Hanwha Vision

VIDEOCAMERA DI RETE

Manuale utente

XNV-6081Z/XNV-8081Z
XND-6081VZ/XND-8081VZ
XND-6081FZ/XND-8081FZ

CE

Videocamera di rete
Manuale utente

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

❖ **Il nome utente iniziale dell'amministratore è "admin" e la password deve essere impostata quando viene effettuale 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 superfice del prodotto con un 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. Istallare seguendo le istruzioni del fabbricante.
8. Non istallare 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 alimentato da un'Unità di alimentazione elencata contrassegnata "Classe 2" o "LPS" e omologata da 12 V CC 0,7 A o PoE 0,27 A. (XND-6081FZ/XND-6081VZ)
16. Questo prodotto deve essere alimentato da un'Unità di alimentazione elencata contrassegnata "Classe 2" o "LPS" e omologata da 12 V CC 0,75 A o PoE 0,3 A. (XND-8081FZ/XND-8081VZ)
17. Questo prodotto deve essere alimentato da un'Unità di alimentazione elencata contrassegnata "Classe 2" o "LPS" e omologata da 12 V CC 0,8 A, 24 V CA 0,8 A o PoE 0,3 A. (XNV-6081Z)
18. Questo prodotto deve essere alimentato da un'Unità di alimentazione elencata contrassegnata "Classe 2" o "LPS" e omologata da 12 V CC 0,85 A, 24 V CA 0,9 A o PoE 0,33 A. (XNV-8081Z)
19. 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.
20. 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.
21. Durante l'installazione del prodotto, prestare attenzione a non far macchiare la superficie con la sostanza chimica. Alcuni solventi chimici come detergenti o adesivi potrebbero causare gravi danni alla superficie del prodotto.
22. 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.
23. L'installazione o l'utilizzo del prodotto in acqua può causare gravi danni allo stesso.
24. Anche se un rapido cambiamento di temperatura potrebbe causare il congelamento all'interno della cupola, non ci saranno problemi con il video.

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



SPIEGAZIONE DEI SIMBOLI GRAFICI



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



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

Prodotto di classe I

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

Batteria

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

La batteria non è sostituibile.

Scollegamento del dispositivo

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

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

ATTENZIONE

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

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

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

Leggere attentamente le seguenti precauzioni di sicurezza raccomandate.

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

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

I simboli utilizzati nel manuale hanno i seguenti significati.

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

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

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

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SPECIFICHE PC CONSIGLIATE

- CPU : I ntel(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

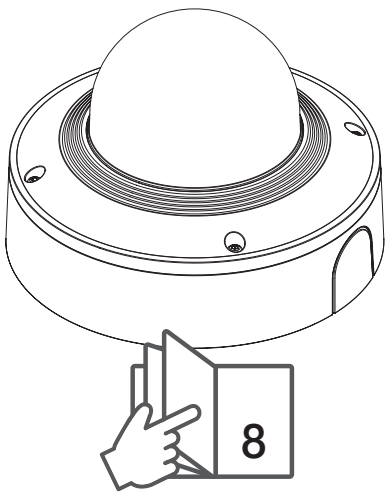
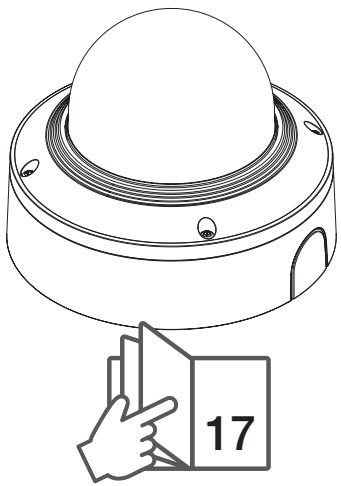
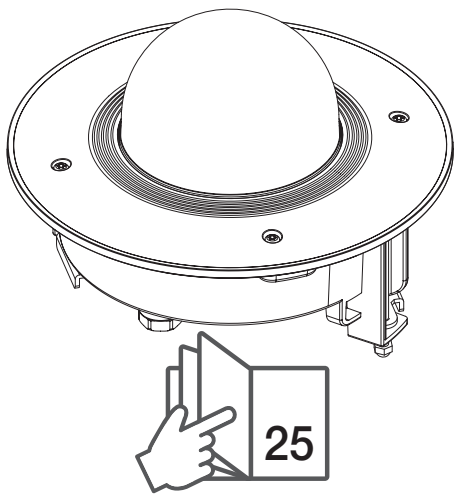
- Spazio consigliabile : Da 16GB a 256GB (Tipo MLC)
- Per questa telecamera si raccomandano i seguenti tipi di memory card dei seguenti fabbricanti.
  - Fabbricante : SanDisk, Transcend
  - Famiglia del prodotto : Elevata durata

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.

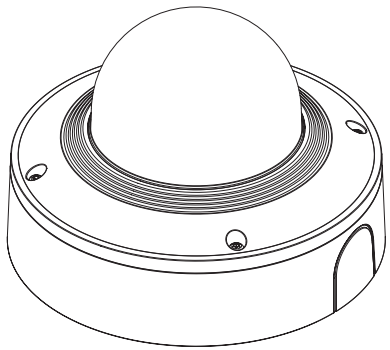
Prodotti raccomandati	Dimensioni disponibili
QNAP NAS	Supporta fino ad un massimo di 16 telecamere in entrata simultaneamente.
Sinologia NAS	Supporta fino ad un massimo di 16 telecamere in entrata simultaneamente.

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

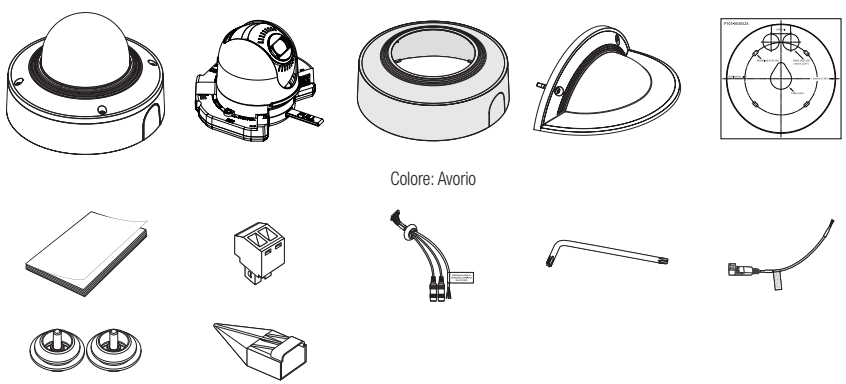
Telecamera di sicurezza a cupola per esterni XNV-6081Z/XNV-8081Z	Telecamera di sicurezza a cupola per interni XND-6081VZ/XND-8081VZ	Telecamera a cupola a incasso XND-6081FZ/XND-8081FZ
		

ACCESSORI FORNITI

In base al Paese di residenza, gli accessori potrebbero variare.

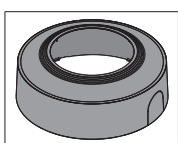
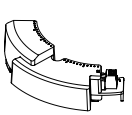


<XNV-6081Z/XNV-8081Z>

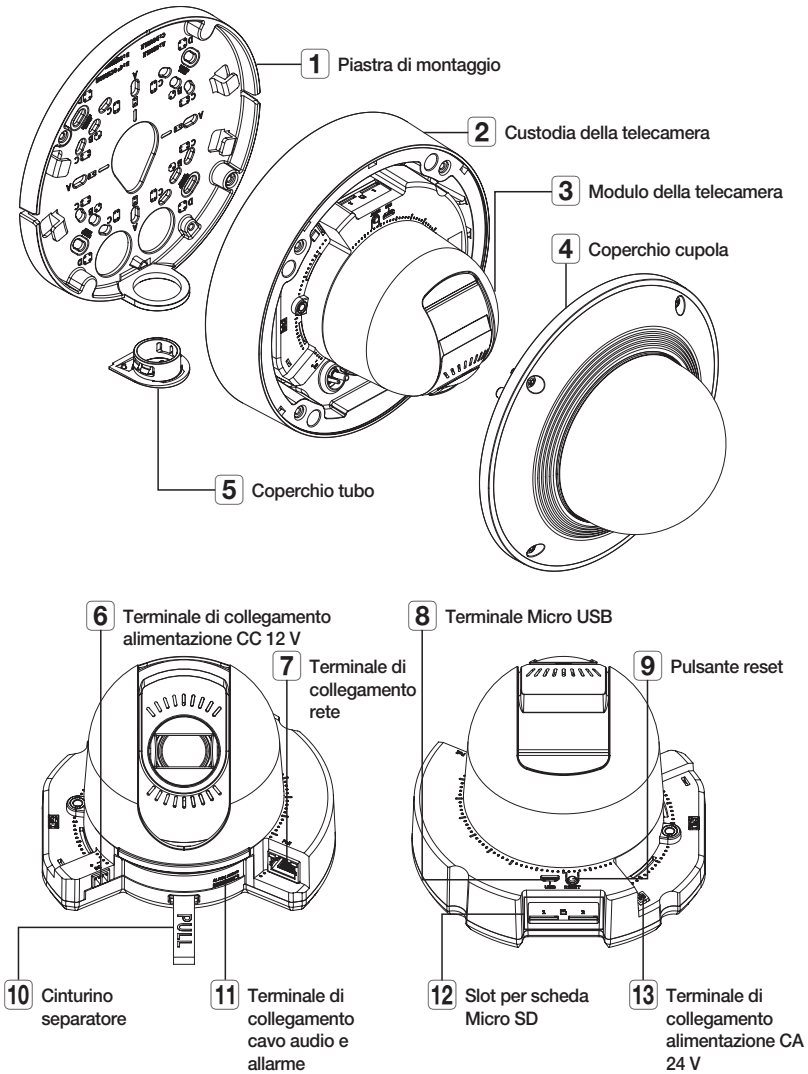


Colore: Avorio

Opzione (venduta separatamente)

	
SBC-180B (Colore: Nero)	SPC-100AC

SGUARDO D'INSIEME



INSTALLAZIONE

- La presente telecamera è impermeabile e conforme alla classe di protezione IP67 / 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.

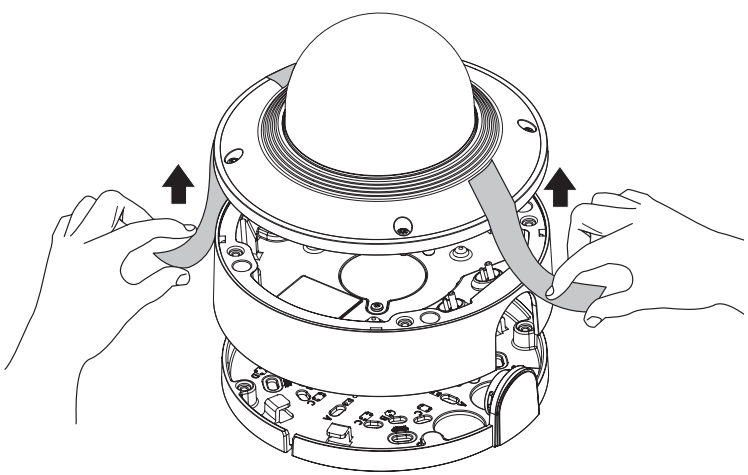
Precauzioni prima dell'installazione

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

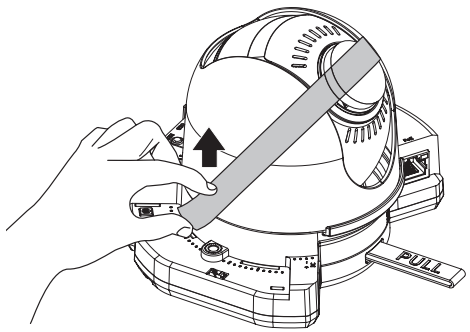
- Selezionare un sito per l'installazione che sia in grado di supportare almeno 5 volte il peso della telecamera.
- I cavi bloccati o spelati possono danneggiare il prodotto o provocare incendi.
- Per motivi di sicurezza, allontanare tutte le persone dal luogo di installazione.
  E, se necessario, disporre le proprie cose lontano dal sito.
- Se il prodotto viene installato con una forza eccessiva, potrebbe causare danni alla telecamera a causa di un malfunzionamento. Forzare l'assemblaggio utilizzando strumenti non conformi potrebbe danneggiare il prodotto.

Rimozione

1. Staccare il nastro che fissa la custodia della telecamera.

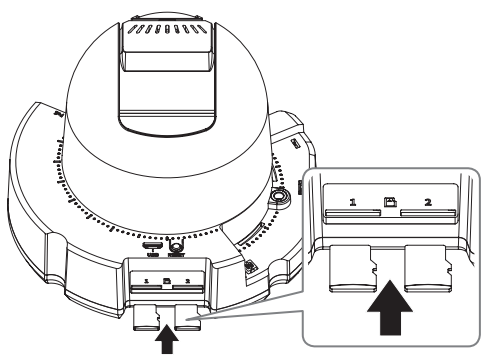


2. Staccare il nastro attaccato al modulo della telecamera.



Inserimento di una scheda di memoria Micro SD

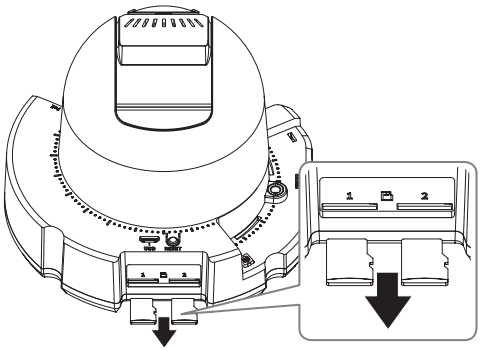
Far scorrere la scheda Micro SD nello slot Micro SD sul modulo della telecamera nella direzione della freccia.



