

# CÁMARA DE RED

Manual del usuario

QNP-6230/QNP-6230H



# Cámara de Red

## Manual del usuario

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### Marca comercial

Todas las marcas aquí mencionadas están registradas. El nombre de este producto y otras marcas mencionadas en este manual son marcas registradas de sus respectivas compañías.

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❖ El diseño y las especificaciones están sujetos a cambio sin aviso.

❖ El ID inicial del administrador es “admin” y la contraseña debe establecerse al iniciar sesión por primera vez. Por favor, cambie su contraseña cada tres meses para proteger de forma segura la información personal y evitar daños por el robo de información.  
Por favor, tenga en cuenta que es responsabilidad del usuario la seguridad y otros problemas causados por el mal manejo de una contraseña.

## INSTRUCCIONES DE SEGURIDAD IMPORTANTES

1. Lea estas instrucciones.
2. Consérvelas.
3. Atente para todas las advertencias.
4. Siga todas las instrucciones.
5. No utilice este aparato cerca del agua.
6. Limpie el área contaminada en la superficie del producto con un paño seco y suave o un paño húmedo. (No utilice detergente o productos cosméticos que contengan alcohol, disolventes o tensioactivos o constituyentes de aceites, ya que pueden deformar o dañar el producto).
7. No obstruya ninguna apertura de ventilación. Instale el aparato siguiendo las instrucciones del fabricante.
8. No lo instale cerca de ninguna fuente de calor como radiadores, focos de calor o cualquier otro aparato (incluidos los amplificadores) que emita calor.
9. No olvide que la finalidad de los enchufes polarizados o de toma a tierra es proporcionarle seguridad. Un enchufe polarizado tiene dos clavijas, una más ancha que la otra. Un enchufe con toma a tierra tiene dos clavijas y una tercera de toma a tierra. Tanto la clavija más ancha, en el caso del enchufe polarizado, como la clavija adicional, en el caso del enchufe con toma a tierra, tienen como objetivo aportarle seguridad. Si el enchufe del aparato no encaja en su toma de corriente, póngase en contacto con un electricista para cambiar la toma de corriente obsoleta.
10. Evite pisar o doblar el cable de alimentación. Ponga especial cuidado para no hacerlo en enchufes, tomas de corriente y en los puntos en los que salen desde el aparato.
11. Utilice únicamente los dispositivos y accesorios especificados por el fabricante.
12. Utilice sólo las mesitas con ruedas, soportes, trípodes o mesas recomendadas por el fabricante o vendidas con el aparato. Cuando se utilice una mesita con ruedas, tenga cuidado al mover la mesita con ruedas junto con el aparato para evitar daños por vuelco.
13. Desenchufe este aparato durante tormentas eléctricas o cuando no se utilice durante largos períodos de tiempo.
14. Remita todas las reparaciones a personal de mantenimiento cualificado. Es necesario enviar el aparato para su reparación cuando ha sufrido cualquier tipo de daño, como, por ejemplo, que el cable o el enchufe de la alimentación está dañado, se han derramado líquidos sobre el aparato o algún objeto ha caído sobre él, el aparato ha sido expuesto a la lluvia o a humedad, no funciona correctamente o se ha caído al suelo.
15. Este producto se ha diseñado para alimentarse mediante una unidad de alimentación con marca "Clase 2" o "LPS" y con capacidad nominal de 24 VCA (50 o 60 Hz), mín. 1.6 A o PoE(42.5V ~ 57V), mín 0.7 A. (QNP-6230H)
16. Este producto se ha diseñado para alimentarse mediante una unidad de alimentación con marca "Clase 2" o "LPS" y con capacidad nominal de 24 VCA (50 o 60 Hz), mín. 2.9 A o PoE(42.5V ~ 57V), mín 0.9 A. (QNP-6230H)
17. No instale la cámara verticalmente en una pared. Esto provocará que la inclinación se altere.
18. Si utiliza una fuerza excesiva al instalar el producto, es posible que la cámara pueda sufrir daños y funcione de forma incorrecta.  
Si instala el producto de forma forzada utilizando herramientas no compatibles, es posible que el producto pueda sufrir daños.
19. No instale el producto en un lugar donde exista o pueda generarse sustancias químicas o niebla de aceite. Los aceites comestibles como el aceite de soja pueden dañar o deformar el producto, por lo que no debe instalar el producto en la cocina o cerca de la mesa de la cocina.  
Esto podría causar daños al producto.



20. Al instalar el producto, tenga cuidado y no permita que la superficie del producto se manche con sustancias químicas. Algunos disolventes químicos como limpiadores o adhesivos pueden causar daños graves a la superficie del producto.
21. Si instala o desmonta el producto de una manera que no se ha recomendado, es posible que las funciones/rendimiento de producción no estén garantizados.  
Instale el producto consultando "Instalación y conexión" en el manual del usuario.
22. La instalación o uso del producto en el agua puede causar daños graves al producto.

## ADVERTENCIA

PARA REDUCIR EL RIESGO DE INCENDIO O DESCARGA ELÉCTRICA, MANTENGA ESTE DISPOSITIVO LEJOS DE LLUVIA Y/O LA HUMEDAD. NO INSERTE NINGÚN OBJETO METÁLICO EN LAS REJILLAS DE VENTILACIÓN NI EN NINGUNA ABERTURA DEL EQUIPO.

No debe exponer el aparato a gotas ni salpicaduras de agua ni a objetos con líquido, como jarrones, evitando colocarlos sobre el aparato.

Para evitar daños, este aparato debe instalarse de forma adecuada en el techo o la pared de acuerdo con las instrucciones de instalación.

**Los motores con bandeja/volante/zoom y el anillo colector tienen garantía por un año bajo un funcionamiento continuo.**

## PRECAUCIÓN

|                                                                                                                                                                                                                                                      |                                                                       |                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                   | <b>PRECAUCIÓN</b><br>NO ABRIR RIESGO DE SUFRIR UNA DESCARGA ELÉCTRICA |  |
| <b>PRECAUCIÓN : PARA REDUCIR EL RIESGO DE SUFRIR UNA DESCARGA ELÉCTRICA, NO RETIRE LA CUBIERTA (NI LA PARTE POSTERIOR). DENTRO NO HAY PIEZAS QUE PUEDAN SER REPARADAS POR EL USUARIO. REMITA EL APARATO A PERSONAL DE MANTENIMIENTO CUALIFICADO.</b> |                                                                       |                                                                                     |

## EXPLICACIÓN DE LOS SÍMBOLOS GRÁFICOS



Un triángulo con un rayo y una punta de flecha es un símbolo de advertencia para avisar al usuario de la presencia de "voltajes peligrosos" dentro de la carcasa del producto que pueden ser lo suficientemente intensos como para constituir un peligro de descarga eléctrica.



Un triángulo con un signo de exclamación es un símbolo de advertencia para avisar al usuario de que hay instrucciones importantes de funcionamiento y mantenimiento (reparaciones) en la documentación que acompaña al aparato.

## Construcción de clase I

Un aparato con construcción de CLASE I se conectará a una toma de corriente con la conexión de protección de tierra.

## Batería

No debe exponer las baterías (paquete de batería o pilas instalados) a calor excesivo, a la luz directa del sol ni al fuego, etc.

## Desconexión del dispositivo

Desconecte el enchufe de corriente del aparato si está defectuoso. Y llame a un servicio de reparaciones.

**Cuando lo utilice fuera de EE.UU., se puede utilizar el código HAR con acoplamientos de una agencia aprobada.**

## PRECAUCIÓN

Existe un riesgo de explosión si la batería se sustituye por otra que no sea adecuada. Tire las baterías usadas como se indica en las instrucciones.

Estas instrucciones de servicio están destinadas únicamente a personal de servicio técnico cualificado.

Para reducir el riesgo de descarga eléctrica no realice ninguna operación de servicio que no sean las indicadas en las instrucciones de funcionamiento a menos que esté cualificado para hacerlo.

Se suministra el terminal de salida CVBS del producto para facilitar la instalación, aunque no se recomienda utilizarlo con fines de gestión.

Utilice la alimentación de entrada con sólo una cámara y sin que estén conectados otros dispositivos.

**El ITE solo se debe conectar a redes PoE sin enviarlo a la red externa.**

Lea detenidamente las precauciones de seguridad recomendadas que se incluyen a continuación.

- No coloque este aparato sobre una superficie desigual.
- No lo instale en una superficie expuesta a la luz directa del sol, cerca de equipos de calefacción ni cerca de áreas frías.
- No coloque este aparato cerca de material conductivo.
- No intente reparar este aparato por sí solo.
- No coloque jarrones sobre el producto.
- No lo instale cerca de fuentes magnéticas.
- No bloquee las aberturas de ventilación.
- No coloque objetos pesados sobre el producto.
- Use guantes protectores cuando instale/desinstale la cámara.  
La alta temperatura de la superficie del producto puede causar quemaduras.

El Manual del usuario es una guía sobre cómo utilizar los productos.

El significado de los signos que se utilizan en el manual es el siguiente.

- Referencia : en caso de que se facilite información de ayuda sobre el uso del producto
- Aviso : si existe alguna posibilidad de que se produzcan daños en bienes o lesiones en personas causadas por no seguir las instrucciones

※ Lea este manual por razones de seguridad antes de utilizar los productos y guárdelo en un lugar seguro.

En determinados entornos de instalación, pueden producirse interferencias en las comunicaciones de radio.

Cuando se producen interferencias de ondas electromagnéticas entre el producto y el dispositivo de radiocomunicación, se recomienda mantener cierta distancia entre ambos o cambiar la dirección de la antena receptora.

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### CARACTERÍSTICAS RECOMENDADAS DEL ORDENADOR

- CPU : Intel(R) Core(TM) i7 a 3,4 GHz o superior
- RAM : 8G o superior
- SO admitido : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12
- **Visor web sin plug-in**  
Navegadores web compatibles: Google Chrome 63, MS Edge 41, Mozilla Firefox 57 (Window 64bit only) , Apple Safari 11 (sólo compatible con Mac OS X)
- **Visor web de plug-in**  
Navegadores web compatibles: MS Explore 11, Apple Safari 11 (sólo compatible con Mac OS X)

### ESPECIFICACIONES DE LA TARJETA DE MEMORIA MICRO SD/SDHC/SDXC RECOMENDADA

- Capacidad recomendada : De 16 GB a 256 GB (tipo MLC)
- Para esta cámara se recomiendan los siguientes tipos de tarjetas de memoria de los siguientes fabricantes.
  - Fabricante : SanDisk, Transcend
  - Familia de productos : High endurance

### ESPECIFICACIONES RECOMENDADAS PARA NAS

- Capacidad recomendada : Se recomienda que sea de 200 GB o superior.
- Acceso simultáneo : Una unidad de NAS puede aceptar un máximo de accesos simultáneos de hasta dieciséis cámaras.
- Para esta cámara, se recomienda utilizar una unidad NAS con las siguientes especificaciones del fabricante.

| Productos recomendados | Tamaños disponibles                               |
|------------------------|---------------------------------------------------|
| QNAP NAS               | Accesos simultáneos para un máximo de 16 cámaras. |
| NAS Synology           | Accesos simultáneos para un máximo de 16 cámaras. |



El número de accesos a cámaras se reducirá si utiliza la unidad NAS para otros fines que no sean el de almacenamiento de vídeo.

