

TELECAMERA A POSIZIONAMENTO TERMICO

Manuale utente

TNU-4041T

TNU-4051T



TELECAMERA A POSIZIONAMENTO TERMICO

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 deve essere fornito da un'unità alimentata a corrente segnata come "Classe 2" o "LPS" e tarata da 24 V AC (50 o 60 Hz) min.6 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.

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.

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

Rischio di esplosione se la batteria è sostituita con una batteria di tipo non corretto. Smaltire le batterie usate attenendosi alle istruzioni.

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.

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** : 8G o superiore
- **Sistema operativo supportato** : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12
- **Webviewer**
Browser consigliato: Google Chrome 63
Browser supportati: IE11, MS Edge 41, Mozilla Firefox 57 (solo Windows 64 bit), Apple Safari 11 (solo Mac OS X)

SPECIFICHE MICRO SD/SDHC/SDXC SCHEDA DI MEMORIA CONSIGLIATE

- Spazio consigliabile : Da 16GB a 256GB (Tipo MLC)
- Per questa telecamera si raccomandano i seguenti tipi di memory card dei seguenti fabbricanti.
 - Fabbricante : SanDisk, Transcend
 - Famiglia del prodotto : Elevata durata

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.

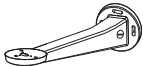


- Se si utilizza un'apparecchiatura NAS per uno scopo diverso dal salvataggio di video, il numero di telecamere in entrata supportato potrebbe variare.

ACCESSORI FORNITI

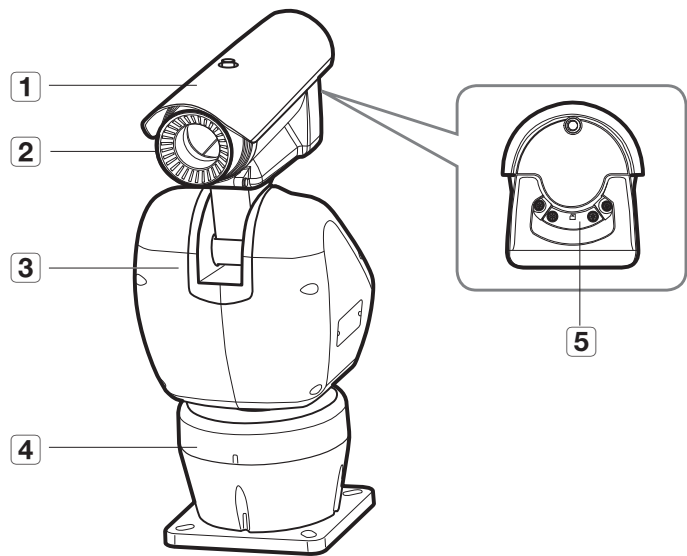
Verificare che nella confezione siano contenuti la videocamera e tutti gli accessori.
(In base al Paese di residenza, gli accessori potrebbero variare.)

Aspetto	Articolo	Quantità	Descrizione
	Unità principale telecamera	1	-
	Guida Rapida (opzionale)	1	-
	Certificato di garanzia (opzionale)	1	-
	Calotta parasole	1	Protegge la videocamera dalla luce diretta del sole.
	Supporto calotta parasole	1	Fissa la calotta parasole alla videocamera.
	Star-Shape wrench	1	Per attaccare il coperchio dello slot di memoria
	Accessorio impermeabile RJ45	1	Usato per l'installazione in luoghi umidi

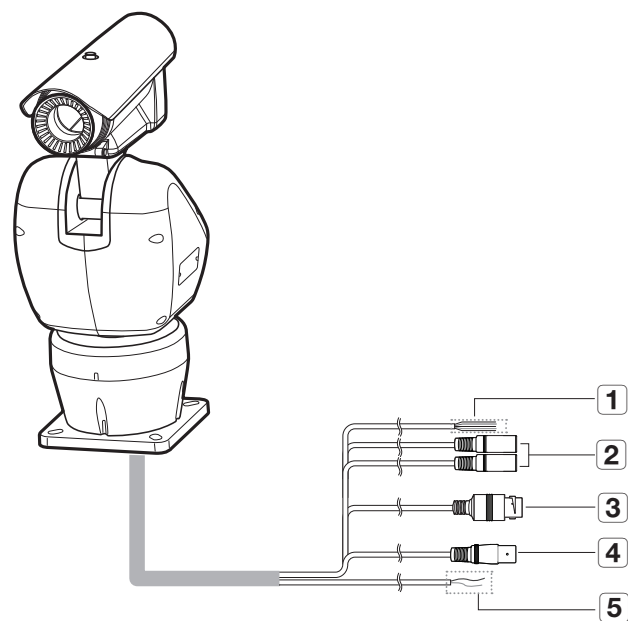
Aspetto	Articolo	Quantità	Descrizione
Staffa per montaggio a parete (non incluse)			
	Staffa per montaggio a parete	1	Usato durante l'installazione della telecamera al muro
	Bulloni a chiave(M5 X 20) / Rondelle piatte	3/3	Per il collegamento del corpo principale e della staffa.
	Bulloni (M3 x 8)	8	Per collegare il coperchio per il cablaggio
	O-ring	1	Per il collegamento del corpo principale e della staffa.

