

CÁMARA DE RED

Manual del usuario

QND-7010R/7020R/7030R,
QNO-7010R/7020R/7030R,
QNV-7010R/7020R/7030R

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. Límpielo únicamente con un paño seco.
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 está diseñado para alimentarse mediante una unidad de fuente de alimentación registrada con marcas de "Clase 2" o "LPS" y con una clasificación nominal de 12 V CC, 0.56 A.
16. 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.
17. 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.
18. 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.
19. 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.
20. 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.

PRECAUCIÓN

	PRECAUCIÓN NO ABRIR RIESGO DE SUFRIR UNA DESCARGA ELÉCTRICA	
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.		

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 intensas 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 acoplamiento 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.

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.

ÍNDICE GENERAL

DESCRIPCIÓN	3	Instrucciones de Seguridad Importantes
	6	Características Recomendadas del Ordenador
3	6	Especificaciones de la Tarjeta de Memoria Micro SD/SDHC/SDXC Recomendada
	6	Especificaciones recomendadas para NAS
	6	Componentes
	8	Vista (QND-7010R/7020R/7030R)
	10	Vista (QNO-7010R/7020R/7030R)
	11	Vista (QNV-7010R/7020R/7030R)

INSTALACIÓN Y CONEXIÓN	13	Instalación (QND-7010R/7020R/7030R)
	14	Instalación (QNO-7010R/7020R/7030R)
	15	Instalación (QNV-7010R/7020R/7030R)
13	18	Inserción/Extracción de una Tarjeta de Memoria Micro SD
	19	Información de la Tarjeta de Memoria (No Incluida)
	20	Conexión con otros Dispositivos

CONEXIÓN Y CONFIGURACIÓN DE LA RED	23	Conectar la Cámara Directamente a la Red de Área Local
	23	Conexión Directa de la Cámara a un Módem DSL/Cable Basado en DHCP
23	24	Conexión de la Cámara Directamente al Módem PPPoE
	24	Conectar la Cámara a un Enrutador de Banda Ancha con el Módem PPPoE/Cable
	25	Cómo usar el Device Manager
	25	Búsqueda automática de la cámara
	25	Cómo configurar la dirección IP
	26	Cómo registrar la cámara manualmente
	26	Configuración automática de la IP
	27	Configuración de Reenvío del Rango de Puertos (Asignación de Puertos)
	28	Conexión a la Cámara desde un PC local Compartido
	28	Conexión a la Cámara desde un PC remoto a Través de Internet

WEB VIEWER	29	Conexión a la Cámara
	30	Configuración de contraseña
29	30	Inicio de Sesión
	30	Configuración del visor web de la cámara

APÉNDICE	31	Solución de Problemas
31	32	Open Source Announcement

CARACTERÍSTICAS RECOMENDADAS DEL ORDENADOR

- CPU : Intel(R) Core(TM) i7 a 3,4 GHz o superior
- SO admitido : Windows 7, 8.1, 10, Mac OS X 10.9, 10.10, 10.11
- **Visor web sin plug-in**
Navegadores web compatibles: Google Chrome 47, MS Edge 20
- **Visor web de plug-in**
Navegadores web compatibles: MS Explorer 11, Mozilla Firefox 43, Apple Safari 9 ※ sólo compatible con Mac OS X
- VGA : Tarjeta gráfica de vídeo PCIe 256 MB GDDR3 o superior

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







- Capacidad recomendada : 4GB ~ 128GB (clase UHS-1)
- Para su cámara, le recomendamos utilizar una tarjeta de memoria de los siguientes fabricantes:
Tarjeta de memoria Micro SD/SDHC/SDXC : Sandisk, Transcend







ESPECIFICACIONES RECOMENDADAS PARA NAS







- Capacidad recomendada : Se recomienda que sea de 200 GB o superior.
- Para esta cámara, se recomienda utilizar una unidad NAS con las siguientes especificaciones del fabricante.
Productos recomendados : QNAP NAS, Synology NAS

COMPONENTES




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	Nombre del modelo
	Cámara	1		QND-7010R/7020R /7030R
		1		QNO-7010R/7020R /7030R
		1		QNV-7010R/7020R /7030R
	Manual de consulta rápida (Opcional)	1		Use para todos los modelos
	Plantilla	1	Guía de instalación del producto	Use para todos los modelos
	Bloque de terminales de energía	1	Conectado al enchufe	QND-7010R/7020R /7030R, QNV-7010R/7020R /7030R

