80 eingestellt.
- VNP Port : Wird verwendet, um die Videosignalübertragung zu steuern. Der Standardwert lautet 4520.
- RTSP Port: Ein Port, der das Echtzeit-Streaming steuert. Der Initialwert ist 554.

Bei Verwendung eines Breitband-Routers

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



- Die Netzwerkeinstellungen können sich je nach verbundenem Breitband-Router modell unterscheiden. Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.
- Für weitere Informationen über die Portweiterleitung des Breitband Routers, bitte unter **"Portbereichweiterleitung Konfigurieren (Port Mapping)"** nachschlagen. (Seite 18)

Wenn mehrere Kameras mit dem Breitband-Router verbunden sind

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

bsp)

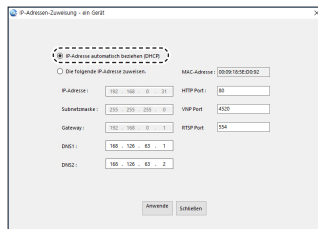
Kategorie		Kamera #1	Kamera #2
IP-Einstellungen	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Port-Einstellungen	HTTP Port	8080	8081
	VNP Port	4520	4521
	RTSP Port	554	555

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

Konfigurieren der dynamischen IP

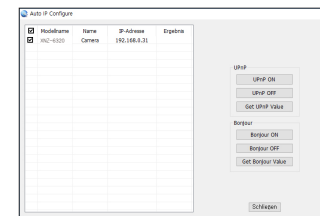
IP-Adresse vom DHCP-Server beziehen.

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



AUTOMATISCHE KONFIGURATION DER IP

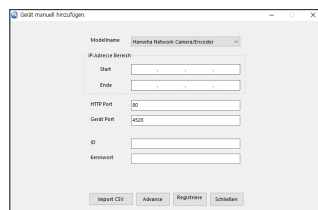
1. In der Liste auf die Kamera klicken, von der die IP automatisch konfiguriert werden soll.
2. Auf der Hauptseite des Device Manager auf **< + >** klicken.
 - Das Menü Equipment Setting erscheint.
3. Im Menü auf **<Auto IP Configure (Automatische IP-Konfiguration)>** klicken.
4. Auf die Schaltfläche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



MANUELLES REGISTRIERUNG DER KAMERA

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

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

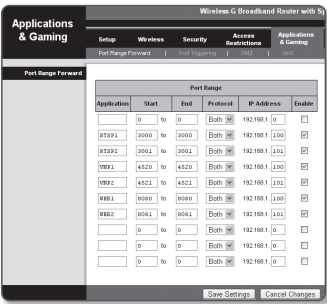


PORTBEREICHWEITERLEITUNG KONFIGURIEREN (PORT MAPPING)

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

Manuelle Portbereichweiterleitung

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

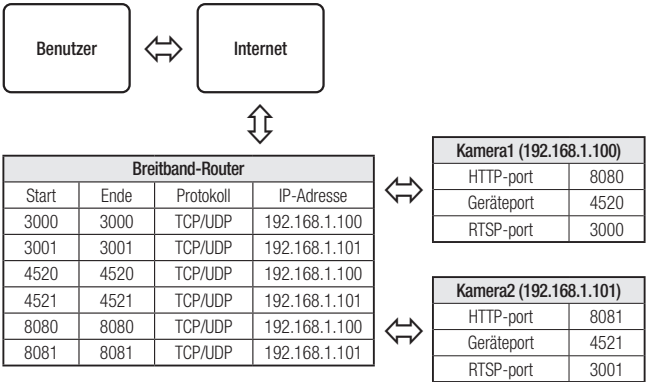


- Die Einstellung des Port-Forwarding wird am Beispiel der Einstellung eines CISCO IP-Routers gezeigt.
- Die Netzwerkeinstellungen können sich je nach Breitband-Routermodell unterscheiden. Für mehr Informationen, lesen Sie im Benutzerhandbuch des Routers nach.

Einstellen des Portweiterleitungsbereichs für mehrere Netzwerkkameras

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

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



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

VON EINEM GEMEINSAMEN LOKALEN PC EINE VERBINDUNG ZU DER KAMERA HERSTELLEN

1. Device Manager ausführen.
Es wird nach verbundenen Kameras gesucht und eine entsprechende Liste angezeigt.
2. Doppelklicken Sie auf eine Kamera, um auf sie zuzugreifen.
Der Internetbrowser wird gestartet und stellt eine Verbindung zu der Kamera her.