SGUARDO D'INSIEME

Aspetto



Cavi



Voce	
1	Schermo parasole
2	Telecamera
3	Unità principale
4	Alloggiamento principale
5	Porta per la scheda Micro SD

Voce	Descrizione
1	Cavo di allarme Cavo allarme I/O. (Nero/marrone/rosso/giallo/arancione)
2	Cavo dell'audio Cavo audio I/O.
3	Ethernet Collega il cavo Ethernet.
4	Cavo uscita video Per l'uscita video
5	Cavo di alimentazione Cavi per l'alimentazione della telecamera. (Marrone/Blu)

INSTALLAZIONE

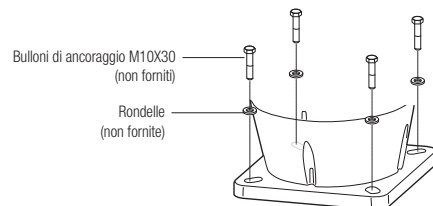
Precauzioni prima dell'installazione

Prima di installare la videocamera, assicurarsi di aver letto le seguenti istruzioni:

- Installare il sistema seguendo le seguenti istruzioni. Se si desidera installarlo seguendo un metodo diverso, si prega di verificare le raccomandazioni in materia di sicurezza inviando anticipatamente una richiesta al produttore.
- Il peso lordo del sistema è di 11,7 kg. È necessario indossare un paio di guanti antiscivolo. Quando si solleva il dispositivo, non afferrare la telecamera ma il corpo.
- Deve essere installato nell'area (soffitto o parete) in grado di sostenere un peso 4 volte superiore a quello della telecamera, incluso il supporto di installazione.
- I cavi bloccati o spelati possono danneggiare il prodotto o provocare incendi.
- Per motivi di sicurezza, allontanare tutte le persone dal luogo di installazione.
E, se necessario, disporre le proprie cose lontano dal sito.

Installare il dispositivo al pavimento

1. Installare il piedistallo al pavimento



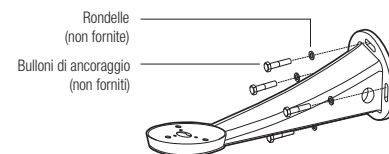
- ! Sugeriamo di usare i bulloni di ancoraggio M10X30 o di installare la telecamera sul cemento.
- Usare viti in grato di reggere un peso 4 volte superiore al peso totale dell'apparecchiatura.

Accessori opzionali per l'installazione

Per un'installazione più semplice, è possibile acquistare i giusti accessori opzionali disponibili.

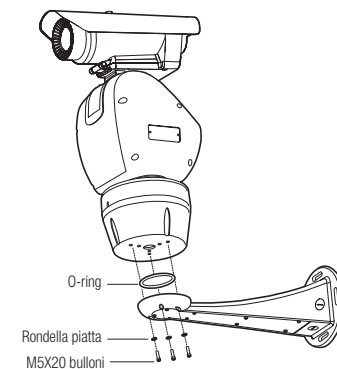
▪ Montaggio a muro usando la staffa

1. Collegare la parte laterale della staffa al muro usando i 4 bulloni di ancoraggio (non forniti).

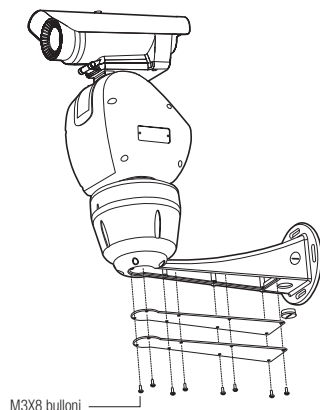


- ! Sugeriamo di usare i bulloni di ancoraggio M10X30 o di installare la telecamera sul cemento.
- Usare viti in grato di reggere un peso 4 volte superiore al peso totale dell'apparecchiatura.

2. Assemblare il corpo principale e la staffa utilizzando 3 viti a testa esagonale.



3. Dopo aver organizzato i cavi come mostrato nell'immagine, assemblare il coperchio.



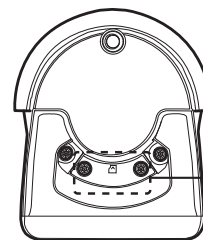
INSERIMENTO/ESTRAZIONE DI UNA SCHEDA DI MEMORIA MICRO SD



- Scollegare il cavo di alimentazione dalla videocamera prima di inserire la scheda di memoria Micro SD.
- Non inserire, forzandola, la scheda di memoria Micro SD se è a rovescio. Altrimenti potrebbe danneggiarsi.
- Quando piove e si ha un alto livello di umidità, non è consigliabile inserire o estrarre una scheda Micro SD.

