

WISeNeT

TELECAMERA CON RETE TERMICA

Manuale utente

TNO-4030T/TNO-4040T/TNO-4041T
TNO-4050T/TNO-4051T
TNO-4030TR/TNO-4040TR/TNO-4041TR



TELECAMERA CON RETE TERMICA

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 Vac (50/60 Hz) min.0.91 A o 12 Vdc, min.0.83 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 UMITÀ. 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.

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.

INTRODUZIONE

3

- 3 Istruzioni di sicurezza importanti
- 6 Specifiche PC Consigliate
- 6 Specifiche raccomandate per la scheda di memoria Micro SD/SDHC/SDXC
- 6 Specifiche NAS consigliabili
- 7 Accessori forniti (TNO-4030T/4040T/4050T/4030TR/4040TR)
- 8 Accessori forniti (TNO-4041T/4051T/4041TR)
- 9 Sguardo d'insieme (TNO-4030T/4040T/4050T/4030TR/4040TR)
- 9 Sguardo d'insieme (TNO-4041T/4051T/4041TR)

INSTALLAZIONE E COLLEGAMENTO

10

- 10 Installazione (TNO-4030T/4040T/4050T/4030TR/4040TR)
- 11 Installazione (TNO-4041T/4051T/4041TR)
- 13 Inserimento/Estrazione di una scheda di memoria Micro SD
- 14 Informazione scheda di memoria (non incluso)
- 14 Collegamento con altri dispositivi

COLLEGAMENTO RETE E IMPOSTAZIONE

18

- 18 Collegare la Videocamera Direttamente All'area Locale Della Rete
- 18 Collegamento della Videocamera Direttamente ad un Modem via Cavo/DSL DHCP
- 19 Collegamento della Videocamera Direttamente a un Modem PPPoE
- 19 Collegare la Videocamera ad un router a banda larga con PPPoE/Cavo Modem
- 20 Tasti utilizzati in IP Installer
- 20 Impostazione dell'IP statico
- 22 Configurazione IP Dinamico
- 22 Impostazione dell'inoltro interva llo porte (mappat ura della porte)
- 23 Collegamento alla videocamera da un PC locale condiviso
- 23 Collegamento alla videocamera da un PC remoto tramite Internet

VISUALIZZATORE WEB

24

- 24 Collegamento alla videocamera
- 24 Configurazione della password
- 24 Accesso
- 24 Configurazione di Camera Web Viewer

APPENDICE

25

- 25 Specifica
- 29 Panoramica del Prodotto
- 30 Ricerca Degli Errori
- 31 Open Source Announcement

SPECIFICHE PC CONSIGLIATE

- CPU : I intel(R) Core(TM) i7 3.4 GHz o superiore
- RAM : 8G o superiore
- Sistema operativo supportato : MS Windows, Mac OS X
- Browser consigliato: Google Chrome
Browser supportati: MS Explorer, MS Edge, Mozilla Firefox (solo Window 64bit), Apple Safari (solo Mac OSX)

※ Fare riferimento all'appendice per informazioni dettagliate sulla versione del SO e browser verificato.

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

- 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.

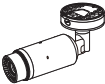
Prodotti raccomandati	Dimensioni disponibili
QNAP NAS	Supporta fino ad un massimo di 16 telecamere in entrata simultaneamente.
Sinologia NAS	Supporta fino ad un massimo di 16 telecamere in entrata simultaneamente.



- 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 (TNO-4030T/4040T/4050T/4030TR/4040TR)

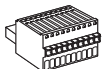
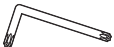
Verificare che nella confezione siano contenuti la videocamera e tutti gli accessori.
(In base al Paese di residenza, gli accessori potrebbero variare.)

Aspetto	Articolo	Quantità	Descrizione
	Videocamera	1	
	Manuale di istruzioni, CD del software Installer	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
	Sagoma	1	Guida all'installazione del prodotto
	Accensione morsetti	1	Spina di alimentazione connessa
	Morsetti audio/allarme	1	Inserita nella spina audio / allarme
	Cavo di alimentazione	1	Utilizzato per collegare l'entrata della corrente

Aspetto	Articolo	Quantità	Descrizione
	Chiave a L	1	Utilizzato per controllare la direzione della telecamera
	Cavo Audio/allarme	1	Utilizzato per collegare le entrate audio e per l'allarme
	Vite autofilettante	4	Per montaggio a parete o a soffitto
	Calotta parasole	1	Protegge la videocamera dalla luce diretta del sole.
	Supporto calotta parasole	1	Fissa la calotta parasole alla videocamera.
	BASE WALL MOUNT	1	L'adattatore deve essere regolato in modo da poter appendere la telecamera alla parete.
	Fermacavo	1	Utilizzato per collegare il cavo della LAN con un diametro pari a Ø7~8.5.

ACCESSORI FORNITI (TNO-4041T/4051T/4041TR)

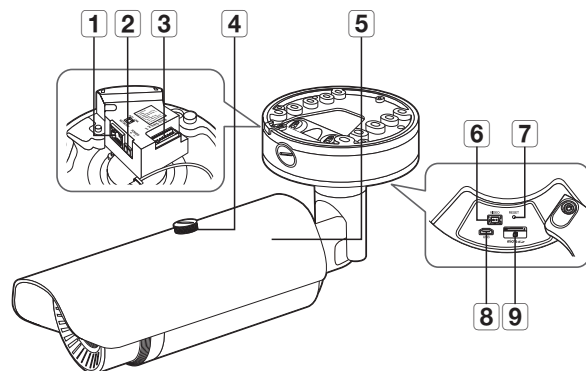
Verificare che nella confezione siano contenuti la videocamera e tutti gli accessori.
(In base al Paese di residenza, gli accessori potrebbero variare.)

Aspetto	Articolo	Quantità	Descrizione
	Videocamera	1	
	Manuale di istruzioni, CD del software Installer	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
	Accensione morsetteria	1	Spina di alimentazione connessa
	Morsetteria audio/allarme	1	Inserita nella spina audio / allarme
	Cavo di alimentazione	1	Utilizzato per collegare l'entrata della corrente
	Chiave a stella	1	Utilizzata per fissare la staffa PT al corpo principale

Aspetto	Articolo	Quantità	Descrizione
	Cavo Audio/allarme	1	Utilizzato per collegare le entrate audio e per l'allarme
	Calotta parasole	1	Protegge la videocamera dalla luce diretta del sole.
	Supporto calotta parasole	1	Fissa la calotta parasole alla videocamera.
	Fermo impermeabile	1	Utilizzato per bloccare un foro dal quale il cavo non esce
	Adattatore impermeabile	1	Portata cavo: Ø2mm(minimo) ~ Ø6mm(massimo) Utilizzato per connettere i cavi (Es.: Cavo di alimentazione) ※ I passacavi in dotazione della telecamera saranno applicabili a un cavo di Ø4,5mm(minimo) ~ Ø10mm(massimo)

SGUARDO D'INSIEME (TNO-4030T/4040T/4050T/4030TR/4040TR)

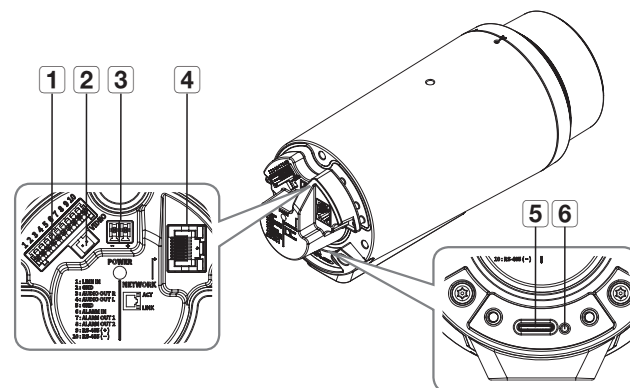
Aspetto & Componenti



Voce	Descrizione
1 Porta Rete	Per collegare il cavo PoE o Ethernet per il collegamento alla rete.
2 Porta di alimentazione	Utilizzata per collegare il cavo di alimentazione.
3 Ingresso per il cavo dell'audio e di allarme	Porta per collegare cavi audio e allarme.
4 Supporto calotta parasole	Fissa la calotta parasole alla videocamera.
5 Calotta parasole	Protegge la videocamera dalla luce diretta del sole.
6 Uscita del monitor di test	Porta di uscita per il monitoraggio di test dell'uscita video. Utilizzare il cavo di collegamento al monitor di test per collegarsi a un monitor portatile e controllare il video.
7 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 non esiste un server DHCP nella rete, eseguire il programma IP Installer per cambiare le impostazioni di rete di base come l'indirizzo IP, la subnet mask, il gateway, ecc., prima di collegarsi alla rete.
8 Porta MICRO USB	Porta per connettere il dongle Wi-Fi. Il video di installazione può essere verificato attraverso le applicazioni installate nello smartphone. Fare riferimento alla "Connessione al dongle WiFi" a pagina 15. ■ Il dongle WiFi e l'adattatore OTG sono venduti separatamente.
9 Porta per la scheda Micro SD	Porta dalla quale è possibile inserire una scheda Micro SD.