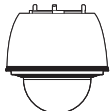
## COMPONENTES (QNP-6230)

Compruebe si la cámara y los accesorios se incluyen en el paquete del producto.  
(Debido a los diferentes países de venta, los accesorios no son los mismos.)

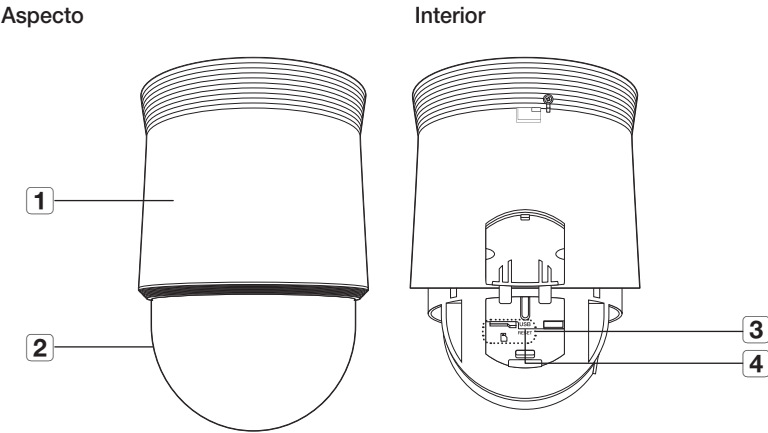
| Aspecto                                                                             | Nombre de elemento                   | Cantidad | Descripción                                                                                 |
|-------------------------------------------------------------------------------------|--------------------------------------|----------|---------------------------------------------------------------------------------------------|
|    | Cámara                               | 1        |                                                                                             |
|    | Manual de consulta rápida (Opcional) | 1        |                                                                                             |
|    | Tarjeta de garantía (Opcional)       | 1        |                                                                                             |
|    | Cable para probar el monitor         | 1        | Se utiliza para probar la conexión de la cámara en un dispositivo de visualización portátil |
|    | Base de instalación                  | 1        | Si se instala en interiores o en un soporte para techo                                      |
|    | Tornillo de rosca cortante           | 4        | Se utiliza para la instalación en pared o en techo                                          |
|    | Plantilla                            | 1        | Guía de instalación del producto                                                            |
|  | Pantalla de aislamiento              | 1        | Se debe usar cuando se instala la cámara en un lugar de mucha humedad                       |

## COMPONENTES (QNP-6230H)

Compruebe si la cámara y los accesorios se incluyen en el paquete del producto.  
(Debido a los diferentes países de venta, los accesorios no son los mismos.)

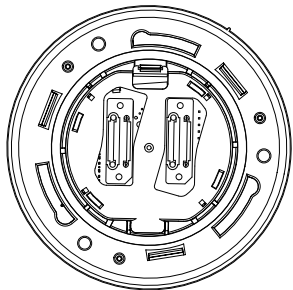
| Aspecto                                                                               | Nombre de elemento                   | Cantidad | Descripción                                                                                 |
|---------------------------------------------------------------------------------------|--------------------------------------|----------|---------------------------------------------------------------------------------------------|
|    | Cámara                               | 1        |                                                                                             |
|    | Manual de consulta rápida (Opcional) | 1        |                                                                                             |
|    | Tarjeta de garantía (Opcional)       | 1        |                                                                                             |
|    | Cable para probar el monitor         | 1        | Se utiliza para probar la conexión de la cámara en un dispositivo de visualización portátil |
|    | Llave hexagonal                      | 1        | Se utiliza para quitar y sustituir la tapa del domo                                         |
|    | Tornillo hexagonal                   | 3        | Se utiliza para acoplar la base de instalación a la cámara                                  |
|    | Base de instalación                  | 1        | Soporte para el montaje al aire libre                                                       |
|  | Accesorio de impermeabilización      | 1        | Instale y utilice donde haya mucha humedad.                                                 |

VISTA (QNP-6230)

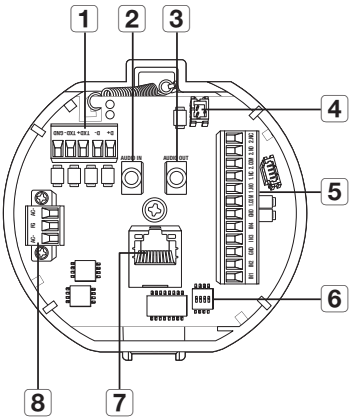


| Elemento                                                 | Descripción                                                                                                                                    |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1</b> Unidad principal                                | Protege el mecanismo interno de la PTZ contra la luz directa del sol o contra impactos externos.                                               |
| <b>2</b> Cubierta de Domo                                | Cubierta de Domo para el objetivo y protección de la unidad.                                                                                   |
| <b>3</b> Compartimento de la tarjeta de memoria Micro SD | Compartimento de la tarjeta de memoria Micro SD.                                                                                               |
| <b>4</b> Botón Reset                                     | Si se mantiene pulsado este botón durante aproximadamente 5 segundos se reiniciarán todos los ajustes de la cámara con los valores de fábrica. |

Vista inferior de la base de instalación



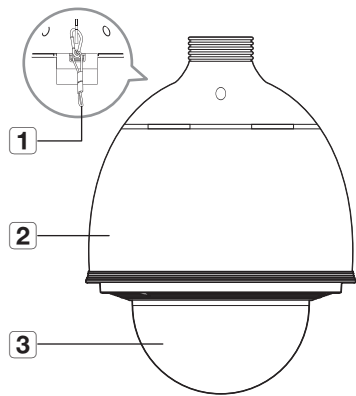
Vista interior de la base de instalación



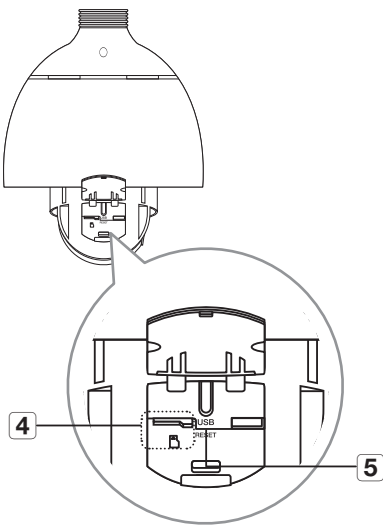
| Elemento                                                | Descripción                                                                   |
|---------------------------------------------------------|-------------------------------------------------------------------------------|
| <b>1</b> Puertos de comunicaciones                      | Se utiliza para comunicaciones RS-485.                                        |
| <b>2</b> Puerto de entrada de audio                     | Se utiliza para conectar el cable de entrada de audio.                        |
| <b>3</b> Puerto de salida de audio                      | Se utiliza para conectar el cable de salida de audio.                         |
| <b>4</b> Puerto de salida de video                      | Puerto de salida de video analógico. (Para instalación.)                      |
| <b>5</b> Puerto E/S de alarma                           | Se utiliza para conectar el cable de E/S de alarma.                           |
| <b>6</b> Interruptor de configuración de comunicaciones | Establezca protocolos de comunicación (RS-485) e indique si se debe terminar. |
| <b>7</b> Conexiones de red                              | Puerto para la conexión con la red mediante un cable Ethernet.                |
| <b>8</b> Puerto de alimentación                         | Se utiliza para conectar la alimentación.                                     |

VISTA (QNP-6230H)

Aspecto

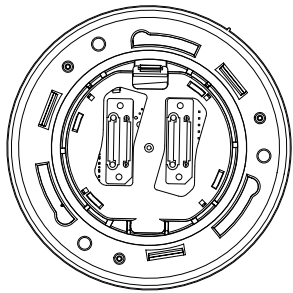


Interior

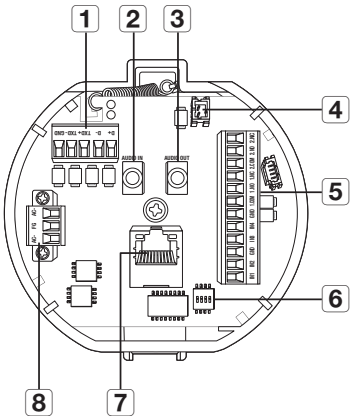


| Elemento                                          | Descripción                                                                                                                                    |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Cable de seguridad                              | El cable evita que el producto se caiga durante la instalación.                                                                                |
| 2 Carcasa                                         | Protege el mecanismo interno de PTZ de la luz directa del sol, la lluvia o impactos externos.                                                  |
| 3 Cubierta de Domo                                | Cubierta de Domo para el objetivo y protección de la unidad.                                                                                   |
| 4 Compartimento de la tarjeta de memoria Micro SD | Compartimento de la tarjeta de memoria Micro SD.                                                                                               |
| 5 Botón Reset                                     | Si se mantiene pulsado este botón durante aproximadamente 5 segundos se reiniciarán todos los ajustes de la cámara con los valores de fábrica. |

Vista inferior de la base de instalación



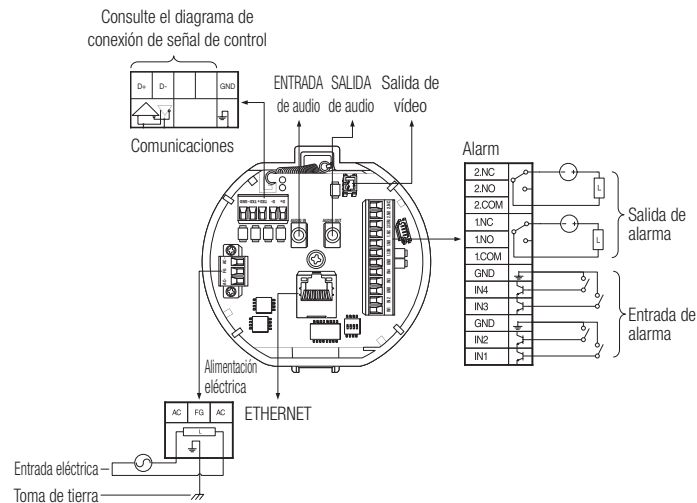
Vista interior de la base de instalación



| Elemento                                         | Descripción                                                                   |
|--------------------------------------------------|-------------------------------------------------------------------------------|
| 1 Puertos de comunicaciones                      | Se utiliza para comunicaciones RS-485.                                        |
| 2 Puerto de entrada de audio                     | Se utiliza para conectar el cable de entrada de audio.                        |
| 3 Puerto de salida de audio                      | Se utiliza para conectar el cable de salida de audio.                         |
| 4 Puerto de salida de video                      | Puerto de salida de video analógico. (Para instalación.)                      |
| 5 Puerto E/S de alarma                           | Se utiliza para conectar el cable de E/S de alarma.                           |
| 6 Interruptor de configuración de comunicaciones | Establezca protocolos de comunicación (RS-485) e indique si se debe terminar. |
| 7 Conexiones de red                              | Puerto para la conexión con la red mediante un cable Ethernet.                |
| 8 Puerto de alimentación                         | Se utiliza para conectar la alimentación.                                     |

■ Placa de la interfaz de cableado de la cámara

Para el cableado de la cámara, consulte la imagen que se incluye a continuación.