Staccare il coperchio per l'inserimento della scheda Micro SD

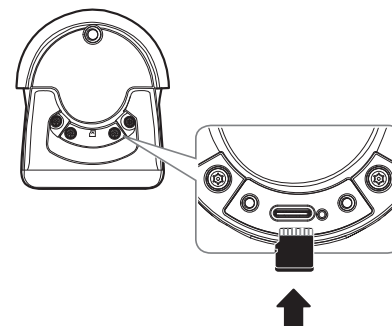
Utilizzare la chiave a stella per rimuovere il coperchio per l'inserimento della scheda Micro SD.



Coperchio per l'inserimento della scheda Micro SD

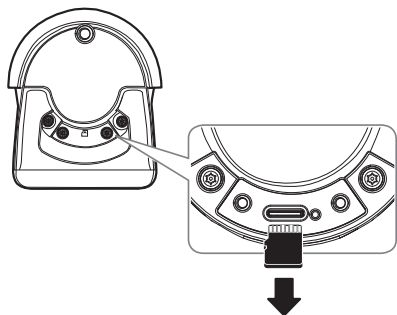
Inserimento di una scheda di memoria Micro SD

Inserire la scheda Micro SD nel verso della freccia raffigurata nell'immagine.



Rimozione di una scheda di memoria Micro SD

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



- Se si esercita una pressione eccessiva sulla scheda di memoria Micro SD, quando la si rilascia questa può saltare fuori dallo slot in modo incontrollato.
- Prima di rimuovere la scheda di memoria micro SD, andare a <Memorizz.>, e impostare il dispositivo su <Off> quindi premere il tasto [Applica] e spegnere la telecamera.
- Se si spegne la telecamera o si rimuove la scheda di memoria Micro SD che contiene i dati del prodotto, i dati potrebbero andare persi o danneggiati.

INFORMAZIONE SCHEDA DI MEMORIA (NON INCLUSO)

Cos'è una scheda di memoria?

La scheda di memoria è un dispositivo di massa esterno che è stato sviluppato per offrire un modo completamente nuovo per registrare e condividere video, audio e testo dati usando dispositivi digitali.

Selezionare una scheda di memoria adatta a voi

La telecamera supporta schede di memoria Micro SD/SDHC/SDXC.

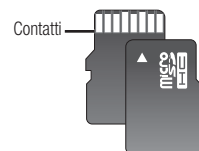
Potreste, comunque, avere problemi di compatibilità secondo il modello e tipi di scheda di memoria.

Per questa telecamera si raccomandano i seguenti tipi di memory card dei seguenti fabbricanti.

- Fabbricante : SanDisk, Transcend
- Famiglia del prodotto : Elevata durata

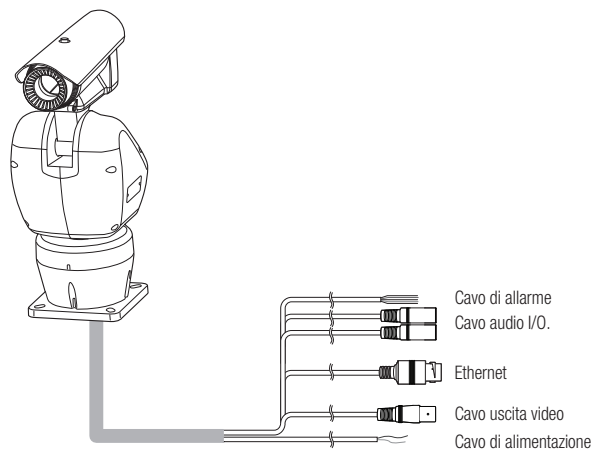
Si suggerisce di usare una scheda di memoria da 16 a 256GB (Tipo MLC) per questa telecamera.

Le prestazioni del Playback possono venire influenzate a seconda della velocità della scheda di memoria.