SGUARDO D'INSIEME (TNO-4041T/4051T/4041TR)

Aspetto & Componenti



Voce	Descrizione
1 Ingresso per il cavo dell'audio e di allarme	Porta per collegare cavi audio e allarme.
2 Uscita del monitor di test	Porta di uscita per il monitoraggio di test dell'uscita video. Utilizzare il cavo di collegamento al monitor di test per collegarsi a un monitor portatile e controllare il video.
3 Porta di alimentazione	Utilizzata per collegare il cavo di alimentazione.
4 Porta Rete	Per collegare il cavo PoE o Ethernet per il collegamento alla rete.
5 Porta per la scheda Micro SD	Porta dalla quale è possibile inserire una scheda Micro SD.
6 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 non esiste un server DHCP nella rete, eseguire il programma IP Installer per cambiare le impostazioni di rete di base come l'indirizzo IP, la subnet mask, il gateway, ecc., prima di collegarsi alla rete.

INSTALLAZIONE (TNO-4030T/4040T/4050T/4030TR/4040TR)

- ! ■ La presente telecamera è impermeabile e conforme alla classe di protezione IP66, ma la presa collegata al cavo esterno non lo è. Si consiglia di installare il prodotto sotto il bordo delle grondaie per evitare che il cavo risulti esposto esternamente.

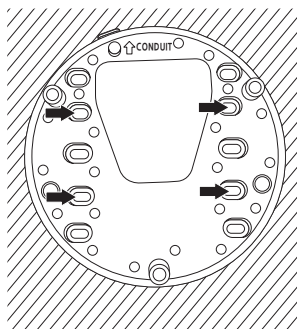
Precauzioni prima dell'installazione

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

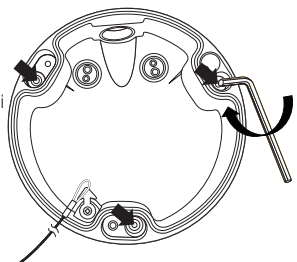
- Deve essere installato nell'area (soffitto o parete) in grado di sostenere un peso 5 volte superiore a quello della telecamera, incluso il supporto di installazione.
- I cavi bloccati o spelati possono danneggiare il prodotto o provocare incendi.
- Per motivi di sicurezza, allontanare tutte le persone dal luogo di installazione. E, se necessario, disporre le proprie cose lontano dal sito.
- Non utilizzare il foro del tettuccio per qualsiasi fine diverso dal collegamento dello stesso.
- 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.

Installazione

1. Utilizzare le quattro viti autofilettanti in dotazione per fissare il supporto a parete di base.

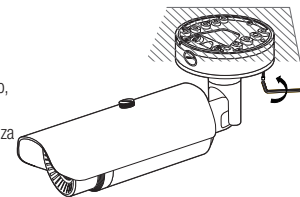


2. Appendere il cavo di sicurezza sul gancio a forma di freccia che si trova nel coperchio inferiore.
3. Collegare i cavi di riferimento ai terminali della telecamera.
4. Dopo aver posizionato il coperchio inferiore sul supporto a parete di base, utilizzare la chiave a L in dotazione per collegare e fissare le tre viti.
5. Dopo aver posizionato la telecamera sul coperchio inferiore, utilizzare la chiave a L in dotazione per collegare le tre viti sul coperchio superiore.



6. Regolare la direzione della telecamera usando la chiave a L in dotazione.

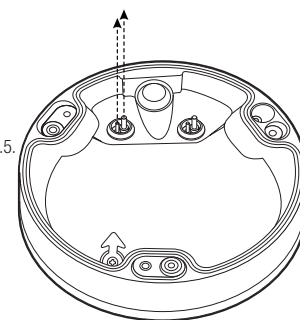
- ! ■ Durante la regolazione della posizione della telecamera usando un supporto, allentare la vite del supporto, regolare la telecamera e quindi stringere nuovamente la vite. Se si cerca di forzare la posizione della telecamera senza allentare la vite, si potrebbero causare dei graffi o altri problemi.



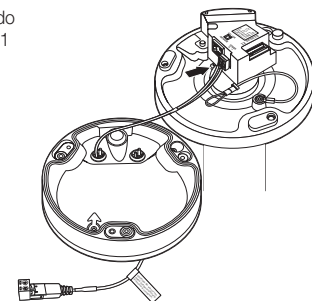
Collegare il cavo di alimentazione impermeabile e il cavo LAN

1. Rimuovere la parte estrusa del coperchio di gomma sulla parte inferiore del coperchio di gomma come mostrato nella figura qui sotto.

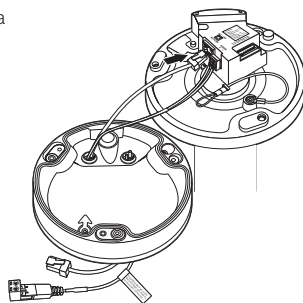
- ! ■ Utilizzare un fermacavo appropriato per collegare il cavo della LAN.
- Telecamera standard: Utilizzare un cavo con un diametro pari a Ø5~6.5.
 - Componenti forniti: Utilizzare un cavo con un diametro pari a Ø7~8.5.



2. Inserire il cavo di alimentazione nel foro piccolo creato rimuovendo la parte proiettata della spina in gomma mostrata nel passaggio 1 qui sopra.
3. Collegare il cavo di alimentazione al blocco del terminale dell'alimentazione.

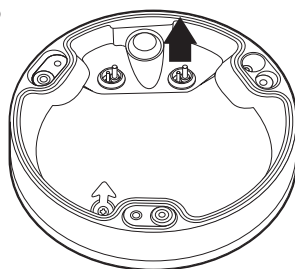


4. Inserire il cavo LAN nel foro creato dalla rimozione della parte della spina di gomma integrata nel passaggio n. 1 mostrato sopra.
5. Rimuovere la guaina con un tranciacavi, poi allineare i cavi.
6. Collegare il cavo LAN con il connettore della LAN e inserirlo nello strumento della LAN.
7. Collegare il cavo finale alla porta Ethernet.

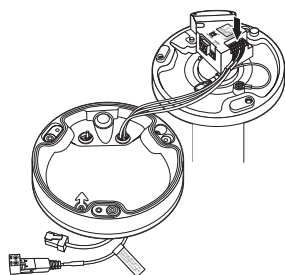


Connessione del cavo dell'allarme e dell'audio

1. Rimuovere il coperchio di gomma sulla parte inferiore del coperchio inferiore come mostrato nella figura qui sotto.



2. Inserire il cavo di allarme/audio nel foro creato dalla rimozione della spina di gomma nel passaggio 1 e collegare il cavo con il terminale di allarme.
3. Allineare il cavo di modo che non sia danneggiato o affinché non si inceppi durante il processo di installazione della telecamera.
4. Posizionare il tappo di gomma che si trova sul cavo di allarme/audio nel foro.



Installazione all'esterno

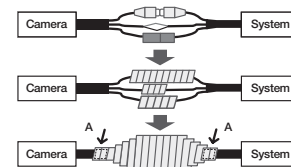
Quando si installa il prodotto all'esterno dell'edificio, impermeabilizzarlo con nastro impermeabilizzante in gomma butilica (acquistabile nei negozi), in modo da evitare perdite d'acqua dallo spazio del cavo collegato all'esterno.

1. Effettuare la connessione ai cavi, come I/O e audio.
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.



INSTALLAZIONE (TNO-4041T/4051T/4041TR)



- La presente telecamera è impermeabile e conforme alla classe di protezione IP66, ma la presa collegata al cavo esterno non lo è. Si consiglia di installare il prodotto sotto il bordo delle grondaie per evitare che il cavo risulti esposto esternamente.

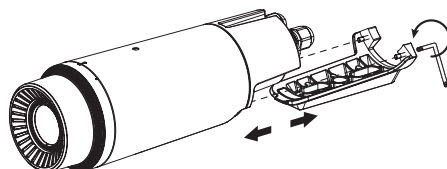
Precauzioni prima dell'installazione

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

- Deve essere installato nell'area (soffitto o parete) in grado di sostenere un peso 5 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.
 - Non utilizzare il foro del tettuccio per qualsiasi fine diverso dal collegamento dello stesso.
 - 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.