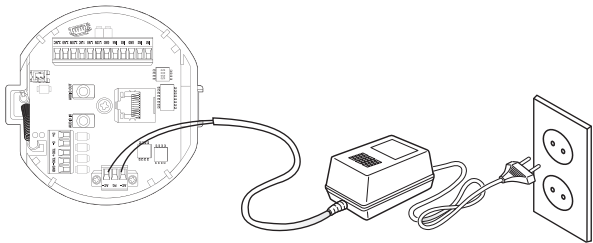


- Seleccione Normal Abierto en el menú de configuración.
  - La entrada del sensor se activa durante un cortocircuito para tipo contacto o cuando está en nivel "Bajo" para el tipo activo.
- Seleccione Normal Cerrado en el menú de Configuración.
  - La entrada del sensor se activa cuando está abierto para el tipo contacto o cuando está en estado de alta impedancia (colector abierto) para el tipo activo.
- La capacidad máxima del terminal de salida de la alarma es de 30 V CC/2 A, 125 V CA/0,5 A y 250 V CA/0,25 A.
- Alñ conectar los cables de entrada y salida, asegúrese de conectar un cable a cada terminal.
- Para conectar productos por encima de la capacidad de la cámara, utilice un dispositivo de relé adicional.
- Si los cables de la toma de tierra y de alimentación no están conectados correctamente al puerto COM o NA/NC, podría producirse un incendio o averiarse el equipo.

CONEXIÓN CON OTROS DISPOSITIVOS

Preparación del adaptador y el cable

- Conecte la cámara al adaptador de corriente. A continuación, enchufe el cable de alimentación del adaptador en la toma de corriente.



Compruebe la tensión y la corriente nominal antes de realizar las conexiones.

| Potencia nominal | Tensión de entrada permitida |
|------------------|------------------------------|
| AC 24V           | AC22V~26V                    |
| PoE+             | 42.5Vdc~57Vdc                |

- Si se aplica con fuentes de alimentación PoE+ y 24 VCA, el dispositivo se alimenta de la primera fuente conectada.
  - Es preferible utilizar una sola fuente de alimentación de PoE+ y 24 VCA.
- Si se conecta a un dispositivo de conmutación que proporcione alimentación PoE+, no tiene que aplicar una fuente de alimentación de 24 VCA.
- Asegúrese de que el dispositivo PoE cumpla las especificaciones de PoE+ (IEEE 802.3at).
  - Si su dispositivo está conectado al interruptor bajo la norma de PoE (IEEE 802.3af), ingrese al menú de configuración del interruptor para "desactivar PoE".

Para obtener información adicional sobre el dispositivo de conmutación, consulte el manual del fabricante.
  - Se recomienda utilizar un cable que cumpla con las especificaciones PoE+.
- Si utiliza una entrada de alimentación PoE+, el tiempo de arranque puede variar dependiendo del modelo del interruptor (por canal) o del marcador (cuando se incluye el tiempo de conexión de PoE+).
- El calentador no funciona con fuentes de alimentación PoE+.(QNP-6230H)

Resistencia eléctrica de cable de cobre a [20°C (68°F)]

QNP-6230

| Calibre de hilo americano (AWG) | #20         | #19         | #18         | #17         |
|---------------------------------|-------------|-------------|-------------|-------------|
| Resistencia (Ω/m)               | 0.0333      | 0.0264      | 0.021       | 0.0166      |
| Distancia recomendada (m)       | Menos de 20 | Menos de 25 | Menos de 30 | Menos de 30 |

QNP-6230H

| Calibre de hilo americano (AWG) | #18         | #17         | #16         | #15         |
|---------------------------------|-------------|-------------|-------------|-------------|
| Resistencia (Ω/m)               | 0.021       | 0.0166      | 0.0132      | 0.0104      |
| Distancia recomendada (m)       | Menos de 15 | Menos de 20 | Menos de 25 | Menos de 30 |

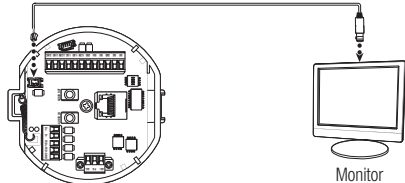
- Como se muestra en la tabla anterior, es posible que encuentre un punto de tensión baja dependiendo de la longitud del cable. Si tiene un cable excesivamente largo para la conexión de la cámara, es posible que la cámara no funcione debidamente.
  - Tensión de servicio de la cámara: 24 VCA ±10%
  - Las mediciones de caída de tensión del diagrama anterior pueden variar dependiendo del tipo y el fabricante del cable de cobre.

Conexión Ethernet

Conecte el cable Ethernet a la red local o a Internet.

Conexión del monitor de instalación

Conecte el cable al terminal de salida de vídeo de la parte trasera de la cámara y el terminal de entrada de vídeo del monitor de instalación.



- El cableado varía dependiendo del tipo de monitor y de los dispositivos periféricos; consulte el manual del usuario de cada dispositivo.
- Asegúrese de que el monitor y la cámara estén apagados cuando se conecten.

- El producto es una cámara de red que transfiere vídeo por una red; el terminal de salida de vídeo se utiliza para ajustar el rango de imágenes de la cámara en la instalación.
- La utilización del terminal para vigilancia puede causar problemas como la degradación de la calidad del vídeo.
- No apto para control profesional de 24 horas usando monitores de TRC profesionales o monitores portátiles TFT/LCD.
- Use la pantalla de transferencia de red para el control y almacenamiento de 24 horas.

INSTALACIÓN

Preparación e instalación del soporte de la cámara

Para obtener instrucciones de instalación de los soportes y carcasas, consulte el manual de instalación que se incluye con los mismos.

Modelos de soportes disponibles

| Modelo     | Elemento                         | QNP-6230 | QNP-6230H |
|------------|----------------------------------|----------|-----------|
| SHP-3701H  | Carcasa de exteriores            | Si       | -         |
| SHP-3701F  | Carcasa para montaje en techo    |          |           |
| SBP-301HM3 | Soporte de montaje en suspensión |          |           |
| SBP-300WM1 | Soporte de pared                 |          | Si        |
| SBP-300WM  |                                  |          |           |
| SBP-300CM  | Soporte de montaje en techo      |          |           |
| SBP-300LM  | Soporte de parapeto              |          |           |
| SBP-300KM  | Soporte para esquina             |          |           |
| SBP-300PM  | Soporte para poste               |          |           |

- Consulte "Accesorios opcionales para la instalación" para ver el aspecto de cada soporte (no se incluye). (Página 15)

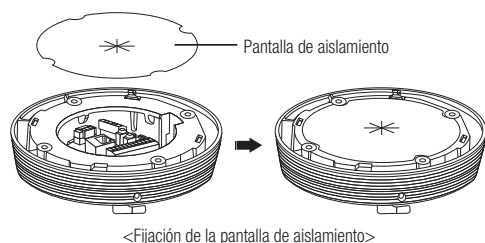
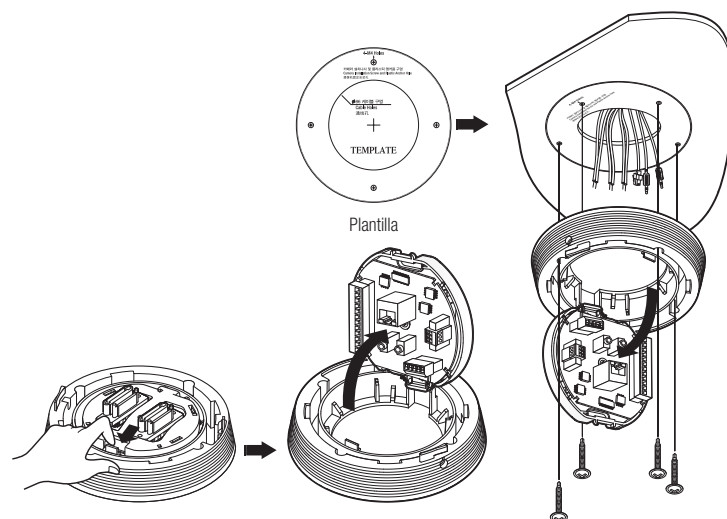
## Instalación mediante fijación en superficie (QNP-6230)

 ■ QNP-6230H no se puede instalar en la superficie de la pared o en el techo.

### ■ Colocación de la plantilla y de la base de instalación

1. Coloque en el techo la plantilla que se facilita. Sobre la plantilla, haga un orificio de 86mm en el techo y pase los cables por el orificio.
2. Instale la base de instalación como se muestra.
3. Antes de instalar el soporte que se muestra, abra la puerta con bisagras en la parte inferior del soporte como se muestra en la imagen. Sujete el botón de la puerta con bisagra para abrirla.

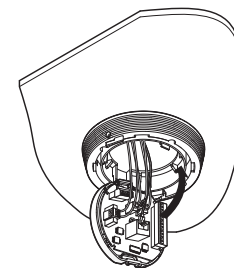
 ■ En caso de instalar la cámara en un lugar de mucha humedad, colóquela a cielo raso tras fijar la pantalla de aislamiento que encontrará en la parte posterior de la base de instalación.



### ■ Conecte los cables del terminal

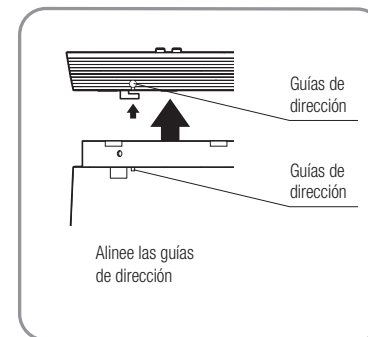
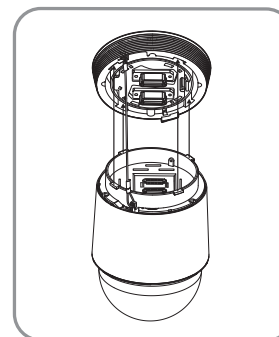
1. Conecte los cables al bloque de terminales en la puerta con bisagra. Consulte "Placa de la interfaz de cableado de la cámara". (Página 10)
2. Una vez que el cableado este preparado, cierre la puerta con bisagra.