- Sie können ebenfalls auf die Kamera zugreifen, indem Sie die IP-Adresse der gefundenen Kamera in der Adresszeile des Internetbrowsers eingeben.

VON EINEM ENTFERNTEN PC EINE VERBINDUNG ZU DER KAMERA ÜBER DAS INTERNET HERSTELLEN

Auf einem entfernten Computer, der sich nicht im Netzwerk-Cluster des Breitband-Routers befindet, können Anwender auf Kameras im Netzwerk des Breitband-Routers durch die Verwendung der DDNS-URL der Kamera zugreifen.

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

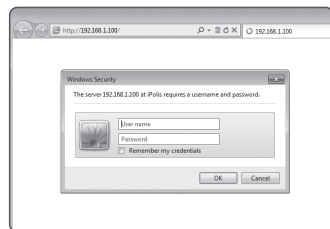


- Um DDNS zu verwenden, melden Sie sich auf der DDNS-Homepage an (<http://ddns.hanwha-security.com>) und registrieren Sie das Produkt unter **[Mein DDNS]>[Produkt registrieren]**.

VERBINDUNG MIT DER KAMERA

Sie würden, normalerweise

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



Falls die Nummer des HTTP-Ports nicht 80 ist

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

URL Benutzen

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



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

Verbindung über UPnP

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

Verbindung über Bonjour

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

So überprüfen Sie die DDNS-Adresse

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.

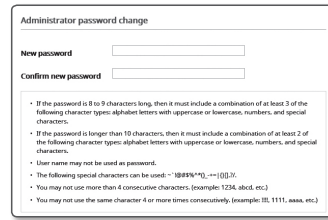
Um das Gerät auf dem <DDNS> Server zu registrieren, besuchen Sie bitte <http://ddns.hanwha-security.com>, registrieren Sie zuerst Ihr Gerät stellen Sie anschließend im Net Viewer unter <Netzwerk> - <DDNS> auf <DDNS> und geben Sie ebenfalls die <Produkt-ID> ein, die Sie bei der DDNS-Registrierung verwendet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

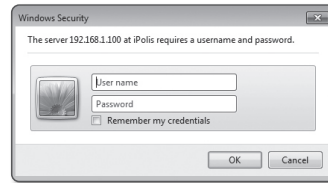
- Geben Sie „**admin**“ in das **<User name>** Eingabefeld ein. Die Administrator ID, „**admin**“, kann nicht verändert werden.
- Geben Sie das Passwort in dem Eingabefeld **<Password>** ein.
- Klicken Sie auf **[OK]**. Wenn Sie sich erfolgreich angemeldet haben, werden Sie den Live Viewer Bildschirm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

- Klicken Sie auf das **[Einrichten (⚙️)]**-Symbol.
- Das Fenster für die Einstellungen erscheint.
- 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.
- Klicken Sie auf **<Hilfe (🔗)>** um detaillierte Beschreibungen jeder Funktion betrachten zu können.