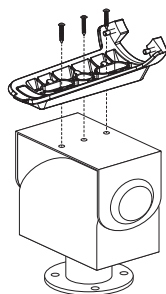
Installazione

1. Utilizzare la chiave a stella per separare la staffa PT dal corpo principale.



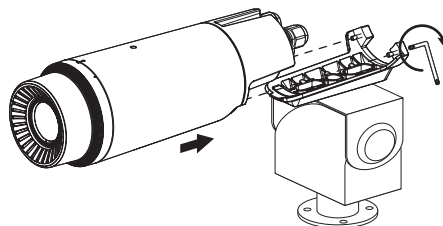
2. Serrare la trasmissione PT e la staffa PT fissando le viti nei tre fori come mostrato nella figura.

 ■ Il driver PT non è incluso.



3. Utilizzare la chiave a stella per serrare la staffa PT e il corpo principale.

 ■ Durante la regolazione della posizione della telecamera usando un supporto, allentare la vite del supporto, regolare la telecamera e quindi stringere nuovamente la vite. Se si cerca di forzare la posizione della telecamera senza allentare la vite, si potrebbero causare dei graffi o altri problemi.

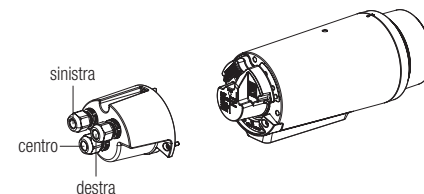


Collegare il cavo di alimentazione impermeabile e il cavo LAN

1. Rimuovere la parte estrusa del coperchio di gomma sulla parte inferiore del coperchio di gomma come mostrato nella figura qui sotto.



- Utilizzare un fermacavo appropriato per collegare il cavo della LAN.
 - Telecamera standard: Utilizzare un cavo con un diametro pari a Ø5~6.5.
 - Componenti forniti: Utilizzare un cavo con un diametro pari a Ø7~8.5.



2. Inserire il cavo di alimentazione nel foro centrale realizzato rimuovendo la parte sporgente del tappo di gomma nella fase 1 indicata sopra.
3. Collegare il cavo di alimentazione al blocco del terminale dell'alimentazione.
4. Inserire il cavo LAN nel foro destro realizzato rimuovendo la parte sporgente del tappo di gomma nella fase 1 riportata sopra.
5. Rimuovere la guaina con un tranciavivi, poi allineare i cavi.
6. Collegare il cavo LAN con il connettore della LAN e inserirlo nello strumento della LAN.
7. Collegare il cavo finale alla porta Ethernet.
8. Inserire il cavo della morsettiatura nel foro sinistro realizzato rimuovendo la parte sporgente del tappo in gomma nella fase 1 riportata sopra.

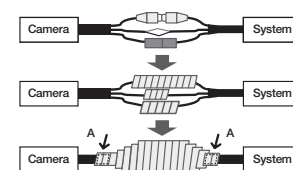
Installazione all'esterno

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. Effettuare la connessione ai cavi, come I/O e audio.
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.

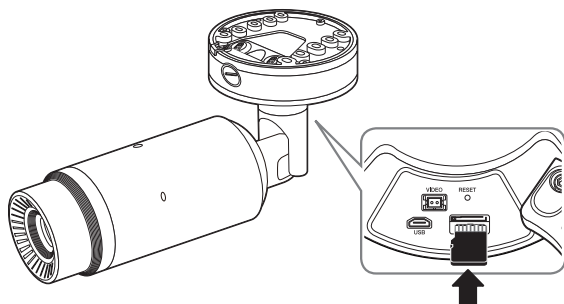


INSERIMENTO/ESTRAZIONE DI UNA SCHEDA DI MEMORIA MICRO SD

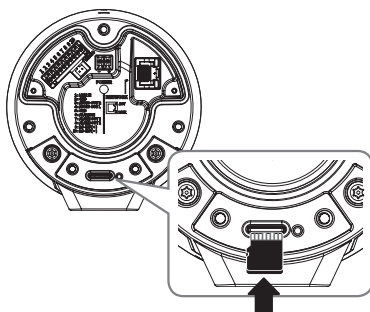
- ❗ ▪ Scollegare il cavo di alimentazione dalla videocamera prima di inserire la scheda di memoria Micro SD.
- Non inserire, forzandola, la scheda di memoria Micro SD se è a rovescio. Altrimenti potrebbe danneggiarsi.
- Quando piove e si ha un alto livello di umidità, non è consigliabile inserire o estrarre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

Inserimento di una scheda di memoria Micro SD

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



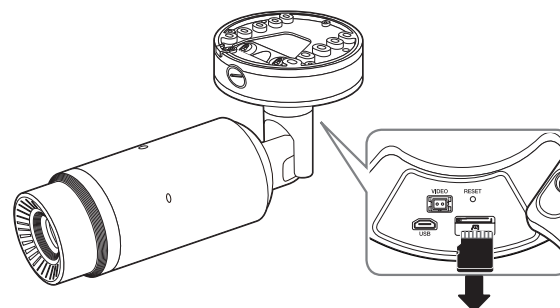
<TNO-4030T/4040T/4050T/4030TR/4040TR>



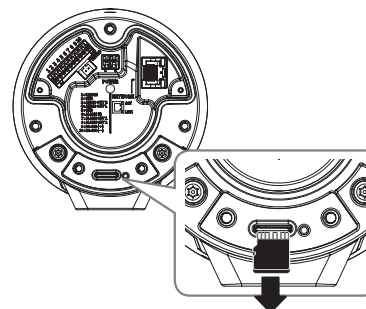
<TNO-4041T/4051T/4041TR>

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.



<TNO-4030T/4040T/4050T/4030TR/4040TR>



<TNO-4041T/4051T/4041TR>

- ❗ ▪ 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.

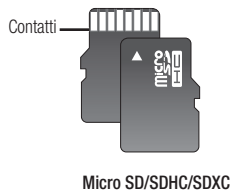
Potreste, comunque, avere problemi di compatibilità secondo il modello e tipi di scheda di memoria.

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

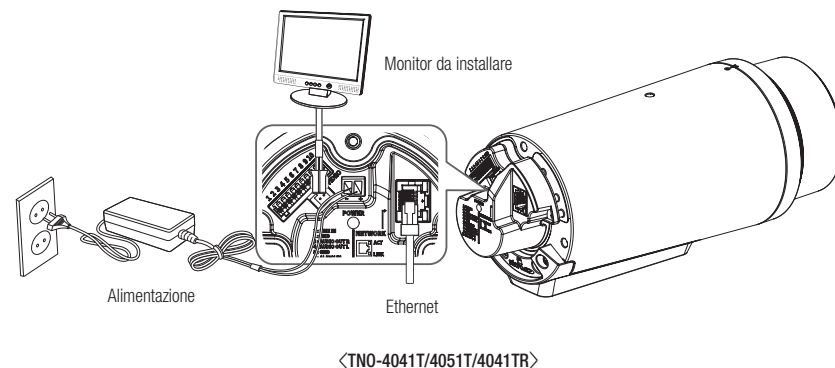
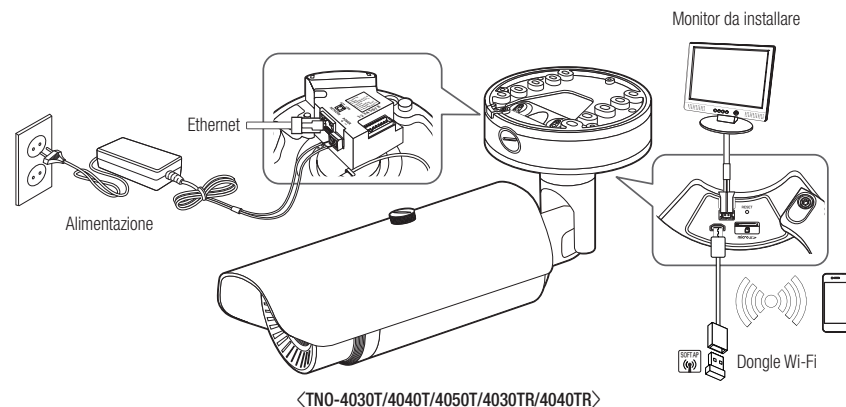
- Fabbricante : SanDisk, Transcend
- Famiglia del prodotto : Elevata durata

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.