 ■ No conecte la cámara a una toma de corriente hasta completar la instalación. El suministro de alimentación mientras la instalación esté en curso puede causar un incendio o daños en el producto.



### ■ Conexión del cable de seguridad de la cámara y colocación de la cámara

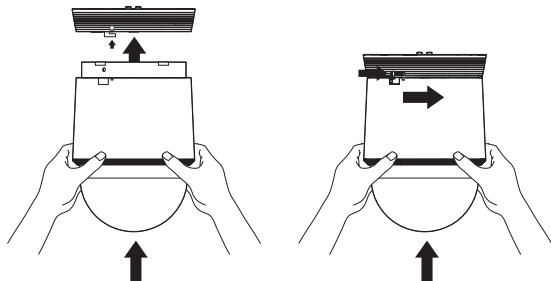
1. En primer lugar, tal y como se muestra en la figura de la izquierda, tire del cable de seguridad de la base y engánchelo en la carcasa. El cable de seguridad está enrollado en la base.
  - Para conectar la cámara al soporte, consulte las marcas de la guía de alineación como se muestra en la imagen.
2. Con cuidado conecte la cámara al soporte siguiendo las marcas de la guía de alineación como se muestra en la imagen.



 ■ Asegúrese de enganchar el cable de seguridad de la cámara al soporte antes de continuar. De lo contrario, es posible que se exponga a serio peligro por caída de la cámara.

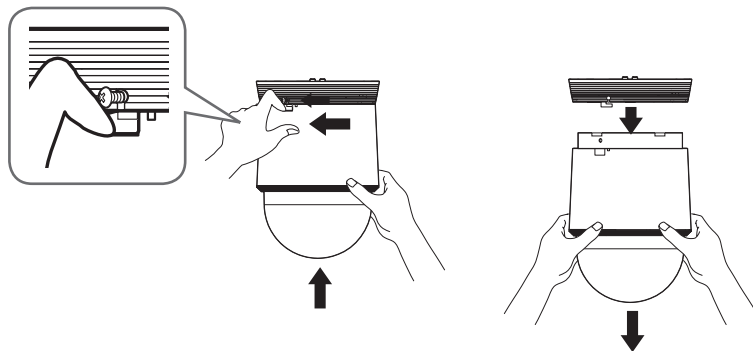
▪ Para fijar o quitar la cámara, consulte la imagen.

- Acoplar la cámara: Presione la parte de la cámara hacia arriba y gírela en sentido de las agujas del reloj hasta el tope, tal y como se muestra en la figura. Después de girarlo, ajuste los tornillos de la base de instalación.



< Para acoplar la cámara >

- Retirar la cámara: Afloje los tornillos tal y como se indica en la figura, tire del gancho y gírela en sentido contrario a las agujas del reloj. (Los tornillos no están totalmente aflojados)  
Cuando el gancho no se puede girar más, tire de la parte de la cámara hacia abajo para extraerla.

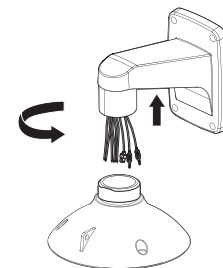


< Para retirar la cámara >

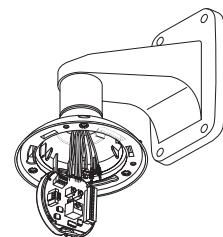
## Instalación mediante el soporte de pared (QNP-6230H)

▪ Fije la base de instalación con la abrazadera

1. Fije la base de instalación con la abrazadera girando a la derecha.



2. Como se muestra en la imagen que se incluye a continuación, presione suavemente y levante la manivela de la puerta con asa situada en la parte inferior de la base de instalación. Consulte "**Placa de la interfaz de cableado de la cámara**" en la página 10, conecte los cables.

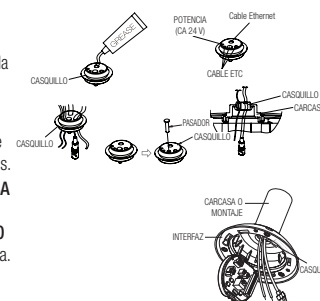


- ! ▪ No conecte la cámara a una toma de corriente hasta completar la instalación. El suministro de alimentación mientras se realiza la instalación puede causar un incendio o daños en el producto.

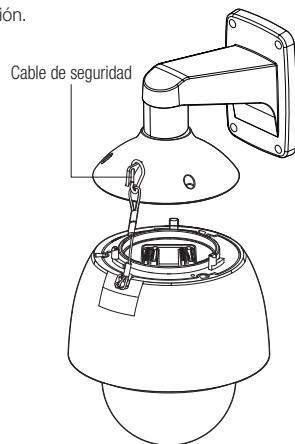
- ☑ Compruebe el método de conexión por cable e instale.

- Tenga en cuenta que los **CASQUILLOS** se facilitan para instalaciones exteriores donde existen condiciones de humedad a través del **TUBO** o **MONTAJE**, instale el **CASQUILLO** utilizando el **CASQUILLO** para impedir la entrada de humedad.

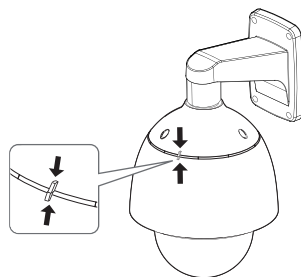
- Aplique grasa en la dosis apropiada en el **CASQUILLO** antes del montaje y dirija los cables por cada orificio de los casquillos. Utilice **PASADORES** para obstruir los orificios vacíos que no tengan cables.
- Monte el **CASQUILLO** en el lado superior del inferior de la **CARCASA** como se muestra en el diagrama que se incluye a continuación. En ese momento, aplique presión de forma uniforme en el **CASQUILLO** para fijarlo bien al **ALOJAMIENTO** como se muestra en el diagrama.



3. Conecte el cable de seguridad de la cámara a la base de instalación.

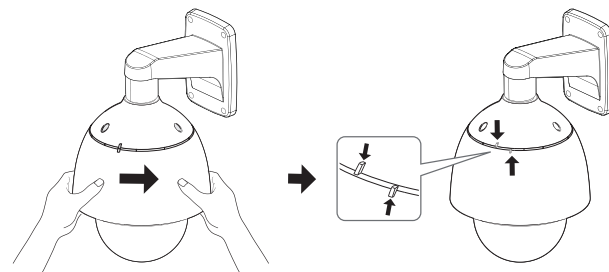


4. Montaje de la cámara y la base de instalación.  
Monte el conjunto de la cámara y la base de instalación haciendo coincidir las guías de dirección de instalación.



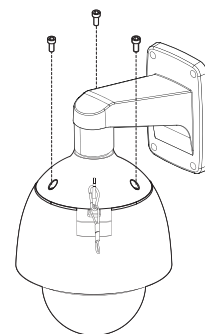
5. Conecte la cámara

Gire la parte de la cámara montada en el sentido de las agujas del reloj, de modo que las marcas de referencia de la parte superior e inferior queden tal y como se muestra en la figura de la derecha.



6. Fije la cámara y la base de instalación

Como se muestra en la siguiente imagen, asegure la base de instalación y la cámara con un tornillo hexagonal.

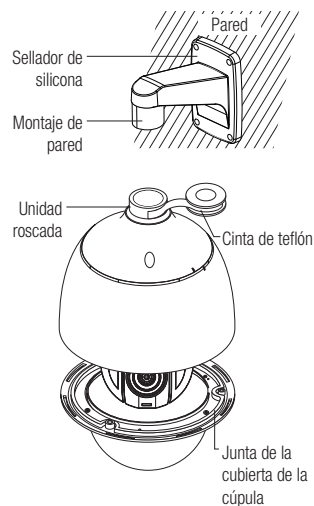


## Advertencias para la impermeabilización

### ■ Instalación de la unidad en la pared combinando la protección para exteriores y el montaje en pared.

1. Instale el montaje de pared en la pared vertical. Si el montaje se instala en una pared inclinada, la humedad podría penetrar en la protección para exteriores a través del cable externo.
2. Envuelva la parte roscada de la cubierta con la cantidad suficiente de cinta de teflón.
3. Cuando separe la cubierta de la cúpula y la fije al bastidor de la cubierta, asegúrese que la junta no se afloja y no se separa de la cubierta de la cúpula.
4. Instale el adaptador de montaje en la pared para impermeabilización, y aplique sellador de silicona por la pared y entre la pared y el montaje para sellarlo.

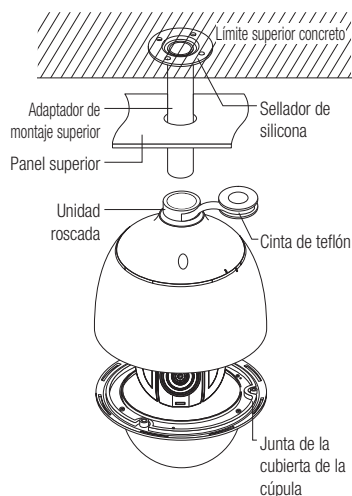
! ■ Asegúrese que el sellado es correcto en caso que la parte instalada no es plana.



### ■ Instalación en la pared combinando la protección para exteriores y el adaptador de montaje superior

1. Envuelva la parte roscada de la cubierta con la suficiente cantidad de cinta de teflón.
2. Cuando separe la cubierta de la cúpula y la fije al bastidor de la cubierta, asegúrese que la junta no se afloja y no se separa de la cubierta de la cúpula.
3. Instale el adaptador de montaje superior para impermeabilización, aplicando sellador de silicona por la pared y entre la pared y el montaje hasta que quede bien sellado.

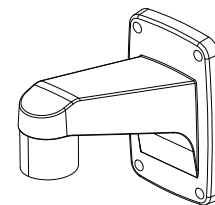
! ■ Asegúrese que el sellado es correcto en caso que la parte instalada no sea plana.



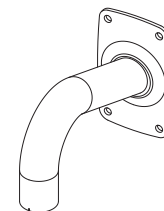
## Accesorios opcionales para la instalación

Para una instalación más sencilla, puede adquirir los accesorios opcionales apropiados disponibles.