- Prima di installare la telecamera, è necessario inserire la scheda di memoria Micro SD quando la fonte di alimentazione e il corpo sono separati.
- Non inserirlo forzando nella direzione opposta. Potrebbe danneggiare la scheda di memoria Micro SD e il prodotto.
- Quando piove e si ha un alto livello di umidità, non è consigliabile inserire o estrarre una scheda Micro SD.
- Quando si installa/rimuove la scheda di memoria Micro SD, accertarsi di collocare il corpo del prodotto su una superficie piana prima di lavorarci per evitare incidenti dovuti alla perdita o alla caduta di componenti.

Rimozione di una scheda di memoria Micro SD

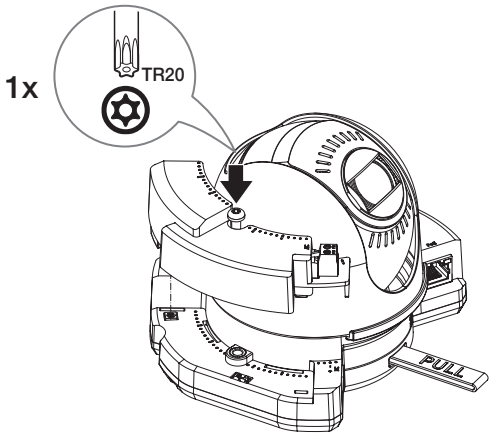
Premere delicatamente sulla fine esposta della scheda di memoria come mostrato nel diagramma per espellere la scheda di memoria dallo slot.



- Si noti che se si spinge e si rilascia con decisione la scheda di memoria Micro SD quando viene espulsa, la stessa potrebbe fuoriuscire.
- 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.

Installazione del modulo CA (venduto separatamente: SPC-100AC)

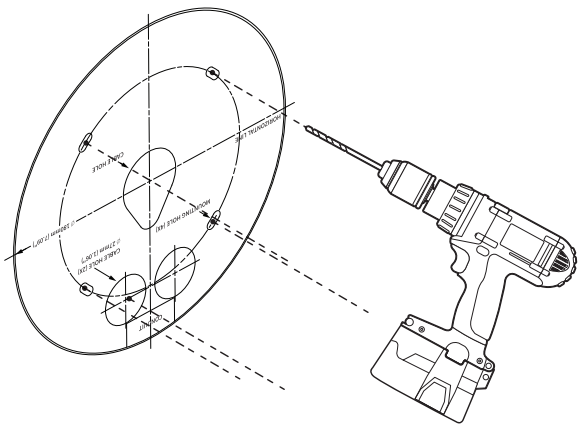
1. Installare il modulo CA come mostrato nella figura.
2. Stringere la vite usando la chiave esagonale.



Installazione (piastra di montaggio)

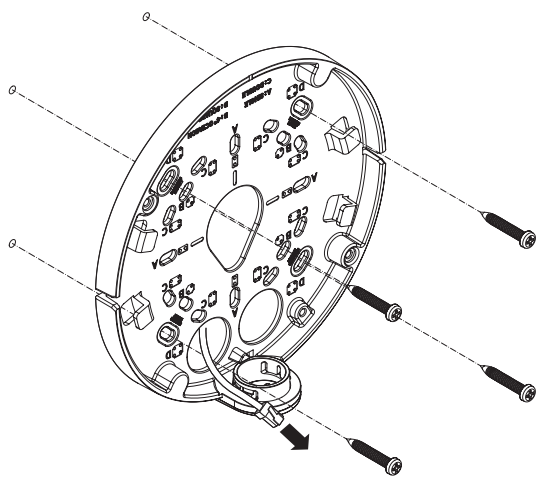
[Installazione diretta a parete/soffitto]

1-1. Attaccare il modello per l'installazione sulla superficie desiderata e praticare i fori per le viti e i cavi.



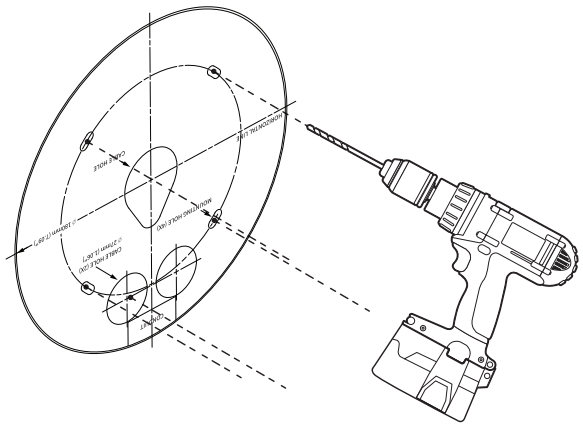
1-2. Fissare la piastra di montaggio utilizzando le viti appropriate.

1-3. Estrarre i cavi necessari tra i cavi LAN/alimentazione/audio e allarme attraverso il foro sulla piastra di montaggio.

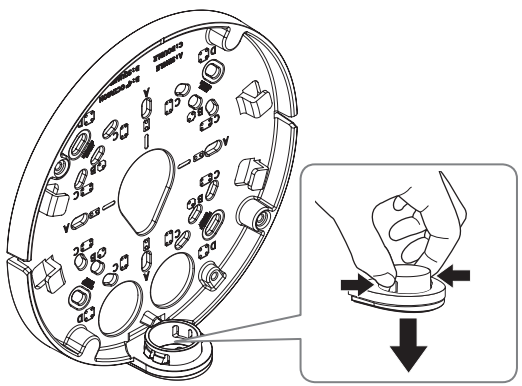


[Installazione tramite tubo]

2-1. Attaccare il modello per l'installazione e praticare i fori per le viti e i cavi.



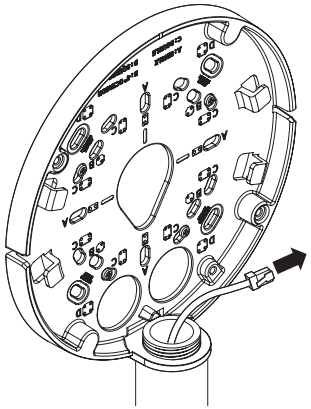
2-2. Separare il coperchio del tubo della piastra di montaggio premendo sui lati.



2-3. Posizionare il tubo sulla piastra di montaggio.

2-4. Fissare la piastra di montaggio utilizzando le viti appropriate.

2-5. Estrarre i cavi necessari tra i cavi LAN/alimentazione/audio e allarme attraverso il tubo.



Installazione (custodia della telecamera)

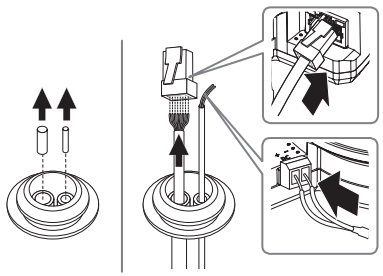
- Utilizzare una boccola compatibile con il cavo LAN da collegare.
  - Telecamera principale: utilizzare un cavo con diametro compreso tra Ø5 a 6,5
  - Componenti: utilizzare un cavo con diametro compreso tra Ø5 a 8,5

[Installazione cavi di alimentazione/LAN]

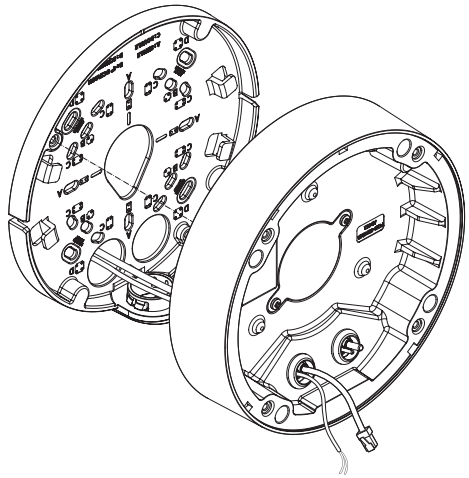
1-1. Estrarre le parti estruse della boccola da utilizzare.

1-2. Inserire il cavo LAN nel foro grande della boccola e collegarlo al connettore LAN.

1-3. (Quando si utilizza l'alimentazione) Inserire il cavo di alimentazione nel foro piccolo della boccola e collegarlo alla morsettiera in dotazione.



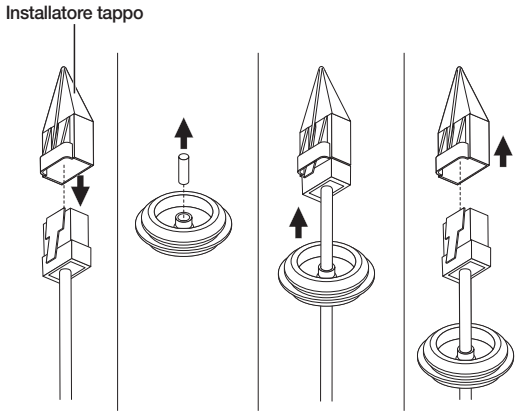
1-4. Montare la boccola sulla custodia della telecamera.



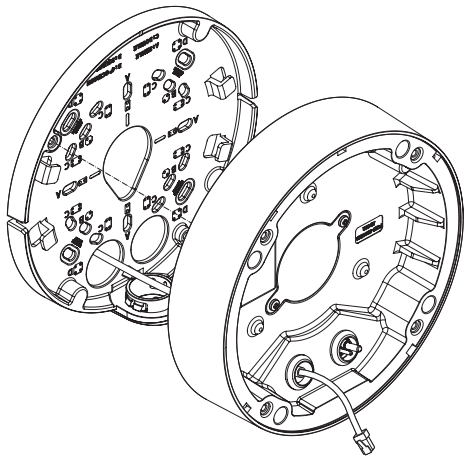
[Installazione del cavo LAN] (IP66)

2-1. Estrarre la parte estrusa della boccola a 1 foro in dotazione.

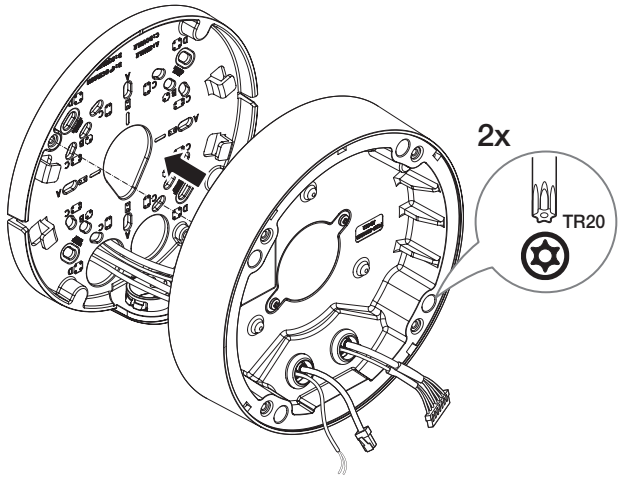
2-2. Utilizzare l'installazione per il tappo per passare attraverso il cavo RJ45.



2-3. Montare la boccola sulla custodia della telecamera.

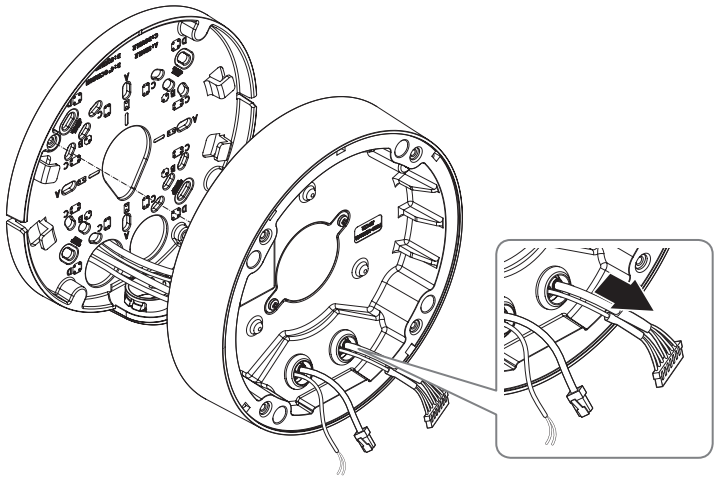


4. Unire la piastra di montaggio con la custodia della telecamera.



[Installazione di cavi audio e allarme]

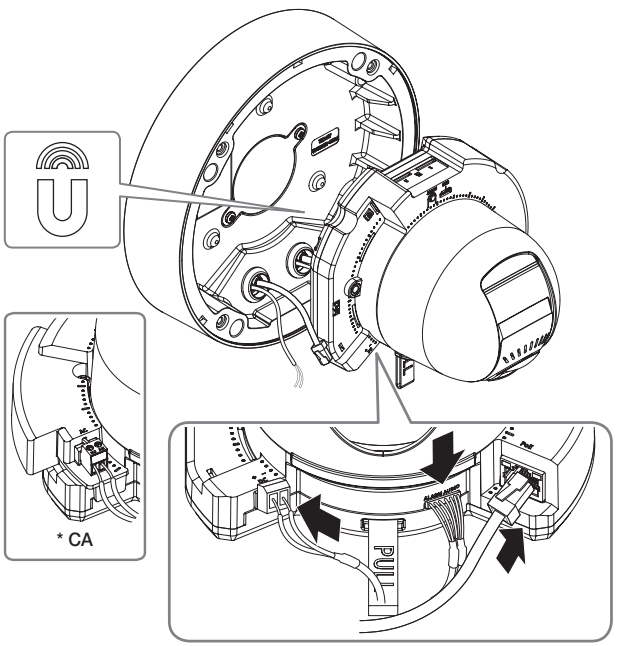
3-1. Montare la boccola dei cavi audio e allarme in dotazione sulla custodia della telecamera.