Aspecto	Nombre de elemento	Cantidad	Descripción	Nombre del modelo
	Tornillos de rosca	2	Se utilizan para montar la cubierta del domo al instalar el producto en un tubo, en un soporte de montaje de pared, etc. o para bloquear un orificio.	QND-7010R/7020R /7030R, QNV-7010R/7020R /7030R
	Llave en L	1	Se utiliza para controlar la dirección de la cámara / Se utiliza para quitar y sustituir la tapa del domo	QNO-7010R/7020R /7030R, QNV-7010R/7020R /7030R
	Tornillo de rosca cortante	2	Se utiliza para la instalación en pared o en techo	QND-7010R/7020R /7030R, QNV-7010R/7020R /7030R
		3		QNO-7010R/7020R /7030R
	Cable de alarma	1	Se utiliza al conectar a una alarma	QND-7010R/7020R /7030R
	Accesorio impermeable RJ45	1	Se usa para la instalación en lugares húmedos	QNO-7010R/7020R /7030R

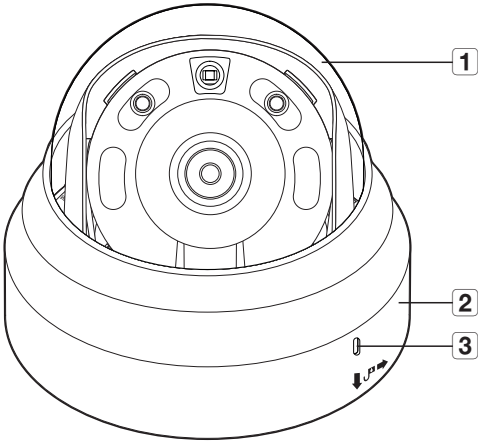
Aspecto	Nombre de elemento	Cantidad	Descripción	Nombre del modelo
	Protección solar	1	Protege la cámara de la luz directa del sol.	QNO-7010R/7020R /7030R
	Soporte de protección solar	1	Fija la protección solar a la cámara.	QNO-7010R/7020R /7030R
	Tipo de tarjeta que absorbe la humedad	3	Se adjunta cuando se instala.	QNO-7010R/7020R /7030R
		1		QNV-7010R/7020R /7030R
	Cable de alimentación	1	Se utiliza para conectar al puerto de alimentación	QNV-7010R/7020R /7030R
	Cable de audio/alarma	1	Se utiliza para conectar al puerto de audio y alarma	QNV-7010R/7020R /7030R

descripción

Aspecto	Nombre de elemento	Cantidad	Descripción	Nombre del modelo
	Pasacables	1	Se utiliza para conectar el cable LAN con un diámetro de Ø7~8,5.	QNV-7010R/7020R /7030R
	Anclaje de plástico	2	Para fijar un tornillo, insertado en un orificio (fuerza de anclaje reforzada)	QNV-7010R/7020R /7030R
Opciones (no incluidas)				
	Soporte de montaje en poste		Soporte de montaje en poste cilíndrico	QNO-7010R/7020R /7030R

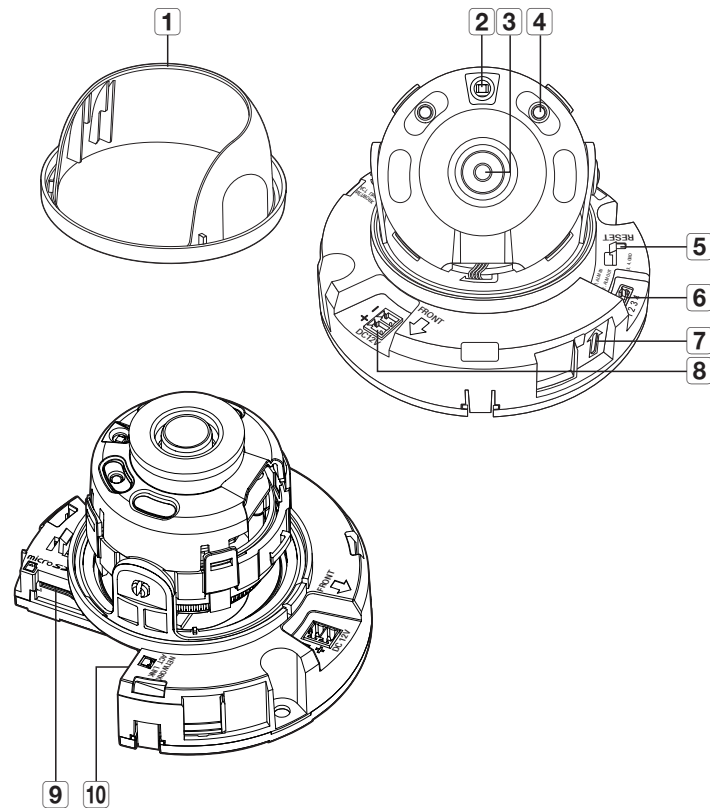
VISTA (QND-7010R/7020R/7030R)

Aspecto



Elemento	Descripción
1 Tapa curvada	Cubierta utilizada para proteger el objetivo y la unidad principal.
2 Caja de la cámara	Parte del alojamiento que cubre la carcasa de la cámara.
3 Orificio de micrófono	El micrófono está integrado