COLLEGAMENTO CON ALTRI DISPOSITIVI



- Il terminale CVBS di uscita del prodotto viene fornito per un'installazione più facile. L'utilizzo non è raccomandabile per scopi di monitoraggio.
- Il terminale Micro USB di uscita del prodotto viene fornito per un'installazione più facile. L'utilizzo non è raccomandabile per scopi di monitoraggio.
- Se lo schermo si blocca per circa 1-2 secondi a un certo intervallo di tempo o se si verifica una modifica nella temperatura dell'area circostante, ciò è normale; lo schermo è semplicemente sottoposto a un processo di calibrazione.

Collegamento Ethernet

Collegare il cavo Ethernet alla rete locale o a Internet.

Connessione Wi-Fi (TNO-4030T/4040T/4050T/4030TR/4040TR)

Configurazione telecamera

- 1. Connettere l'adattatore OTG e il dongle WiFi al terminal micro USB.

Configurazione smartphone

- 1. Installare l'applicazione Installazione Wisenet.
- 2. Selezionare il SSID della telecamera dopo aver acceso il WiFi.
- 3. Eseguire l'applicazione Installazione Wisenet.
- 4. Durante il log in alla telecamera, il video sarà connesso (password iniziale: 4321)
 - Il video sarà riprodotto senza log in durante la connessione iniziale.
- 5. L'angolo della telecamera può essere regolato mentre si guarda il video dallo smartphone.

Fabbricante raccomandato del dongle

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

Alimentazione

Utilizzare un cacciavite per collegare ciascun terminale (+, -) del cavo di alimentazione alla relativa porta della videocamera.

- 
- Quando si fornisce corrente PoE e DC 12V o PoE e AC 24V contemporaneamente, l'apparecchiatura è alimentata da una fonte esterna (AC 24V, DC 12V).
 - Si può anche utilizzare un router PoE per alimentare la telecamera.
 - Utilizzare un'alimentazione PoE conforme ai protocolli IEEE 802.3af.
 - Si suggerisce di usare un'unica fonte per l'alimentazione dell'apparecchiatura scegliendo tra PoE, DC 12V e AC 24V.
 - Fare attenzione a non invertire la polarità quando si collega il cavo di alimentazione.
 - Quando l'alimentazione è inizialmente accesa, è necessario del tempo per consentire allo schermo di stabilizzarsi. Per questo motivo, all'accensione iniziale viene eseguita una calibrazione dello schermo.
 - Se si intende collegare un dispositivo esterno, questo deve essere spento prima di procedere.
 - Connettere prima il set e la linea di trasmissione dell'adattatore, poi il cavo di alimentazione alla presa di sulla parete.

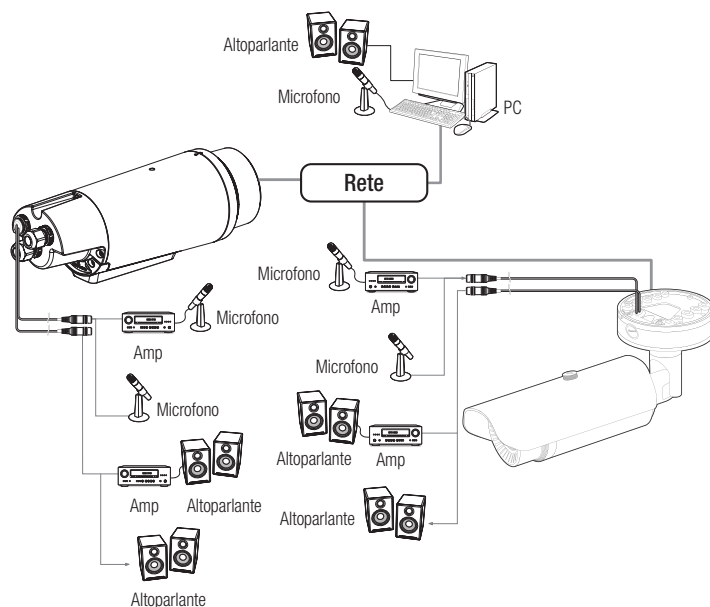
Caratteristiche tecniche per i cavi di alimentazione di ogni modello

Alimentazione di ingresso	Tipo di cavo (AWG)	Lunghezza del cavo (Max.)
DC 12V	#18	19m
	#16	30m
AC 24V	#20	26m
	#18	40m

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	
Supporto PoE	IEEE 802.3af	

Collegare all'ingresso/uscita audio



1. Collegare la porta AUDIO IN della telecamera al microfono o alla porta LINE OUT dell'amplificatore a cui è collegato il microfono.
2. Collegare la porta AUDIO OUT della telecamera al diffusore o alla porta LINE IN dell'amplificatore a cui il diffusore è collegato.
3. Controllare le specifiche per l'ingresso audio.

• Audio Codec

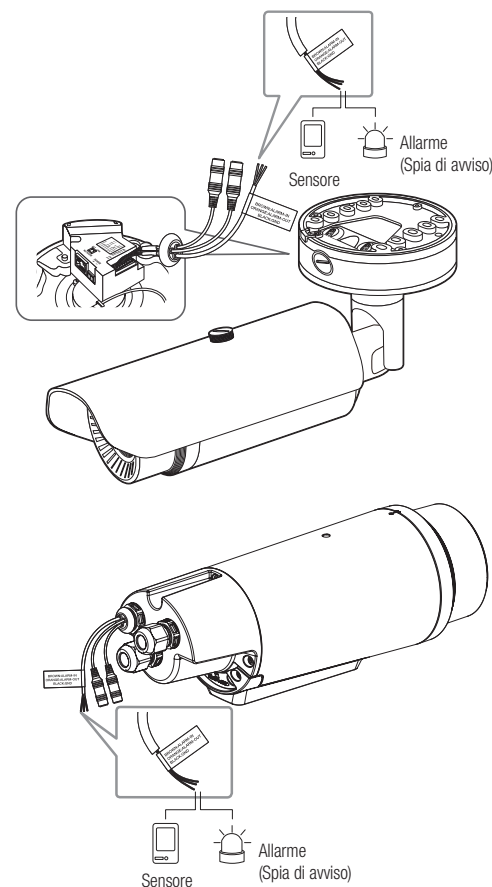
- Ingresso audio : G.711 PCM (Bit rate: 64 kbps / Frequenza di campionamento: 8 kHz), G.726 ADPCM (Bit rate: 16 Kbps, 24 Kbps, 32 Kbps, 40 Kbps / Frequenza di campionamento: 8 kHz), AAC (Bit rate: 48 Kbps / Frequenza di campionamento: 16 kHz)
- Uscita audio : G.711 PCM (Bit Rate: 64 kbps / Frequenza di campionamento: 8 kHz)

• Audio duplex

- **Audio in** : Selezionabile (microfono/Linea in entrata), tensione supportata: 2.5VDC (4mA), impedenza in entrata: 2K Ohm
- **Audio out** : Linea in uscita (3.5mm Mono jack), Livello uscita max: 1Vms
- **Impedenza linea di uscita** : 600Ω

Collegamento alla porta I/O

Collegare il cavo di allarme I/O alla porta corrispondente della scatola d'ingresso.



- **ALARM-IN** : Utilizzato per collegare il sensore in entrata di allarme oppure il sensore esterno Giorno/notte.
- **ALARM-OUT** : È utilizzata per collegare il segnale di uscita allarme.
- **GND** : Porta comune per il segnale di allarme in entrata/uscita.

! ■ Se si collegano dispositivi che superano la tensione e la corrente specificate (es. luce lampeggiante e sirena) mediante il metodo a collettore aperto, potrebbero verificarsi malfunzionamenti. Fare riferimento al "Schema di collegamento dell'uscita allarme" quando si collegano dispositivi che superano il voltaggio e le attuali caratteristiche tecniche. (pagina 13)

RS-485 config. (TNO-4041T/4051T/4041TR)

Tutte le suddette operazioni si attivano solo se la videocamera di rete è collegata correttamente al ricevitore compatibile con le funzioni Panoramica/Inclinazione. Inoltre, la porta seriale per le operazioni Panoramica/Inclinazione deve essere specificata nel modo corretto.

- !
- Controlla le funzioni supportate dal ricevente quanto questo è collegato. Alcune funzioni potrebbero essere disattivate a seconda del ricevente o dei dettagli tecnici del protocollo. Fare riferimento alla seguente tabella per ulteriori dettagli.

