

VIDEOCAMERA DI RETE

Manuale utente

XNP-6371RH



Videocamera di rete

Manuale utente

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❖ Il progetto e le specifiche sono soggetti a modifiche senza preavviso.

❖ Il nome utente iniziale dell'amministratore è "admin" e la password deve essere impostata quando viene effettuato l'accesso per la prima volta.

Cambiare la propria password ogni tre mesi per proteggere efficacemente le informazioni personali e per evitare danni causati dal furto delle informazioni personali.

Tenere presente che la sicurezza e qualunque problema causato dalla cattiva amministrazione della password, sono responsabilità dell'utente.

ISTRUZIONI DI SICUREZZA IMPORTANTI

1. Leggere queste istruzioni.
2. Conservare queste istruzioni.
3. Rispettare tutti gli avvertimenti.
4. Seguire tutte le istruzioni.
5. Non utilizzare questo apparecchio vicino all'acqua.
6. Pulire l'area contaminata sulla superficie del prodotto con un panno soffice e asciutto o con uno straccio. (Non usare un detergente o prodotti cosmetici contenenti alcol, solventi o tensioattivi o costituenti di olii in quanto potrebbero deformare o danneggiare il prodotto).
7. Non bloccare nessuna apertura di ventilazione. Installare seguendo le istruzioni del fabbricante.
8. Non installare vicino a fonti di calore quali caloriferi, stufe o altri prodotti (compresi gli amplificatori) che possano produrre calore.
9. Non eludere il sistema di sicurezza della spina polarizzata o a terra. Una spina polarizzata è costituita da due spinotti, uno più grande dell'altro. Una spina con presa a terra ha due spinotti e un terzo per la presa a terra. Lo spinotto più grande o il terzo spinotto sono stati previsti per la vostra sicurezza. Se la spina fornita non entra nella presa, mettersi in contatto con l'elettricista per la sostituzione della presa obsoleta.
10. Proteggere il cavo dell'alimentazione per evitare che sia calpestato o schiacciato, facendo particolare attenzione alle spine, alle prese e al punto in cui i cavi escono dell'apparecchio.
11. Utilizzare solo connettori/accessori indicati dal fabbricante.
12. Utilizzare solo carrelli, supporti, treppiedi, staffe o tavoli consigliati dal produttore o venduti assieme all'apparecchio. Qualora si utilizzi un carrello, spostare il gruppo carrello/apparecchio con attenzione per evitare che si ribalti provocando incidenti.
13. Durante forti temporali o se non viene utilizzato per lunghi periodi di tempo, scollegare l'apparecchio dall'alimentazione elettrica.
14. Rivolgersi a personale specializzato per qualsiasi riparazione.
Le riparazioni sono richieste quando l'apparecchio viene in qualche modo danneggiato, ad esempio quando viene danneggiato il cavo di alimentazione o la spina, se è stato versato qualche liquido nell'apparecchio o vi sono caduti degli oggetti o se è stato esposto alla pioggia o all'umidità, se non funziona normalmente o se è caduto.
15. Questo prodotto è stato ideato per essere fornito con un'unità di alimentazione segnata come "Classe 2" o "LPS" e classificata 24 Vac (50/60 Hz), min. 4.2 A.
16. Se si applica una pressione eccessiva durante l'installazione del prodotto, la telecamera potrebbe danneggiarsi e funzionare male.
Se il prodotto è installato forzatamente utilizzando prodotti non conformi, il prodotto potrà danneggiarsi.
17. Non installare il prodotto in un luogo in cui sono presenti o potrebbero essere generate sostanze chimiche o miscele d'olio. Poiché gli oli commestibili come l'olio di soia possono danneggiare o deformare il prodotto, non installarlo nella cucina o vicino al tavolo della cucina.
Ciò potrebbe provocare danni al prodotto.
18. Durante l'installazione del prodotto, prestare attenzione a non far macchiare la superficie con la sostanza chimica.
Alcuni solventi chimici come detersivi o adesivi potrebbero causare gravi danni alla superficie del prodotto.
19. Se il prodotto viene installato/smontato in una modalità che non è stata raccomandata, le funzioni/ performance della produzione potrebbero non essere garantite.
Installare il prodotto facendo riferimento a "Installazione e collegamento" nel manuale utente.
20. L'installazione o l'utilizzo del prodotto in acqua può causare gravi danni allo stesso.



AVVERTENZA

PER RIDURRE IL RISCHIO DI INCENDIO O DI SCOSSA ELETTRICA, NON ESPORRE L'APPARECCHIO A PIOGGIA O A UMIDITÀ. NON INSERIRE OGGETTI METALLICI ATTRAVERSO LE GRIGLIE DI VENTILAZIONE O ALTRE APERTURE DELL'APPARECCHIATURA.

Non schizzare o sgocciolare liquidi sull'apparecchio e non porre su di esso oggetti contenenti liquidi, come ad esempio vasi di fiori.

Per evitare lesioni personali, questo apparecchio deve essere fissato saldamente a una parete/al soffitto seguendo le istruzioni per l'installazione.

I motori Rotazione/Inclinazione/Zoom e lo slip ring sono garantiti per un anno in funzionamento continuo.

ATTENZIONE

	ATTENZIONE RISCHIO DISCOSSA ELETTRICA NON APRIRE	
ATTENZIONE : PER RIDURRE I RISCHI DI SCOSSA ELETTRICA. NON RIMUOVERE IL COPERCHIO (O IL PANNELLO POSTERIORE). ALL'INTERNO NON VI SONO PARTI CHE L'UTENTE POSSA RIPARARE. RIVOLGERSI A PERSONALE QUALIFICATO.		

SPIEGAZIONE DEI SIMBOLI GRAFICI



Il simbolo del fulmine con la freccia all'interno del triangolo avverte l'utente della presenza di una "tensione pericolosa" all'interno del prodotto, che può essere di intensità sufficiente per costituire un rischio di scossa elettrica alle persone.



Il simbolo del punto esclamativo all'interno del triangolo avverte l'utente della presenza di importanti istruzioni di funzionamento e manutenzione nella documentazione che accompagna il prodotto.

Prodotto di classe I

Un apparecchio di classe I viene connesso alla presa di RETE con una connessione di messa a terra di sicurezza.

Batteria

Le batterie(pacco batterie o batterie installate) non devono essere esposte a eccessivo calore, come luce del sole, fuoco o simili.

La batteria non è sostituibile.

Scollegamento del dispositivo

Scollegare la spina di alimentazione dall'apparecchio, se difettoso. Quindi contattare il centro di assistenza più vicino.

Se l'apparecchio viene utilizzato al di fuori degli Stati Uniti, servirsi di cavi con codice HAR di un produttore riconosciuto.

ATTENZIONE

Queste istruzioni di manutenzione devono essere utilizzate esclusivamente da personale di assistenza qualificato.

Per ridurre il rischio di scosse elettriche non eseguire interventi di manutenzione diversi da quelli indicati nelle istruzioni per l'uso a meno di essere in possesso della qualifica adatta a tale scopo.

Il terminale CVBS di uscita del prodotto è fornito per un'installazione più facile. L'utilizzo non è raccomandabile per scopi di monitoraggio.

Utilizzare l'alimentazione in ingresso con una sola telecamera; gli altri dispositivi non devono essere collegati.

L'apparecchiatura informatica (ITE) deve essere collegata solo a reti PoE senza instradamento all'impianto esterno.

Leggere attentamente le seguenti precauzioni di sicurezza raccomandate.

- Non collocare l'apparecchio su superfici irregolari.
- Non installare su superfici esposte alla luce diretta del sole, vicino a fonti di calore o a zone di freddo intenso.
- Non collocare l'apparecchio vicino a materiali conduttivi.
- Non tentare di effettuare personalmente interventi di assistenza sull'apparecchio.
- Non collocare bicchieri d'acqua sul prodotto.
- Non installare vicino a sorgenti magnetiche.
- Non ostruire le aperture per la ventilazione.
- Non appoggiare oggetti pesanti sul prodotto.
- Usare guanti protettivi quando si installa o rimuove la telecamera.
L'elevata temperatura della superficie del dispositivo potrebbe causare ustioni.

Il manuale utente è una guida all'uso dei prodotti.

I simboli utilizzati nel manuale hanno i seguenti significati.

- Riferimento : Fornisce informazioni sull'uso del prodotto
- Avvertenza : Se vi è la possibilità di danni a persone o oggetti provocati dalla mancata osservanza delle istruzioni

✖ Per ragioni di sicurezza, leggere questo manuale prima di utilizzare il prodotto e conservarlo in un luogo sicuro.

In determinati ambienti di installazione, potrebbero esserci interferenze nelle comunicazioni radio. Quando si verificano interferenze di onde elettromagnetiche tra il prodotto e il dispositivo di comunicazione radio, si raccomanda di mantenere una certa distanza tra i due o di cambiare la direzione dell'antenna ricevente.

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SPECIFICHE PC CONSIGLIATE

- CPU : Intel(R) Core(TM) i7 3.4 GHz o superiore
 - RAM : 8 G o superiore
 - Sistema operativo supportato : MS Windows, Mac OS X
 - **Visualizzatore del web senza Plug-in**
Browser web supportati : Google Chrome, MS Edge, Mozilla Firefox (solo Windows 64 bit), Apple Safari (solo Mac OS X)
 - **Visualizzatore del web con Plug-in**
Browser web supportati : MS Explorer, Apple Safari (solo Mac OS X)
- Si prega di consultare l'appendice per informazioni dettagliate sulle versioni del sistema operativo e del browser verificate.

SPECIFICHE RACCOMANDATE PER LA SCHEDA DI MEMORIA SD/SDHC/SDXC

- Spazio consigliabile : 4GB ~ 128GB (Il file di sistema ext4 è raccomandato per le memory card SD 128GB.)
- Per al fotocamera, consigliamo di usare una scheda di memoria dei seguenti produttori:
Scheda di memoria SD/SDHC/SDXC(Tipo MLC) : Sandisk, Transcend
- Per una frequenza di fotogrammi inferiore a 30 fps, è raccomandato l'utilizzo della memory card specifica Classe 6 o superiore.
- Per una frequenza di fotogrammi superiore a 31 fps, è raccomandato l'utilizzo della memory card specifica di Classe 10 o superiore.

SPECIFICHE NAS CONSIGLIABILI

- Spazio consigliabile : È consigliabile disporre di uno spazio di 200GB o superiore.
- Accesso simultaneo : Una singola unità NAS è in grado di accettare fino ad un massimo di sedici telecamere in entrata.
- Per questa telecamera, si consiglia di utilizzare una NAS con le seguenti specifiche tecniche del fornitore.