FEHLERSUCHE

PROBLEM	LÖSUNG
Wenn ein Benutzer von Windows 10 über Chrome oder Firefox auf den Webviewer zugreift, ändert sich von Zeit zu Zeit die Lautstärke des Mikrofons.	Dies geschieht, wenn der Mikrofontreiber auf Realtek-Treiber festgelegt wurde. Installieren Sie das High Definition Audio-Gerät (Standardtreiber von Windows) oder den Dritttreiber als Mikrofontreiber.
Wenn Sie unter Safari per HTML auf den Plug-in-freien Webviewer zugreifen, wird kein Video angezeigt.	- Bei dem ersten Zugriff auf HTTPS klicken Sie im Pop-up-Fenster zu Authentifizierung auf "Authentifizierungszertifikat anzeigen" und wählen Sie das Feld "Beim Verbinden zur IP des designierten Webviewers immer vertrauen" aus. - Wenn im Webviewer weiterhin kein Video angezeigt wird, nachdem Sie im Nachrichtenfenster unten "Weiter" ausgewählt haben, klicken Sie auf die Befehlstaste + Q, um den Safari-Browser zu verlassen. Rufen Sie ihn dann erneut auf und folgen Sie den oben angegebenen Schritten.
Ich kann von einem Webbrowser nicht auf die Kamera zugreifen.	- Überprüfen Sie, ob die Netzwerkeinstellungen der Kamera entsprechend sind. - Kontrollieren Sie, oballe 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 mit dem Netzwerk verbundene Kamera wird im Programm Device Manager nicht erkannt.	Schalten Sie die Firewall-Einstellungen an Ihrem PC aus und suchen Sie dann die Kamera erneut.
Die Bilder überlappen.	Prüfen Sie, ob zwei oder mehr Kameras auf einer einzigen Multicast-Adresse anstelle verschiedener Adressen festgelegt sind. Wenn eine einzige Adresse für mehrere Kameras verwendet wird, können die Bilder überlappen.
Es wird kein Bild eingeblendet.	Wenn die Übertragungsmethode auf Multicast festgelegt ist, müssen Sie überprüfen, ob ein Router vorhanden ist der Multicast im LAN, an das die Kamera verbunden ist, unterstützt.

PROBLEM	LÖSUNG
Stimme wird nicht aufgezeichnet, obwohl die Audio-Eingabeeinstellungen konfiguriert wurden.	Sie müssen das <Audio-Eingang> - Kontrollkästchen im <Basis> - <Video Profil> aktivieren.
<Bewegungserkennung> des <Analyse> ist auf <Aktivieren> eingestellt, doch haben mich keine E-Mails mit Benachrichtigungen erreicht, selbst wenn ein Analyse-Ereignis eingetreten ist.	Überprüfen Sie die Einstellungen in der folgenden Reihenfolge: A. Prüfen Sie die Einstellungen unter <Datum & Uhrzeit>. B. Die <Bewegungserkennung> muss auf <Aktivieren> gestellt sein. C. Prüfen Sie, ob die Option <E-mail> im <Ereigniseinrichtung> Menü markiert ist.
Am Port für den Signalausgang wird kein Signal erkannt, selbst wenn ein Ereignis der intelligenten Videoanalyse aufgetreten ist.	Prüfen Sie die Einstellungen des Ports für den Signalausgang.
Auf die Micro SD Speicherkarte kann nicht aufgenommen werden.	Auf die SD-Speicherkarte kann nicht aufgenommen werden.
Die Micro SD Speicherkarte ist eingelegt, aber die Kamera funktioniert nicht richtig.	- Überprüfen Sie, ob die Speicherkarte richtig herum eingelegt wurde. Für diese Kamera kann nicht garantiert werden, dass eine Speicherkarte, die mit einem anderen Gerät formatiert wurde, reibungslos funktioniert. - Formatieren Sie die Speicherkarte über das Menü <Setup> → <Ereignis> → <Speicherkapazität>.
Kann nicht in NAS aufnehmen.	Bestätigen Sie, dass die in NAS registrierten Informationen richtig sind.
Meldet, dass die NAS-Einstellung fehlgeschlagen ist.	- Bestätigen Sie, dass die IP-Adresse des NAS gültig ist. - Bestätigen Sie, dass die ID/dass Passwort des NAS gültig ist. - Bestätigen Sie, dass Sie auf den als Basisordner bezeichneten Ordner mit der NAS-ID zugreifen können. - Bestätigen Sie, dass die NAS SMB/CIFS-Punkte nicht angekreuzt sind. - Bestätigen Sie, dass die NAS IP-Adresse und die Kamera-IP-Adresse dasselbe Format haben. Ex) Der Erstwert des NAS & der Kamerasubnetzmaske ist 255.255.255.0. Ist die IP-Adresse 192.168.20.32, sollte sich die NAS IP-Adresse im Bereich von 192.168.20.1~192.168.20.255. befinden - Prüfen Sie, ob Sie als ein anderer Benutzer ohne Formatierung des gespeicherten oder benutzten Basisordners zugreifen wollten. - Bestätigen Sie, dass Sie empfohlene NAS-Ausrüstung benutzen.

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iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-4.2	GPL 2.0	
mtdd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdd-utils
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
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LGPL SW

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

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

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

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



Korrekte Entsorgung der Batterien dieses Produkts

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

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

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