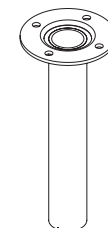
1. Si se instala la cámara en la pared
  - Soporte de pared (SBP-300WM1)



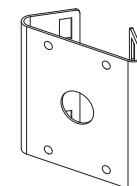
- Soporte de pared (SBP-300WM)



2. Si se instala la cámara en el techo
  - Soporte de montaje en techo (SBP-300CM)

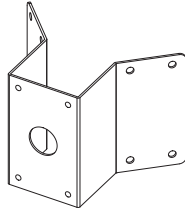


3. Si se instala en el soporte de pared (SBP-300WM/SBP-300WM1) en un cilindro de al menos 80 mm de longitud
  - Soporte para poste (SBP-300PM)



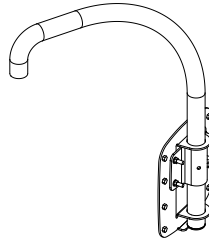
4. Si se instala en el soporte de pared (SBP-300WM /SBP-300WM1) en una esquina

- Soporte para esquina (SBP-300KM)



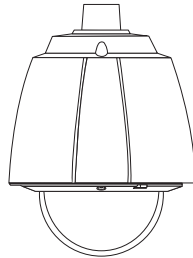
5. Si se instala en el tejado de un edificio

- Soporte de parapeto (SBP-300LM)



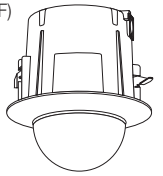
6. Si se instala QNP-6230 en exteriores

- Carcasa de exteriores (SHP-3701H)



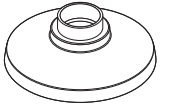
7. Si se instala QNP-6230 en el techo como un componente integrado

- Carcasa para interiores de montaje empotrado para cámara Domo PTZ (SHP-3701F)



8. Si se instala QNP-6230 en el soporte de pared o en el soporte en techo

- Soporte de montaje en suspensión (SBP-301HM3)

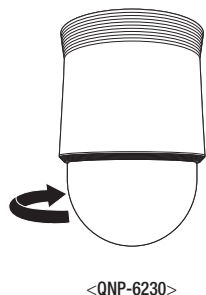


## INSERTAR/ELIMINAR UNA TARJETA DE MEMORIA MICRO SD

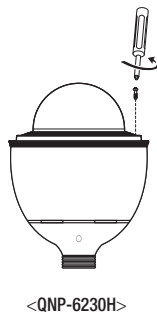
- ❗
  - Disconnect the power cable from the camera before inserting the Micro SD memory card.
  - Do not insert the Micro SD memory card while it's upside down by force. Otherwise, it may damage the Micro SD memory card.
  - When it rains or the humidity is high, insertion or ejection of a Micro SD card is not recommended.
  - Disassembly of the product cover should be finished within 5 minutes, or there will be the risk of internal dew condensation.

### Insertar una Tarjeta de Memoria Micro SD

1. Abra la tapa en la parte trasera de la cámara.  
(QNP-6230)

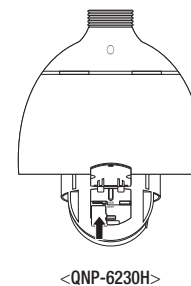
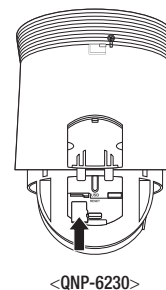


Con el destornillador, afloje el tornillo girándolo en el sentido contrario a las agujas del reloj y separe la tapa del domo. (QNP-6230H)



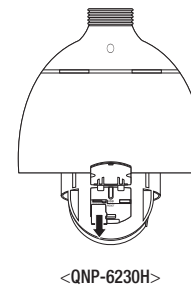
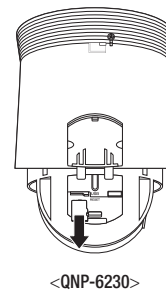
2. Introduzca la tarjeta de memoria Micro SD en la dirección de la flecha como se muestra en el diagrama.

- ❗
  - No inserte al revés la tarjeta de memoria Micro SD a la fuerza. Si lo hace, podría dañar la tarjeta de memoria Micro SD.



### Eliminar una Tarjeta de Memoria Micro SD

Gently press down on the exposed end of the memory card as shown in the diagram to eject the memory card from the slot.



- ❗
  - Si presiona muy fuerte en la tarjeta de memoria Micro SD, podría ser que saliera disparada de forma incontrolada cuando la suelte.
  - Antes de extraer la tarjeta de memoria micro SD, apague la cámara o ajuste el dispositivo a <Des> en <Almacenamiento> y presione el botón [Aplicar].
  - Si apaga la cámara o retira la tarjeta de memoria Micro SD que contiene datos, puede perderlos o dañarlos.

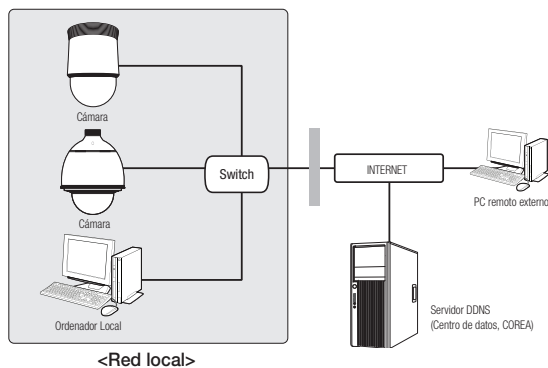
# conexión y configuración de la red

Puede fijar la configuración de red de acuerdo con sus configuraciones de red.

## CONECTAR LA CÁMARA DIRECTAMENTE A LA RED DE ÁREA LOCAL

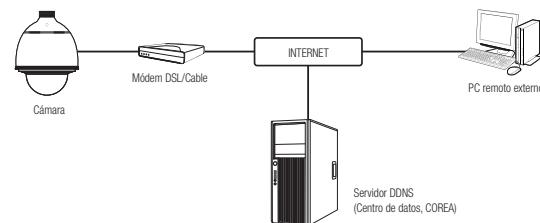
### Conectar con la cámara desde un ordenador local en la LAN

1. Abrir un navegador de Internet en su ordenador local.
2. Introduzca la dirección IP de la cámara en la barra de direcciones del navegador.



- Un ordenador remoto con una Internet externa fuera de la red LAN podría no poder conectarse a la cámara instalada en la intranet, en caso de que el reenvío de puertos no esté correctamente configurado o se haya instalado un cortafuegos. En este caso, para solucionar el problema, póngase en contacto con su administrador de red.
- En el Device Manager, puede utilizar la contraseña inicial, "4321", para configurar la dirección IP, la máscara de subred, la puerta de enlace, el puerto HTTP, el puerto VNP y el tipo de IP. Después de cambiar la interfaz de red, para mayor seguridad, acceda al visor web y cambie la contraseña.
- Como valor predeterminado de fábrica, la dirección IP se asignará automáticamente desde el servidor DHCP. Si no hay ningún servidor DHCP disponible, la dirección IP se definirá en 192.168.1.100. Para cambiar la dirección IP, utilice el Device Manager. Para obtener más información sobre el uso del Device Manager, consulte "Cómo usar el Device Manager". (Página 20)

## CONEXIÓN DIRECTA DE LA CÁMARA A UN MÓDEM DSL/CABLE BASADO EN DHCP

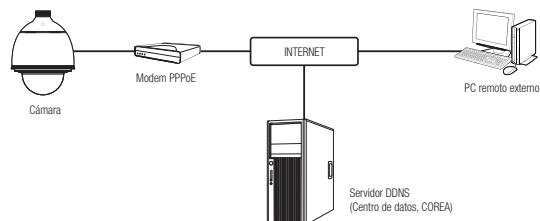


1. Conectar el PC del usuario directamente a la cámara de red.
2. Ejecute el Device Manager y cambie la dirección IP de la cámara de tal manera que pueda usar el navegador web en su ordenador de sobremesa para conectarse a Internet.
3. Utilice el navegador de Internet para conectar a Web Viewer.
4. Vaya a la página [Config.].
5. Vaya a [Red] – [DDNS] y configure los ajustes de DDNS.
6. Vaya a [Basic] – [IP & Puerto] y establezca el tipo de IP para [DHCP].
7. Conecte la cámara, retirada del PC, directamente en el módem.
8. Reinicie la cámara.



- Para obtener información sobre cómo configurar el DDNS, consulte la ayuda en línea de Web Viewer.
- Para obtener información sobre cómo configurar el formato de IP, consulte la ayuda en línea de Web Viewer.

## CONEXIÓN DE LA CÁMARA DIRECTAMENTE AL MÓDEM PPPoE



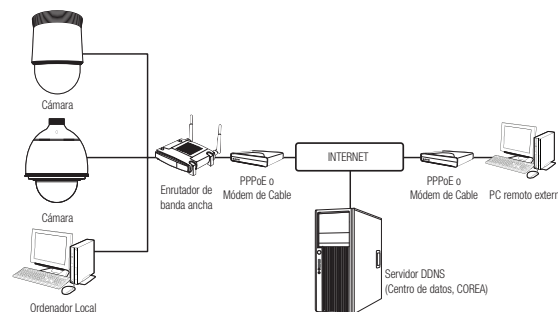
1. Conectar el PC del usuario directamente a la cámara de red.
2. Ejecute el Device Manager y cambie la dirección IP de la cámara de tal manera que pueda usar el navegador web en su ordenador de sobremesa para conectarse a Internet.
3. Utilice el navegador de Internet para conectar a Web Viewer.
4. Vaya a la página **[Config.]**.
5. Vaya a **[Red]** – **[DDNS]** y configure los ajustes de DDNS.
6. Vaya a la página de configuración **[Basic]** – **[IP & Puerto]**, establezca el tipo de IP para **[PPPoE]** e introduzca el ID de servicio de red y la contraseña.
7. Conecte la cámara, retirada del PC, directamente en el módem.
8. Reinicie la cámara.



- Para obtener información sobre cómo configurar el DDNS, consulte la ayuda en línea de Web Viewer.
- Para obtener información sobre cómo configurar el formato de IP, consulte la ayuda en línea de Web Viewer.

## CONECTAR LA CÁMARA A UN ENRUTADOR DE BANDA ANCHA CON EL MÓDEM PPPoE/CABLE

Se utiliza para un ambiente de red pequeño como hogares, oficinas pequeñas y tiendas normales.



### Configurar la red del ordenador local conectado a un Enrutador de banda ancha

Configure la configuración de red del ordenador local conectado a un enrutador de banda ancha, siga las instrucciones siguientes.

- Seleccione : **<Network>** → **<Properties>** → **<Local Area Connection>** → **<General>** → **<Properties>** → **<Internet Protocol (TCP/IP)>** → **<Properties>** → **<Obtain an IP address automatically>** o **<Use the following IP address>**.