Prodotti raccomandati	Dimensioni disponibili
QNAP NAS	Supporta fino ad un massimo di 16 telecamere in entrata simultaneamente.
Sinologia NAS	Supporta fino ad un massimo di 16 telecamere in entrata simultaneamente.



- Se si utilizza un'apparecchiatura NAS per uno scopo diverso dal salvataggio di video, il numero di telecamere in entrata supportato potrebbe variare.

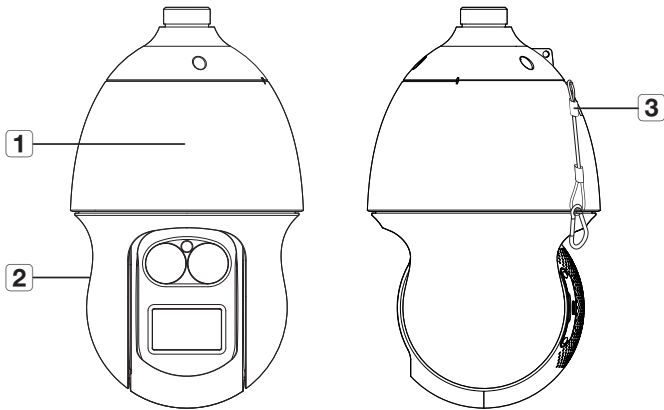
ACCESSORI FORNITI

Verificare che nella confezione siano contenuti la videocamera e tutti gli accessori.
(In base al Paese di residenza, gli accessori potrebbero variare.)

Aspetto	Articolo	Quantità	Descrizione
	Struttura principale	1	
	Guida Rapida (opzionale)	1	
	Certificato di garanzia (opzionale)	1	
	Cavo di prova monitor	1	Per verificare la connessione della videocamera ad un dispositivo di visualizzazione portatile
	Vite esagonale	3	Per collegare la base di installazione alla videocamera
	Chiave a L	1	Per fissare la base di installazione dopo averla attaccata alla videocamera
	Base di installazione	1	Staffa per il montaggio all'esterno
	Accessorio impermeabile	1	Installare e utilizzare in aree dove è presente un alto livello di umidità.

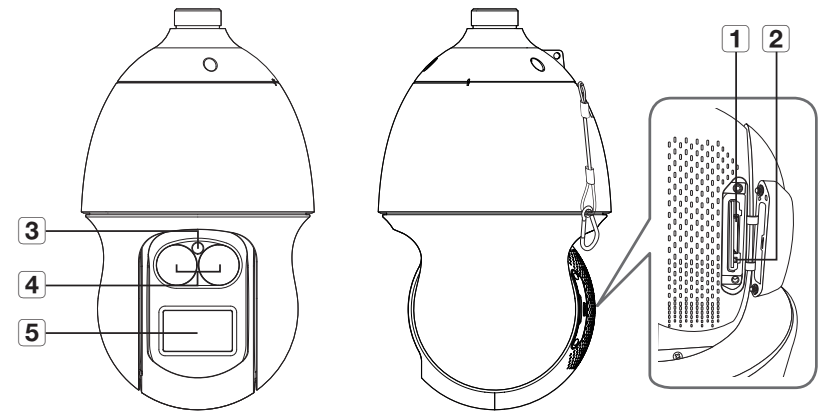
SGUARDO D'INSIEME

Aspetto



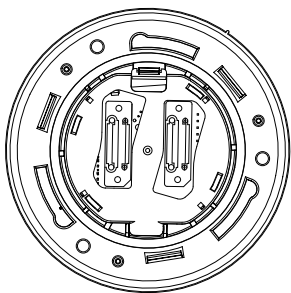
Voce	Descrizione
1 Unità principale	Protegge il meccanismo PTZ interno dalla luce diretta del sole, dalla pioggia o da impatti esterni.
2 Coperchio di protezione	Coperchio di protezione per gli obiettivi e unità protettiva.
3 Cavo di sicurezza	Il cavo evita la caduta del prodotto durante l'installazione.

Interno

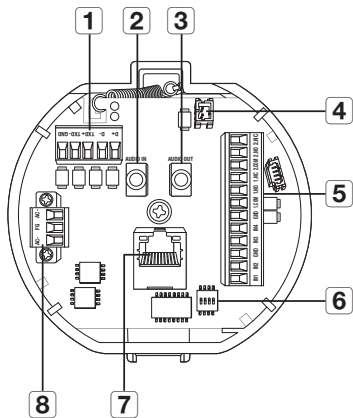


Voce	Descrizione
1 Alloggiamento scheda di memoria SD	Alloggiamento per la scheda di memoria SD. <input checked="" type="checkbox"/> Fare riferimento a <Inserire/Rimuovere una scheda di memoria SD> per la posizione di inserimento della scheda di memoria SD. (pagina 14)
2 Tasto Reset	Il pulsante ripristina tutte le impostazioni della videocamera all'impostazione predefinita. Tenere premuto per circa 5 secondi per riavviare il sistema. I Se si resetta la videocamera, le impostazioni di rete vengono regolate in modo da poter abilitare il DHCP. Se nella rete non è presente nessun server DHCP, è necessario eseguire il programma Device manager per modificare le impostazioni di rete di base, come indirizzo IP, Subnet mask, Gateway, ecc. prima di potersi collegare alla rete.
3 Sensore di illuminazione	Rileva la luce in ingresso per controllare il LED a infrarossi.
4 LED a infrarossi	Questi LED a infrarossi sono controllati dal sensore di illuminazione.
5 Obiettivo	Obiettivo della telecamera.

Vista dal basso della base di installazione



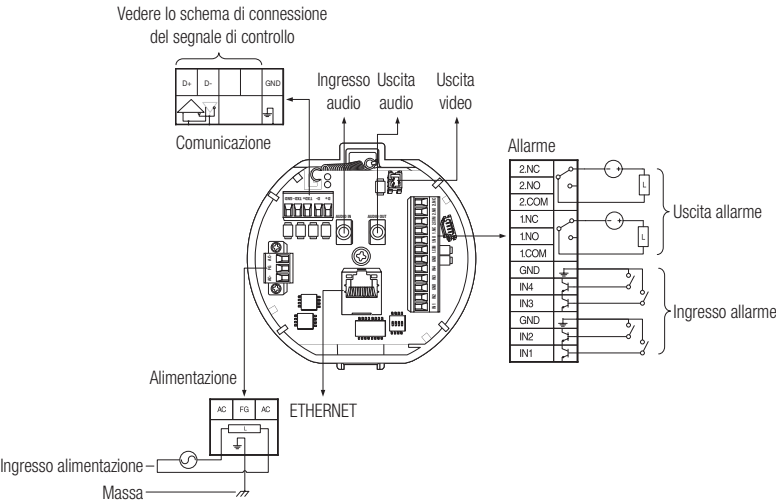
Vista interna della base di installazione



Voce	Descrizione
1 Porte di comunicazione	Per comunicazioni RS-485.
2 Porta di ingresso audio	Per collegare il cavo di ingresso audio.
3 Porta di uscita audio	Per collegare il cavo di uscita audio.
4 Porta di uscita video	Porta di uscita video analogica. (per l'installazione)
5 Porta di ingresso/uscita allarme	Per collegare il cavo di ingresso/uscita allarme.
6 Switch di impostazione comunicazioni	Impostare il protocollo di comunicazione (RS-485) e indicare se terminarlo o meno.
7 Connessioni di rete	Porta per la connessione alla rete usando un cavo Ethernet.
8 Porta di alimentazione	Per collegare l'alimentazione.

Scheda di interfaccia cablaggio della videocamera

Per il cablaggio della videocamera, vedere l'immagine in basso.

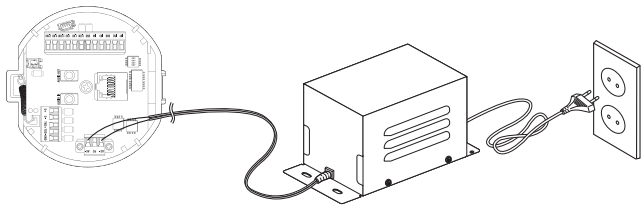


- Selezionare Apertura normale nel menu Configurazione.
 - L'ingresso del sensore è attivato durante un corto per il tipo a contatto, o quando si trova al livello "Basso" per il tipo attivo.
- Selezionare Chiusura normale dal menu Configurazione.
 - L'ingresso del sensore è attivato quando è aperto per il tipo a contatto, o quando si trova in stato di alta impedenza (collettore aperto) per il tipo attivo.
- La capacità massima del terminale di emissione allarme è di 30V cc/2A, 125V ca/0,5A e 250V ca/0,25A.
- Quando si collegano i cavi di ingresso e di uscita dell'allarme, fare attenzione a collegare ciascun cavo al terminale corrispondente.
- Per collegare dei prodotti oltre la potenza disponibile dalla videocamera, utilizzare un dispositivo relè aggiuntivo.
- Se i cavi di alimentazione e GND sono collegati in modo non appropriato alla porta NC/NO o COM, può verificarsi un incendio o una rottura dell'apparecchiatura.

COLLEGAMENTO CON ALTRI DISPOSITIVI

Preparazione di alimentatore e cavo

- Collegare la videocamera all'alimentatore. Quindi inserire il cavo dell'alimentatore nella presa di rete.



Controllare la tensione e la corrente nominali prima di effettuare le connessioni.

Potenza nominale	Tensione di ingresso consentita	Consumo di corrente
24 V CA	22 V CA ~ 26 V	6 A

- Il prodotto non può essere utilizzato a -50°C o al di sotto della temperatura ambiente.
- Il prodotto potrebbe non sbrinarsi se l'area d'installazione si troverà a -50°C.
- Dal momento in cui il prodotto sarà lasciato in un ambiente a basse temperature, lo stesso impiegherà fino a 2 ore per diventare pienamente operativo.
- La velocità dello zoom del dimmer IR potrebbe rallentare in un ambiente a -40°C o temperature inferiori.
- Resetare l'ora del prodotto se questo è acceso dopo essere stato esposto ad ambienti a -20°C o temperature inferiori.