Installazione del modulo della telecamera

1. Collegare i cavi LAN/alimentazione/audio e allarme al terminale del modulo della telecamera.
2. Attaccare il modulo della telecamera alla custodia.

- Un magnete è incorporato nella parte inferiore del modulo.
- Fare attenzione a non lasciare oggetti estranei tra le superfici di attacco.



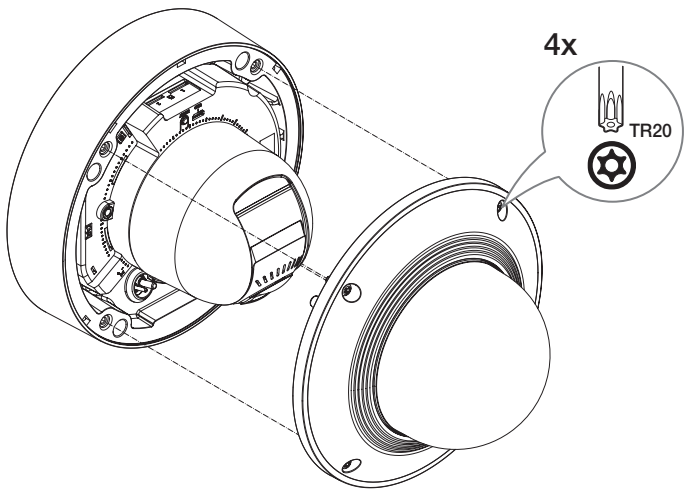
3. Regolare l'obiettivo nella direzione desiderata facendo riferimento alla sezione "**Regolazione della direzione di monitoraggio della videocamera**". (pagina 33)

Assemblaggio del coperchio a cupola

[Installazione diretta a parete/soffitto]

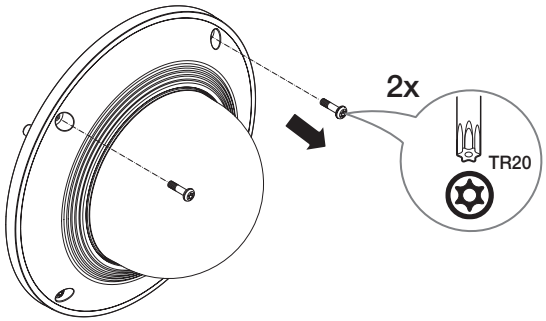
1. Assemblare il coperchio a cupola.

- Accertarsi di stringere saldamente le viti di fissaggio in modo che non possa penetrare acqua provocando danni.



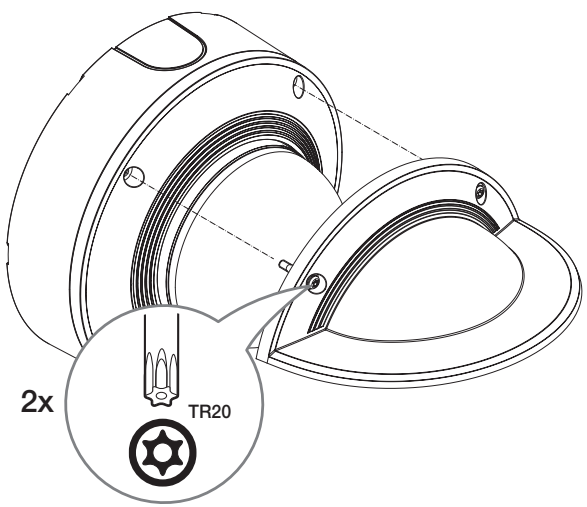
[Tramite cappuccio anti-intemperie]

1. Rimuovere le viti dal coperchio a cupola.



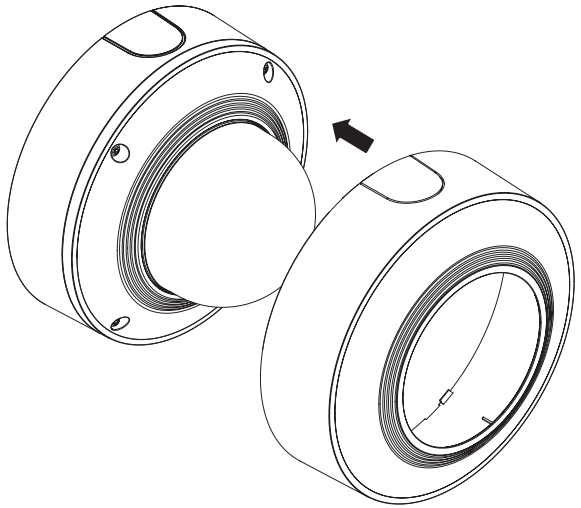
2. Assemblare il coperchio a cupola.
3. Montare il cappuccio protettivo sul coperchio a cupola e stringere le viti.

- Accertarsi di stringere saldamente le viti di fissaggio in modo che non possa penetrare acqua provocando danni.

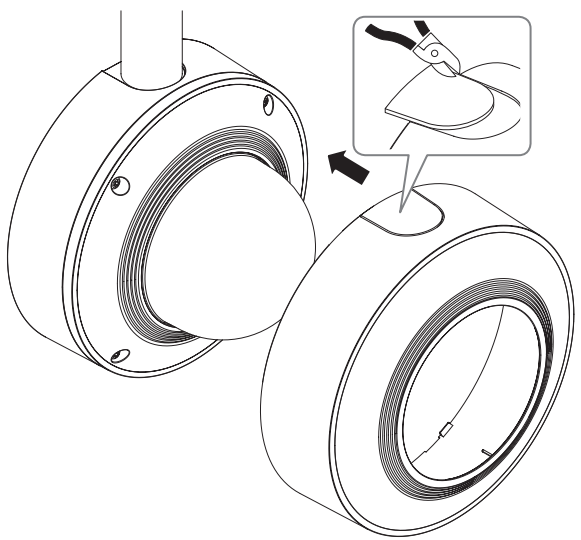


Applicazione/rimozione della copertura mimetica

1. Inserire la copertura mimetica allineata con il coperchio del tubo.

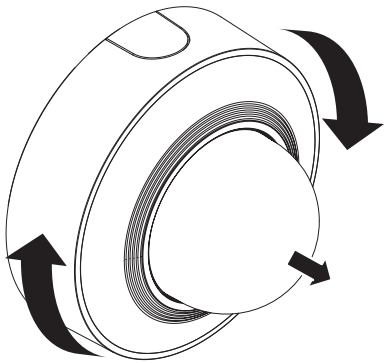


2. Per una telecamera collegata a un tubo, rimuovere il coperchio del tubo dalla copertura mimetica prima di inserirla.

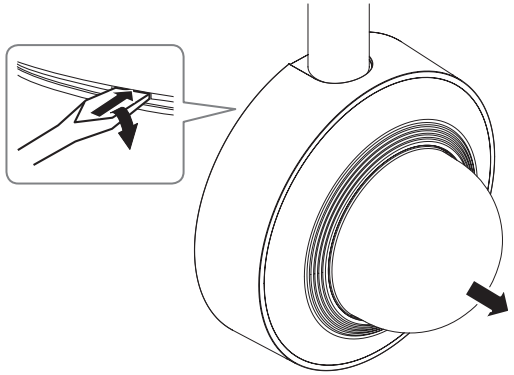


3. Per rimuovere la copertura mimetica, tirarla ruotandola in senso orario come mostrato nella figura.

- L'installazione e rimozione ripetute della copertura mimetica possono deformarla.
- L'installazione e rimozione della copertura mimetica con eccessiva forza possono causare graffi sulla superficie del prodotto.



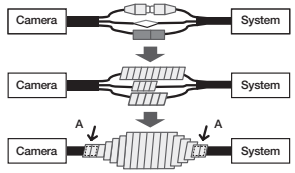
- Quando un tubo è collegato, rilasciarlo usando uno strumento adeguato.



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.

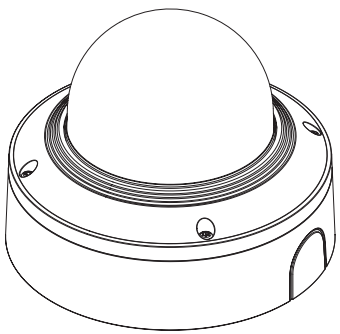
1. Collegare i cavi di alimentazione, I/O e LAN.
2. Avvolgere la guaina del cavo nero (Area A) e l'area di collegamento del cavo con nastro impermeabilizzante (in gomma butilica), in modo da sovrapporre più di metà del nastro in gomma butilica.



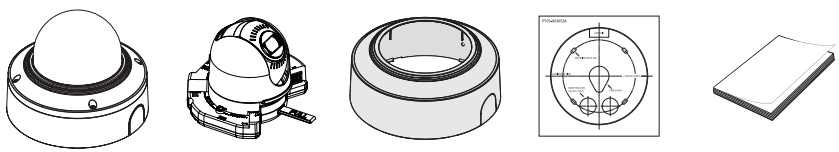
- Se la guaina del cavo non è impermeabilizzata correttamente, può causare direttamente perdite. Accertarsi di proteggere il cavo con uno strato spesso di nastro.
- Il nastro butilico impermeabilizzante è in gomma butilica ed è in grado di allungarsi al doppio della lunghezza normale.

ACCESSORI FORNITI

In base al Paese di residenza, gli accessori potrebbero variare.



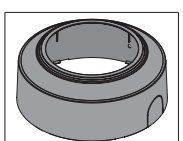
<XND-6081VZ/XND-8081VZ>



Colore: Avorio

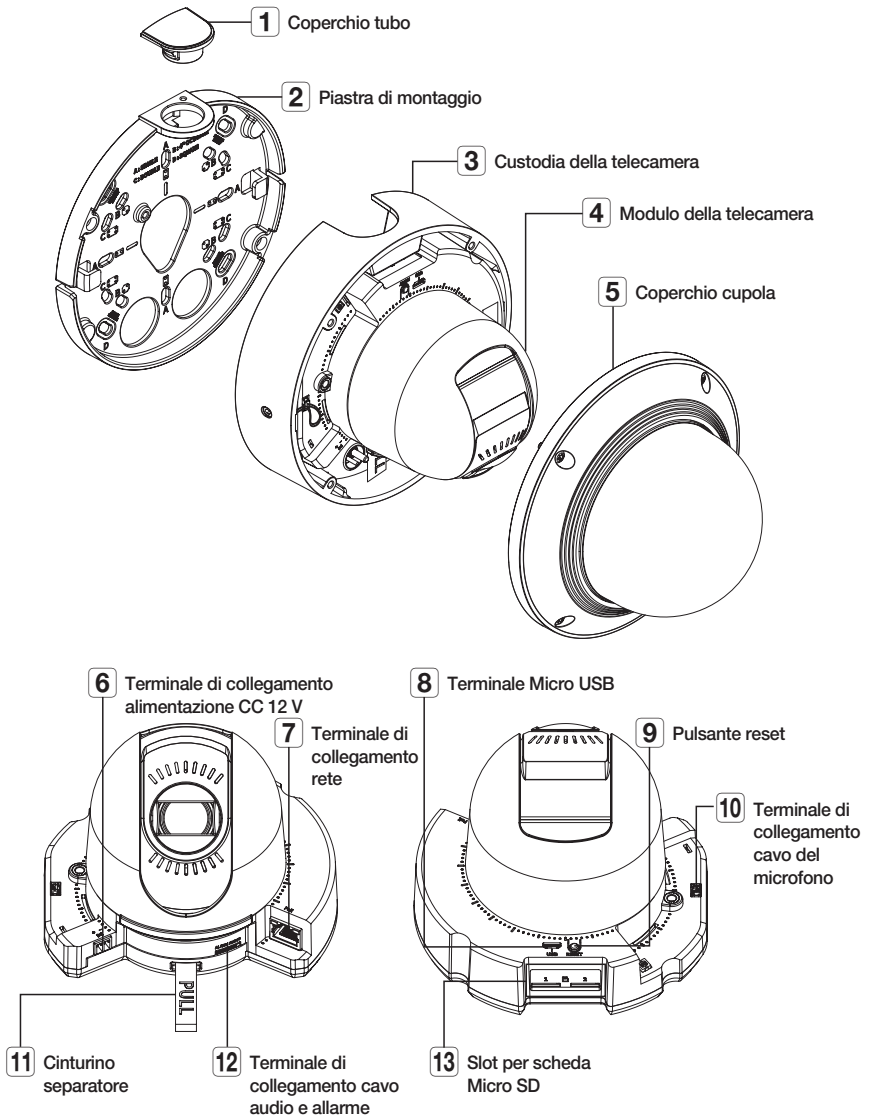


Opzione (venduta separatamente)



SBC-160B
(Colore: Nero)

SGUARDO D'INSIEME



INSTALLAZIONE

- La presente telecamera è impermeabile e conforme alla classe di protezione IP52, 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.