- Siga las siguientes instrucciones si selecciona **<Use the following IP address>**:

- ej.1) Si la dirección (LAN IP) del enrutador de banda ancha es 192.168.1.1  
Dirección IP : 192.168.1.100  
Máscara de subred : 255.255.255.0  
Puerta de enlace por defecto : 192.168.1.1
- ej.2) Si la dirección (LAN IP) del enrutador de banda ancha es 192.168.0.1  
Dirección IP : 192.168.0.100  
Máscara de subred : 255.255.255.0  
Puerta de enlace por defecto : 192.168.0.1
- ej.3) Si la dirección (LAN IP) del enrutador de banda ancha es 192.168.xxx.1  
Dirección IP : 192.168.xxx.100  
Máscara de subred : 255.255.255.0  
Puerta de enlace por defecto : 192.168.xxx.1



- Para obtener la dirección del enrutador de banda ancha, véase la documentación del producto.
- Para obtener información adicional sobre el reenvío de puertos del enrutador de banda ancha, consulte "Configuración de Reenvío del Rango de Puertos (Asignación de Puertos)". (Página 22)

CÓMO USAR EL DEVICE MANAGER

- Puede descargar el programa del Device Manager desde el menú <Support> – <Online Tool> en el sitio web de Hanwha Vision (<https://www.HanwhaVision.com>).
- Asimismo, puede encontrar más instrucciones sobre el Device Manager en el menú <Ayuda> de la página principal.

BÚSQUEDA AUTOMÁTICA DE LA CÁMARA

Si hay una cámara conectada a la misma red del ordenador en donde está instalado el Device Manager, puede encontrar esa cámara de la red usando la función de buscar.

1. Haga clic en <Buscar> en la página principal del Device Manager.
2. Marque la cámara de la lista.
  - Compruebe la dirección MAC en el adhesivo de la cámara.

CÓMO CONFIGURAR LA DIRECCIÓN IP

Si desea cambiar el ajuste de la red de la cámara, el signo <Inicio de sesión Aceptar> debe aparecer en el campo <Estado>. Haga clic en el campo <Autenticación> de la página principal para iniciar sesión.

Configuración de la IP estática

Inserte y configure manualmente la dirección IP y la información del puerto.

1. Haga clic en la cámara de la lista para la que desea cambiar el ajuste de la IP.
2. Haga clic en <IP Assign (Asignación de la IP)> en la página principal del Device Manager.
3. Seleccione <Asignar la siguiente dirección IP>.
  - La información IP de la cámara de mostrará según se ha configurado previamente.
4. Complete las categorías relacionadas con el campo IP & Puerto.

Si no se utiliza un Enrutador de banda ancha

- Pida al administrador de la red que establezca el valor de la <Dirección IP>, la <Máscara subred> y la <Gateway(Puerta de enlace)>.
- HTTP Puerto : se utiliza para acceder a la cámara utilizando el explorador de Internet, por defecto en 80.
  - VNP Puerto : se utiliza para controlar la transferencia de señales de vídeo, por defecto en 4520.
  - RTSP Puerto : este puerto controla la transmisión de datos en tiempo real. Su valor inicial es 554.

Si se utiliza un Enrutador de banda ancha

- IP Address : introduzca una dirección que se encuentre en el rango de IP facilitado por el enrutador de banda ancha. ej.) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : La <Subnet Mask> del enrutador de banda ancha será la <Subnet Mask> de la cámara.
- Gateway : La <Local IP Address> del enrutador de banda ancha será la <Gateway> de la cámara.

- Es posible que los ajustes difieran dependiendo del modelo de enrutador de banda ancha conectado. Para obtener información adicional, consulte el manual de usuario del enrutador aplicable.
- Para obtener información adicional sobre el reenvío de puertos del enrutador de banda ancha, consulte "Configuración de Reenvío del Rango de Puertos (Asignación de Puertos)". (Página 22)

Si el Enrutador de banda ancha tiene más de una cámara conectada

Configure los ajustes relacionados con IP y los ajustes relacionados con Port de forma distinta entre sí. ej.)

| Categoría                          |                | Cámara 1      | Cámara 2      |
|------------------------------------|----------------|---------------|---------------|
| Ajustes relacionados con IP        | Dirección IP   | 192.168.1.100 | 192.168.1.101 |
|                                    | Máscara subred | 255.255.255.0 | 255.255.255.0 |
|                                    | Gateway        | 192.168.1.1   | 192.168.1.1   |
| Ajustes relacionados con el puerto | HTTP Puerto    | 8080          | 8081          |
|                                    | VNP Puerto     | 4520          | 4521          |
|                                    | RTSP Puerto    | 554           | 555           |

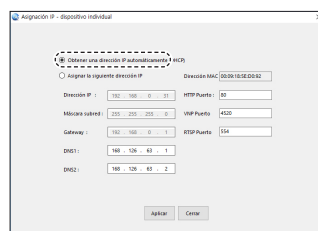
- Si <HTTP Puerto> se define con un valor distinto a 80, debe facilitar el número de <Port> en la barra de direcciones del explorador de Internet antes de poder acceder a la cámara. ej.) `http://Dirección IP : HTTP Port`  
`http://192.168.1.100:8080`
5. Haga clic en el botón [Aplicar].
  6. Si aparece el mensaje de que la acción se ha realizado correctamente, haga clic en [Aceptar].

## Configuración de la IP dinámica

Reciba la dirección IP desde DHCP

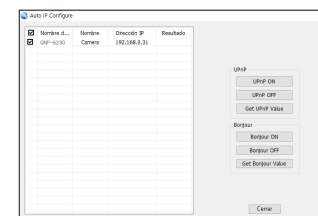
- Ejemplo de entorno de IP dinámica
  - Si a un enrutador de banda ancha, con cámaras conectadas, se le asigna una dirección IP mediante el servidor DHCP
  - Si se conecta la cámara directamente al módem utilizando los protocolos DHCP
  - Si las IP se asignan mediante el servidor DHCP interno a través de la LAN

1. Haga clic en la cámara de la lista para la que quiera cambiar la configuración de la IP.
2. Haga clic en **<IP Assign (Asignación de la IP)>** en la página principal del Device Manager.
3. Seleccione **<Obtener una dirección IP automáticamente (DHCP)>**.
4. Haga clic en botón **[Aplicar]**.
5. Si se muestra el mensaje de acción realizada correctamente, haga clic en **[Aceptar]**.



## CONFIGURACIÓN AUTOMÁTICA DE LA IP

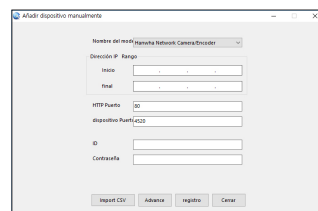
1. Haga clic en la cámara de la lista para la que quiera configurar automáticamente la IP.
2. En la página principal del Device Manager, haga clic en **< + >**.
  - Aparecerá el menú de configuración del equipo.
3. En el menú, haga clic en **<Auto IP Configure (Configuración IP automática)>**.
4. Haga clic en el botón **[Cerrar]**.



## CÓMO REGISTRAR LA CÁMARA MANUALMENTE

Si la cámara no puede encontrarse usando la función de buscar, puede registrarla remotamente insertando manualmente la información de la IP si la cámara está conectada a la red externa.

1. Haga clic en **<Add Devices (Agregar dispositivos)>** – **<Añadir dispositivo manualmente>** de la página principal del Device Manager.
2. Inserte el intervalo de la dirección IP que está buscando.
3. Seleccione el **<Nombre del modelo>** de la cámara que ha registrado e inserte el puerto HTTP, el puerto VNP, la ID y la contraseña.
4. Haga clic en el botón **[Registro]**.
5. Compruebe que la cámara esté registrada.
  - Verifique la dirección MAC en el adhesivo de la cámara.

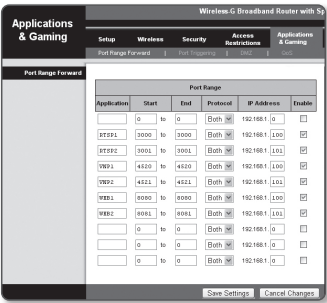


CONFIGURACIÓN DE REENVÍO DEL RANGO DE PUERTOS (ASIGNACIÓN DE PUERTOS)

Si ha instalado un enrutador de banda ancha con una cámara conectada, debe definir el reenvío del rango de puertos en el enrutador de banda ancha de forma que un PC remoto pueda acceder a la cámara en él.

Reenvío manual del rango de puertos

- 1. En el menú de configuración del enrutador de banda ancha, seleccione <Applications & Gaming> - <Port Range Forward>.
- 2. Seleccione <TCP> y <UDP Port> por cada cámara conectada al enrutador de banda ancha.
- 3. Una vez hecho, haga clic en [Save Settings].



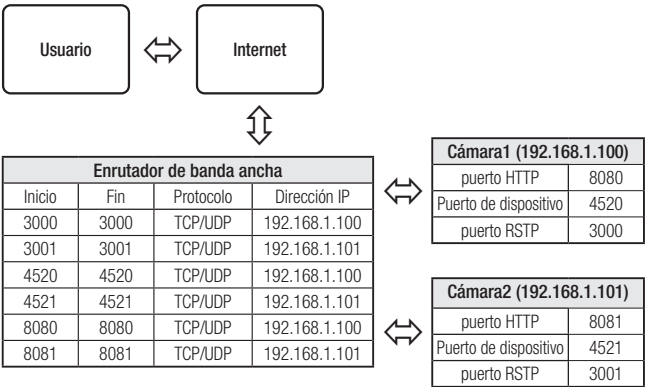
- El ajuste del reenvío del puerto es un ejemplo de configuración del router de la IP de CISCO.
- Es posible que los ajustes difieran dependiendo del modelo de enrutador de banda ancha conectado.

Para obtener información adicional, consulte el manual de usuario del enrutador aplicable.

Configuración del reenvío del rango de puertos de varias cámaras de red

- Puede definir una regla de reenvío de puertos en el dispositivo enrutador de banda ancha a través de su página Web de configuración.
- Un usuario puede cambiar los puertos usando la pantalla de configuración de la cámara.

Cuando la Cámara 1 y la Cámara 2 estén conectadas a un enrutador :



- El enrutamiento de puerto se puede hacer sin una configuración adicional del router si este está adaptado para la función UPnP (Universal Plug and Play).
- Después de conectar la cámara de red, seleccione la casilla de verificación del menú <Conexión rápida> en <DDNS> en "Configuración -> Red -> DDNS".

## CONEXIÓN A LA CÁMARA DESDE UN PC LOCAL COMPARTIDO

---

1. Ejecute el Device Manager.  
Rastreará las cámaras conectadas y mostrará una lista de ellas.
2. Haga doble clic en una cámara para acceder a ella.  
Se inicia el explorador de Internet y se conecta a la cámara.



- También puede acceder a la cámara introduciendo la dirección IP de la cámara encontrada en la barra de direcciones del explorador de Internet.