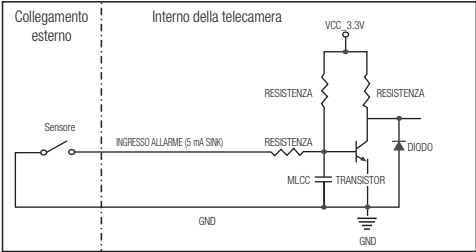
Funzioni supportate per ogni protocollo

Protocollo	Controllo P	Velocità di movimento P	Controllo T	Velocità di movimento T	Predefinito	Osservazioni
SAMSUNG-T	0	0 (1~6)	0	0 (1~6)	0	
PELCO-D	0	0 (1~6)	0	0 (1~6)	0	
PELCO-P	0	0 (1~6)	0	0 (1~6)	0	
SUNGJIN	0	X	0	X	0	Direzione PT (Sopra/Sotto/Sinistra/Fondo)
PANASONIC	0	0 (1~6)	0	0 (1~6)	0	
HONEYWELL	0	0 (1~6)	0	0 (1~6)	0	
AD	0	0 (1~6)	0	0 (1~6)	0	
VICON	0	0 (1~6)	0	0 (1~6)	0	
GE	0	0 (1~6)	0	0 (1~6)	0	
BOSCH	0	0 (1~6)	0	0 (1~6)	X	

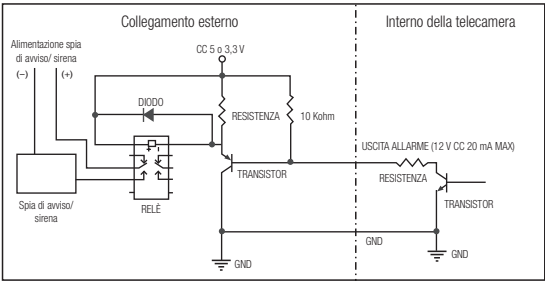
Collegamento del sensore esterno

Collegare un trefolo di ogni linea di segnale (2 trefoli) dei sensori alla porta [ALARM IN] e l'altro trefolo alla porta [GND].

Schema di collegamento dell'ingresso allarme



Schema di collegamento dell'uscita allarme

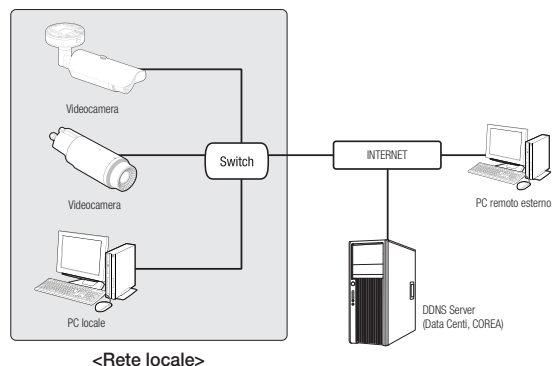


E' possibile impostare le impostazioni di rete secondo le configurazioni di rete.

COLEGARE LA VIDEOCAMERA DIRETTAMENTE ALL'AREA LOCALE DELLA RETE

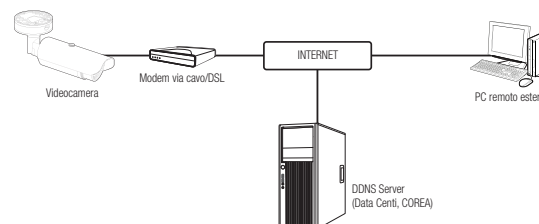
Collegare la videocamera da un PC locale nella LAN

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.
- Nell'installatore del IP, è possibile usare la password predefinita "**4321**" per impostare l'indirizzo IP, la Subnet Mask, la Gateway, la porta HTTP, la porta VNP e il tipo di 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 cambiare l'indirizzo IP, utilizzare IP Installer. Per ulteriori dettagli sull'uso di IP Installer, vedere "**Impostazione dell'IP statico**". (Pagina 20)

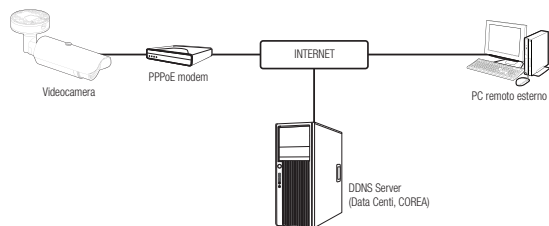
COLLEGAMENTO DELLA VIDEOCAMERA DIRETTAMENTE AD UN MODEM VIA CAVO/DSL DHCP



1. Collegare il PC utente direttamente alla rete della telecamera.
2. Eseguire il programma IP Installer e modificare l'indirizzo IP della videocamera in modo da poter utilizzare il browser Web sul desktop per collegarsi 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



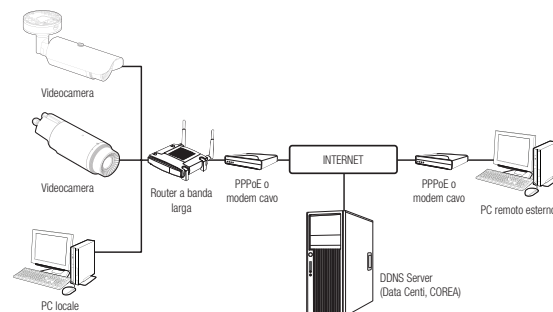
1. Collegare il PC utente direttamente alla rete della telecamera.
2. Eseguire il programma IP Installer e modificare l'indirizzo IP della videocamera in modo da poter utilizzare il browser Web sul desktop per collegarsi a Internet.
3. Utilizzare il browser Internet per collegarsi al visualizzatore Web.
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

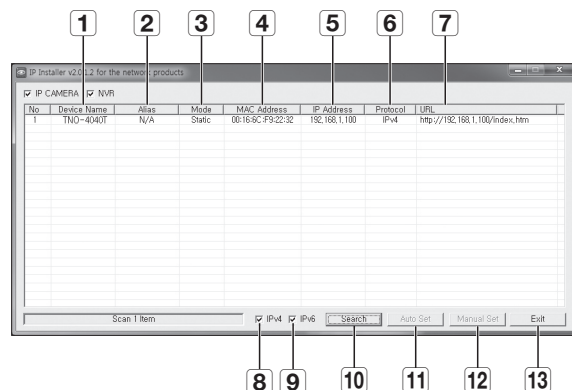
Configurare le impostazioni di rete del PC collegato ad un Router a banda larga, seguire le istruzioni sotto.

- 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 22)

TASTI UTILIZZATI IN IP INSTALLER



Voce	Descrizione
1 Device Name	Nome del modello della videocamera collegata. Fare clic sulla colonna per ordinare l'elenco in base al nome del modello. Tuttavia, facendo clic durante la ricerca, questa viene arrestata.
2 Alias	Al momento questa funzione non è implementata.
3 Mode	Visualizza <Static>, <Dynamic> o <PPPoE> per l'attuale stato di connessione alla rete.
4 MAC(Ethernet) Address	Indirizzo Ethernet della videocamera collegata. Fare clic sulla colonna per ordinare l'elenco in base all'indirizzo Ethernet. Tuttavia, facendo clic durante la ricerca, questa viene arrestata.
5 IP Address	Indirizzo IP. Fare clic sulla colonna per ordinare l'elenco in base all'indirizzo IP. Tuttavia, facendo clic durante la ricerca, questa viene arrestata.
6 Protocol	Impostazione di rete della videocamera. L'impostazione predefinita è "IPv4". Le videocamere impostate su IPv6 verranno visualizzate come "IPv6".
7 URL	Indirizzo URL DDNS che consente l'accesso da una rete esterna. Questo tuttavia viene sostituito con l'<IP Address> della videocamera se la registrazione DDNS non è riuscita.
8 IPv4	Ricerca le videocamere impostate su IPv4.

Voce	Descrizione
9 IPv6	Ricerca le videocamere impostate su IPv6. Si attiva esclusivamente in un ambiente compatibile con IPv6.
10 Search	Ricerca le videocamere al momento collegate alla rete. Tuttavia questo tasto viene disattivato se non sono selezionati né IPv4 né IPv6.
11 Auto Set	IP Installer configura automaticamente le impostazioni di rete.
12 Manual Set	Le impostazioni di rete devono essere configurate manualmente.
13 Exit	Chiude il programma IP Installer.

- Per l'IP installer, utilizzare esclusivamente la versione del programma di installazione fornita nel CD di installazione oppure utilizzare l'ultima, se disponibile. È possibile scaricare l'ultima versione dal sito Web Hanwha Techwin.
- Se il Sistema Operativo supportato è Windows 8.1, si raccomanda di utilizzare Wisenet Device Manager al posto dell'IP Wisenet.
Il programma Wisenet Device Manager può essere scaricato visitando il sito web Hanwha Techwin (<http://www.hanwha-security.com>) sotto il menu <Manuale Tecnico> - <Strumento Online>.