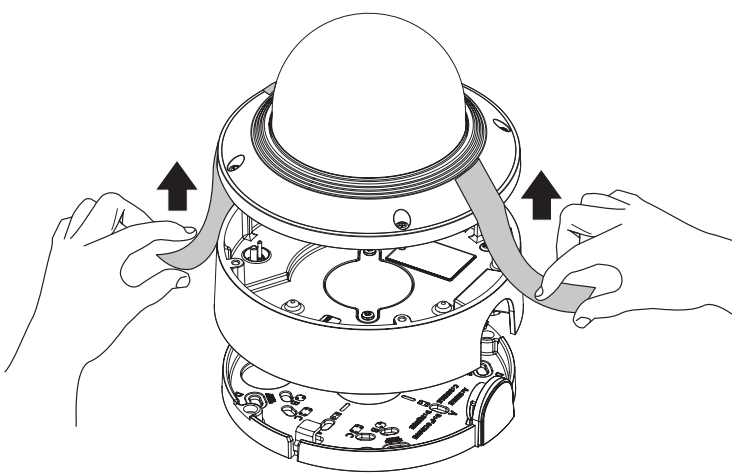
Precauzioni prima dell'installazione

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

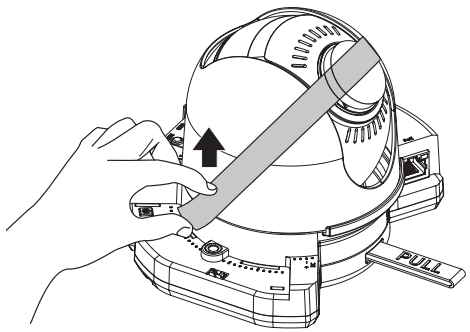
- Selezionare un sito per l'installazione che sia in grado di supportare almeno 5 volte il peso della telecamera.
- I cavi bloccati o spelati possono danneggiare il prodotto o provocare incendi.
- Per motivi di sicurezza, allontanare tutte le persone dal luogo di installazione.
  E, se necessario, disporre le proprie cose lontano dal sito.
- Se il prodotto viene installato con una forza eccessiva, potrebbe causare danni alla telecamera a causa di un malfunzionamento. Forzare l'assemblaggio utilizzando strumenti non conformi potrebbe danneggiare il prodotto.

Rimozione

1. Staccare il nastro che fissa la custodia della telecamera.

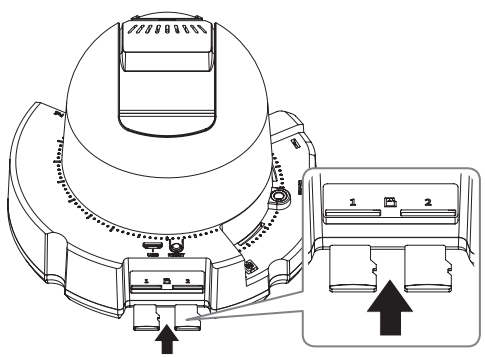


2. Staccare il nastro attaccato al modulo della telecamera.



Inserimento di una scheda di memoria Micro SD

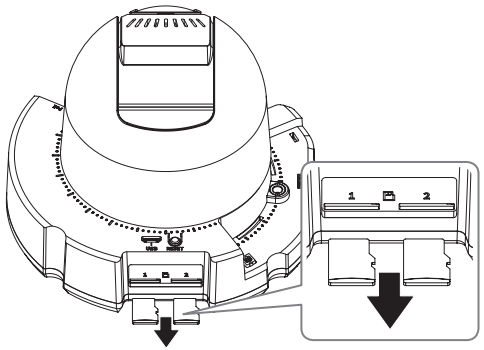
Far scorrere la scheda Micro SD nello slot Micro SD sul modulo della telecamera nella direzione della freccia.



- Prima di installare la telecamera, è necessario inserire la scheda di memoria Micro SD quando la fonte di alimentazione e il corpo sono separati.
- Non inserirlo forzando nella direzione opposta. Potrebbe danneggiare la scheda di memoria Micro SD e il prodotto.
- Quando piove e si ha un alto livello di umidità, non è consigliabile inserire o estrarre una scheda Micro SD.
- Quando si installa/rimuove la scheda di memoria Micro SD, accertarsi di collocare il corpo del prodotto su una superficie piana prima di lavorarci per evitare incidenti dovuti alla perdita o alla caduta di componenti.

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.

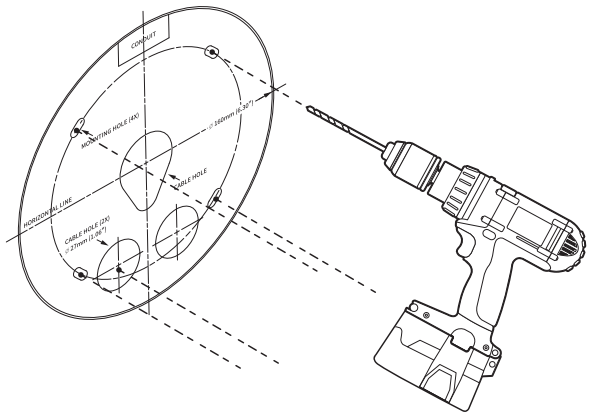


- Si noti che se si spinge e si rilascia con decisione la scheda di memoria Micro SD quando viene espulsa, la stessa potrebbe fuoriuscire.
- Prima di rimuovere la scheda di memoria micro SD, andare a <**Memorizz.**>, e impostare il dispositivo su <**Off**> quindi premere il tasto [**Applica**] e spegnere 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.

Installazione (piastra di montaggio)

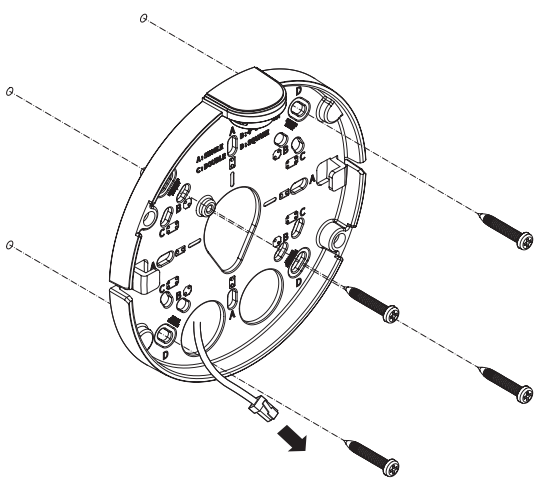
[Installazione diretta a parete/soffitto]

1-1. Attaccare il modello per l'installazione sulla superficie desiderata e praticare i fori per le viti e i cavi.



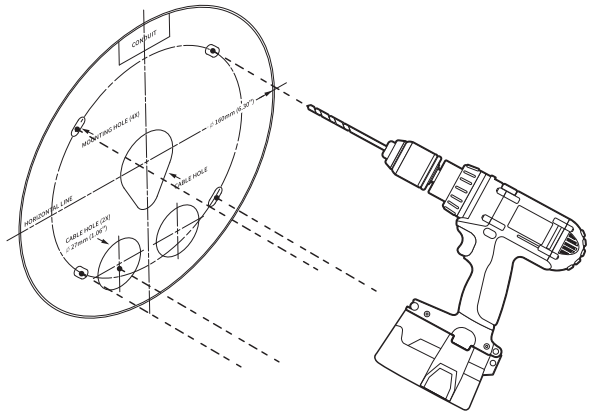
1-2. Fissare la piastra di montaggio utilizzando le viti appropriate.

1-3. Estrarre i cavi necessari tra i cavi LAN/alimentazione/audio e allarme attraverso il foro sulla piastra di montaggio.

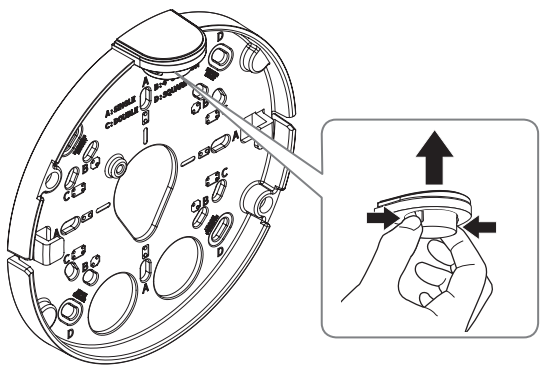


[Installazione tramite tubo]

2-1. Attaccare il modello per l'installazione e praticare i fori per le viti e i cavi.



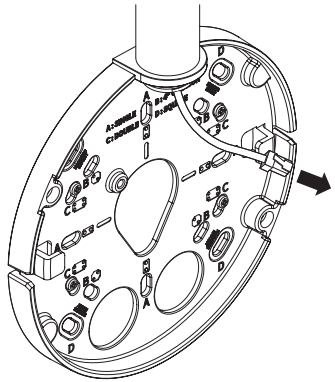
2-2. Separare il coperchio del tubo della piastra di montaggio premendo sui lati.



2-3. Posizionare il tubo sulla piastra di montaggio.

2-4. Fissare la piastra di montaggio utilizzando le viti appropriate.

2-5. Estrarre i cavi necessari tra i cavi LAN/alimentazione/audio e allarme attraverso il tubo.



Installazione (custodia della telecamera)

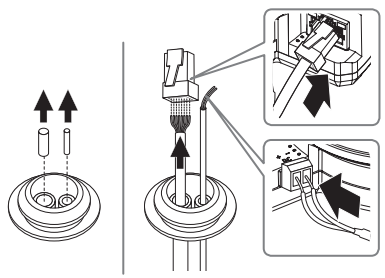
- Utilizzare una boccola compatibile con il cavo LAN da collegare.
  - Telecamera principale: utilizzare un cavo con diametro compreso tra Ø5 a 6,5
  - Componenti: utilizzare un cavo con diametro compreso tra Ø5 a 8,5

[Installazione cavi di alimentazione/LAN]

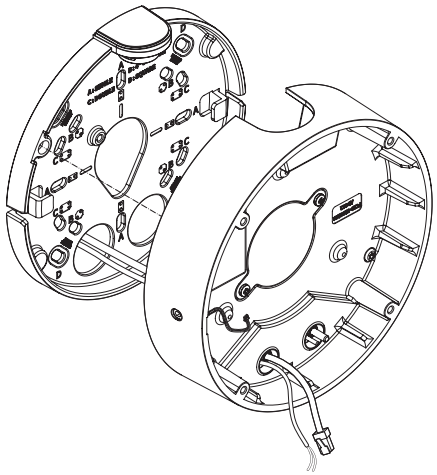
1-1. Estrarre le parti estruse della boccola da utilizzare.

1-2. Inserire il cavo LAN nel foro grande della boccola e collegarlo al connettore LAN.

1-3. (Quando si utilizza l'alimentazione) Inserire il cavo di alimentazione nel foro piccolo della boccola e collegarlo alla morsettiera in dotazione.



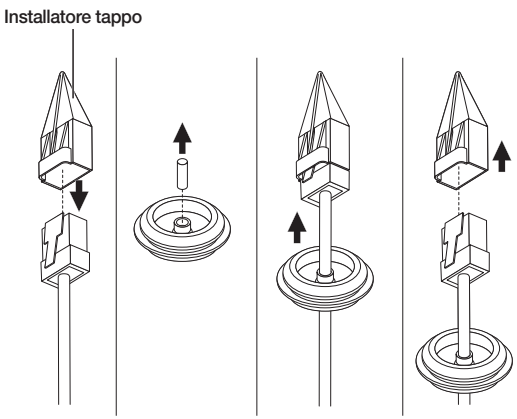
1-4. Montare la boccola sulla custodia della telecamera.



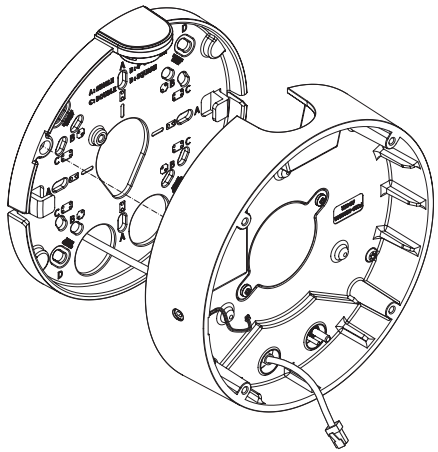
[Installazione del cavo LAN]

2-1. Estrarre la parte estrusa della boccola a 1 foro in dotazione.

2-2. Utilizzare l'installazione per il tappo per passare attraverso il cavo RJ45.

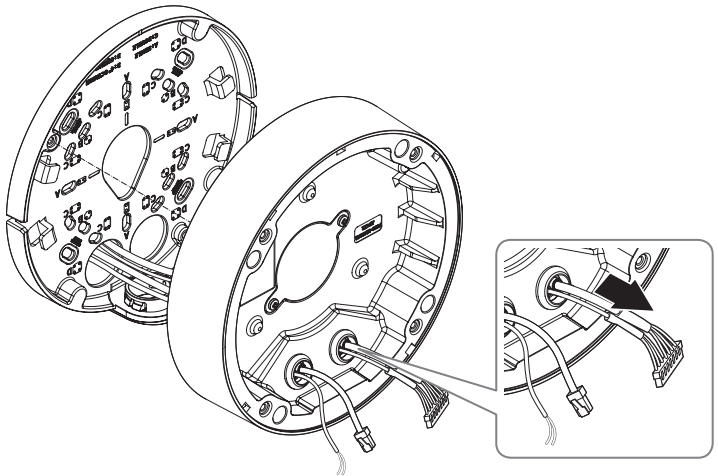


2-3. Montare la boccola sulla custodia della telecamera.