Resistenza elettrica del filo di rame a [20°C (68°F)]

Diametro del filo di rame (AWG)	#24(0,22mm²)	#22(0,33mm²)	#20(0,52mm²)	#18(0,83mm²)
Resistenza (Ω/m)	0,078	0,050	0,030	0,018
Caduta di tensione (V/m)	0,028	0,018	0,011	0,006
Distanza raccomandata (m)	Meno di 20	Meno di 30	Meno di 30	Meno di 30

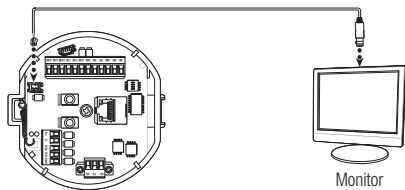
- Come indicato nella tabella sopra, a seconda della lunghezza del filo è possibile incontrare un buco di tensione.
Se si utilizza un filo troppo lungo per il collegamento della videocamera, la videocamera potrebbe non funzionare correttamente.
 - Tensione di funzionamento della videocamera : 24 V CA ± 10%
 - Le misurazioni della caduta di tensione sul grafico in alto possono variare a seconda del tipo e della costruzione del filo di rame.

Collegamento Ethernet

Collegare il cavo Ethernet alla rete locale o a Internet.

Collegamento del monitor di installazione

Collegare il cavo al terminale di uscita video sul retro della videocamera e al terminale di ingresso video del monitor di installazione.



- Il cablaggio varia a seconda del tipo di monitor e delle periferiche; fare riferimento al manuale utente per ogni periferica.
- Assicurarsi che il monitor e la videocamera siano spenti quando li si collega.

-
- Questo prodotto è una videocamera di rete che trasferisce il video in una rete; il terminale di uscita video è utilizzato per impostare al momento dell'installazione l'intervallo di cattura delle immagini della videocamera.
 - L'utilizzo del terminale per scopi di monitoraggio può causare problemi quali la perdita della qualità video.
 - Non idoneo per il monitoraggio di 24-ore mediante l'utilizzo di monitor CTR professionali oppure monitor portatili TFT/LCD.
 - Utilizzare lo schermo trasferibile di rete per un monitoraggio e una memorizzazione di 24-ore.

INSTALLAZIONE

Preparazione e installazione della staffa della videocamera

Per le istruzioni di installazione delle staffe e degli alloggiamenti, vedere il manuale di installazione incluso con la staffa o l'alloggiamento.

Modelli di staffa disponibili

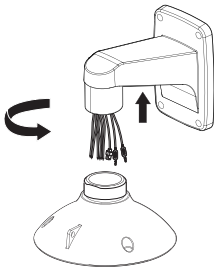
Modello	Elemento
SBP-300WM1	Supporto per montaggio a parete
SBP-300WM	
SBP-300CM	Supporto per montaggio a soffitto
SBP-300LM	Supporto per montaggio a parapetto
SBP-300KM	Supporto per montaggio ad angolo
SBP-300PM	Supporto per montaggio su palo

-
- Vedere "Accessori opzionali per l'installazione" per l'aspetto di ogni staffa (non compresa nel pacchetto). (pagina 12)

Installazione mediante supporto per montaggio a parete

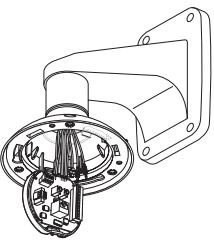
Fissare la base di installazione alla staffa

- Girare la base in senso orario per fissarla alla staffa.



- Come indicato nella figura in basso, premere delicatamente e sollevare la maniglia dello sportello a cerniera sul fondo della base di installazione. Per collegare i fili, fare riferimento a "Scheda di interfaccia cablaggio della videocamera" a pagina 9.

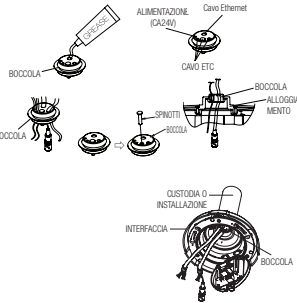
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- Attendere che l'installazione sia completata per collegare la videocamera alla presa di alimentazione. Se si collega l'alimentazione in fase di installazione si può provocare un incendio o danneggiare il prodotto.



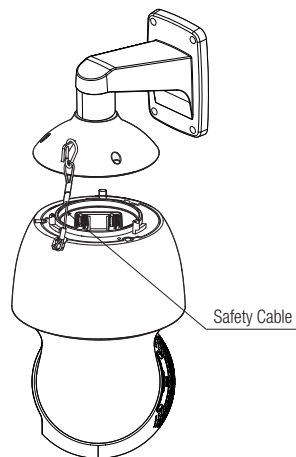
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- Controllare il metodo di connessione del cavo e poi procedere all'installazione.

- Le **BOCCOLE** sono fornite per le installazioni all'aperto, dove l'unità è esposta all'umidità attraverso il **TUBO** o il **SUPPORTO**; installare l'**ALLOGGIAMENTO** usando le **BOCCOLE** per evitare l'ingresso dell'umidità.

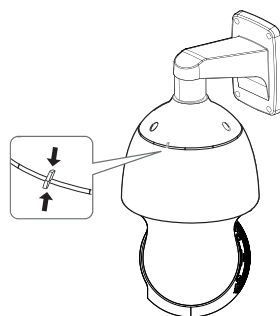
- Prima dell'assemblaggio applicare sulla **BOCCOLA** la giusta quantità di grasso e far passare i cavi attraverso ogni foro delle boccole. Usare gli **SPINOTTI** per chiudere i fori vuoti, in cui non passano cavi.
- Montare la **BOCCOLA** sul lato superiore della parte interna dell'**ALLOGGIAMENTO**, come indicato nella figura sotto. A questo punto, premere uniformemente sulla **BOCCOLA** per fissarla saldamente all'**ALLOGGIAMENTO** come indicato nella figura.



3. Collegare il filo di sicurezza della videocamera alla base di installazione.

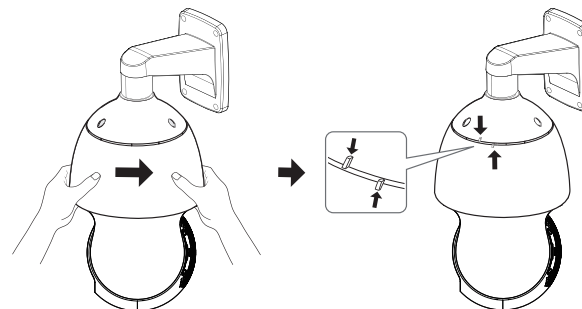


4. Montaggio della videocamera e della base di installazione
Montare la base di installazione e la videocamera facendo corrispondere le guide per l'installazione.



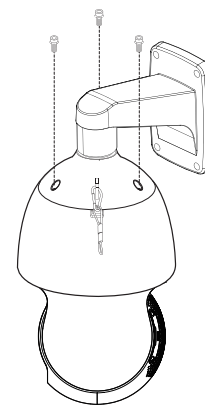
5. Attacco della videocamera

Ruotare l'unità principale della telecamera in senso orario per posizionare il segno di riferimento nella sezione superiore e inferiore come mostrato nella figura.



6. Fissaggio della videocamera e della base di installazione

Come mostrato nella figura in basso, fissare la base per l'installazione e la telecamera usando le viti esagonali.



Note per l'impermeabilizzazione

Questo è un prodotto per abitazione, abilitato per l'utilizzo in spazi aperti.

■ Quando si combina la struttura principale e il montaggio a muro per l'installazione a muro

1. Installare il supporto a parete sulla parete verticale. Quando è installato su un muro inclinato, l'umidità potrebbe permeare nella struttura principale attraverso il cavo esterno.
2. Per l'assemblaggio, avvolgere la parte filettata dell'alloggiamento con una quantità sufficiente di nastro in teflon.
3. Assicurarsi che la guarnizione non sia separata dal coperchio protettivo quanto questo viene separato e montato nella struttura dell'abitazione.
4. Installare l'adattatore del supporto a parete per l'impermeabilizzazione, quindi applicare il sigillante siliconico tra la parete e il supporto a parete e nella zona circostante, in modo da sigillare opportunamente.

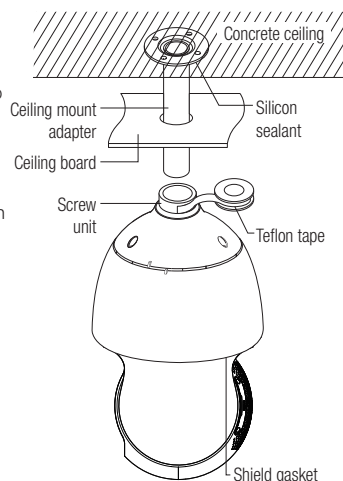
❗ ■ Se il lato installato non è in piano, prestare particolare attenzione e assicurarsi che la sigillatura sia corretta.



■ Quando si combina la struttura principale e il montaggio a soffitto per l'installazione a soffitto

1. Per l'assemblaggio, avvolgere la parte filettata dell'alloggiamento con una quantità sufficiente di nastro in teflon.
2. Assicurarsi che la guarnizione non sia separata dal coperchio protettivo quanto questo viene separato e montato nella struttura dell'abitazione.
3. Installare l'adattatore per supporto a soffitto per l'impermeabilizzazione, quindi applicare il sigillante siliconico tra la parete e il supporto a soffitto e nella zona circostante, in modo da sigillare opportunamente.

❗ ■ Se il lato installato non è in piano, prestare particolare attenzione e assicurarsi che la sigillatura sia corretta.

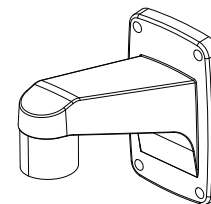


Accessori opzionali per l'installazione

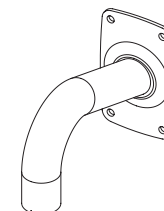
Per una maggiore facilità di installazione, è possibile acquistare gli accessori opzionali appropriati disponibili sul mercato.