IMPOSTAZIONE DELL'IP STATICO

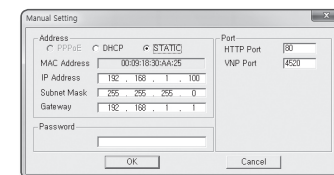
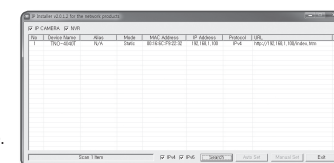
Configurazione manuale della rete

Eseguire <IP Installer_v2.XX.exe> per visualizzare l'elenco di ricerca delle videocamere.
Al primo avvio sia [Auto Set] che [Manual Set] sono disattivati.

- Nelle videocamere trovate con impostazione IPv6, questi tasti sono disabilitati dato che le videocamere non supportano questa funzione.

1. Selezionare una videocamera dell'elenco di ricerca.
Controllare l'indirizzo MAC della videocamera sull'etichetta della videocamera.
I tasti [Auto Set] e [Manual Set] sono entrambi attivati.
2. Fare clic su [Manual Set].
Viene visualizzata la finestra di dialogo Impostazione Manuale.
<IP Address>, <Subnet Mask>, <Gateway>, <HTTP Port>, e <VNP Port> della telecamera sono visualizzati nei valori attuali.
3. Nel riquadro <Address> inserire le informazioni necessarie.
 - MAC (Ethernet) Address : L'indirizzo MAC stampato sull'etichetta della videocamera viene visualizzato automaticamente e non richiede impostazioni da parte dell'utente.

- I parametri relativi all'IP possono essere impostati soltanto quando la funzione DHCP non è selezionata.



Se non si usa un router a banda larga

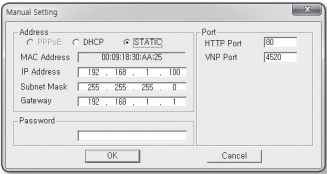
Per l'impostazione di <IP Address>, <Subnet Mask> e <Gateway>, contattare l'amministratore di rete.

4. Inserire le informazioni necessarie nel riquadro <Port>.

- HTTP Port : È utilizzata per accedere alla videocamera utilizzando il browser Internet (impostazione predefinita: 80).
- VNP Port : È utilizzata per controllare il trasferimento del segnale video (impostazione predefinita: 4520).

5. Inserire la password.

Inserire la password dell'account "admin" utilizzato per accedere alla telecamera.



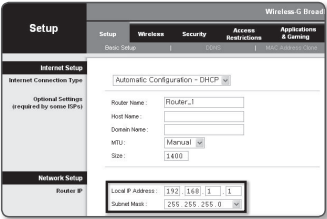
- ! Per ragioni di sicurezza, è raccomandabile usare una combinazione di numeri, lettere maiuscole e minuscole e caratteri speciali per la creazione della propria password.
- Per informazioni su come modificare la password fare riferimento alla guida online di Web Viewer.

6. Fare clic su [OK].

La configurazione manuale della rete viene completata.

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 porte)". (Pagina 22)

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	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Impostazioni correlate della porta	HTTP Port	8080	8081
	VNP Port	4520	4521

- ✍ 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

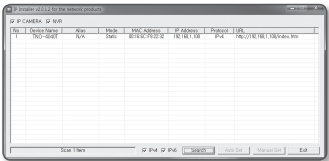
Configurazione automatica della rete

Eseguire <IP Installer_v2.XX.exe> per visualizzare l'elenco di ricerca delle videocamere.

Al primo avvio sia [Auto Set] che [Manual Set] sono disattivati.

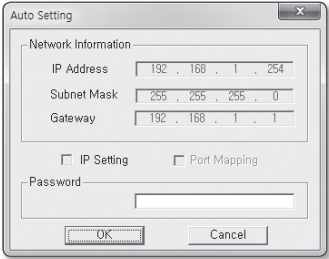
- ✍ Nelle videocamere trovate con impostazione IPv6, questi tasti sono disabilitati dato che le videocamere non supportano questa funzione.

1. Selezionare una videocamera dell'elenco di ricerca.
Controllare l'indirizzo MAC della videocamera sull'etichetta della videocamera.
I tasti [Auto Set] e [Manual Set] sono entrambi attivati.
2. Fare clic su [Auto Set].
Viene visualizzata la finestra di dialogo Prog Auto.
<IP Address>, <Subnet Mask> e <Gateway> vengono impostati automaticamente.



3. Inserire la password.
Inserire la password dell'account "admin" utilizzato per accedere alla telecamera.

- ! Per ragioni di sicurezza, è raccomandabile usare una combinazione di numeri, lettere maiuscole e minuscole e caratteri speciali per la creazione della propria password.
- Per informazioni su come modificare la password fare riferimento alla guida online di Web Viewer.



4. Fare clic su [OK].
La configurazione automatica della rete viene completata.

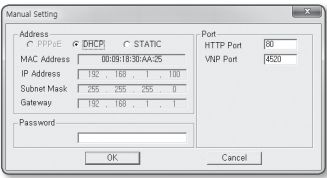
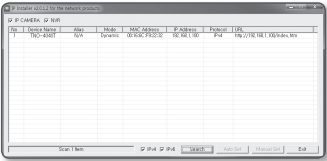
CONFIGURAZIONE IP DINAMICO

Configurazione dell'ambiente dell'IP dinamico

- 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

Selezione dell'IP dinamico

- Eseguire IP Installer sul computer locale dell'utente.
Nell'elenco sono visualizzate videocamere con assegnazione di <Dynamic IP>.
- Selezionare una videocamera dai risultati della ricerca.
- Fare clic sul pulsante [Manual Set] e controllare l'indirizzo <Dynamic IP> della videocamera.
Deselezionando <DHCP>, è possibile cambiare l'IP in <Static>.

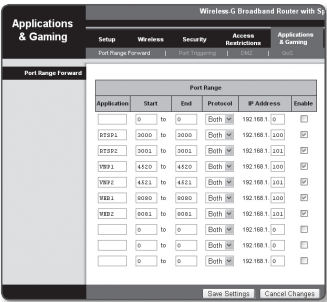


IMPOSTAZIONE DELL'INOLTRO INTERVA LLO PORTE (MAPPAT URA DELLA PORTE)

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

- 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.
- 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.



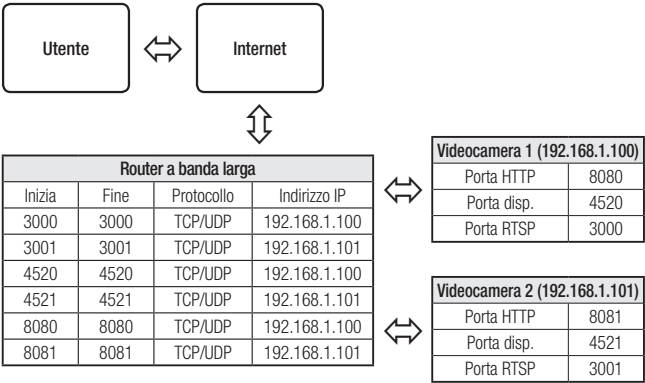
- A operazione ultimata, fare clic su [Save Settings].
Le impostazioni vengono salvate.

- Le istruzioni campione sopra riportate si basano sul router a banda larga 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 :



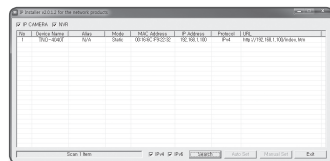
- L'inoltro della Porta può essere effettuato senza un'ulteriore configurazione del router se questo supporta la funzione UPnP (Universal Plug and Play).
Dopo aver collegato la telecamera di rete, selezionare la casella di spunta dal menu <Connessione rapida> in <DDNS Wisenet> in "Impostazioni -> Rete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

COLLEGAMENTO ALLA VIDEOCAMERA DA UN PC LOCALE CONDIVISO

1. Eseguire IP Installer.
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

Poiché l'uso di IP Installer su un computer remoto non incluso nel cluster di rete del router a banda larga non è consentito, gli utenti possono accedere alle videocamere all'interno di una rete del router a banda larga utilizzando l'URL DDNS della videocamera.

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>

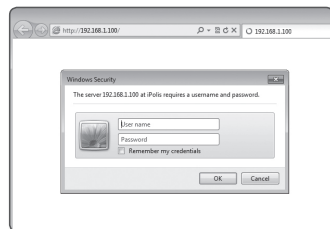


- Per informazioni su come effettuare la registrazione DDNS, fare riferimento alla guida sulla configurazione della rete.