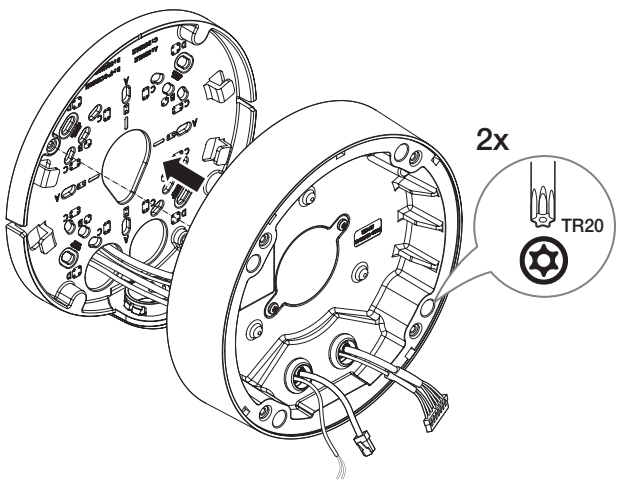


[Installazione di cavi audio e allarme]

3-1. Montare la boccola dei cavi audio e allarme in dotazione sulla custodia della telecamera.



4. Unire la piastra di montaggio con la custodia della telecamera.



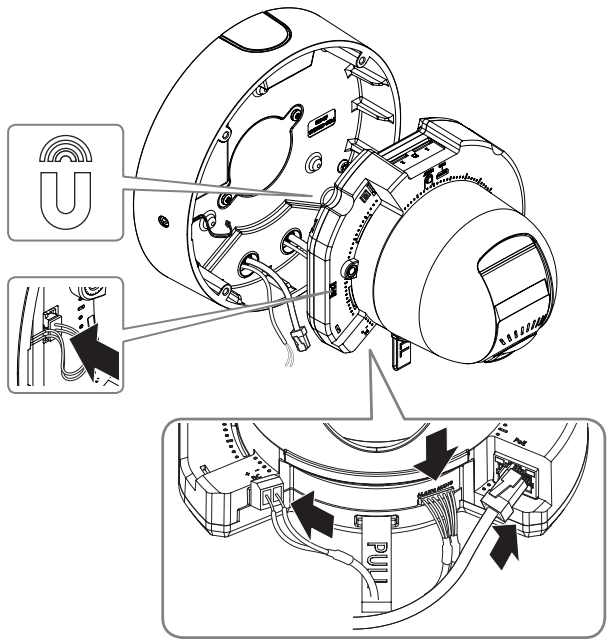
Installazione del modulo della telecamera

1. Collegare i cavi LAN/alimentazione/audio e allarme al terminale del modulo della telecamera.

2. Attaccare il modulo della telecamera alla custodia.

- Un magnete è incorporato nella parte inferiore del modulo.
- Fare attenzione a non lasciare oggetti estranei tra le superfici di attacco.

3. Collegare il cavo del microfono al modulo della telecamera.



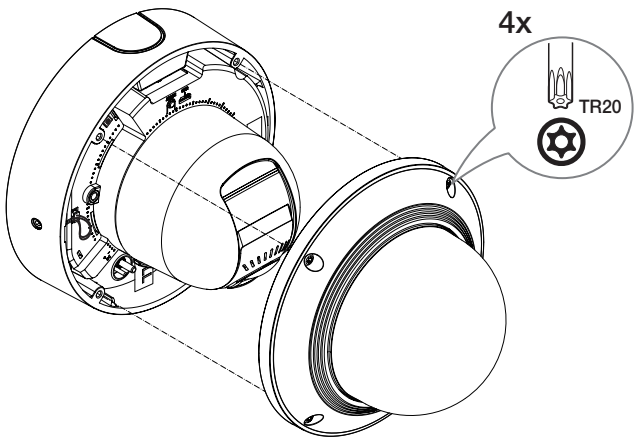
4. Regolare l'obiettivo nella direzione desiderata facendo riferimento alla sezione "**Regolazione della direzione di monitoraggio della videocamera**". (pagina 33)

Assemblaggio del coperchio a cupola

[Installazione diretta a parete/soffitto]

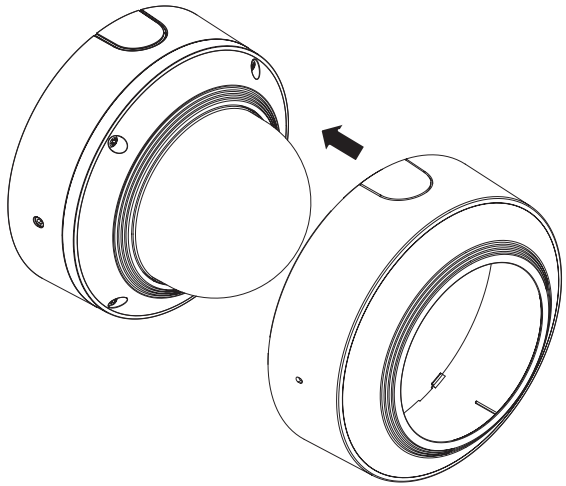
1. Assemblare il coperchio a cupola.

- Accertarsi di stringere saldamente le viti di fissaggio in modo che non possa penetrare acqua provocando danni.

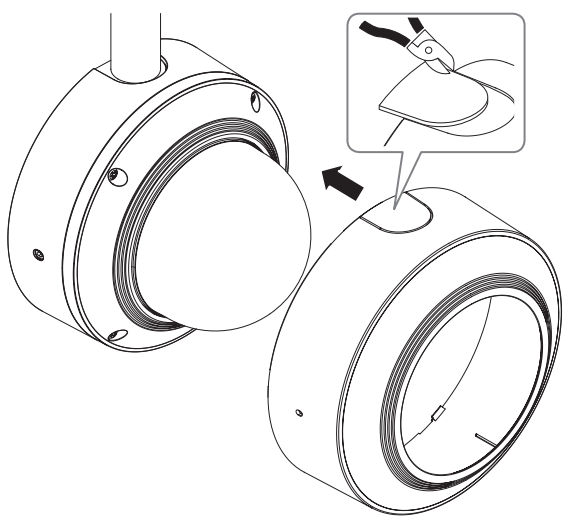


Applicazione/rimozione della copertura mimetica

1. Inserire la copertura mimetica allineata con il coperchio del tubo.

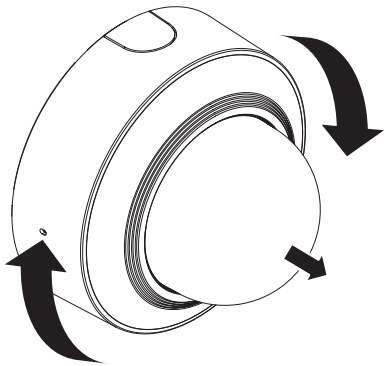


2. Per una telecamera collegata a un tubo, rimuovere il coperchio del tubo dalla copertura mimetica prima di inserirla.

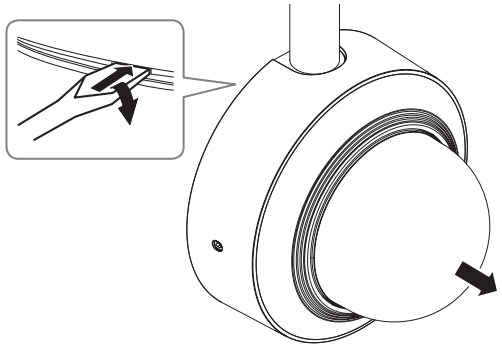


3. Per rimuovere la copertura mimetica, tirarla ruotandola in senso orario come mostrato nella figura.

- L'installazione e rimozione ripetute della copertura mimetica possono deformarla.
- L'installazione e rimozione della copertura mimetica con eccessiva forza possono causare graffi sulla superficie del prodotto.



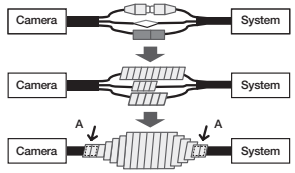
- Quando un tubo è collegato, rilasciarlo usando uno strumento adeguato.



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.

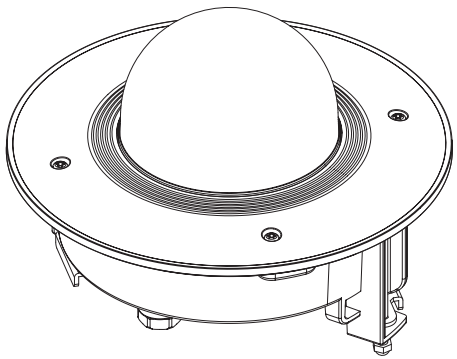
1. Collegare i cavi di alimentazione, I/O e LAN.
2. Avvolgere la guaina del cavo nero (Area A) e l'area di collegamento del cavo con nastro impermeabilizzante (in gomma butilica), in modo da sovrapporre più di metà del nastro in gomma butilica.



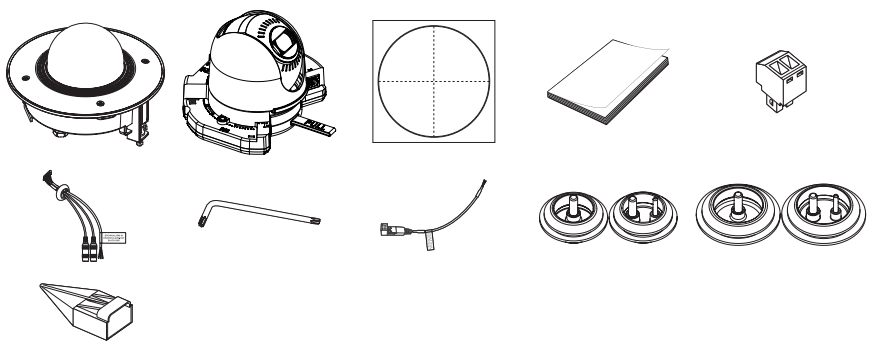
- Se la guaina del cavo non è impermeabilizzata correttamente, può causare direttamente perdite. Accertarsi di proteggere il cavo con uno strato spesso di nastro.
- Il nastro butilico impermeabilizzante è in gomma butilica ed è in grado di allungarsi al doppio della lunghezza normale.

ACCESSORI FORNITI

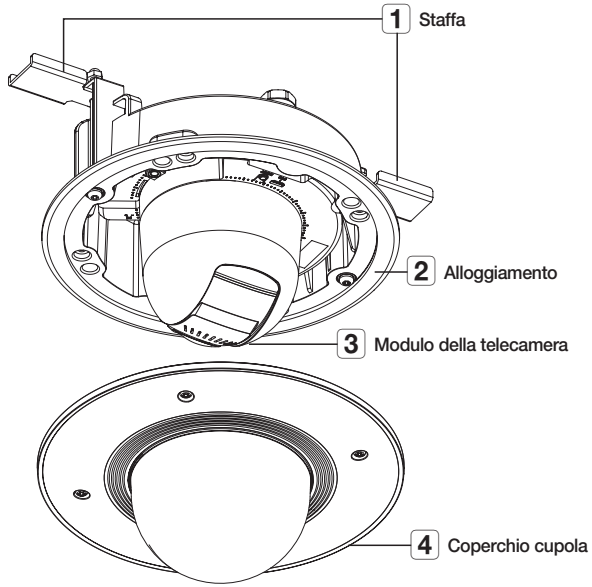
In base al Paese di residenza, gli accessori potrebbero variare.

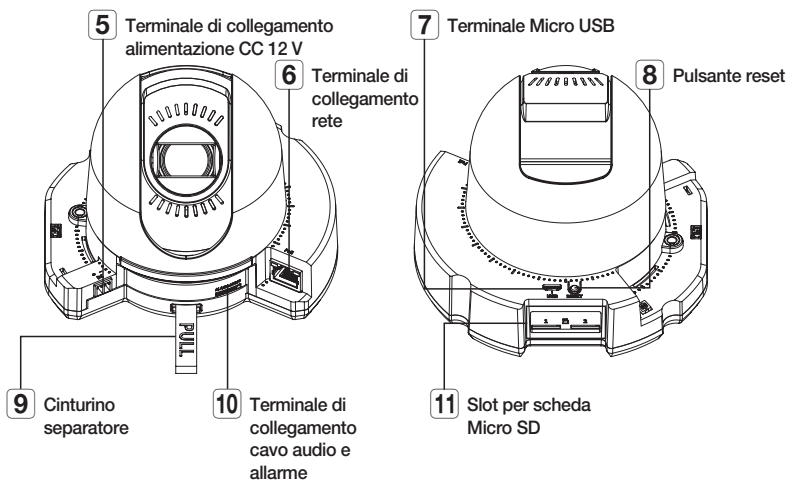


<XND-6081FZ/XND-8081FZ>



SGUARDO D'INSIEME





INSTALLAZIONE

- La presente telecamera è impermeabile e conforme alla classe di protezione IP52, 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.