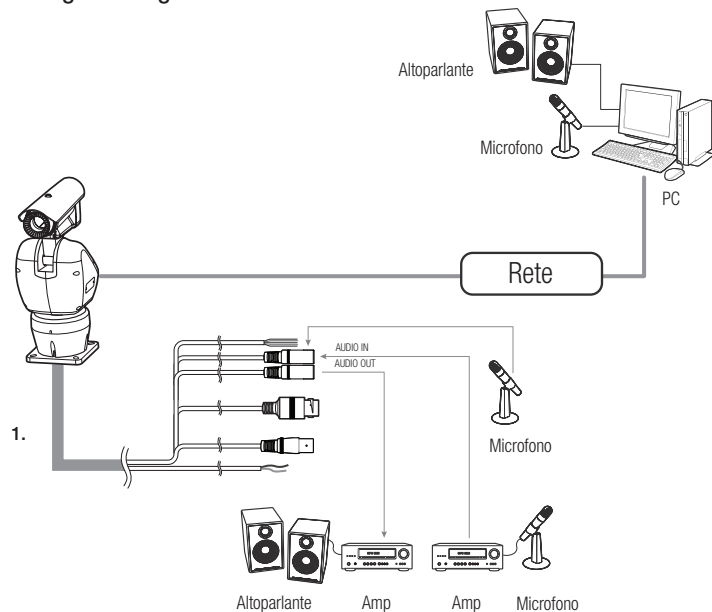


Micro SD/SDHC/SDXC

COLLEGAMENTO CON ALTRI DISPOSITIVI

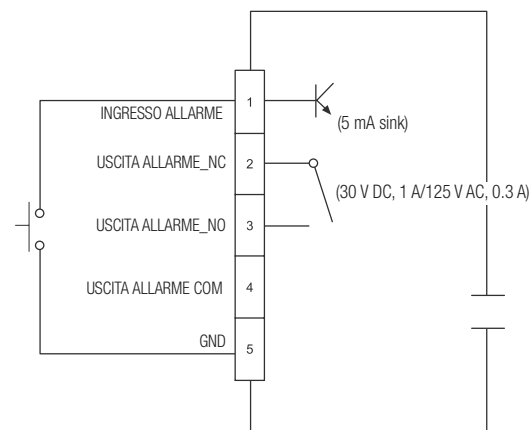


Collegare all'ingresso/uscita audio



1. Collegare la porta AUDIO IN della videocamera con il microfono direttamente sulla porta USCITA dell'amplificatore al quale è collegato il microfono.
2. Collegare la porta AUDIO OUT della fotocamera con la porta LIVEA INGRESSO dell'altoparlante.
3. Controllare le specifiche per l'ingresso audio.
 - **Audio Codec** : G.711 PCM. μ -law 64kbps 8kHz campione
 - **Audio duplex**
 - **Audio in** : Usato per segnale d'ingresso mono (Max.2,4 Vpp)
 - **Audio out** : Usato per segnale d'uscita mono (Max.2,4 Vpp)
 - **Impedenza linea di uscita** : 600 Ω

Schema elettrico I/O allarme



Come collegare i cavi esterni

Collegare i cavi esterni facendo riferimento alla tabella sottostante.

- ! ■ Collegare uno a uno i cavi di ingresso/uscita allarme per ciascun terminale.

Stampa etichetta	COLORE	Descrizione	Commenti
ALLARME_IN ENTRATA	Nero	Terminale per collegare il segnale di allarme esterno in entrata	
GND	Marrone	Terminale comune (GND) per collegare il segnale di allarme esterno in entrata	
USCITA ALLARME NO	Rosso	Terminale (NO) per collegare il segnale Relè in uscita	
USCITA ALLARME COM	Giallo	Terminale (GND) per collegare il segnale Relè in uscita	
USCITA ALLARME NC	Arancione	Terminale (NC) per collegare il segnale Relè in uscita	

Collegamento Ethernet

Collegare il cavo Ethernet alla rete locale o a Internet.

Alimentazione

Collegare la linea dell'adattatore di corrente al terminale di alimentazione in entrata della telecamera.

Unità	COLORE
Alimentazione principale	MARRONE
	BLU

- ! ■ Assicurarsi di collegare l'alimentazione AC 24 V (non polare) mentre l'alimentazione è spenta.

Caratteristiche tecniche del cavo di rete

Unità	Contenuti	Osservazione
Connettore	RJ45	
Ethernet	10/100Base-T	10/100 Mbps
Cavo	Categoria UTP 5e	
Distanza massima	100M	

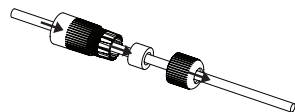
Specifiche cavo d'alimentazione

In caso di alimentazione 24 V CA:

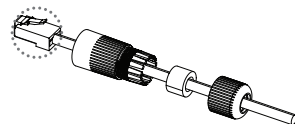
Tipo di cavo (AWG)	#16	#14
Lunghezza del cavo (Max.)	15 m	24 m

Come collegare il cavo impermeabile RJ45 al cavo della LAN

1. Inserirlo nella direzione della freccia.

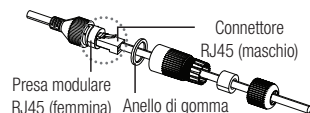


2. Collegare il connettore della LAN (maschio) al cavo.

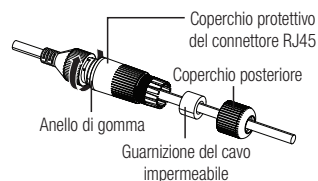


3. Collegare la presa modulare RJ45 (femmina) al connettore RJ45 (maschio).

- ! ■ Mantenere separati i componenti.