1. Installazione della videocamera a parete

- Supporto per montaggio a parete (SBP-300WM1)

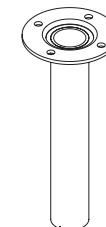


- Supporto per montaggio a parete (SBP-300WM)



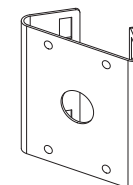
2. Installazione della videocamera a soffitto

- Supporto per montaggio a soffitto (SBP-300CM)

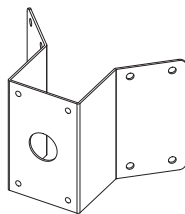


3. Installazione del supporto per montaggio a parete (SBP-300WM/SBP-300WM1) su un cilindro di almeno 80 mm di lunghezza

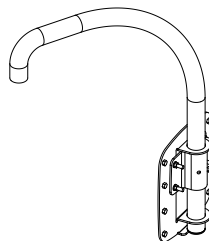
- Supporto per montaggio su palo (SBP-300PM)



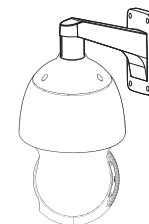
4. Installazione del supporto per montaggio a parete (SBP-300WM /SBP-300WM1) in un angolo della parete
- Supporto per montaggio ad angolo (SBP-300KM)



5. Installazione sul tetto di un edificio
- Supporto per montaggio a parapetto (SBP-300LM)



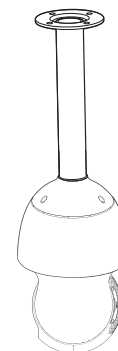
▪ Effettuare un montaggio unito



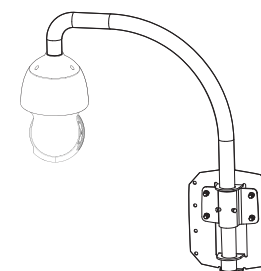
Supporto per montaggio a parete (SBP-300WM1)



Supporto per montaggio a parete (SBP-300WM)



Supporto per montaggio a soffitto (SBP-300CM)



Supporto per montaggio a parapetto (SBP-300LM)

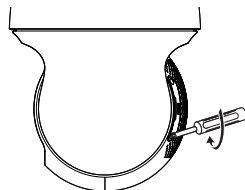
INSERIRE/RIMUOVERE UNA SCHEDA DI MEMORIA SD

- ❗ ■ Scollegare il cavo di alimentazione dalla videocamera prima di inserire la scheda di memoria SD.
- Si suggerisce di non rimuovere la scheda SD dalla telecamera durante giornate umide o piovose.
- Stringere le viti quando si assembla la struttura della telecamera, il coperchio protettivo e il supporto del SD, per evitare che vi penetri l'umidità.
- Quando si assembla o smonta una scheda di memoria SD, posizionare prima la struttura principale sul pavimento, per evitare la perdita dell'informazione oppure una caduta accidentale.

Inserire una scheda di memoria SD

1. Svitare due delle viti sul supporto del SD facendole girare in senso antiorario utilizzando il driver.

- ❗ ■ Non rimuovere le viti.

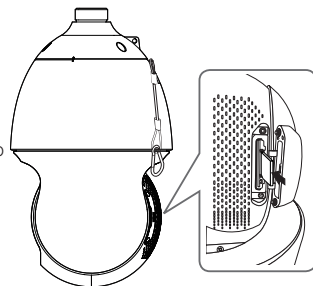


2. Sollevare il supporto del SD e spingere la scheda di memoria SD nella direzione della freccia, come mostrato nella figura.

- ❗ ■ Non forzare la scheda di memoria SD se è inserita al rovescio. Altrimenti potrebbe danneggiarsi.

3. Assemblare la telecamera nell'ordine inverso di smontaggio dopo aver inserito la scheda di memoria SD.

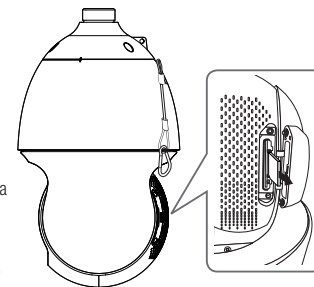
- ❗ ■ Stringere le viti nell'assemblare la telecamera per impedire che vi penetri l'umidità.



Rimuovere una scheda di memoria SD

Premere delicatamente sulla fine esposta della scheda di memoria come mostrato nel diagramma per espellere la scheda di memoria dallo slot.

- ❗ ■ Premendo con troppa forza sulla scheda di memoria SD, la scheda potrebbe fuoriuscire dallo slot quando viene rilasciata.
- Prima di rimuovere la scheda di memoria SD, impostare il dispositivo su <Off> nel menu <Memorizz.>, premere il tasto [Applica] e spegnere la telecamera.
- Se si spegne la telecamera o si rimuove la scheda di memoria SD che contiene i dati del prodotto, i dati potrebbero andare persi o danneggiati.

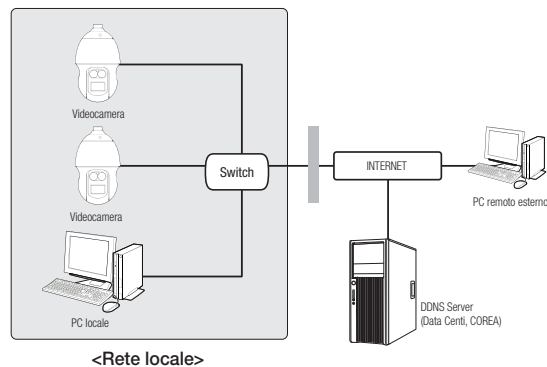


E' possibile impostare le impostazioni di rete secondo le configurazioni di rete.

COLEGARE LA VIDEOCAMERA DIRETTAMENTE ALL'AREA LOCALE DELLA RETE

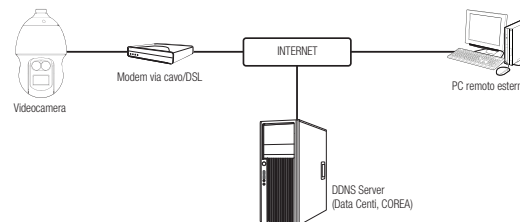
Collegare la videocamera da un PC locale nella LAN

1. Lanciare un browser internet sul PC locale.
2. Inserire un indirizzo IP della fotocamera nella barra dell'indirizzo del browser.



- Un PC remoto in un internet esterno fuori dalla rete LAN può non essere in grado di collegarsi alla fotocamera installata nell'intranet se l'inoltro della porta non è correttamente impostato o c'è un firewall. In questo caso, per risolvere il problema, contattare l'amministratore di rete.
- In Device manager, è possibile utilizzare la password iniziale, "4321" per impostare indirizzo IP, Subnet mask, Gateway, porta HTTP, porta VNP, tipo IP. Dopo aver cambiato l'interfaccia della rete, per assicurare una migliore sicurezza, accedere al visualizzatore del web e cambiare la password.
- Per impostazione predefinita, l'indirizzo IP viene assegnato automaticamente dal server DHCP. In assenza di un server DHCP disponibile, l'indirizzo IP è impostato su 192.168.1.100. Per modificare l'indirizzo IP, utilizzare il Device manager. Per ulteriori dettagli sull'utilizzo di Device manager, fare riferimento a "Utilizzo di Device manager". (Pagina 17)

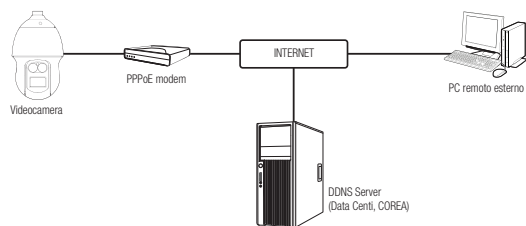
COLLEGAMENTO DELLA VIDEOCAMERA DIRETTAMENTE AD UN MODEM VIA CAVO/DSL DHCP



1. Collegare il PC utente direttamente alla rete della telecamera.
2. Eseguire il Device manager e modificare l'indirizzo IP della telecamera in modo da poter utilizzare il browser web sul desktop per connettersi a Internet.
3. Utilizzare il browser Internet per collegarsi al visualizzatore Web.
4. Passare alla pagina [Configurazione].
5. Passare a [Rete] – [DDNS] e configurare le impostazioni DDNS.
6. Andare a [Basic] – [IP & Porta], e impostare il tipo di IP su [DHCP].
7. Collegare la videocamera rimossa dal PC direttamente al modem.
8. Riavviare la videocamera.

- Per informazioni su come impostare il DDNS fare riferimento alla guida online di Web Viewer.
- Per informazioni su come impostare il formato IP fare riferimento alla guida online di Web Viewer.

COLLEGAMENTO DELLA VIDEOCAMERA DIRETTAMENTE A UN MODEM PPPoE



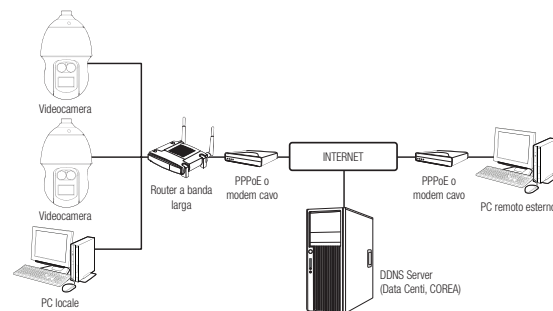
1. Collegare il PC utente direttamente alla rete della telecamera.
2. Eseguire il Device manager e modificare l'indirizzo IP della telecamera in modo da poter utilizzare il browser web sul desktop per connettersi a Internet.
3. Utilizzare il browser Internet per collegarsi al visualizzatore Web.
4. Passare alla pagina **[Configurazione]**.
5. Passare a **[Rete] – [DDNS]** e configurare le impostazioni DDNS.
6. Andare a **[Basic] – [IP & Porta]** Pagina delle impostazioni, impostare il tipo di rete a **[PPPoE]**, e immettere il nome e utente e la password.
7. Collegare la videocamera rimossa dal PC direttamente al modem.
8. Riavviare la videocamera.



- Per informazioni su come impostare il DDNS fare riferimento alla guida online di Web Viewer.
- Per informazioni su come impostare il formato IP fare riferimento alla guida online di Web Viewer.

COLEGARE LA VIDEOCAMERA AD UN ROUTER A BANDA LARGA CON PPPoE/CAVO MODEM

Questo va bene per piccoli ambienti come case e negozi.



Configurare le impostazioni di rete dal PC locale collegato al router a banda larga

Configurare le impostazioni di rete del PC collegato ad un Router a banda larga, seguire le istruzioni sotto.

- Selezionare : **<Network> → <Properties> → <Local Area Connection> → <General> → <Properties> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically>** o **<Use the following IP address>**.
- Seguire le istruzioni sotto se si seleziona **<Use the following IP address>**:
 - Es. 1) Se l'indirizzo (LAN IP) dell'Router a banda larga è 192.168.1.1
 Indirizzo IP : 192.168.1.100
 Maschera Sottorete : 255.255.255.0
 Default Gateway : 192.168.1.1
 - Es. 2) Se l'indirizzo (LAN IP) dell'Router a banda larga è 192.168.0.1
 Indirizzo IP : 192.168.0.100
 Maschera Sottorete : 255.255.255.0
 Default Gateway : 192.168.0.1
 - Es. 3) Se l'indirizzo (LAN IP) dell'Router a banda larga è 192.168.xxx.1
 Indirizzo IP : 192.168.xxx.100
 Maschera Sottorete : 255.255.255.0
 Default Gateway : 192.168.xxx.1



- Per l'indirizzo dell'Router a banda larga, fare riferimento alla documentazione del prodotto.
- Per ulteriori informazioni sul port forwarding del router a banda larga, vedere **"Impostazione dell'inoltro intervallo porte (mappatura delle porte)"**. (Pagina 19)

UTILIZZO DI DEVICE MANAGER

- Il programma Device manager può essere scaricato dal menu <Support> – <Online Tool> sul sito web di Hanwha Vision (<https://www.HanwhaVision.com>).
- È possibile trovare ulteriori istruzioni sul Device manager nel menu <Guida> nella pagina principale.