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.

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 Wisenet> e inserire il <ID prodotto> precedentemente utilizzato per la registrazione del DDNS.

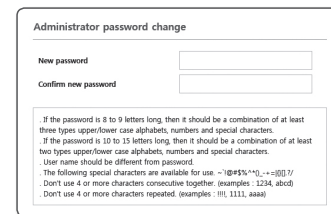
CONFIGURAZIONE DELLA PASSWORD

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.



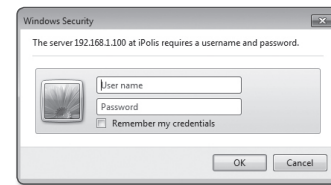
- Per una nuova password da 8 a 9 cifre, è necessario usare almeno 3 dei seguenti elementi: lettere maiuscole/minuscole, numeri e caratteri speciali. Per una password da 10 a 15 cifre, è necessario utilizzare almeno 2 degli elementi precedentemente elencati.
 - Caratteri speciali permessi: ~!@#\$\$%^&*()_-=+[]{}?/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

CONFIGURAZIONE DI CAMERA WEB VIEWER

1. Fare clic sull'icona [Impostazioni (⚙)].
2. Verrà visualizzata la finestra delle impostazioni.
3. È possibile configurare le impostazioni per le informazioni di base della videocamera, video, audio, rete, eventi, analisi e sistema sulla rete.
4. Fare clic su <Aiuto (❓)> per visualizzare le descrizioni dettagliate di ciascuna funzione.

SPECIFICA

Elementi		Descrizione				
		TNO-4030T	TNO-4040T	TNO-4050T	TNO-4041T	TNO-4051T
Video	Dispositivo di acquisizione immagini	Microbolometro non raffreddato				
	Dimensione pixel	17µm				
	Pixel effettivi	640x480				
	NETD	<50mK				
	Uscita video	CVBS : 1.0 Vp-p / 75Ω composita, 720x480(N), 720x576(P), per l'installazione USB : Micro USB tipo B, 1280x720, per l'installazione		CVBS : 1.0 Vp-p / 75Ω composita, 720x480(N), 720x576(P), per l'installazione		
Obiettivo	Lunghezza focale (rapporto di zoom)	13mm fissi	19mm fissi	35mm fissi	19mm fissi	35mm fissi
	Apertura max diaframma	F1.0				
	Campo di visualizzazione angolare	H:48.6°/V:36.4°/D:61.6°	H:32°/V:24.3°/D:39.2°	H:17.2°/V:13°/D:22°	H:32°/V:24.3°/D:39.2°	H:17.2°/V:13°/D:22°
	Controllo messa a fuoco	Fissi				
	Distanza minima dagli oggetti	5m	11m	36m	11m	36m
	Montaggio	Su piastra				
Caratteristiche operative	Titolo telecamera	Off / On - 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				
Caratteristiche operative	Stabilizzazione dell'immagine digitale	Off / On				
	Rilevazione movimento	Off / On (8ea, zone poligonali 8 punti), Passaggio				
	Maschera privacy	Off / On (32ea, zone poligonali) - Colore: grigio, verde, rosso, blu, nero, bianco - Mosaico				
	Capovolgì / Speculare	Capovolgì : On/Off Specchio : On/Off Corridoio : 90°/270°				

Elementi		Descrizione				
		TNO-4030T	TNO-4040T	TNO-4050T	TNO-4041T	TNO-4051T
Caratteristiche operative	Analisi video e audio	Manomissione, indugio, rilevamento direzionale, linea virtuale, ingresso/uscita, apparizione/scomparsa, rilevamento audio, rilevamento del movimento, classificazione sonora, rilevamento scossa, rilevamento cambiamento di temperatura				
	I/O Allarme	Ingresso 1ea / Uscita 2ea				
	Telecomando	-			RS485	
	Protocollo RS-485	-			Pelco D/P, Samsung T, Honeywell, Bosch, Panasonic, Sungin, AD, Vicon, GE	
	Trigger allarme	Ingresso allarme, rilevazione movimento, analisi video e audio, disconnessione di rete				
	Eventi di allarme	• Caricamento file via FTP, E-mail • Notifica via e-mail • Stoccaggio locale (SD/SDHC/SDXC) o NAS registrazione anche se disconnessi dalla rete & Evento • Uscita esterna				
	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, Livello uscita max: 1Vrms				
Conteggio dei Pixel		Assistenza				
Rete	Ethernet	RJ-45 (10/100BASE-T)				
	Formato di compressione video	H.265/H.264 (MPEG-4 Part 10/AVC) : Principale/Linea di base/Alto Movimento JPEG				
	Risoluzione	640x480, 640x360, 320x240				
	Frequenza max fotogrammi	H.265/H.264 : Max. 30fps in tutte le risoluzioni Motion JPEG : Max. 30fps				
	WiseStream II	Assistenza				
	Regolazione qualità video	H.264/H.265 : Controllo livello bitrate target MJPEG : Controllo livello bitrate target				

Elementi		Descrizione				
		TNO-4030T	TNO-4040T	TNO-4050T	TNO-4041T	TNO-4051T
Rete	Metodo di controllo bitrate	H.264/H.265 : CBR o VBR Motion JPEG : VBR				
	Capacità di streaming	Streaming multiplo (fino a 10 profili)				
	Formato di compressione audio	G.711 μ -law /G.726 selezionabile G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps a 8/16/32/48KHz				
	Comunicazione audio	Bidirezionale				
	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, LLDP				
	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 256 GB) - È possibile scaricare le immagini di movimento registrate nella memory card SD/SDHC/SDXC. NAS(Network Attached Storage) PC locale per registrazione istantanea				
	Interfaccia per la programmazione dell'applicazione	ONVIF Profile S/G SUNAPI(HTTP API) Piattaforma aperta				
	Pagina web Lingua	Inglese, Coreano, Francese, Tedesco, Spagnolo, Italiano, Cinese, Russo, Giapponese, Svedese, Portoghese, Ceco, Polacco, Turco, Olandese, Ungherese, Greco				

Elementi		Descrizione				
		TNO-4030T	TNO-4040T	TNO-4050T	TNO-4041T	TNO-4051T
Rete	Visualizzatore Web	Sistema operativo supportato : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 Browser consigliato: Google Chrome Browser supportato : MS Explorer 11, MS Edge, Mozilla Firefox (solo Windows 64bit), Apple Safari (Supportati soltanto in Mac OS X)				
	Software di gestione centrale	SmartViewer, SSM				
Caratteristiche ambientali	Temperatura / umidità di esercizio	-40°C ~ +60°C (-40°F ~ +140°F) / Umidità relativa inferiore al 90%RH				
	Temperatura / umidità di conservazione	-50°C ~ +60°C (-58°F ~ +140°F) / Umidità relativa inferiore al 90%RH				
	Ingress Protection	IP66, NEMA 4X				
	Protezione antivandalismo	IK10		-	IK10	-
Caratteristiche elettriche	Tensione / corrente di ingresso	24VAC, 12VDC, PoE(IEEE802.3af)				
	Consumo	Max.10.5W(AC24V), Max.9W(DC12V), Max.10W(PoE) Tipico 8,9 W (AC24V), Tipico 7,5 W (DC12V), Tipico 8,6 W (PoE)				
Caratteristiche meccaniche	Colore / materiale	Bianco(RAL-9003) / Alluminio				
	Dimensioni (ØxH)	Ø101.97 x H401.8mm			Ø101.97 x H309mm	
	Peso	3,124g		3,126g		2,452g

Elementi		Descrizione		
		TNO-4030TR	TNO-4040TR	TNO-4041TR
Video	Dispositivo di acquisizione immagini	Microbolometro non raffreddato		
	Dimensione pixel	17µm		
	Pixel effettivi	640x480		
	NETD	<50mK		
	Uscita video	CVBS : 1.0 Vp-p / 75Ω composita, 720x480(N), 720x576(P), per l'installazione USB : Micro USB tipo B, 1280X720, per l'installazione		
Obiettivo	Lunghezza focale (rapporto di zoom)	13mm fissi	19mm fissi	
	Apertura max diaframma	F1.0		
	Campo di visualizzazione angolare	H:48.6°/V:36.4°/D:61.6°	H:32°/V:24.3°/D:39.2°	
	Controllo messa a fuoco	Fissi		
	Distanza minima dagli oggetti	5m	11m	
	Montaggio	Su piastra		
Radiometria	Intervallo di rilevamento della temperatura	-20°C ~ 130°C (-4°F~266°F)		
	Precisione temperatura	±5°C (≤100°C), ±20% (>100°C)		
	Rilevamento temperatura	Off/On (3ea rectecgle)		
	Aggiuntivo	Tavolozze ibride, lettura della temperatura campione		
Caratteristiche operative	Titolo telecamera	Off / On - 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		
Caratteristiche operative	Stabilizzazione dell'immagine digitale	Off / On		
	Rilevazione movimento	Off / On (8ea, zone poligonali 8 punti), Passaggio		
	Maschera privacy	Off / On (32ea, zone poligonali) - Colore: grigio, verde, rosso, blu, nero, bianco - Mosaico		
	Capovolgi / Speculare	Capovolgi : On/Off Specchio : On/Off Corridoio : 90°/270°		Capovolgi : On/Off Specchio : On/Off