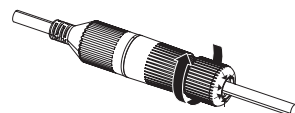


4. Eseguire l'installazione facendo ruotare la presa modulare RJ45 (femmina) e il coperchio di protezione RJ45 in senso orario (seguire la direzione della freccia).



5. Mettere insieme le parti facendo ruotare il coperchio protettivo RJ45 e il coperchio posteriore in senso orario (Seguire la direzione della freccia). Una volta montato il coperchio posteriore, la guarnizione del cavo impermeabile è fissata saldamente al cavo per renderlo impermeabile.

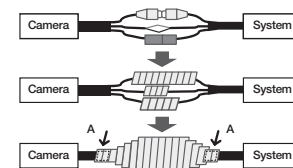
- ! ■ È necessario completare l'assemblaggio per ruotare il coperchio posteriore fino alla fine della filettatura della vite del connettore RJ45.



Installazione all'esterno

Quando si installa il prodotto all'esterno dell'edificio, impermeabilizzarlo con nastro impermeabilizzante in gomma butilica (acquistabile nei negozi), in modo da evitare perdite d'acqua dallo spazio del cavo collegato all'esterno.

1. Collegare i cavi di alimentazione, I/O, AUDIO e LAN.
2. Avvolgere la guaina del cavo nero (Area A) e l'area di collegamento del cavo con nastro impermeabilizzante (in gomma butilica), in modo da sovrapporre più di metà del nastro in gomma butilica.



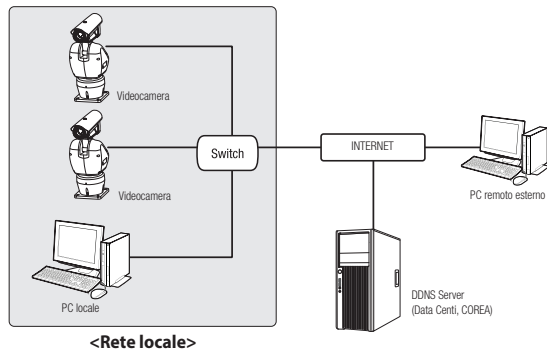
- ! ■ Se la guaina del cavo non è impermeabilizzata correttamente, può causare direttamente perdite. Accertarsi di proteggere il cavo con uno strato spesso di nastro.
- Il nastro butilico impermeabilizzante è in gomma butilica ed è in grado di allungarsi al doppio della lunghezza normale.
- Non è necessario avvolgere il nastro di gomma butilica separatamente poiché il cavo del connettore LAN è impermeabile.

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

COLEGARE LA VIDEOCAMERA DIRETTAMENTE ALL'AREA LOCALE DELLA RETE

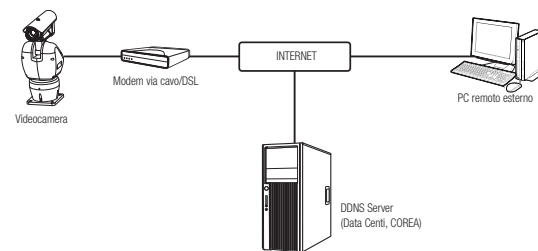
Collegare la videocamera da un PC locale nella LAN

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)

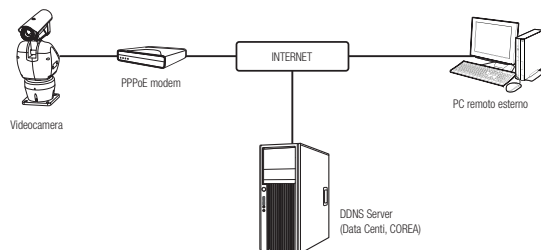
COLLEGAMENTO DELLA VIDEOCAMERA DIRETTAMENTE AD UN MODEM VIA CAVO/DSL DHCP



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 [Setup].
5. Passare a [Network] – [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

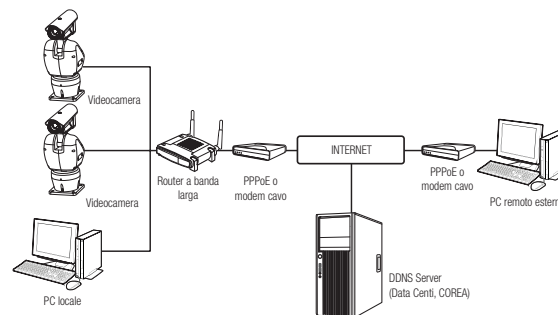


1. Collegare il PC utente direttamente alla rete della telecamera.
2. Eseguire il Device manager e modificare l'indirizzo IP della telecamera in modo da poter utilizzare il browser web sul desktop per connettersi a Internet.
3. Utilizzare il browser Internet per collegarsi al visualizzatore Web.
4. Passare alla pagina **[Setup]**.
5. Passare a **[Network] – [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 della 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.

1. Fare clic su <Ricerca> nella pagina principale di Device manager.
2. 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.