RICERCA AUTOMATICA DELLA TELECAMERA

Se una telecamera è collegata alla stessa rete del PC in cui è installato Device manager, è possibile trovare la telecamera di rete utilizzando la funzione di ricerca.

- Fare clic su <Ricerca> nella pagina principale di Device manager.
- Selezionare la telecamera dall'elenco.
 - Controllare l'indirizzo MAC sull'adesivo attaccato alla telecamera.

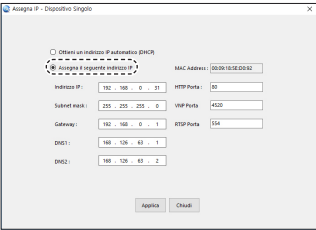
CONFIGURAZIONE DELL'INDIRIZZO IP

Se si desidera modificare le impostazioni di rete della telecamera, il simbolo <Login OK> deve essere visualizzato su <Stato>. Fare clic su <Autenticazione> nella pagina principale per accedere.

Configurazione dell'IP statico

Inserire e configurare manualmente le informazioni relative all'indirizzo IP e alla porta.

- Dall'elenco, fare clic sulla telecamera di cui si desidera modificare l'impostazione IP.
- Fare clic su <IP assegnare> nella pagina principale di Device manager.
- Selezionare <Assegna il seguente indirizzo IP>.
 - Le informazioni IP della telecamera verranno visualizzate come precedentemente impostato.
- Compilare le categorie relative a IP e porta.



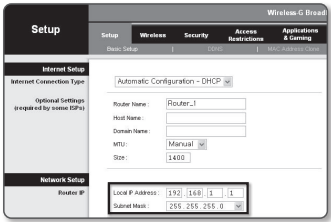
Se non si usa un router a banda larga

Chiedere al gestore di rete il valore impostato di <Indirizzo IP>, <Subnet mask> e <Gateway>.

- HTTP Porta : È utilizzata per accedere alla videocamera utilizzando il browser Internet (impostazione predefinita: 80).
- VNP Porta : È utilizzata per controllare il trasferimento del segnale video (impostazione predefinita: 4520).
- RTSP Porta : Una porta che controlla lo streaming in tempo reale. Il valore iniziale è 554.

Se si utilizza un router a banda larga

- IP Address : Inserire un indirizzo compreso nell'intervallo di IP fornito dal router a banda larga.
Es) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : La <Subnet Mask> del router a banda larga sarà la <Subnet Mask> della videocamera.
- Gateway : Il <Local IP Address> del router a banda larga sarà il <Gateway> della videocamera.



- Le impostazioni possono differire a seconda del modello di router a banda larga collegato. Per ulteriori informazioni, consultare il manuale utente del router.
- Per ulteriori informazioni sul port forwarding del router a banda larga, vedere "Impostazione dell'inoltro intervallo porte (mappatura della porta)". (Pagina 19)

Se al router a banda larga sono collegate più videocamere

Configurare separatamente le impostazioni relative all'IP e le impostazioni relative alla porta.

Es)

Categoria	Videoc #1	Videoc #2
Impostazioni correlate dell'IP	Indirizzo IP Subnet Mask Gateway	192.168.1.100 255.255.255.0 192.168.1.1
Impostazioni correlate della porta	HTTP Porta VNP Porta RTSP Porta	8080 4520 554

- Se per <HTTP Port> è stato impostato un valore diverso da 80, è necessario inserire il numero di <Port> nella barra degli indirizzi del browser Internet prima di poter accedere alla videocamera.
Es) `http://Indirizzo IP : HTTP Port`
`http://192.168.1.100:8080`

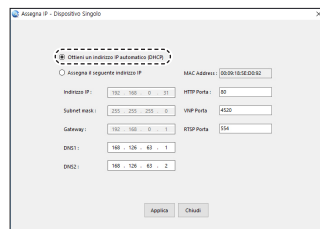
- Fare clic sul pulsante [Applica].
- Se viene visualizzato il messaggio di successo, fare clic su [OK].

Configurazione dell'IP dinamico

Ricevere l'indirizzo IP da DHCP

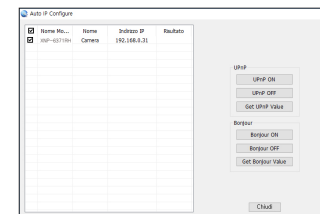
- Esempio di ambiente dell'IP dinamico
 - Se al router a banda larga a cui sono collegate le videocamere è assegnato un indirizzo IP da parte del server DHCP
 - Se si collega la videocamera direttamente al modem usando i protocolli DHCP
 - Se gli IP sono assegnati dal server DHCP interno tramite LAN

1. Dall'elenco, fare clic sulla telecamera di cui si desidera modificare l'impostazione IP.
2. Fare clic su **<IP assegnare>** nella pagina principale di Device manager.
3. Selezionare **<Ottieni un indirizzo IP automatico (DHCP)>**.
4. Fare clic sul pulsante **[Applica]**.
5. Se viene visualizzato il messaggio di successo, fare clic su **[OK]**.



CONFIGURAZIONE AUTOMATICA DELL'IP

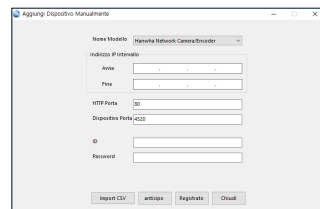
1. Dall'elenco, fare clic sulla telecamera di cui si desidera configurare automaticamente l'IP.
2. Fare clic su **< + >** nella pagina principale di Device manager.
 - Appare il menu Impostazione apparecchiatura.
3. Nel menu, fare clic su **<Auto IP Configure (Configurare IP automatico)>**.
4. Fare clic sul pulsante **[Chiudi]**.



REGISTRAZIONE MANUALE DELLA TELECAMERA

Se non è possibile trovare la telecamera utilizzando la funzione di ricerca, la telecamera può essere registrata a distanza inserendo manualmente le informazioni IP, se la telecamera è collegata a una rete esterna.

1. Fare clic su **<Indirizzo>** – **<Aggiungi Dispositivo Manualmente>** nella pagina principale di Device manager.
2. Inserire l'intervallo di indirizzi IP che si ricerca.
3. Selezionare il **<Nome Modello>** della telecamera registrata e inserire la porta HTTP, la porta VNP, l'ID e la password.
4. Fare clic sul pulsante **[Registrato]**.
5. Controllare che la telecamera sia registrata.
 - Controllare l'indirizzo MAC sull'adesivo attaccato alla telecamera.

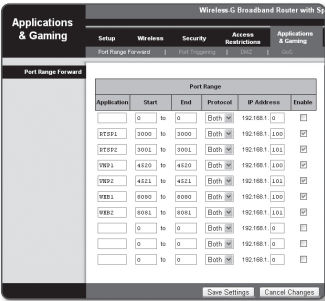


IMPOSTAZIONE DELL'INOLTRO INTERVALLO PORTE (MAPPAT URA DELLA PORTE)

Se è stato installato un router a banda larga a cui è collegata una videocamera, impostare l'inoltro intervallo porte sul router a banda larga in modo che un PC remoto possa accedere alla videocamera in esso.

Inoltro intervallo porte manuale

- 1. Dal menu di configurazione del router a banda larga, selezionare <Applications & Gaming> - <Port Range Forward>.
- 2. Selezionare <TCP> e <UDP Port> per ogni videocamera collegata al router a banda larga. Il numero di ogni porta da configurare al Router IP deve essere impostato in base al numero della porta designata in <Configurazione> - <Basic> - <IP & Porta> nel visualizzatore web della telecamera.
- 3. A operazione ultimata, fare clic su [Save Settings]. Le impostazioni vengono salvate.

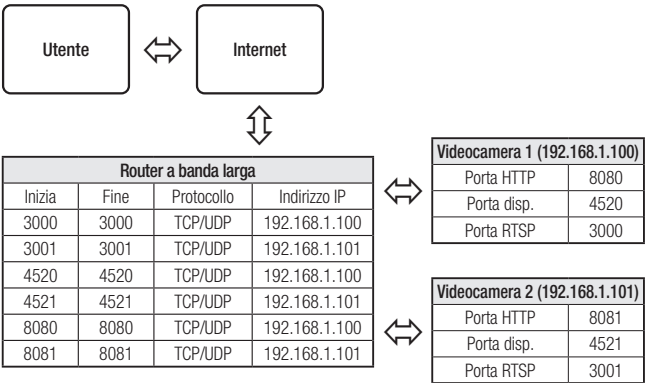


- L'impostazione di inoltro della porta è un esempio di impostazione del router IP CISCO.
- Le impostazioni possono differire a seconda del modello di router a banda larga collegato. Per ulteriori informazioni, consultare il manuale utente del router.

Impostazione del port range forwarding per più videocamere di rete

- È possibile impostare una regola di inoltro della porta sul router a banda larga, dalla relativa pagina Web di configurazione.
- L'utente potrà cambiare ogni porta utilizzando la schermata di configurazione della telecamera.

Quando la videocamera 1 e la videocamera 2 sono collegate a un router :



- L'inoltro della Porta può essere effettuato senza un'ulteriore configurazione del router se questo supporta la funzione UPnP (Universal Plug and Play). Dopo aver collegato la telecamera di rete, selezionare la casella di spunta dal menu <Connessione rapida> in <DDNS> in "Impostazioni -> Rete -> DDNS".

COLLEGAMENTO ALLA VIDEOCAMERA DA UN PC LOCALE CONDIVISO

1. Eseguire Device manager.
Vengono ricercate le videocamere collegate e ne viene visualizzata una lista.
2. Fare doppio clic sulla videocamera a cui accedere.
Il browser Internet viene avviato e si collega alla videocamera.



- È anche possibile accedere alla videocamera digitando l'indirizzo IP della videocamera trovata nella barra degli indirizzi del browser Internet.

COLLEGAMENTO ALLA VIDEOCAMERA DA UN PC REMOTO TRAMITE INTERNET

Su un computer remoto che non si trova nella rete del Router a banda larga, il cluster non è consentito. Gli utenti possono accedere alle telecamere all'interno della rete di un Router a banda larga utilizzando l'URL DDNS della telecamera.