## CONEXIÓN A LA CÁMARA DESDE UN PC REMOTO A TRAVÉS DE INTERNET

---

En un ordenador remoto que no esté en el clúster de la red del router de banda ancha no está permitido, por lo que los usuarios pueden acceder a las cámaras dentro de la red de un router de banda ancha mediante el uso de la URL del DDNS de la cámara.

1. Antes de poder acceder a una cámara de una red de enrutador de banda ancha, debe haber definido el reenvío del rango de puertos para el enrutador de banda ancha.
2. Desde el PC remoto, inicie el explorador de Internet e introduzca la dirección URL de DDNS de la cámara, o la dirección IP del enrutador de banda ancha en la barra de direcciones.  
ej.) <http://ddns.hanwha-security.com/ID>

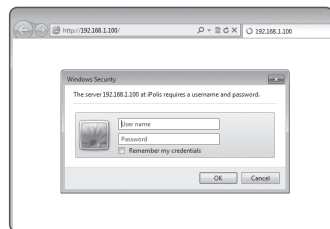


- Para utilizar DDNS, regístrese en la página de inicio de DDNS (<http://ddns.hanwha-security.com>) y registre el producto en **[Mi DDNS]>[Registrar producto]**.

## CONEXIÓN A LA CÁMARA

### Procedimiento normal

1. Inicie el explorador de Internet.
2. Introduzca la dirección IP de la cámara en la barra de direcciones.  
ej.) • Dirección IP (IPv4) : 192.168.1.100 → http://192.168.1.100  
- Debe aparecer el diálogo de inicio de sesión.  
• Dirección IP (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111 → http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - Debe aparecer el diálogo de inicio de sesión.



### Si el número de puerto HTTP no es 80

1. Inicie el explorador de Internet.
2. Introduzca la dirección IP y el número de puerto HTTP de la cámara en la barra de direcciones.  
ej.) Dirección IP : 192.168.1.100:HTTP Port number(8080)  
→ http://192.168.1.100:8080 - Debe aparecer el diálogo de inicio de sesión.

### Utilización del URL

1. Inicie el explorador de Internet.
2. Introduzca el URL de DDNS de la cámara en la barra de direcciones.  
ej.) Dirección URL : http://ddns.hanwha-security.com/ID  
- Debe aparecer el diálogo de inicio de sesión.



- La conexión de red está desactivada en el entorno LAN.

### Conexión a través de UPnP

1. Ejecute el sistema cliente o sistema operativo para el protocolo UPnP.
2. Haga clic en el nombre de la cámara para realizar la búsqueda.  
En el sistema operativo Windows, haga clic en el nombre de la cámara de búsqueda en el menú de red.  
- Aparece la ventana de inicio de sesión.

### Conexión a través de Bonjour

1. Ejecute el sistema cliente o el sistema operativo para el protocolo Bonjour.
2. Haga clic en el nombre de la cámara para realizar la búsqueda.  
En el sistema operativo Mac, haga clic en el nombre de la cámara buscada desde la pestaña Bonjour de Safari.  
- Aparece la ventana de inicio de sesión.

### Para comprobar la dirección de DDNS

Si la cámara está conectada directamente al módem de cable DHCP, al módem DSL o al módem PPPoE, la dirección IP de la red cambiará cada vez que intente conectar al servidor del proveedor de servicios de Internet.

Si este es el caso, no se le informará de la dirección IP modificada por el DDNS.

Una vez que registre el dispositivo con IP dinámica en el servidor DDNS, puede fácilmente cambiar la IP modificada cuando intente acceder al dispositivo.

Para registrar el dispositivo en el servidor de <DDNS>, entre en <http://ddns.hanwha-security.com> y registre primero el dispositivo y, a continuación, establezca <Red> - <DDNS> de Web Viewer en <DDNS>, y facilite el <ID de producto> utilizado durante el registro de DDNS.

## CONFIGURACIÓN DE CONTRASEÑA

Al acceder al producto por primera vez, debe registrar la contraseña de inicio de sesión.

Cuando aparezca la ventana **"Cambiar contraseña"**, introduzca la contraseña nueva.



- Para una nueva contraseña que tenga entre 8 y 9 dígitos, debe utilizar por lo menos 3 mayúsculas/ minúsculas, 3 números y 3 caracteres especiales. Para una contraseña que tenga entre 10 y 15 dígitos, debe utilizar por lo menos 2 de los tipos mencionados.
  - Caracteres especiales que se permiten. : ~!@#%&^\*\_+=|{}?/
- Para mayor seguridad, no se recomienda repetir los mismos caracteres ni entradas consecutivas de teclado en las contraseñas.
- Si ha perdido su contraseña, puede pulsar el botón **[RESET]** para iniciar el producto. Así pues, no pierda la contraseña utilizando un bloc de notas o memoricela.

Administrator password change

New password

Confirm new password

. If the password is 8 to 9 letters long, then it should be a combination of at least three types upper/lower case alphabets, numbers and special characters.  
. If the password is 10 to 15 letters long, then it should be a combination of at least two types upper/lower case alphabets, numbers and special characters.  
. User name should be different from password.  
. The following special characters are available for use. ~!@#%&^\*\_+=|{}?/  
. Don't use 4 or more characters consecutive together. (examples : 1234, abcd)  
. Don't use 4 or more characters repeated. (examples : 111, 1111, aaaa)

## INICIO DE SESIÓN

Siempre que acceda a la cámara, aparecerá la ventana de inicio de sesión. Introduzca el ID de usuario y la contraseña para acceder a la cámara.

1. Introduzca **"admin"** en el cuadro de entrada **<User name>**. La ID del administrador, **"admin"**, es fija y no es posible cambiarla.
2. Introduzca la contraseña en el campo de entrada **<Password>**.
3. Haga clic en **[OK]**. Si ha iniciado sesión correctamente, verá la pantalla de Live Viewer.



- Al acceder al visor de la cámara web, preste especial atención a la seguridad comprobando que los datos de imagen estén encriptados.



- Si marca la opción **"Remember my credentials"** una vez realizada la entrada, la próxima vez se iniciará sesión automáticamente sin que se le pida introducir la información de inicio de sesión.
- Podrá disfrutar de la mejor calidad de video si el tamaño de pantalla es del 100%. Si se reduce la relación existe el riesgo de cortar la imagen en los bordes.

Windows Security

The server 192.168.1.100 at ipolis requires a username and password.

User name

Password

☐ Remember my credentials

OK Cancel

## ESPECIFICACIONES DE COMPATIBILIDAD DEL PLUG-IN PARA CADA NAVEGADOR

El visor web de plug-in existente y un nuevo visor web sin plug-in están integrados de forma conjunta. Esto le permite usar el visor web en los entornos de navegador más recientes que no admiten plug-ins, como Chrome, EDGE y Firefox (solo Windows 64 bits). Para los navegadores que permiten la instalación de complementos, como IE y Safari, se recomienda instalar el plug-in. Según el entorno del navegador, pueden observarse las siguientes diferencias.

- **Navegadores Chrome, FireFox(sólo compatible con Windows 64bit), EDGE** : A pesar de que no son compatibles con los plug-ins, pueden utilizar un visor web ya que está integrado un visor web sin plug-in.
- ! ■ Como el visor web sin plug-in tiene un rendimiento más bajo que el visor web de plug-in, tiene un límite en el monitoreo de los perfiles de alta calidad y la reproducción de videos guardados. Para monitorear los perfiles de alta calidad y reproducir videos guardados, utilice un visor web de plug-in o SmartViewer.
  - Condiciones de creación de visor web sin plug-in: El perfil seleccionado supera MJPEG Full HD 10fps H.265 FullHD 10fps 2Mbps o superior
  - La función de complemento ha sido optimizada para el navegador Chrome.
  - Admite el streaming adaptativo
    - Esta es la característica baja automáticamente el perfil si hay un retraso de más de 5 segundos. Se realizó para evitar problemas como el aumento de la latencia y la ausencia de respuesta del navegador al reproducir el video en un sistema con especificaciones de hardware inferiores a las recomendadas. El perfil de video se reduce en la siguiente secuencia: 1920X1080(20fps) -> 1280X720(20fps) -> 640X480(20fps).
- **Navegador IE, Safari** : Puede utilizar un visor web, incluso si no instala el visor web de plug-in existente.
- ! ■ Para supervisar/reproducir videos guardados sin problemas, es necesario instalar un plug-in.

## INSTALACIÓN DEL PLUGIN WebViewer

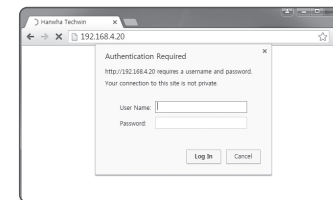
Para acceder al visor web de plug-in y reproducir un vídeo en vivo (H.264/H.265) o un vídeo grabado, aparecerá un mensaje de instalación. En ese momento deberá instalar el plug-in de visor web para utilizar la función correctamente.

1. Cuando se accede por primera vez a la página de monitorización, se muestra la página de instalación. Haga clic [**Download plugin**] en iniciar instalación.
2. Haga clic [**Run**] en la ventana de mensaje.
3. Haga clic [**Yes**] cuando aparezca una ventana que notifica que se cerrarán todas las ventanas del navegador.
4. Los pasos 4 y 5 se omitirán si el Plug-in Web Viewer está instalado.
5. Cuando está instalada la antigua versión del Web Viewer Plug-in, se muestra una ventana de aviso que la versión antigua se borrará la pantalla. Haga clic [**Yes**] cuando la ventana de aviso aparece en la pantalla.
6. Haga clic en [**OK**]. La versión anterior del Plug-in Web Viewer se elimina.
7. Haga clic en [**Install**] para iniciar la instalación del Plug-in Web Viewer. La instalación del Plug-in Web Viewer se ha completado.
8. En el explorador de Internet, si necesita pasar a la pantalla de instalación después de instalar el plugin de visor web, compruebe si `webviewer_activeplugin_lib.control` en el menú "Herramientas → Gestión de función adicional" está "Activado". Si no, y si hay un problema que persiste, a continuación, seleccione "Herramientas → Opciones de Internet → General" y borre todos los registros de búsqueda. Si el problema persiste, registre la IP o el dominio de su cámara en "Herramientas → Opciones de Internet → Seguridad → Sitios de confianza".

## USO DEL VISOR WEB SIN PLUG-IN

Aunque no es posible instalar plug-ins por separado, si accede a la cámara desde los navegadores Google Chrome, Mozilla Firefox o MS Edge, puede ver y controlar el vídeo de la cámara sin instalar complementos.

1. Escriba su nombre de usuario y contraseña para iniciar sesión.
2. Cuando haya iniciado sesión en el sistema, aparecerá una pantalla de visualización en vivo de la cámara.