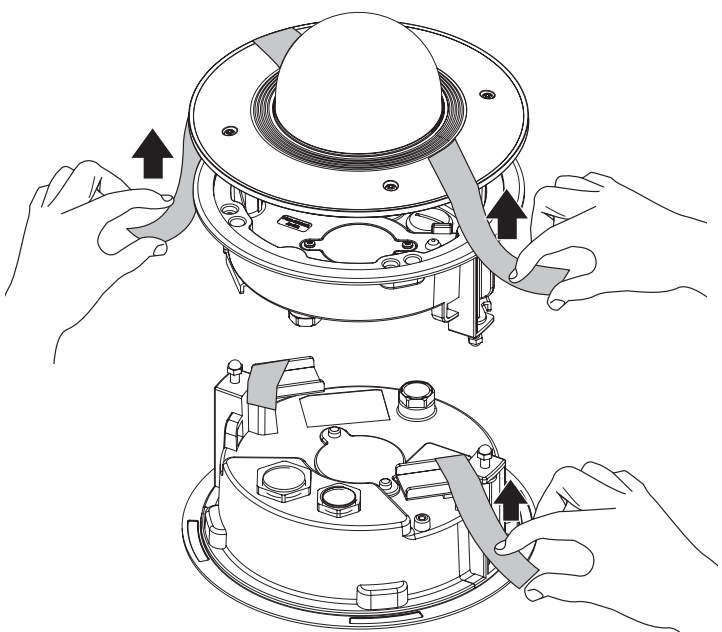
Precauzioni prima dell'installazione

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

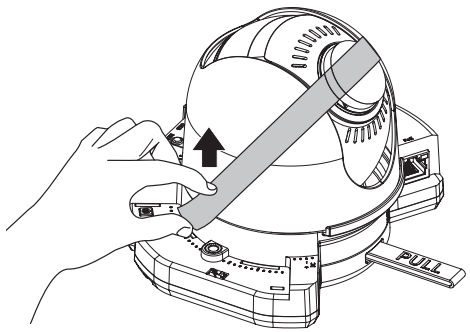
- Selezionare un sito per l'installazione che sia in grado di supportare almeno 5 volte il peso della telecamera.
- I cavi bloccati o spelati possono danneggiare il prodotto o provocare incendi.
- Per motivi di sicurezza, allontanare tutte le persone dal luogo di installazione.
  E, se necessario, disporre le proprie cose lontano dal sito.
- Se il prodotto viene installato con una forza eccessiva, potrebbe causare danni alla telecamera a causa di un malfunzionamento. Forzare l'assemblaggio utilizzando strumenti non conformi potrebbe danneggiare il prodotto.

Rimozione

1. Staccare il nastro che fissa la custodia della telecamera.

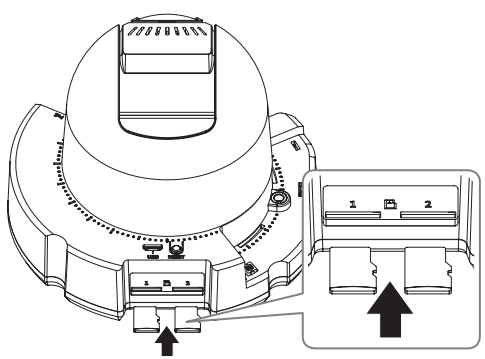


2. Staccare il nastro attaccato al modulo della telecamera.



Inserimento di una scheda di memoria Micro SD

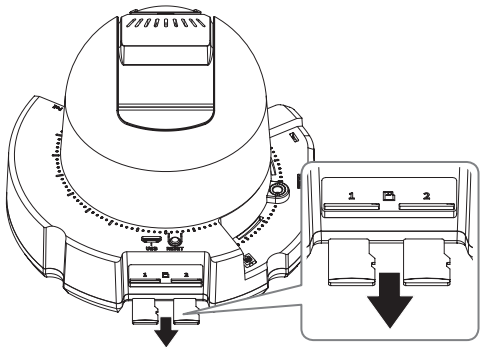
Far scorrere la scheda Micro SD nello slot Micro SD sul modulo della telecamera nella direzione della freccia.



- Prima di installare la telecamera, è necessario inserire la scheda di memoria Micro SD quando la fonte di alimentazione e il corpo sono separati.
- Non inserirlo forzando nella direzione opposta. Potrebbe danneggiare la scheda di memoria Micro SD e il prodotto.
- Quando piove e si ha un alto livello di umidità, non è consigliabile inserire o estrarre una scheda Micro SD.
- Quando si installa/rimuove la scheda di memoria Micro SD, accertarsi di collocare il corpo del prodotto su una superficie piana prima di lavorarci per evitare incidenti dovuti alla perdita o alla caduta di componenti.

Rimozione di una scheda di memoria Micro SD

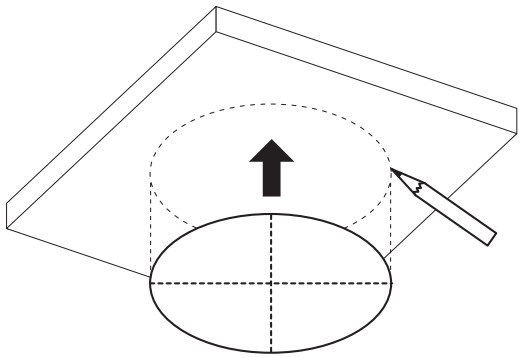
Premere delicatamente sulla fine esposta della scheda di memoria come mostrato nel diagramma per espellere la scheda di memoria dallo slot.

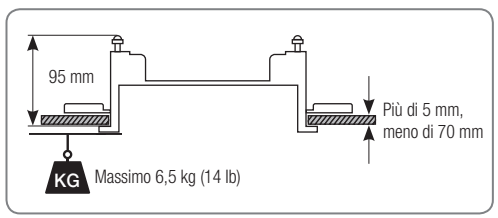


- Si noti che se si spinge e si rilascia con decisione la scheda di memoria Micro SD quando viene espulsa, la stessa potrebbe fuoriuscire.
- Prima di rimuovere la scheda di memoria micro SD, andare a <**Memorizz.**>, e impostare il dispositivo su <**Off**> quindi premere il tasto [**Applica**] e spegnere 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.

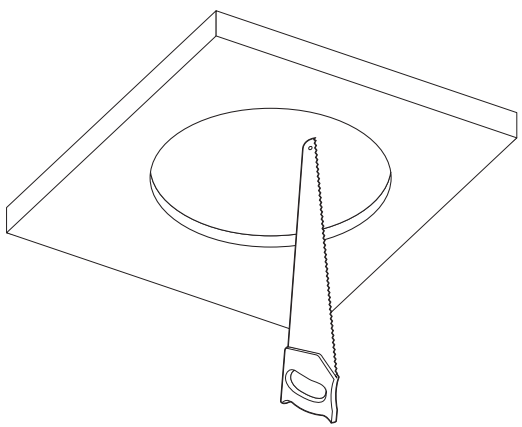
Installazione (alloggiamento)

1. Attaccare il modello per l'installazione al soffitto e segnare la posizione con una matita.





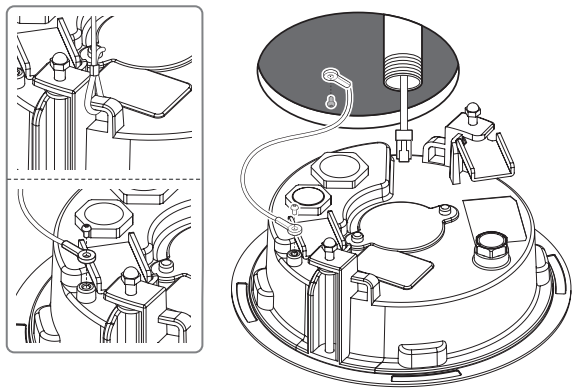
2. Attaccare il modello per l'installazione e praticare i fori.



3. Collegare il cavo di sicurezza.

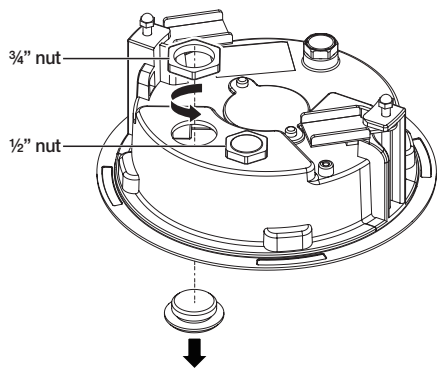
- Il cavo di sicurezza non è in dotazione.

per esempio

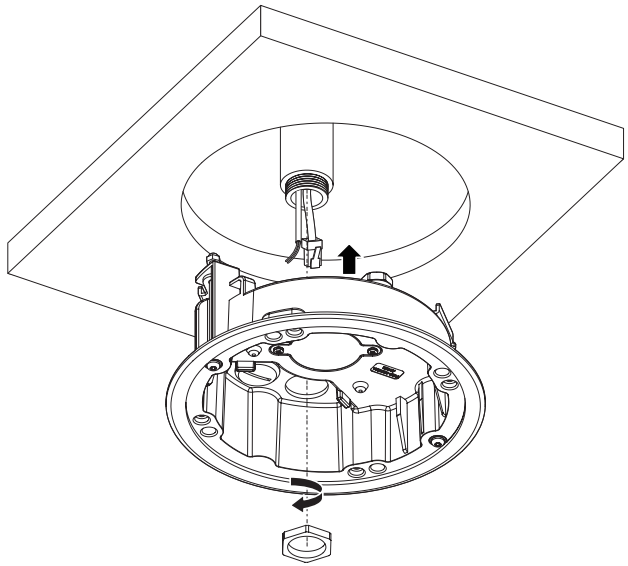


[Tramite tubo]

4-1. Installare il tubo in un foro di montaggio.



4-2. Estrarre i cavi necessari tra i cavi LAN/alimentazione/audio e allarme attraverso il tubo.



Installazione (custodia della telecamera)

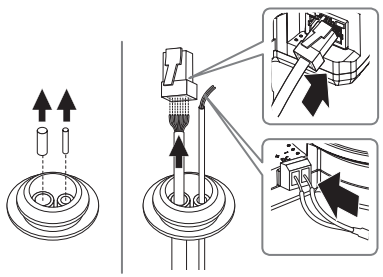
- Utilizzare una boccola compatibile con il cavo LAN da collegare.
  - Componenti: utilizzare un cavo con diametro compreso tra Ø5 a 8,5

[Installazione cavi di alimentazione/LAN]

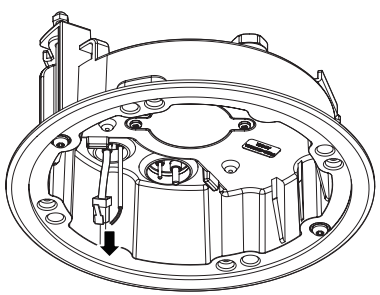
1-1. Estrarre le parti estruse della boccola da utilizzare.

1-2. Inserire il cavo LAN nel foro grande della boccola e collegarlo al connettore LAN.

1-3. (Quando si utilizza l'alimentazione) Inserire il cavo di alimentazione nel foro piccolo della boccola e collegarlo alla morsettiera in dotazione.



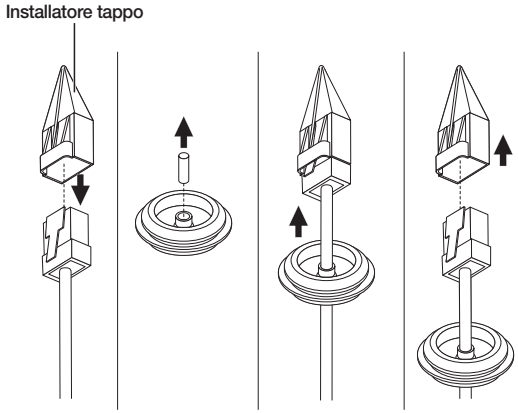
1-4. Montare la boccola sull'alloggiamento.



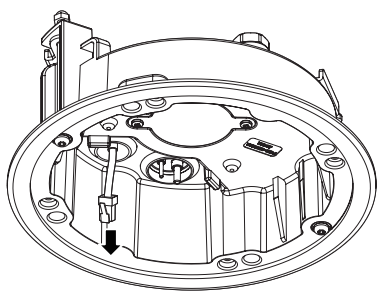
[Installazione del cavo LAN]

2-1. Estrarre la parte estrusa della boccola a 1 foro in dotazione.

2-2. Utilizzare l'installazione per il tappo per passare attraverso il cavo RJ45.

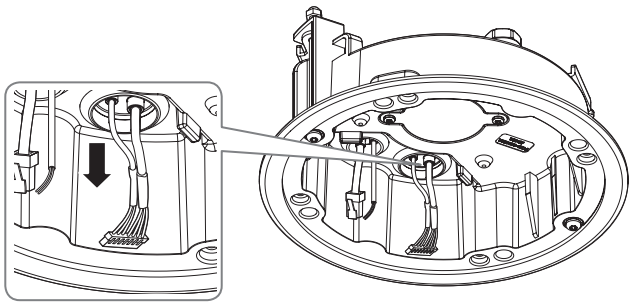


2-3. Montare la boccola sull'alloggiamento.