Elementi		Descrizione		
		TNO-4030TR	TNO-4040TR	TNO-4041TR
Caratteristiche operative	Analisi video e audio	Manomissione, indugio, rilevamento direzionale, linea virtuale, ingresso/uscita, apparizione/scomparsa, rilevamento audio, rilevamento del movimento, classificazione sonora, rilevamento scossa, rilevamento temperatura		
	I/O Allarme	Ingresso 1ea / Uscita 2ea		
	Telecomando	-		
	Protocollo RS-485	-		
	Trigger allarme	Ingresso allarme, rilevazione movimento, analisi video e audio, disconnessione di rete		
	Eventi di allarme	• Caricamento file via FTP, E-mail • Notifica via e-mail • Stoccaggio locale (SD/SDHC/SDXC) o NAS registrazione anche se disconnessi dalla rete & Evento • Uscita esterna		
	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, Livello uscita max: 1Vrms		
	Conteggio dei Pixel	Assistenza		
	Ethernet	RJ-45 (10/100BASE-T)		
Rete	Formato di compressione video	H.265/H.264 (MPEG-4 Part 10/AVC) : Principale/Linea di base/Alto Movimento JPEG		
	Risoluzione	640x480, 640x360, 320x240		
	Frequenza max fotogrammi	H.265/H.264 : Max. 30fps in tutte le risoluzioni Motion JPEG : Max. 30fps		
	WiseStream II	Assistenza		
	Regolazione qualità video	H.264/H.265 : Controllo livello bitrate target MJPEG : Controllo livello bitrate target		

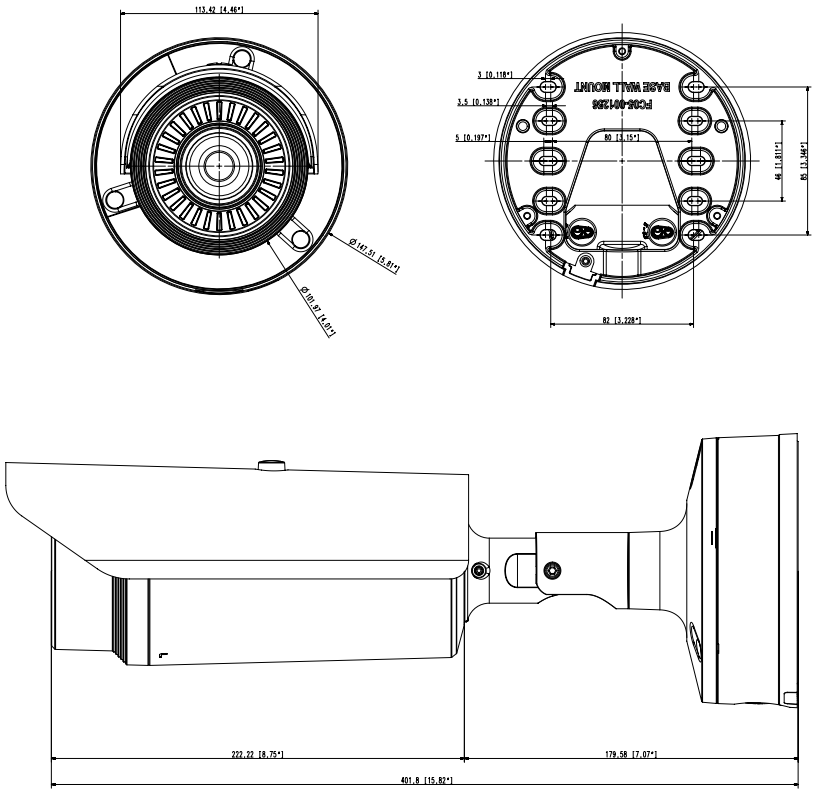
Elementi		Descrizione		
		TNO-4030TR	TNO-4040TR	TNO-4041TR
Rete	Metodo di controllo bitrate	H.264/H.265 : CBR o VBR Motion JPEG : VBR		
	Capacità di streaming	Streaming multiplo (fino a 10 profili)		
	Formato di compressione audio	G.711 μ -law /G.726 selezionabile G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps a 8/16/32/48KHz		
	Comunicazione audio	Bidirezionale		
	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, LLDP		
	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 256 GB) - È possibile scaricare le immagini di movimento registrate nella memory card SD/SDHC/SDXC. NAS(Network Attached Storage) PC locale per registrazione istantanea		
	Interfaccia per la programmazione dell'applicazione	ONVIF Profile S/G SUNAPI(HTTP API) Piattaforma aperta		
	Pagina web Lingua	Inglese, Coreano, Francese, Tedesco, Spagnolo, Italiano, Cinese, Russo, Giapponese, Svedese, Portoghese, Ceco, Polacco, Turco, Olandese, Ungherese, Greco		

Elementi		Descrizione		
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	Dimensioni (ØxH)	Ø101.97 x H401.8mm		
	Peso	3,124g	3,126g	2,452g

PANORAMICA DEL PRODOTTO

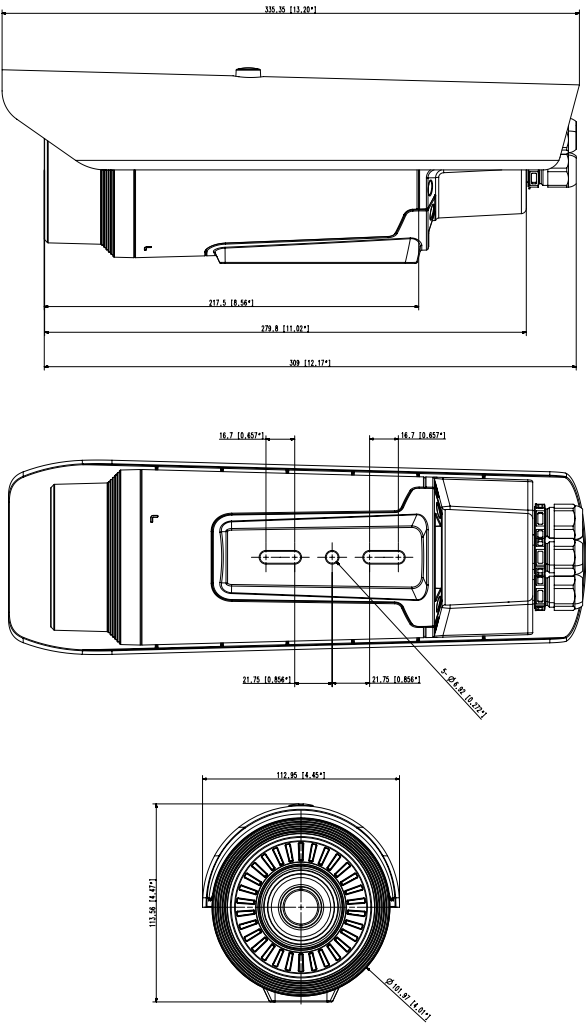
TNO-4030T/4040T/4050T/4030TR/4040TR

Unita: mm (pollici)



TNO-4041T/4051T/4041TR

Unita: mm (pollici)



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 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 porta di 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.
La videocamera collegata alla rete non è rilevata nel programma di installazione IP.	Spegnerne 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.
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.

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>.
<Rilevazione del movimento> in <Analytics> 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. <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.	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 <Configurazione> → <Evento> → <Memorizz.>.
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.
Alcuni rumori potrebbero essere visibili sullo schermo.	Considerando la natura della telecamera termica, è necessario del tempo per la stabilizzazione dopo averla accesa. Durante questo periodo, potrebbero essere visibili alcuni disturbi sullo schermo, ma normalmente scompariranno dopo circa 30 minuti. Questo tempo potrebbe allungarsi a seconda delle caratteristiche del rilevatore.

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GPL SW

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

LGPL SW

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

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Version 2, June 1991

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

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

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La tutela dell'ambiente è molto importante per Hanwha Techwin, 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.

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