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 <Assegna il seguente indirizzo IP>.
 - Le informazioni IP della telecamera verranno visualizzate come precedentemente impostato.
4. 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		Video #1	Video #2
Impostazioni correlate dell'IP	Indirizzo IP	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
Impostazioni correlate della porta	HTTP Porta	8080	8081
	VNP Porta	4520	4521
	RTSP Porta	554	555



- 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>

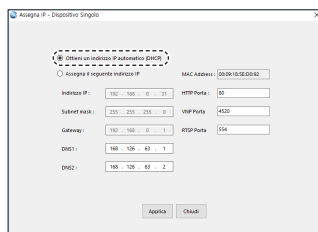
5. Fare clic sul pulsante [Applica].
6. Se viene visualizzato il messaggio di successo, fare clic su [OK].

Configurazione dell'IP dinamico

Ricevere l'indirizzo IP da DHCP

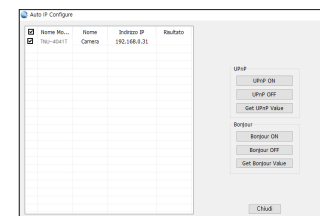
- Esempio di ambiente dell'IP dinamico
 - Se al router a banda larga a cui sono collegate le videocamere è assegnato un indirizzo IP da parte del server DHCP
 - Se si collega la videocamera direttamente al modem usando i protocolli DHCP
 - Se gli IP sono assegnati dal server DHCP interno tramite LAN

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

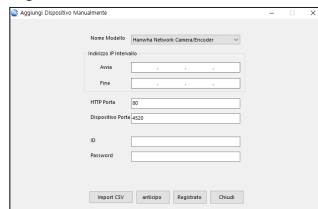
1. Dall'elenco, fare clic sulla telecamera di cui si desidera configurare automaticamente l'IP.
2. Fare clic su **< + >** nella pagina principale di Device manager.
 - Appare il menu Impostazione apparecchiatura.
3. Nel menu, fare clic su **<Auto IP Configure (Configurare IP automatico)>**.
4. Fare clic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

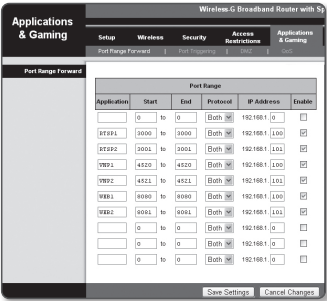


IMPOSTAZIONE DELL'INOLTRO INTERVALLO PORTE (MAPPAT URA DELLA PORTE)

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>.
- Per impostare l'inoltro intervallo porte per un router a banda larga di terzi, consultare il Manuale utente del router a banda larga in questione.
- 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.

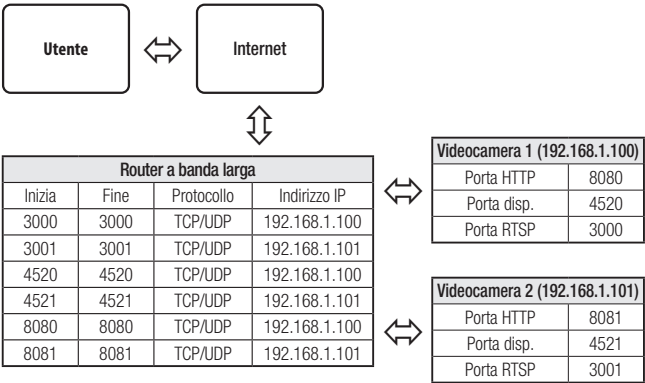


- L'impostazione di inoltro della porta è un esempio di impostazione del router IP CISCO.
- Le impostazioni possono differire a seconda del modello di router a banda larga collegato.
- Per ulteriori informazioni, consultare il manuale utente del router.

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>

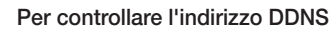


- Per utilizzare il DDNS, iscriversi alla homepage del DDNS (<http://ddns.hanwha-security.com>) e registrare il prodotto su **[Il mio DDNS]>[Registrazione prodotto]**.

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.



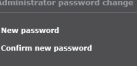
In questo caso, l'utente non viene informato che l'indirizzo IP è cambiato dal DDNS.

Per registrare il dispositivo sul server <DDNS>, visitare il sito <https://ddns.hanwha-security.com> e, per prima cosa, registrare il dispositivo. Quindi impostare <Network> - <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.