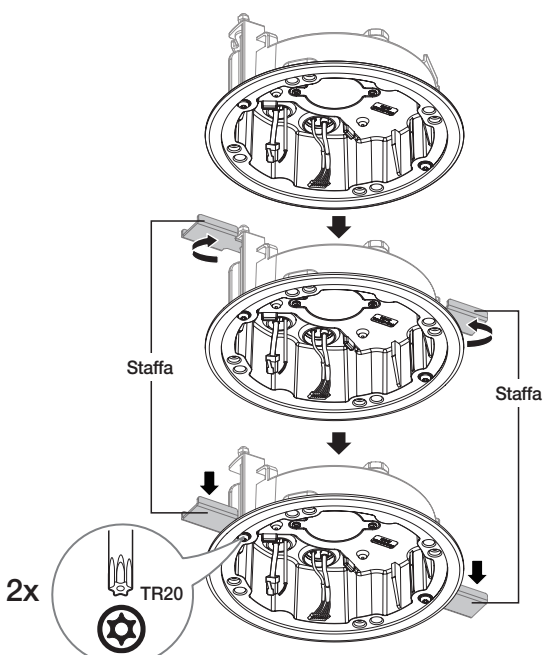
[Installazione di cavi audio e allarme]

3-1. Montare la boccola dei cavi audio e allarme in dotazione sulla custodia della telecamera.



4. Girare le viti sull'alloggiamento per fissarlo al soffitto.

- La staffa fisserà l'alloggiamento al soffitto.
- Assicurarsi che l'alloggiamento sia saldamente fissato al soffitto.

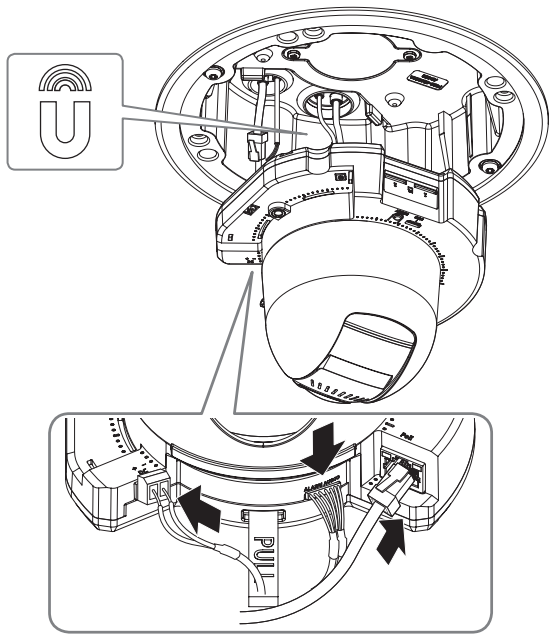


Installazione del modulo della telecamera

1. Collegare i cavi LAN/alimentazione/audio e allarme al terminale del modulo della telecamera.

2. Attaccare il modulo della telecamera alla custodia.

- Un magnete è incorporato nella parte inferiore del modulo.
- Fare attenzione a non lasciare oggetti estranei tra le superfici di attacco.

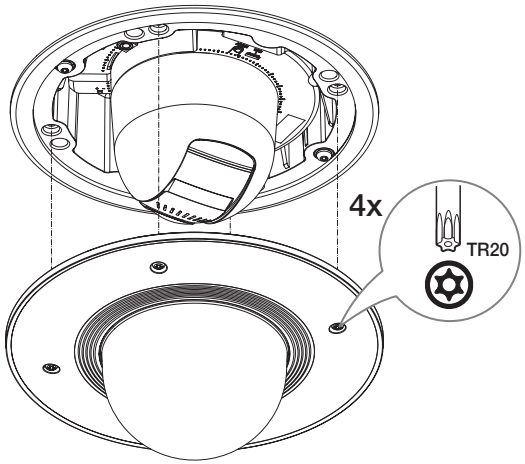


3. Regolare l'obiettivo nella direzione desiderata facendo riferimento alla sezione "**Regolazione della direzione di monitoraggio della videocamera**". (pagina 33)

Assemblaggio del coperchio a cupola

1. Assemblare il coperchio a cupola.

- Accertarsi di stringere saldamente le viti di fissaggio in modo che non possa penetrare acqua provocando danni.

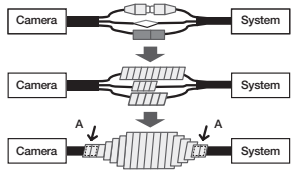


Installazione all'esterno

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 e LAN.

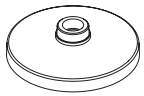
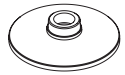
2. Avvolgere la guaina del cavo nero (Area A) e l'area di collegamento del cavo con nastro impermeabilizzante (in gomma butilica), in modo da sovrapporre più di metà del nastro in gomma butilica.

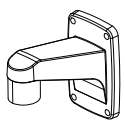
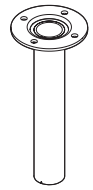


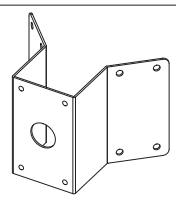
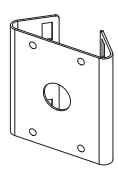
- Se la guaina del cavo non è impermeabilizzata correttamente, può causare direttamente perdite. Accertarsi di proteggere il cavo con uno strato spesso di nastro.
- Il nastro butilico impermeabilizzante è in gomma butilica ed è in grado di allungarsi al doppio della lunghezza normale.

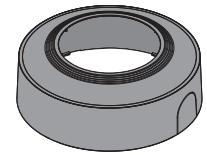
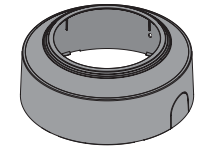
ACCESSORI OPZIONALI PER L'INSTA LLAZIONE

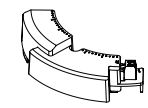
È possibile acquistare gli opportuni accessori opzionali disponibili.

	Montaggio sospeso	Montaggio sospeso
Nome del modello	SBP-187HMW	SBP-167HMW
		
Modello compatibile	XNV-6081Z/8081Z	XND-6081VZ/8081VZ

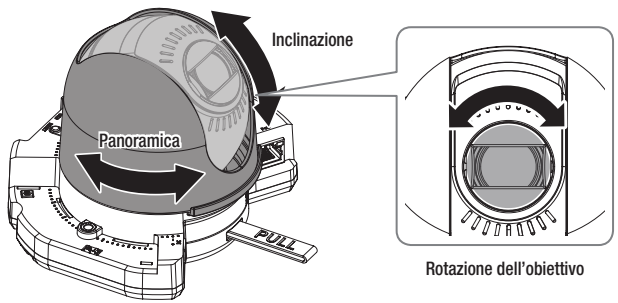
	Montaggio a parete	Montaggio a soffitto
Nome del modello	SBP-300WMW1	SBP-300CMW
		
Modello compatibile	SBP-180HMW/160HMW	SBP-180HMW/160HMW

	Montaggio ad angolo	Montaggio su un palo
Nome del modello	SBP-300KMW	SBP-300PMW
		
Modello compatibile	SBP-300WMW1	SBP-300WMW1

	Copertura mimetica	Copertura mimetica
Nome del modello	SBC-180B (Nero)	SBC-160B (Nero)
		
Modello compatibile	XNV-6081Z/8081Z	XND-6081VZ/8081VZ

	Modulo di alimentazione CA 24 V
Nome del modello	SPC-100AC
	
Modello compatibile	XNV-6081Z/8081Z

Regolazione della direzione di monitoraggio della videocamera



▪ Regolazione della direzione di monitoraggio

È possibile regolare la direzione della videocamera solo quando la videocamera è fissata al soffitto. A questo punto, la rotazione dell'unità principale della telecamera verso sinistra o verso destra viene chiamata PAN, e la regolazione dell'angolo della telecamera viene chiamata INCLINAZIONE.

- La panoramica ha un campo effettivo totale di ±175 gradi.
- La somma degli angoli di rotazione è di ± 175 al massimo.
- L'inclinazione ha un campo effettivo totale di 85 gradi.

▪ Con 75˚ o più angoli di inclinazione, in alcune parti dello schermo può verificarsi un blocco della visualizzazione o un'immagine sbavata a seconda dell'ingrandimento dello zoom.

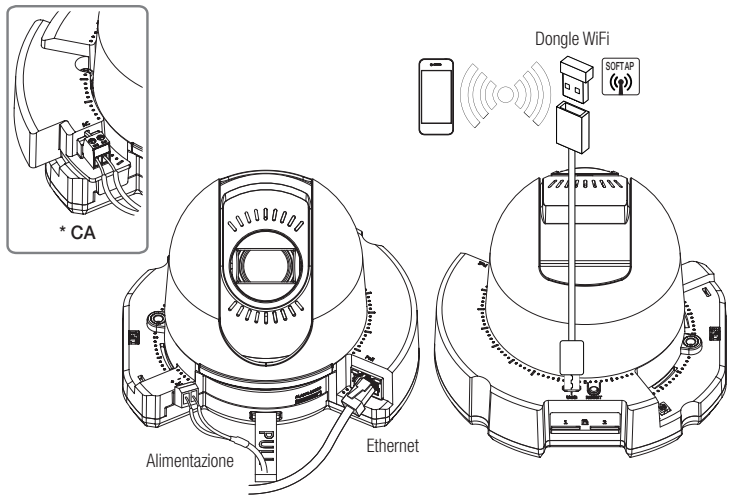
▪ Non ruotare forzatamente o premere l'obiettivo per la messa a fuoco/zoom. In caso contrario, la messa a fuoco potrebbe non funzionare correttamente a causa di un guasto del motore.

▪ Metodi di regolazione

1. Regolare l'angolo della panoramica tenendo conto della direzione da monitorare.
2. Regola l'angolo orizzontale in modo che il video non si capovolga quando viene ruotato.
3. Regolare l'angolo d'inclinazione verso la direzione da monitorare.

▪ Non regolarlo direttamente a mano.
Accedere al visualizzatore Web per regolare la direzione da monitorare.

COLLEGAMENTO CON ALTRI DISPOSITIVI



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

Collegamento Ethernet

Collegare il cavo Ethernet alla rete locale o a Internet.

Connessione WiFi

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
   - 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.

- Se le sorgenti di alimentazione PoE e CC 12 V sono contemporaneamente accese, l'alimentazione del dispositivo verrà fornita da entrambe.
  - Si può anche utilizzare un router PoE per alimentare la telecamera.
  - Utilizzare un'alimentazione PoE conforme ai protocolli IEEE 802.3af.
- Fare attenzione a non invertire la polarità quando si collega il cavo di alimentazione.
- L'alimentazione CA è disponibile dopo l'acquisto di un modulo CA (SPC-100AC).
  - Modelli: XNV-6081Z/XNV-8081Z
  - Se le sorgenti di alimentazione PoE e CA 24 V sono contemporaneamente accese, verrà utilizzata la fonte di alimentazione esterna (CA 24 V).
  - CA 24 V può essere collegata come non polare.
- 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.

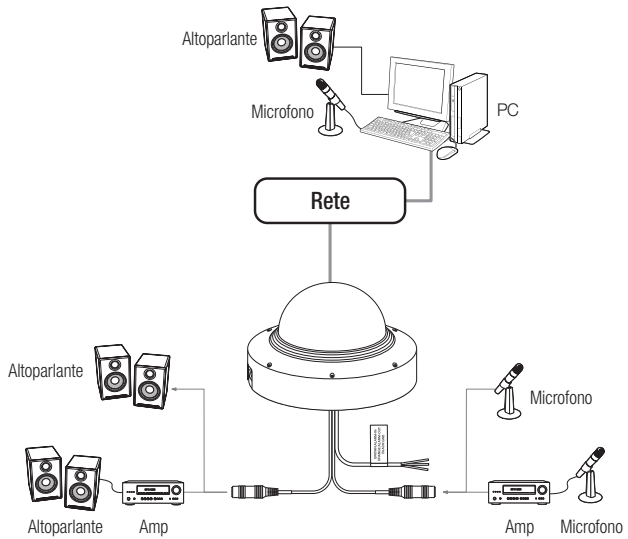
Caratteristiche tecniche per i cavi di alimentazione di ogni modello

Modello	Alimentazione di ingresso	Tipo di cavo (AWG)	Lunghezza del cavo (Max.)
XND-6081FZ/VZ XND-8081FZ/VZ	DC 12V	#18	27m
		#20	17m
XNV-6081Z/ XNV-8081Z	DC 12V	#18	24m
		#20	15m
	AC 24V	#18	40m
		#20	28m

Caratteristiche tecniche del cavo di rete

Unità	Contenuti	Osservazione
Connettore	RJ45 (10/100BASE-T)	
Ethernet	10/100BASE-T	
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.

   ▪ È possibile utilizzare il microfono interno della telecamera senza collegare un microfono esterno (applicabile solo per XND-6081VZ/XND-8081VZ).