1. Prima di accedere alla videocamera nella rete del router a banda larga, bisogna aver impostato l'intervallo porte per il router a banda larga.
2. Dal PC remoto, avviare il browser Internet e digitare l'indirizzo URL DDNS della videocamera o l'indirizzo IP del router a banda larga nella barra degli indirizzi.
Es) <http://ddns.hanwha-security.com/ID>

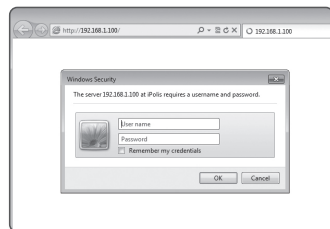


- Per utilizzare il DDNS, iscriversi alla homepage del DDNS (<http://ddns.hanwha-security.com>) e registrare il prodotto su **[Il mio DDNS]>[Registrazione prodotto]**.

COLLEGAMENTO ALLA VIDEOCAMERA

Caso normale

1. Avviare il browser Internet.
2. Digitare l'indirizzo IP della videocamera nella barra degli indirizzi.
Es) • Indirizzo IP (IPv4) : 192.168.1.100 → http://192.168.1.100
- Si apre la finestra di dialogo di accesso.
• Indirizzo IP (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111
→ http://[2001:230:abcd:ffff:0000:0000:ffff:1111]
- Si apre la finestra di dialogo di accesso.



Se la porta HTTP è diversa da 80

1. Avviare il browser Internet.
2. Digitare l'indirizzo IP e il numero di porta HTTP della videocamera nella barra degli indirizzi.
Es) Indirizzo IP : 192.168.1.100:numero porta HTTP(8080)
→ http://192.168.1.100:8080 - Si apre la finestra di dialogo di accesso.

Utilizzo dell'URL

1. Avviare il browser Internet.
2. Digitare l'URL DDNS della videocamera nella barra degli indirizzi.
Es) Indirizzo URL : http://ddns.hanwha-security.com/ID
- Si apre la finestra di dialogo di accesso.



La connessione di rete è disabilitata in un ambiente di connessione di rete che funziona soltanto tramite la LAN.

Connessione tramite UPnP

1. Avviare il sistema operativo oppure il sistema client a supporto del protocollo UPnP.
2. Fare clic sul nome della telecamera per avviare la ricerca.
Nel sistema operativo di Windows, fare clic sul nome della telecamera che appare nei risultati della ricerca nel menu della rete.
- Viene visualizzata la finestra per l'accesso.

Connessione tramite Bonjour

1. Avviare il sistema operativo oppure il sistema client a supporto del protocollo di Bonjour.
2. Fare clic sul nome della telecamera per avviare la ricerca.
Nel sistema operativo di Macintosh, fare clic sul nome della telecamera che appare nei risultati della ricerca nella finestra di Bonjour di Safari.
- Viene visualizzata la finestra per l'accesso.

Per controllare l'indirizzo DDNS

Se la videocamera è collegata direttamente a un modem via cavo DHCP, a un modem DSL o a un modem PPPoE, l'indirizzo IP della rete cambia ogni volta che si tenta di connettersi al server dell'ISP (Internet Service Provider).

In questo caso, l'utente non viene informato che l'indirizzo IP è cambiato dal DDNS.

Una volta registrato un dispositivo con IP dinamico nel server DDNS, è possibile controllare facilmente l'IP cambiato quando si prova ad accedere al dispositivo.

Per registrare il dispositivo sul server <DDNS>, visitare il sito <http://ddns.hanwha-security.com> e, per prima cosa, registrare il dispositivo. Quindi impostare <Rete> - <DDNS> del visualizzatore Web su <DDNS> e inserire il <ID prodotto> precedentemente utilizzato per la registrazione del DDNS.

CONFIGURAZIONE DELLA PASSWORD

Quando si effettua l'accesso al prodotto per la prima volta, è necessario registrare la password di accesso.

Quando appare la finestra per la **"Modifica della password"**, immettere la nuova password.



- Per una nuova password da 8 a 9 cifre, è necessario usare almeno 3 dei seguenti elementi: lettere maiuscole/minuscole, numeri e caratteri speciali. Per una password da 10 a 15 cifre, è necessario utilizzare almeno 2 degli elementi precedentemente elencati.
 - Caratteri speciali permessi: ~!@#\$%^&*()_-=+{}[]?/
- Per ottenere un maggiore livello di sicurezza, non è raccomandabile usare ripetutamente gli stessi caratteri oppure lettere consecutive nella tastiera.
- Se la password è stata smarrita, è possibile premere il pulsante **[RESET]** per ripristinare il prodotto. Di conseguenza, non è consigliabile usare un promemoria per ricordare la propria password o memorizzarla semplicemente.

ACCESSO

Ogni volta che si accede alla telecamera, appare la finestra di login. Inserire l'ID utente e la password per accedere alla telecamera.

1. Inserire **"admin"** nella casella **<User name>**.
L'ID dell'amministratore, **"admin"**, è fisso e non può essere cambiato.
2. Immettere la password nel campo di inserimento per la **<Password>**.
3. Fare clic su **[OK]**.
Se l'accesso è avvenuto correttamente, appare la schermata Live Viewer.



- Quando si esegue l'accesso al visualizzatore del web della telecamera, è consigliabile, per motivi di sicurezza, indicare se i dati dell'immagine sono crittografati o no.



- Se si attiva l'opzione **"Remember my credentials"** dopo aver completato l'inserimento, dalla volta successiva l'accesso avviene automaticamente, senza la richiesta di inserire le informazioni di accesso.
- La qualità video sarà al massimo se la dimensione dello schermo è al 100%. Riducendo il formato si rischia di tagliare l'immagine sui bordi.

SPECIFICHE DI ASSISTENZA PER IL PLUG-IN PER OGNI BROWSER

Il visualizzatore Web include l'attuale visualizzatore Web con plug-in e il nuovo visualizzatore Web senza plug-in. Per questo motivo, il visualizzatore Web è disponibile anche negli ambienti dei browser più recenti, come Chrome, EDGE, Firefox (solo Windows 64 bit), in cui i plug-in non sono supportati. I plug-in sono consigliati nei browser IE e Safari, per i quali è possibile installare plug-in. A seconda dell'ambiente del browser, potrebbero verificarsi le seguenti differenze.

- **Chrome, Firefox (solo Windows a 64 bit), EDGE e Safari** : Anche se l'ambiente del browser non supporta alcun plug-in, il nostro visualizzatore Web senza plug-in consente l'uso del visualizzatore Web.



- Le prestazioni del visualizzatore Web senza plug-in potrebbero essere inferiori a quelle del visualizzatore Web con plug-in, a seconda del codec video e della risoluzione.
 - Se c'è un ritardo nel video live, viene generato automaticamente un profilo senza plug-in (H.264 HD (1280x720) 20 FPS).
 - Per la riproduzione, potrebbe verificarsi un ritardo a seconda del codec e della risoluzione.
- La funzionalità senza plug-in è ottimizzata per il browser Chrome.

- **IE e Safari** : È possibile usare un visualizzatore del web anche senza installare il visualizzatore del web con plug-in esistente.



- Per monitorare/riprodurre ininterrottamente i video salvati, è necessario installare un plug-in.

INSTALLAZIONE DEL PLUGIN DEL WEBVIEWER

Se si accede al visualizzatore Web senza plug-in utilizzando il browser IE e si tenta di utilizzare alcune funzionalità, come richiedere un video live o riprodurre un video registrato, verrà visualizzato un messaggio di installazione. Quando viene visualizzato, è necessario installare il plug-in del visualizzatore Web per poter utilizzare le funzionalità.

1. Quando si accede per la prima volta alla pagina per il monitoraggio, viene visualizzata la pagina per l'installazione. Fare clic su **[Click Here]** per avviare l'installazione.



■ Se lo stato del download del file plug-in di installazione è interrotto a 99% nel browser di Internet Explorer, riprovare più tardi selezionando: "Release SmartScreen filter" in "Tool → SmartScreen filter".

2. Fare clic su **[Run]** nella finestra di avviso.
3. Fare clic su **[Yes]** sulla finestra di notifica che tutte le finestre del browser saranno chiuse.



■ I passaggi 4 e 5 verranno automaticamente saltati se non è installato alcun Plug-in per la visualizzazione del web.

4. Nel caso in cui sia già installata una versione precedente del Plug-in per la visualizzazione del web, una finestra di notifica apparirà comunicando che la versione precedente sarà eliminata. Fare clic su **[Yes]** sulla finestra di notifica che appare.
5. Fare clic su **[OK]**.
La versione più vecchia del Plug-in per la visualizzazione del web viene eliminata.
6. Fare clic su **[Install]** per avviare l'installazione del Plug-in per la visualizzazione del web.
7. Fare clic su **[Finish]**.
L'installazione del Plug-in per la visualizzazione del Web è finalizzata.

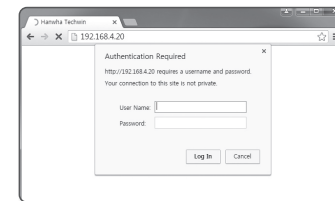


■ Nel proprio browser di Internet Explorer, se dopo aver installato il plugin del visualizzatore del web, è necessario spostarsi alla schermata di installazione, controllare se `webviewer_activexplugin_lib.control` nella sezione "Strumento → Gestione di Funzioni Aggiuntive" è "Attivato". Se non è stato attivato, e se il problema persiste, selezionare "Strumenti → Opzioni Internet → Generali" ed eliminare i dati di navigazione.
Se ancora non funziona, andare su "Strumenti → Opzioni Internet → Sicurezza → Siti attendibili" e registrare l'IP o il dominio della telecamera.

UTILIZZO DI UN VISUALIZZATORE DEL WEB SENZA PLUG-IN

Se si accede alla telecamera tramite Google Chrome, Mozilla Firefox o il browser web MS Edge, non verrà installato nessun plug-in, ma si potrà comunque guardare il video live della telecamera senza l'installazione di alcun plug-in.

1. Immettere il nome utente e la password per effettuare l'accesso.
2. Una volta effettuato l'accesso, apparirà una schermata per la visualizzazione della telecamera live.