- 
- The screenshot shows a 'Administrator password change' dialog box. It has two input fields: 'New password' and 'Confirm new password'. Both fields are currently empty and have a grey background. Below the fields, there are four lines of instructional text in a smaller font.
- Administrator password change**
- New password**
- Confirm new password**
- If the password is 8 to 9 letters long, then it should be a combination of at least three types upper/lower case alphabets, numbers and special characters.
 - If the password is 10 to 15 letters long, then it should be a combination of at least two types upper/lower case alphabets, numbers and special characters.
 - User name should be different from password.
 - The following special characters are available for use. ~ ! @ # % ^ & * - + = | \ ; ' , < > () { } [] ~
 - Don't use 4 or more characters consecutive together. (examples : 1234, abcde)
 - Don't use 4 or more characters repeated. (examples : 111, 1111, aaaa)

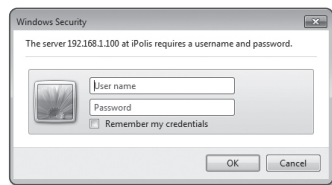
- Per una nuova password da 8 a 9 cifre, è necessario usare almeno 3 dei seguenti elementi: lettere maiuscole/minuscole, numeri e caratteri speciali. Per una password da 10 a 15 cifre, è necessario utilizzare almeno 2 degli elementi precedentemente elencati.
 - Caratteri speciali permessi: ~!@#%\$^&*()_+=|0[];:?,./
- 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.

Italiano _21

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 esistente con il plug-in e il visualizzatore del web senza plug-in sono integrati. Ciò consente di utilizzare il visualizzatore web in ambienti browser più nuovi che non supportano plug-in, come Chrome, EDGE e Firefox (Windows 64-bit solo). Per browser che consentono l'installazione di plug-in, come IE e Safari, si raccomanda l'installazione del plug-in.

In base al browser in uso, si potrebbero notare le seguenti differenze.

- **Browser Chrome, FireFox(Windows 64-bit solo), EDGE** : Anche se non supportano plug-in, è possibile utilizzare un visualizzatore del web in quanto è integrato un visualizzatore del web senza plug-in.
- Dal momento che il visualizzatore del web senza plug-in ha prestazioni inferiori al visualizzatore del web con plug-in presenta un limite nel monitoraggio di profili di alta qualità e playback dei video salvati.
Per monitorare profili di alta qualità e riprodurre i video salvati, usare un visualizzatore del web con abilitazione al plug-in o SmartViewer.
 - Condizioni di creazione del visualizzatore web senza plugin: Il profilo selezionato supera MJPEG Full HD 10fps H.264 (Chrome : risoluzione schermo intero supportata / Edge, Firefox, Safari : Full HD 30 fps o superiore) H.265 FullHD 10fps 2Mbps o superiore
 - Condizioni Riproduzione senza plugin: MJPEG/H.264 risoluzione schermo completo, H.265 HD o inferiore
- La funzione gratuita plug-in è stata ottimizzata per il browser Chrome.
- Supporta lo Streaming Adattivo
 - Si tratta di una funzione che abbassa automaticamente il profilo se è presente un ritardo superiore ai 5 secondi. Ciò è stato realizzato per prevenire problematiche come un aumento della latenza e nessuna risposta dal browser durante la riproduzione del video su un sistema inferiore alle specifiche hardware inferiori rispetto a quelle raccomandate.
Il profilo video è ridotto nella seguente sequenza: 1920X1080(20fps) -> 1280X720(20fps) -> 640X480(20fps).
- **Browser IE, 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

Per accedere al visualizzatore del web con plug-in e riprodurre un video live (H.264/H.265) o un video registrato, si aprirà un messaggio di installazione. A questo punto sarà necessario installare il plug-in del visualizzatore del web per usare correttamente questa funzione.

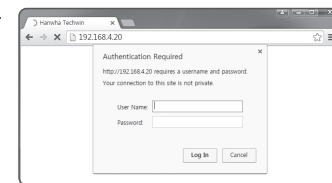
1. Quando si accede per la prima volta alla pagina per il monitoraggio, viene visualizzata la pagina per l'installazione. Fare clic su **[Download plugin]** per avviare l'installazione.
- Se lo stato del download del file plug-in di installazione è interrotto a 99% nel browser di Internet Explorer, riprovare 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_activeplugin_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 il problema persiste, registrare l'IP o il Dominio della telecamera in "Strumenti → Opzioni Internet → Sicurezza → Siti di Fiducia".

UTILIZZO DI UN VISUALIZZATORE DEL WEB SENZA PLUG-IN

Sebbene non sia possibile installare plug-in separatamente, se si accede alla telecamera da Google Chrome, Mozilla Firefox o dal browser web MS Edge, è possibile visualizzare e controllare la telecamera senza installare i 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.



Impostare la telecamera

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.