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 (XND-6081VZ/XND-8081VZ)** : Selezionabile (microfono/Linea in entrata/microfono integrato), tensione supportata: 2.5VDC (4mA), impedenza in entrata: 2K Ohm
- **Audio in (XND-6081FZ/XND-8081FZ/XNV-6081Z/XNV-8081Z)** : 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

▪ Nel caso in cui si acceda al visualizzatore Web e si selezioni un microfono esterno come sorgente di ingresso audio in <**Video & Audio**> - <**Impostazioni audio**>, si raccomandano le seguenti specifiche:

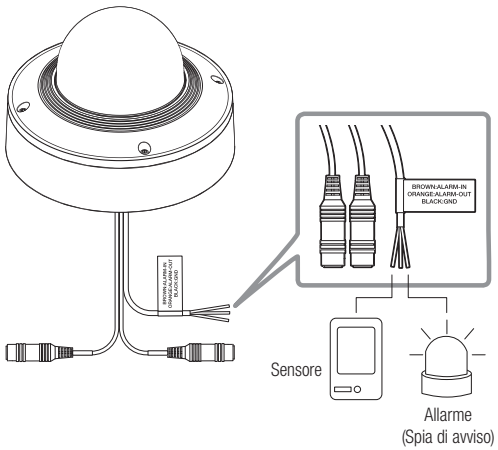
- Intervallo di frequenze: 40-16.000 Hz
- Impedenza: 1.500 Ω
- Sensibilità: -40±3 dB (7,1-14,1 mV)

▪ In ciascuno dei seguenti casi, le prestazioni della classificazione sonora potrebbero essere degradate o malfunzionanti:

- Se dei suoni di spari vengono uditi continuamente in un breve intervallo di tempo (ad esempio, suono di una mitragliatrice) piuttosto che un singolo colpo di pistola
- Se il rumore è troppo forte per poter distinguere il rumore dal suono target
- Se due o più suoni diversi vengono registrati contemporaneamente
- Se la classificazione sonora viene applicata mentre si utilizza la funzione di rimozione del rumore in un luogo silenzioso
- Se la fonte di battiti di mani o grida è vicina alla telecamera (entro 1 metro)
- Se un suono che non appartiene a nessuna delle categorie di classificazione sonora (suono di aeroplani, suono della sirena, ecc.) viene emesso rumorosamente all'improvviso
- Se il microfono esterno non soddisfa le specifiche raccomandate

Collegamento alla porta I/O

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



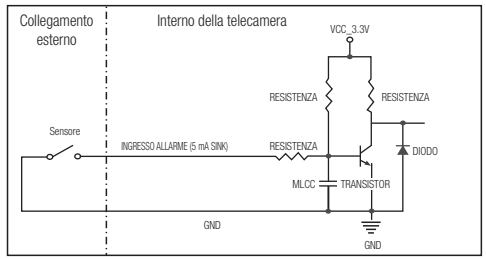
- ALARM-IN : Usato per collegare il sensore di ingresso allarme.
- ALARM-OUT : È utilizzata per collegare il segnale di uscita allarme.
- GND : Porta comune per il segnale di allarme in entrata/uscita.

- 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 36)

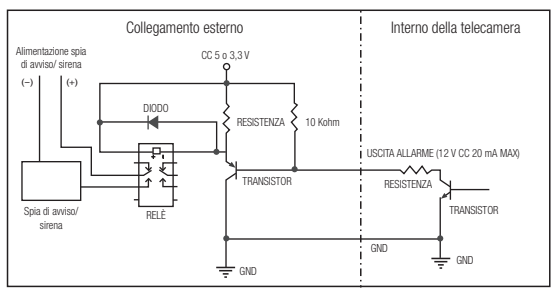
Collegamento del sensore esterno

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

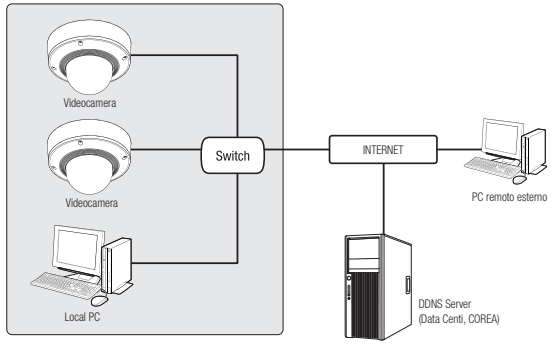


E' possibile impostare le impostazioni di rete secondo le configurazioni di rete.

COLEGARE LA VIDEOCAMERA DIRETTAMENTE ALL'AREA LOCALE DELLA RETE

Collegare la videocamera da un PC locale nella LAN

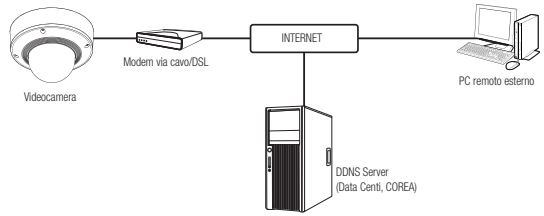
1. Lanciare un browser internet sul PC locale.
2. Inserire un indirizzo IP della fotocamera nella barra dell'indirizzo del browser.



<Rete locale>

- Un PC remoto in un internet esterno fuori dalla rete LAN può non essere in grado di collegarsi alla fotocamera istallata 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.
- 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 38)

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



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

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

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.

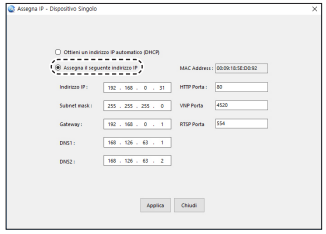
CONFIGURAZIONE DELL'INDIRIZZO IP

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.



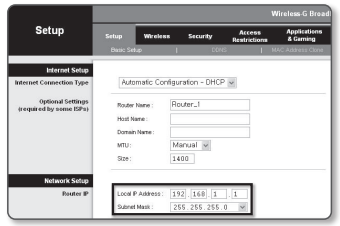
Se non si usa un router a banda larga

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 interva llo porte (mappat ura della porte)**". (Pagina 40)

Se al router a banda larga sono collegate più videocamere

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

Es)

Categoria		Videoc #1	Videoc #2
Impostazioni correlate dell'IP	Indirizzo IP Subnet Mask Gateway	192.168.1.100 255.255.255.0 192.168.1.1	192.168.1.101 255.255.255.0 192.168.1.1
Impostazioni correlate della porta	HTTP Porta VNP Porta RTSP Porta	8080 4520 554	8081 4521 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

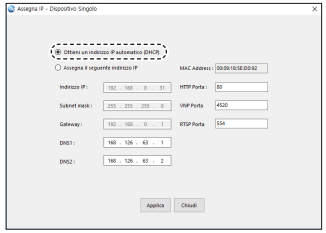
5. Fare clic sul pulsante [**Applica**].
6. Se viene visualizzato il messaggio di successo, fare clic su [**OK**].

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

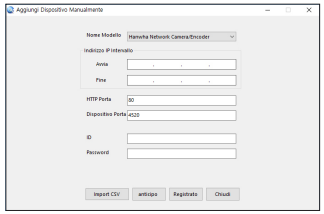
1. Dall'elenco, fare clic sulla telecamera di cui si desidera modificare l'impostazione IP.
2. Fare clic su <**IP assegnare**> nella pagina principale di Device manager.
3. Selezionare <**Ottieni un indirizzo IP automatico (DHCP)**>.
4. Fare clic sul pulsante [**Applica**].
5. Se viene visualizzato il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



REGISTRAZIONE MANUALE DELLA TELECAMERA

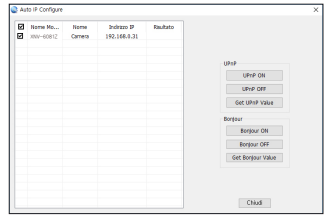
Se non è possibile trovare la telecamera utilizzando la funzione di ricerca, la telecamera può essere registrata a distanza inserendo manualmente le informazioni IP, se la telecamera è collegata a una rete esterna.

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.



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**].

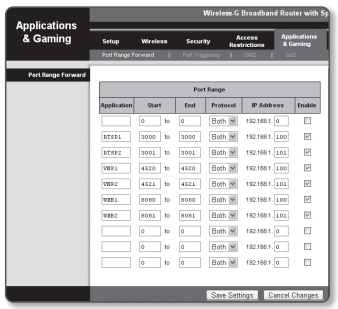


IMPOSTAZIONE DELL'INOLTRO INTERVA LLO PORTE (MAPPAT URA DELLA PORTE)

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

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.

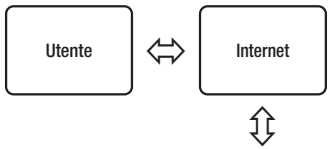


- L'impostazione di inoltro della porta è un esempio di impostazione del router IP CISCO.
- Le impostazioni possono differire a seconda del modello di router a banda larga collegato.
  Per ulteriori informazioni, consultare il manuale utente del router.

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 :



Router a banda larga			
Inizia	Fine	Protocollo	Indirizzo IP
3000	3000	TCP/UDP	192.168.1.100
3001	3001	TCP/UDP	192.168.1.101
4520	4520	TCP/UDP	192.168.1.100
4521	4521	TCP/UDP	192.168.1.101
8080	8080	TCP/UDP	192.168.1.100
8081	8081	TCP/UDP	192.168.1.101

Videocamera 1 (192.168.1.100)	
Porta HTTP	8080
Porta disp.	4520
Porta RTSP	3000

Videocamera 2 (192.168.1.101)	
Porta HTTP	8081
Porta disp.	4521
Porta RTSP	3001

- 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.

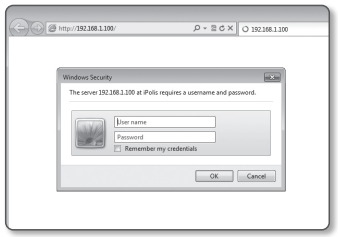
1. Prima di accedere alla videocamera nella rete del router a banda larga, bisogna aver impostato l'inoltro intervallo porte per il router a banda larga.
2. Dal PC remoto, avviare il browser Internet e digitare l'indirizzo URL DDNS della videocamera o l'indirizzo IP del router a banda larga nella barra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

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

COLLEGAMENTO ALLA VIDEOCAMERA

Caso normale

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



Se la porta HTTP è diversa da 80

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

Utilizzo dell'URL

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

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

Connessione tramite UPnP

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

Connessione tramite Bonjour

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

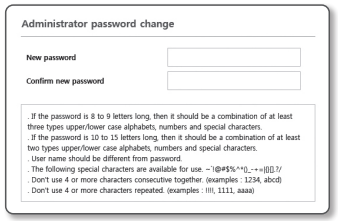
Per controllare l'indirizzo DDNS

Se la fotocamera è collegata direttamente a un modem via cavo o DSL basato su DHCP, l'indirizzo IP cambierà ogni volta che viene effettuato un tentativo di connettersi all'ISP (la società a cui si è abbonati). In questo caso, l'utente non viene informato che l'indirizzo IP è cambiato dal DDNS.

Una volta registrato un dispositivo con IP dinamico nel server DDNS, è possibile controllare facilmente l'IP cambiato quando si prova ad accedere al dispositivo.
Per registrare il dispositivo sul server <**DDNS**>, visitare il sito http://ddns.hanwha-security.com e, per prima cosa, registrare il dispositivo. Quindi impostare <**Rete**> - <**DDNS**> del visualizzatore Web su <**DDNS**> e inserire il <**ID prodotto**> precedentemente utilizzato per la registrazione del DDNS.

CONFIGURAZIONE DELLA PASSWORD

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

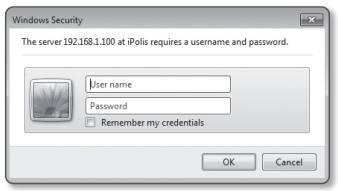


- Per una nuova password da 8 a 9 cifre, è necessario usare almeno 3 dei seguenti elementi: lettere maiuscole/minuscole, numeri e caratteri speciali. Per una password da 10 a 15 cifre, è necessario utilizzare almeno 2 degli elementi precedentemente elencati.
  - Caratteri speciali permessi. : ~`!@#$%^*()_-+=|{}[].?/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

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.
Quali sono le specifiche per i file WAVE necessari per riprodurre l'audio al momento di un evento?	• Si consiglia una frequenza di campionamento di 48.000 KHz o inferiore. • Per bit per campione (bps), si consigliano fino a 8/16 bit. • È supportato solo il formato di codifica PCM.
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 capacedi 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.
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
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.
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 dei 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 dei 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.

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

LGPL SW

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

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- Version 1.1

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It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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

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T-License [License Agreement for Source Code of T-Kernel]

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

Article 1. Scope of License Agreement

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

Article 2. Definition

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

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

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

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

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

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

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

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

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

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

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

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

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

14. "System Developer" means any person who develops the Embedded Product by itself or has a third party develop the same, and provides, whether with or without payment, the End User with the Embedded Product.

15. "Distributor of Modification" means any person who produces the Modified Source Code and, whether with or without payment, distributes the same to any third party.

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

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

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

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

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

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

Article 3. Copyright

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

Article 4. License of Source Code

1. As provided for in this Article, T-Engine Forum shall provide, and grant a license to use, the Source Code free of charge to any person who has taken the necessary procedure for registration as prescribed by T-Engine Forum and agreed to the T-License.

2. The Source Code shall be distributed exclusively by T-Engine Forum. Any person who obtains the Source Code under Article 4.1 above shall not make any re-Distribution of the Source Code.

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1. to copy and/or modify the Source Code provided by T-Engine Forum hereunder for its own research, development and the like.

2. to run the Source Code provided by T-Engine Forum hereunder for its own research, development and the like.

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

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

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

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

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

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

Article 5. Distribution of Modified Source Code

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

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

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

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

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

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

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

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

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

Article 6. Distribution and Registration of the Ported Source Code

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

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

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

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

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

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

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

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

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

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

Article 7. Use for Other Purpose

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

Article 8. Limited Warranty

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

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

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2. In case of breach of this License Agreement by a member of T-Engine Forum, T-Engine Forum may take appropriate measures against the member; for example, the member is disqualified from membership, depending on what kind of breach has been committed by it.

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

Article 11. Governing Law and Language

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2. This License Agreement is executed in both Japanese text and English text provided that the Japanese text shall govern the interpretation and performance of this License Agreement.

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Iperf performance test

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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 (deflate format) and rfc1952.txt (gzip format).



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