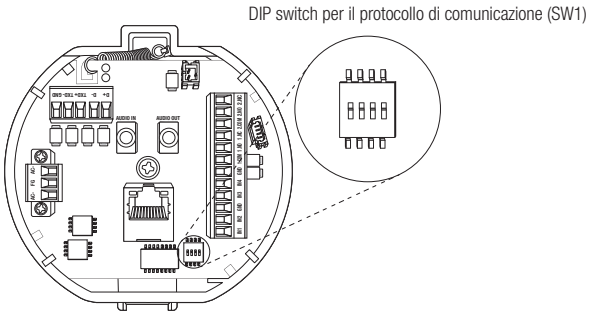
CONFIGURAZIONE DI CAMERA WEB VIEWER

1. Fare clic sull'icona **[Impostazioni (⚙)]**.
2. Verrà visualizzata la finestra delle impostazioni.
3. Dalla rete è possibile gestire le impostazioni relative a: informazioni di base della telecamera, PTZ, video e audio, rete, evento, analisi, sistema e piattaforma aperta.
4. Fare clic su **<Aiuto (?)>** per visualizzare le descrizioni dettagliate di ciascuna funzione.

IMPOSTAZIONE DEI DIP SWITCH

Come impostare i DIP switch dei protocolli e degli ID

- I DIP switch di comunicazione e ID permettono di controllare diverse impostazioni di sistema della videocamera. Prima di installare il prodotto, impostare i DIP switch in base all'ambiente di installazione.
- 1. Impostare gli switch a seconda dell'ambiente di installazione. Per maggiori informazioni sull'impostazione, vedere lo schema alla pagina successiva.
 - 2. Se gli switch non sono completamente impostati su On/Off, la videocamera può presentare malfunzionamenti; ricontrollare gli switch prima di terminare l'impostazione.
 - 3. Fare attenzione che l'interruttore non venga danneggiato mentre si maneggia con un oggetto affilato.
 - 4. Fare attenzione che l'interruttore non venga danneggiato mentre si maneggia con forza eccessiva.



Impostazioni dei DIP switch per il protocollo di comunicazione (SW1)



N. pin SW1	Scopo
1	Riservato
2	Impostazione di terminazione 1
3	Impostazione di terminazione 2
4	Riservato

- **Impostazioni di terminazione**
Per impedire l'attenuazione dei segnali di comunicazione tra la videocamera e il controller, sugli elementi alla fine della linea devono essere configurate le impostazioni di terminazione.

Posizione di ingresso videocamera	SW1-#2	SW1-#3
Terminazione del percorso più lungo	ON	ON
Sul percorso	OFF	OFF

- Il valore predefinito è ombreggiato in ogni tabella di impostazione.
- Per utilizzare un sistema di controllo di terze parti per questo prodotto, contattare il nostro servizio di assistenza post-vendita o il reparto Tecnologie.

CABLAGGIO DELLA TELECAMERA

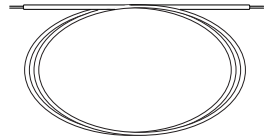
Connessione del segnale di controllo

- Comunicazioni RS-485



Cavo di comunicazione

Per consentire la comunicazione tra la videocamera e il controller, è richiesta una linea di comunicazione RS-485.



- ! ■ Per il collegamento si raccomanda una lunghezza di 30 m o inferiore.
- Il cavo di comunicazione non è incluso nella videocamera.

SPECIFICA

Elementi		Descrizione
Video	Dispositivo di acquisizione immagini	1/2" 2,17M CMOS
	Pixel totali	1952(O) x 1113(V), 2,17M
	Pixel effettivi	1937(O) x 1097(V), 2,12M
	Sistema di scansione	Progressivo
	Illuminazione minima	Colore : 0,01 Lux (1/30sec, F1,5) B/N : 0 Lux (LED a infrarossi acceso)
	Rapporto S / N	50dB
	Uscita video	CVBS : 1,0 Vp-p / 75Ω composita, 720x480(N), 720x576(P), per l'installazione
Obiettivo	Lunghezza focale (rapporto di zoom)	6 ~ 222 mm (Ottico 37X)
	Apertura max diaframma	F1,5 (Wide) ~ F4,6 (Tele)
	Campo di visualizzazione angolare	0 : 59,3°(Wide) ~ 1,9°(Tele) / V : 35,8°(Wide) ~ 1,1°(Tele)
	Distanza minima dagli oggetti	Wide 1,5 m, Tele 2 m
	Controllo messa a fuoco	Auto / Manuale / AF uno scatto
	Obiettivo	Diaframma automatico DC
	Montaggio	Su piastra
Panoramica / Inclinazione / Rotazione	Intervallo di panoramica	360° Continuo
	Velocità di panoramica	Preimpostazione : 400°/sec, Manuale : 0,024°/sec ~ 250°/sec
	Intervallo di inclinazione	190°(-5° ~185°)
	Velocità di inclinazione	Preimpostazione : 300°/sec, Manuale : 0,024°/sec ~ 250°/sec
	Sequenza	Predefinito (300ea), Oscillare, Gruppo(6ea), Traccia, Tour, Avvio automatico, Pianificazione
	Precisione di preimpostazione	±0.2°
	Azimet	Sì (E/W/S/N/NE/NW/SE/SW OSD)
	Monitoraggio automatico	Off / On

Elementi	Descrizione
Caratteristiche operative	Titolo telecamera Off / On (visualizzati fino a 85 caratteri) - W/W : Inglese/Numerico/Caratteri Speciali - Comune : Linea molteplice (Max 5), Colore (Grigio/Verde/Rosso/Blu/Nero/Bianco), Trasparenza, Ridimensiona automaticamente in base alla risoluzione
	Giorno e notte Auto (ICR) / Colore / B/N / Pianificazione
	Compensazione controllo Off / BLC / HLC / WDR
	Gamma dinamica ampia 150dB
	Aumento del contrasto SSDR (Off / On)
	Riduzione digitale del rumore SSNR5 (filtro anti-rumore 2D + 3D) (Off / On)
	Stabilizzazione dell'immagine digitale Off/On (giroscopico incorporato)
	Sbrinamento (Optical) Auto / Manuale / Off
	Rilevazione movimento Off / On (8ea Rettangolo)
	Maschera privacy Off / On (24 zone della zona rettangolare) - Colore: Grigio/Verde/Rosso/blu/Nero/Bianco - Opzione proporzione dello zoom per la modalità di mascheratura - Opzione mosaico
	Controllo guadagno Off / Basso / Medio / Alto
	Bilanciamento bianco ATW / AWC / Manuale / Interno / Esterno (incluso Mercurio e Sodio)
	Velocità otturatore elettronico Minimo / Massimo / Anti sfarfallio (2 ~ 1/12.000sec)
	Zoom digitale 32x
	Rotazione dell'immagine Capovolgì / Specchio : On/Off
	Analisi video e audio Manomissione, vagabondaggio, rilevamento direzionale, linea virtuale, ingresso/uscita, apparizione/scomparsa, rilevamento audio, rilevamento volto, rilevamento del movimento, rilevamento nebbia, classificazione sonora
	Interfaccia di serie RS-485 - Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell
	I/O Allarme 4 ingresso / 2 uscita (Tipo di relè)
	Trigger allarme Ingresso allarme, Rilevamento di movimento, Analisi video e audio, Disconnessione dalla rete

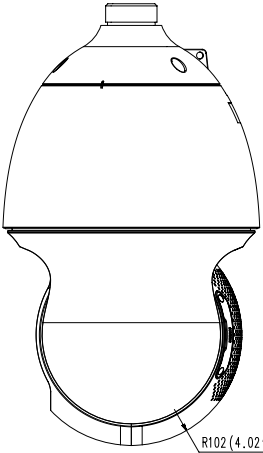
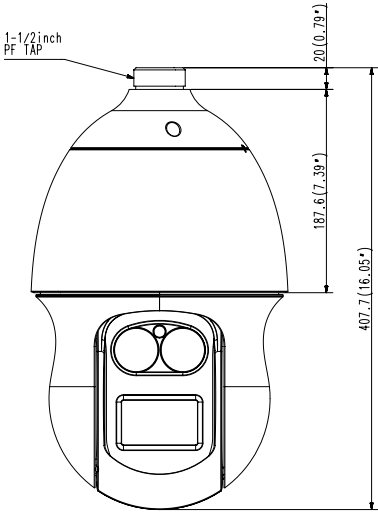
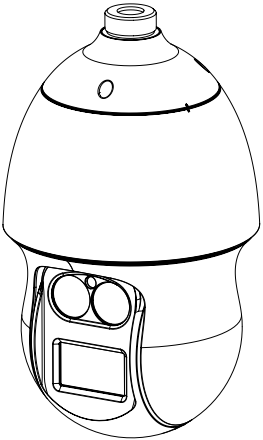
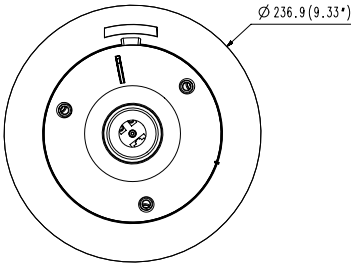
Elementi	Descrizione
Caratteristiche operative	Eventi di allarme <ul style="list-style-type: none"> • Caricamento file via FTP, e-mail • Notifica via E-mail, TCP e HTTP • Stoccaggio locale (SD/SDHC/SDXC) o registrazione NAS al momento dell'evento (Inneschi dell'allarme) • Uscita esterna • Impostazioni predefinite del PTZ
	Audio in entrata Selezionabile (Mic IN/ Linea IN) Tensione di alimentazione : 2,5VDC (4mA), impedenza in entrata : approx. 2K Ohm
	Audio in uscita Linea in uscita (jack mono 3,5 mm), Livello uscita max: 1Vrms
	Conteggio pixel supporto
Rete	Ethernet RJ-45 (10/100BASE-T)
	Formato di compressione video H.264 (MPEG-4 Part 10/AVC), H.265, Motion JPEG
	Risoluzione 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
	Frequenza max fotogrammi H.265/H.264 : Max. 60 fps in tutte le risoluzioni Movimento JPEG : Max. 30 fps in tutte le risoluzioni
	Codec intelligente Modalità manuale (in base all'area: 5EA)
	Regolazione qualità video H.264/H.265/MJPEG : Controllo livello Bitrate
	Metodo di controllo bitrate H.264/H.265 : CBR o VBR, con WiseStream Motion JPEG : VBR
	Capacità di streaming Streaming multiplo (fino a 10 profili)
	Formato di compressione audio G.711 u-law /G.726 selezionabile G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps a 16KHz
	Comunicazione audio Bidirezionale