### Para configurar la cámara

1. Haga clic en el icono [**Configurar** (⚙)].
2. Aparece la ventana de Ajustes.
3. Es posible gestionar los ajustes de la información básica de la cámara, PTZ, vídeo y audio, red, evento, análisis, sistema y plataforma abierta a través de la red.
4. Haga clic en <Ayuda (🔗)> para ver descripciones detalladas de cada función.

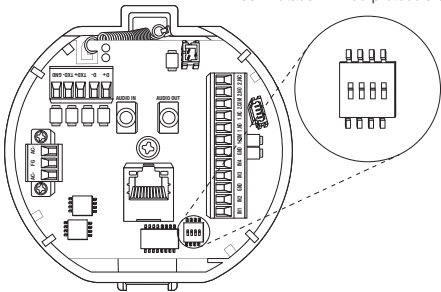
AJUSTE DEL CONMUTADOR DIP

Cómo configurar protocolos y conmutadores DIP de ID

Puede controlar diversos ajustes del sistema de la cámara utilizando los conmutadores de comunicación y DIP de ID. Antes de instalar el producto, configure los conmutadores DIP de acuerdo con el entorno de instalación.

- 1. Ajuste los conmutadores según su entorno de instalación. Para obtener información más detallada sobre la configuración, consulte el diagrama que se incluye en la página siguiente.
- 2. La cámara puede sufrir una avería si los conmutadores no están totalmente encendidos/apagados; vuelva a comprobar los conmutadores antes de finalizar la configuración.
- 3. Atención, el interruptor puede dañarse si se acciona con una herramienta afilada.
- 4. Atención, el interruptor puede dañarse si se acciona con demasiada fuerza.

Conmutador DIP de protocolo de comunicaciones (SW1)



Ajustes del conmutador DIP de protocolo de comunicaciones (SW1)



| Nº de patilla de SW1 | Purpose                                        |
|----------------------|------------------------------------------------|
| 1                    | Conjunto de protocolos de transmisión (RS-485) |
| 2                    | Ajuste terminación 1                           |
| 3                    | Ajuste terminación 2                           |
| 4                    | Reservado                                      |

• Ajustes de métodos de comunicaciones

Seleccione un método de comunicaciones para la cámara.

|        | Función                              | ON | OFF               |
|--------|--------------------------------------|----|-------------------|
| SW1-#1 | Interruptor de modo de transferencia | -  | RS-485 (2 cables) |

• Ajustes de terminación

Para evitar la atenuación de señales de comunicación entre la cámara y el controlador, deben configurarse los elementos del final de la línea con los ajustes de terminación.

| Posición de entrada de cámara    | SW1-#2 | SW1-#3 |
|----------------------------------|--------|--------|
| Terminación de la ruta más larga | ON     | ON     |
| En la ruta                       | OFF    | OFF    |

- El valor predeterminado se resalta en cada tabla de ajustes.
- Para utilizar con este producto el controlador de otro fabricante, póngase en contacto con el Servicio postventa o con el Departamento de Tecnología.

CABLES DE LA CÁMARA

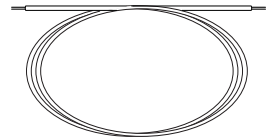
Conexión de señal de control

- Comunicaciones RS-485



Cable de comunicaciones

Para que la cámara comunique con el controlador, se necesita una línea de comunicaciones RS-485.



- Para la conexión, se recomienda un cable con una longitud máxima de 30m.
- El cable de comunicaciones no se incluye con la cámara.

## SOLUCIÓN DE PROBLEMAS

| PROBLEMA                                                                                                                                           | SOLUCIÓN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Cuando un usuario de Windows 10 accede al visor web a través de Chrome o Firefox, el volumen de sonido del micrófono cambia periódicamente.</p> | <ul style="list-style-type: none"> <li>Esto es lo que sucede cuando el controlador del micrófono se ha configurado en el controlador Realtek. Instale el dispositivo de audio de alta definición (controlador predeterminado de Windows) o el controlador de terceros como el controlador de micrófono.</li> </ul>                                                                                                                                                                                                                                             |
| <p>No se visualiza ningún vídeo al acceder al visor web sin plug-in en Safari a través de HTTPS.</p>                                               | <ul style="list-style-type: none"> <li>En la ventana emergente de autenticación que aparece cuando se accede inicialmente a https, haga clic en "Ver certificado de autenticación" y seleccione la casilla "Confiar siempre al conectar con la IP del visor web designado".</li> <li>Si el visor web continúa sin mostrar un vídeo después de seleccionar "Siguiente" en la ventana de mensaje siguiente, pulse la tecla de Comando + Q para salir del navegador Safari, obtenga acceso de nuevo y siga los procedimientos indicados anteriormente.</li> </ul> |
| <p>No se puede acceder a la cámara desde un navegador web.</p>                                                                                     | <ul style="list-style-type: none"> <li>Compruebe para asegurarse de que las configuraciones de Red de la cámara son las apropiadas.</li> <li>Compruebe para asegurarse de que todos los cables de red se han conectado bien.</li> <li>Si está conectado mediante DHCP, compruebe que la cámara puede admitir direcciones IP dinámicas sin problemas.</li> <li>Si la cámara está conectada al Enrutador de banda ancha, compruebe que el reenvío de puertos está configurado adecuadamente.</li> </ul>                                                          |
| <p>El Visualizador se desconecta durante el control.</p>                                                                                           | <ul style="list-style-type: none"> <li>Los Visualizadores conectados se desconectan debido a cualquier cambio en las configuraciones de cámara o de red.</li> <li>Compruebe todas las conexiones de red.</li> <li>Si la cámara está conectada por una red PPPoE, es posible que el Visualizador se desconecte con condiciones de red pobres.</li> </ul>                                                                                                                                                                                                        |
| <p>La cámara conectada a la red no se detecta en el programa del Device Manager.</p>                                                               | <ul style="list-style-type: none"> <li>Apague las configuraciones de cortafuegos en su ordenador, y luego vuelva a buscar la cámara.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>Se superponen imágenes.</p>                                                                                                                     | <ul style="list-style-type: none"> <li>Compruebe si dos o más cámaras están configuradas en una única dirección multicast en lugar de diferentes direcciones. Si se utiliza una única dirección para varias cámaras, las imágenes se pueden superponer.</li> </ul>                                                                                                                                                                                                                                                                                             |
| <p>No aparece imagen.</p>                                                                                                                          | <ul style="list-style-type: none"> <li>Si el método de transmisión está configurado como multicast, compruebe si hay un router que admita multicast en el LAN al que esté conectado la cámara.</li> </ul>                                                                                                                                                                                                                                                                                                                                                      |

| PROBLEMA                                                                                                                                                                                                          | SOLUCIÓN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>La voz no se graba aunque se configuren los ajustes de entrada de audio.</p>                                                                                                                                   | <ul style="list-style-type: none"> <li>Debe activar la casilla &lt;Entrada de audio&gt; en &lt;Básico&gt; - &lt;Perfil de vídeo&gt;.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <p>&lt;Detección de movimiento&gt; de &lt;Analítica&gt; está ajustado en &lt;Activar&gt;, pero no me llega una notificación por correo electrónico, ni siquiera cuando se ha producido un evento de análisis.</p> | <ul style="list-style-type: none"> <li>Verifique los ajustes en la secuencia siguiente: <ul style="list-style-type: none"> <li>A. Compruebe los ajustes de &lt;Fecha y hora&gt;.</li> <li>B. &lt;Detección de movimiento&gt; debe definirse en &lt;Activar&gt;.</li> <li>C. Compruebe si la opción &lt;E-mail&gt; del menú &lt;Config. de evento&gt; está marcada para ser utilizada.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <p>No se encuentra ninguna señal en el puerto de salida de alarma cuando se genera un evento de análisis de vídeo inteligente.</p>                                                                                | <ul style="list-style-type: none"> <li>Compruebe los ajustes del puerto de salida de alarma.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <p>No se puede grabar en la tarjeta de memoria Micro SD.</p>                                                                                                                                                      | <ul style="list-style-type: none"> <li>Compruebe si la tarjeta de memoria está defectuosa.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <p>La tarjeta de memoria Micro SD está insertada pero no funciona correctamente.</p>                                                                                                                              | <ul style="list-style-type: none"> <li>Compruebe si la tarjeta de memoria se ha insertado en la dirección correcta. En esta cámara, no se garantiza el funcionamiento de una tarjeta de memoria formateada con otros dispositivos</li> <li>Formatee de nuevo la tarjeta de memoria en el menú &lt;Config.&gt; → &lt;Evento&gt; → &lt;Almacenamiento&gt;.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p>No se puede grabar en la NAS.</p>                                                                                                                                                                              | <ul style="list-style-type: none"> <li>Compruebe que la información registrada en la NAS es correcta.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <p>Se está indicando que la configuración de la NAS ha fallado.</p>                                                                                                                                               | <ul style="list-style-type: none"> <li>Compruebe que la dirección IP de NAS sea válida.</li> <li>Compruebe que el ID / contraseña de NAS sea válido</li> <li>Compruebe que puede acceder a la carpeta designada como la carpeta básica utilizando el ID de la NAS.</li> <li>Asegúrese de que los elementos SMB / CIFS de NAS estén sin marcar.</li> <li>Compruebe que la dirección IP de NAS y la dirección IP de la cámara tengan el mismo formato. <ul style="list-style-type: none"> <li>Ejemplo) el valor inicial de la NAS y de la máscara de subred de la cámara es 255.255.255.0.</li> <li>Si la dirección IP es 192.168.20.32 entonces la dirección IP de NAS debe estar entre 192.168.20.1 y 192.168.20.255.</li> </ul> </li> <li>Verifique si ha intentado acceder como otro usuario sin formatear la carpeta básica almacenada o usada.</li> <li>Compruebe que utilizó las unidades NAS recomendadas.</li> </ul> |

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| Component Name     | License | URL                                        |
|--------------------|---------|--------------------------------------------|
| Base Kernel        | GPL 2.0 |                                            |
| Busybox            | GPL 2.0 | http://www.busybox.net/downloads/snapshots |
| iproute2-4.3.0     | GPL 2.0 |                                            |
| iptables-1.4.21    | GPL 2.0 | http://ftp.netfilter.org/pub/iptables      |
| ethtool-4.2        | GPL 2.0 |                                            |
| mtdd-1.5.2         | GPL 2.0 | ftp://ftp.infradead.org/pub/mtdd-utils     |
| mi-diag-2.11       | GPL 2.0 |                                            |
| rp-pppoe-3.11      | GPL 2.0 | http://www.roaringpenguin.com/pppoe/       |
| wpa_supplicant-2.5 | GPL 2.0 |                                            |
| bash-4.3.30        | GPL 3.0 |                                            |
| zerocoinf          | 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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The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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

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| zlib-1.2.8     | zlib / libpng | <a href="http://zlib.net/">http://zlib.net/</a> |

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

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