RICERCA DEGLI ERRORI

PROBLEMA	SOLUZIONE
Quando un utente di Windows 10 accede al visualizzatore del web tramite Chrome o Firefox, il volume del suono del microfono cambia periodicamente.	Questo si verifica quando il driver del microfono è stato impostato su Realtek. Installare il dispositivo di Audio ad Alta definizione (Driver predefinito di Windows) oppure un driver di terze parti come driver per il microfono.
Non viene visualizzato alcun video quando si accede al visualizzatore del web senza plug-in su Safari via HTTPS.	- 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 controllare il sistema.	- Verificare l'alimentazione. Verificare che il sistema sia acceso. - Verificare se il cavo di comunicazione sia collegato.
Non è possibile accedere alla videocamera da un browser web.	- 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.	- 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.
Non possono collegare il sistema usando un browser di Internet Explorer 7.0.	Quando si esegue una connessione con una nuova finestra o una nuova scheda, potrebbe essere generato un errore poiché i dati dei cookie sono condivisi. Non utilizzare una nuova finestra o una nuova scheda, ma selezionare "File → Nuova sessione".
La telecamera collegata alla rete non viene rilevata nel programma Device manager.	Spegnere le impostazioni di firewall sul PC e poi cercare ancora la videocamera.
Le immagini si sovrappongono.	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.

PROBLEMA	SOLUZIONE
La voce non viene registrata anche se le impostazioni di ingresso audio sono state configurate.	È necessario abilitare la casella di selezione <Ingresso Audio> nella sezione <Basic> - <Profilo video>.
Nessuna immagine appare.	Se il metodo di trasmissione è impostato a multicast, controllare se c'è un router che supporta multicast nella videocamera LAN collegata.
<MD / VA> in <Event> è impostato su <Attiva>, ma non ricevo notifiche e-mail neanche quando si verifica un evento di analisi.	- Verificare le impostazioni nella sequenza indicata in basso: A. Verificare le impostazioni di <Data e ora>. B. <MD / VA> 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.	Verificare le impostazioni della porta di uscita allarme.
Impossibile registrare sulla scheda di memoria Micro SD.	Verificare che la scheda di memoria non sia difettosa.
La scheda di memoria Micro SD è inserita, ma la videocamera non funziona correttamente.	- 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 <Setup> → <Event> → <Registra>.
Impossibile eseguire la registrazione nel NAS.	Confermare che l'informazione registrata nel NAS è corretta.
Informa che la configurazione NAS non è andata a buon fine.	- 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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GPL SW

Component Name	License	URL
Base Kernel	GPL 3.0	
Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-3.1.0	GPL 2.0	
alsa-utils-1.0.24.2	GPL 2.0	
alsa-lib-1.0.24.1	GPL 2.0	
iptables-1.4.12.2	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-3.2	GPL 2.0	
mt-d-1.4.1	GPL 2.0	ftp://ftp.infradead.org/pub/mt-d-utils
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.10	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-0.7.3	GPL 2.0	
bash-4.2	GPL 3.0	
zeroconf	GPL 2.0	

LGPL SW

Component Name	License	URL
glibc	LGPL 2.0	
inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0 (The Manual and test suite are GPL)	http://www.webdav.org/neon/

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- Version 1.1

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

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revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

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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.

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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.

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

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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.



Corretto smaltimento del prodotto (rifiuti elettrici ed elettronici)

(Applicabile nell'Unione Europea e in altri paesi europei con sistema di raccolta differenziata)

Il marchio riportato sul prodotto, sugli accessori o sulla documentazione indica che il prodotto e i relativi accessori elettronici (quali caricabatterie, cuffia e cavo USB) non devono essere smaltiti con altri rifiuti domestici al termine del ciclo di vita. Per evitare eventuali danni all'ambiente o alla salute causati dall'inopportuno smaltimento dei rifiuti, si invita l'utente a separare il prodotto e i suddetti accessori da altri tipi di rifiuti e a riciclarli in maniera responsabile per favorire il riutilizzo sostenibile delle risorse materiali.

Gli utenti domestici sono invitati a contattare il rivenditore presso il quale è stato acquistato il prodotto o l'ufficio locale preposto per tutte le informazioni relative alla raccolta differenziata e al riciclaggio per questo tipo di materiali.

Gli utenti aziendali sono invitati a contattare il proprio fornitore e verificare i termini e le condizioni del contratto di acquisto. Questo prodotto e i relativi accessori elettronici non devono essere smaltiti unitamente ad altri rifiuti commerciali.



Corretto smaltimento delle batterie del prodotto

(Applicabile nei paesi dell'Unione Europea e in altri paesi europei con sistemi di conferimento differenziato delle batterie.)

Il marchio riportato sulla batteria o sulla sua documentazione o confezione indica che le batterie di questo prodotto non devono essere smaltite con altri rifiuti domestici al termine del ciclo di vita. Dove raffigurati, i simboli chimici Hg, Cd o Pb indicano che la batteria contiene mercurio, cadmio o piombo in quantità superiori ai livelli di riferimento della direttiva UE 2006/66. Se le batterie non vengono smaltite correttamente, queste sostanze possono causare danni alla salute umana o all'ambiente. Per proteggere le risorse naturali e favorire il riutilizzo dei materiali, separare le batterie dagli altri tipi di rifiuti e riciclarle utilizzando il sistema di conferimento gratuito previsto nella propria area di residenza.