Elementi	Descrizione
IP	IPv4, IPv6
Protocollo	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Sicurezza	Autenticazione HTTPS(SSL) Autenticazione Digest Filtraggio indirizzo IP Registro accessi utente Metodo di autenticazione 802.1x (EAP-TLS, EAP-LEAP)
Metodo di streaming	Unicast / Multicast
N° max di accessi utente	20 utenti in modo Unicast
Stoccaggio dell'infrastruttura	SD/SDHC/SDXC (fino a 128GB) - Le immagini di movimento registrate nella scheda di memoria SD/SDHC/SDXC possono essere scaricate. - la telecamera può rilevare automaticamente quando la memoria viene collegata - visualizza stato memoria (Pronto/errore/in registrazione/formattazione/blocco) NAS (Network Attached Storage) PC locale per la registrazione immediata (solo visualizzatore con plug-in)
Interfaccia di configurazione dell'applicazione	ONVIF Profile S/G SUNAPI 2.0(HTTP API) WiseNet Open Platform
Pagina web Lingua	Inglese, Francese, Tedesco, Spagnolo, Italiano, Cinese, Coreano, Russo, Giapponese, Svedese, Portoghese, Ceco, Polacco, Turco, Olandese, Ungherese, Greco
Visualizzatore Web	Sistema operativo supportato : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 Visualizzatore del web senza Plug-in Browser supportati: Google Chrome, MS Edge, Mozilla Firefox (solo Windows 64 bit), Apple Safari 10 (solo Mac OS X) Visualizzatore del web con Plug-in Browser supportati: MS Explorer 11, Apple Safari 10 (solo Mac OS X)
Software di gestione centrale	SmartViewer

Elementi	Descrizione
Caratteristiche ambientali	Temperatura / umidità di esercizio -50°C ~ +55°C (-58°F ~ +131°F) / Umidità relativa inferiore al 90%
	Temperatura / umidità di conservazione -50°C ~ +60°C (-58°F ~ +140°F) / Umidità relativa inferiore al 90%
	Ingress Protection IP66
	Resistenza antivandalo IK10
Caratteristiche elettriche	Tensione / corrente di ingresso CA 24 V ±10%
	Consumo 90W(Riscaldamento On, Infrarossi ON), 60W(Riscaldamento Off, Infrarossi ON)
Caratteristiche meccaniche	Colore / Materiale Nero(parte superiore) + Avorio(corpo dell'unità) / Plastica+Metallo
	Dimensioni (Ø x H) Ø236,9 x H407,7 mm
	Peso 7,1kg

PANORAMICA DEL PRODOTTO

Unità: mm (pollici)



RICERCA DEGLI ERRORI

PROBLEMA	SOLUZIONE
Il volume del microfono cambia periodicamente quando si accede al visualizzatore Web tramite Chrome o Firefox su Windows 10.	<ul style="list-style-type: none"> • Ciò accade quando il driver del microfono è impostato su Realtek. È possibile cambiarlo installando il driver del dispositivo audio ad alta definizione (driver predefinito di Windows) o un driver di terze parti.
Non viene visualizzato alcun video quando si accede al visualizzatore del web senza plug-in su Safari via HTTPS.	<ul style="list-style-type: none"> • Sulla finestra a comparsa per l'autenticazione, che appare quando si accede per la prima volta al https, fare clic su "Visualizza certificato di autenticazione" e selezionare la casella di selezione "Autorizza sempre quando ci si collega all'IP del visualizzatore del web designato". • Se anche dopo aver selezionato "Successivo" il visualizzatore del web non riproduce il video, premere il tasto Command + Q per uscire dal Browser di Safari. Poi, eseguire nuovamente l'accesso e ripetere la procedura elencata qui sopra.
Non è possibile accedere alla videocamera da un browser web.	<ul style="list-style-type: none"> • Controllare che le impostazioni di rete della videocamera siano appropriate. • Controllare che i cavi di rete siano stati collegati correttamente. • Se si connette usando DHCP, verificare che la videocamera sia capace di acquisire gli indirizzi IP senza problemi. • Se la videocamera è collegata ad un router a banda larga, verificare che la portadi inoltro sia configurata.
Il visualizzatore si è scollegato durante il monitoraggio.	<ul style="list-style-type: none"> • I visualizzatori collegati si disconnettono dopo il cambiamento alla videocamera o configurazioni di rete. • Controllare i collegamenti di rete. • Se la videocamera è collegata a una rete PPPoE, è possibile per il visualizzatore da scollegare in scarse condizioni di rete.
La telecamera collegata alla rete non viene rilevata nel programma Device manager.	<ul style="list-style-type: none"> • Spegnerle le impostazioni di firewall sul PC e poi cercare ancora la videocamera.
Le immagini si sovrappongono.	<ul style="list-style-type: none"> • Controllare se due o più videocamere siano impostate su un singolo indirizzo multicast invece di diversi indirizzi. Se un singolo indirizzo è usato per videocamere multiple, le immagini possono sovrapporsi.
Nessuna immagine appare.	<ul style="list-style-type: none"> • Se il metodo di trasmissione è impostato a multicast, controllare se c'è un router che supporta multicast nella videocamera LAN collegata.

PROBLEMA	SOLUZIONE
La registrazione audio non funziona anche se è impostato l'Ingresso audio.	<ul style="list-style-type: none"> • Andare su <Base>-<Profilo video> e selezionare la casella <Ingresso audio>.
Dopo aver impostato <Rilevazione del movimento> su <Attiva> in <Analisi, non viene consegnato nessun file tramite e-mail sebbene si sia verificato un evento di analitica video sulla telecamera.	<ul style="list-style-type: none"> • Verificare le impostazioni nella sequenza indicata in basso: A. Verificare le impostazioni di <Data e ora>. B. <Rilevazione del movimento> deve essere impostato su <Attiva>. C. Verificare che l'opzione <E-mail> nel menu <Imp. evento> sia selezionata.
Nessun segnale sulla porta di emissione allarme anche quando viene generato un evento di analisi video intelligente.	<ul style="list-style-type: none"> • Verificare le impostazioni della porta di uscita allarme.
Impossibile registrare sulla scheda di memoria SD.	<ul style="list-style-type: none"> • Verificare che la scheda di memoria non sia difettosa.
La scheda di memoria SD è inserita, ma la videocamera non funziona correttamente.	<ul style="list-style-type: none"> • Verificare che la scheda di memoria sia inserita nella direzione corretta. Il funzionamento delle schede di memoria formattate da altri dispositivi non è garantito su questa videocamera • Riformattare la scheda di memoria nel menu <Configurazione> → <Evento> → <Memorizz.>.
Impossibile eseguire la registrazione nel NAS.	<ul style="list-style-type: none"> • Confermare che l'informazione registrata nel NAS è corretta.
Informa che la configurazione NAS non è andata a buon fine.	<ul style="list-style-type: none"> • Verificare che l'indirizzo IP e NAS siano validi. • Verificare che ID/Password del NAS siano validi. • Verificare di avere accesso alla cartella scelta come cartella base utilizzando l'ID del NAS. • Confermare che gli elementi NAS SMB/CIFS non siano selezionati. • Confermare che l'indirizzo IP del NAS e l'indirizzo IP della telecamera siano nello stesso formato. Es) Il valore iniziale del NAS & della subnet mask della telecamera è uguale a 255.255.255.0. Se l'indirizzo IP è 192.168.20.32 allora l'indirizzo IP del NAS deve trovarsi entro l'intervallo di 192.168.20.1~192.168.20.255. • Verificare se si è provato ad effettuare l'accesso con un nome utente diverso senza formattare la cartella base salvata o in utilizzo. • Verificare di aver utilizzato l'apparecchiatura NAS consigliata.

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ethtool-4.2	GPL 2.0	
mtdd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdd-utils
mi-diag-2.11	GPL 2.0	
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Component Name	License	URL
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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 μ T-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.
14. "System Developer" means any person who develops the Embedded Product by itself or has a third party develop the same, and provides, whether with or without payment, the End User with the Embedded Product.
15. "Distributor of Modification" means any person who produces the Modified Source Code and, whether with or without payment, distributes the same to any third party.

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.

18. "Source Code User" means a person who uses the Source Code.

19. "Distribution" means any of the following acts:

1. to transmit a work to a large number of specific persons through the Internet communication, broadcasting, and the like;
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

1. The copyrights of the Source Code shall be owned by Ken Sakamura.

Article 4. License of Source Code

1. As provided for in this Article, T-Engine Forum shall provide, and grant a license to use, the Source Code free of charge to any person who has taken the necessary procedure for registration as prescribed by T-Engine Forum and agreed to the T-License.
2. The Source Code shall be distributed exclusively by T-Engine Forum. Any person who obtains the Source Code under Article 4.1 above shall not make any re-Distribution of the Source Code.
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 2. to run the Source Code provided by T-Engine Forum hereunder for its own research, development and the like.
 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.
3. Neither T-Engine Forum nor the copyright holder of the Source Code warrants that the Source Code does not infringe any third party's industrial property rights. In no event shall T-Engine Forum and the copyright holder of the Source Code be liable for any dispute which may arise between the Source Code User and a third party in connection with the third party's industrial property rights.

Article 9. Indemnity

1. Neither T-Engine Forum nor the copyright holder of the Source Code shall be liable for any damages (including, but not limited to, damages resulting from loss of profit, business interruption, loss of business information or any other pecuniary damage) arising out of use or impossibility of use of the Source Code, even if T-Engine Forum and the copyright holder have been informed of the possibility of such damages.

Article 10. Breach of Agreement

1. In case that T-Engine Forum considers that this License Agreement is breached or that the popularization of T-Kernel is obstructed, T-Engine Forum shall take measures to correct such breach or such obstruction, take measures on the ground of copyright infringement, or take any other necessary measures against the breaching person or the obstructing person, regardless of whether or not the said person is a member of T-Engine Forum.
2. In case of breach of this License Agreement by a member of T-Engine Forum, T-Engine Forum may take appropriate measures against the member; for example, the member is disqualified from membership, depending on what kind of breach has been committed by it.
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

1. This License Agreement shall be governed by and interpreted under the laws of Japan.
2. This License Agreement is executed in both Japanese text and English text provided that the Japanese text shall govern the interpretation and performance of this License Agreement.

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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

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Ajay Tirumala

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Feng Qin

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Jean-loup Gailly Mark Adler

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



La tutela dell'ambiente è molto importante per Hanwha Vision, che ne tiene conto in ogni fase della fabbricazione dei suoi prodotti ed è alla ricerca costante di nuove soluzioni per fornire al cliente prodotti sempre più rispettosi dell'ambiente.

Il marchio Eco rappresenta la dedizione di Hanwha Vision nel creare prodotti nel rispetto dell'ambiente e indica che il prodotto soddisfa la Direttiva EU RoHS.



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