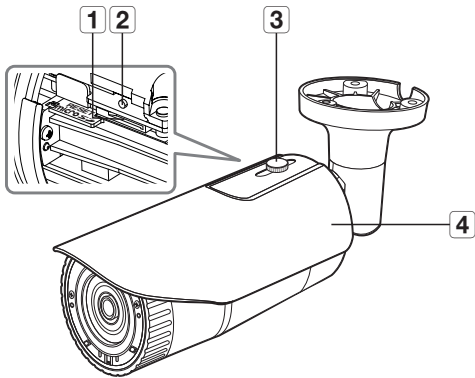
Componentes




Elemento		Descripción
1	Cubierta interior	Funda protectora para el cuerpo principal.
2	Sensor de iluminación	Detecta la luz entrante para controlar el LED de infrarrojos.
3	Objetivo	Objetivo de la cámara.
4	LED IR	Son LED de infrarrojos que se controlan mediante un sensor de iluminación.
5	Botón de reinicialización	<p>Este botón restaura los valores predeterminados de la cámara. Manténgalo pulsado durante unos 5 segundos para reiniciar el sistema.</p> <p>■ Si reinicia la cámara, los ajustes de red se ajustarán de forma que se pueda habilitar DHCP. Si no hay ningún servidor DHCP en la red, debe ejecutar el programa del Device Manager para cambiar los ajustes básicos de la red tales como la dirección IP, la máscara de subred, la puerta de enlace, etc., antes de poder conectarse a la red.</p>
6	Puerto E/S de alarma	ARM-IN Se utiliza para conectar el sensor de entrada de la alarma o el sensor externo de día/noche
		ARM-OUT Se utiliza para conectar la señal de salida de alarma.
		GND Estos son los puertos comunes para conectar las señales de entrada/salida de la alarma.
7	Orificio de micrófono	El micrófono está integrado.
8	Puerto de Alimentación	Puerto para el bloque de terminales de alimentación.
9	Compartimento de la tarjeta de memoria Micro SD	Compartimento de la tarjeta de memoria Micro SD.
10	Puerto Red	Se utiliza para conectar el cable PoE o Ethernet para la conexión de red.

VISTA (QNO-7010R/7020R/7030R)

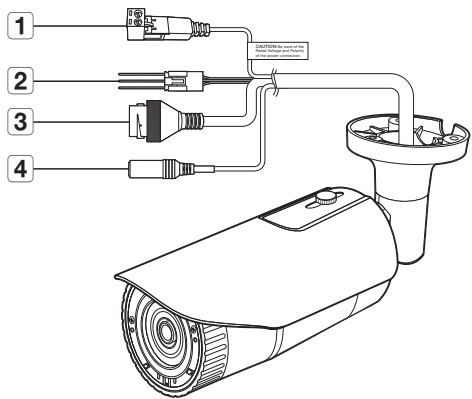
Aspecto



Elemento	Descripción
1 Ranura para tarjeta Micro SD	(Espacio interno del producto) Se trata de una ranura en la que se puede insertar una tarjeta Micro SD.
2 Botón de reinicialización	Este botón restaura los valores predeterminados de la cámara. Manténgalo pulsado durante unos 5 segundos para reiniciar el sistema. ■ Si reinicia la cámara, los ajustes de red se ajustarán de forma que se pueda habilitar DHCP. Si no hay ningún servidor DHCP en la red, debe ejecutar el programa del Device Manager para cambiar los ajustes básicos de la red tales como la dirección IP, la máscara de subred, la puerta de enlace, etc., antes de poder conectarse a la red.
3 Soporte de protección solar	Fija la protección solar a la cámara.
4 Protección solar	Protege la cámara de la luz directa del sol.

 ■ Limpie suavemente con un pañuelo o un paño especial impregnado de etanol la superficie sucia del objetivo.

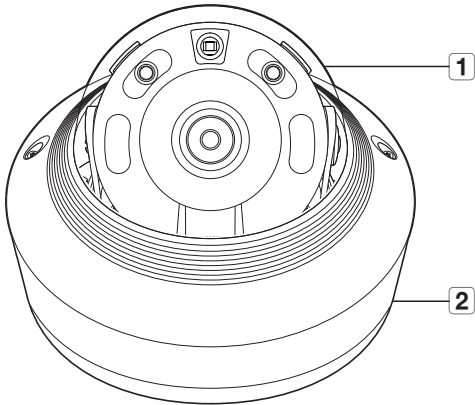
Componentes



Elemento	Descripción	
1 Puerto de Alimentación	Se utiliza para enchufar el cable de alimentación.	
2 Puerto E/S de alarma	ARM-OUT	Se utiliza para conectar la señal de salida de alarma.
	GND	Estos son los puertos comunes para conectar las señales de entrada/salida de la alarma.
	ARM-IN	Se utiliza para conectar el sensor de entrada de la alarma o el sensor externo de día/noche
3 Puerto Red	Se utiliza para conectar el cable PoE o Ethernet para la conexión de red.	
4 Toma de entrada de audio	Se utiliza para conectar un micrófono.	

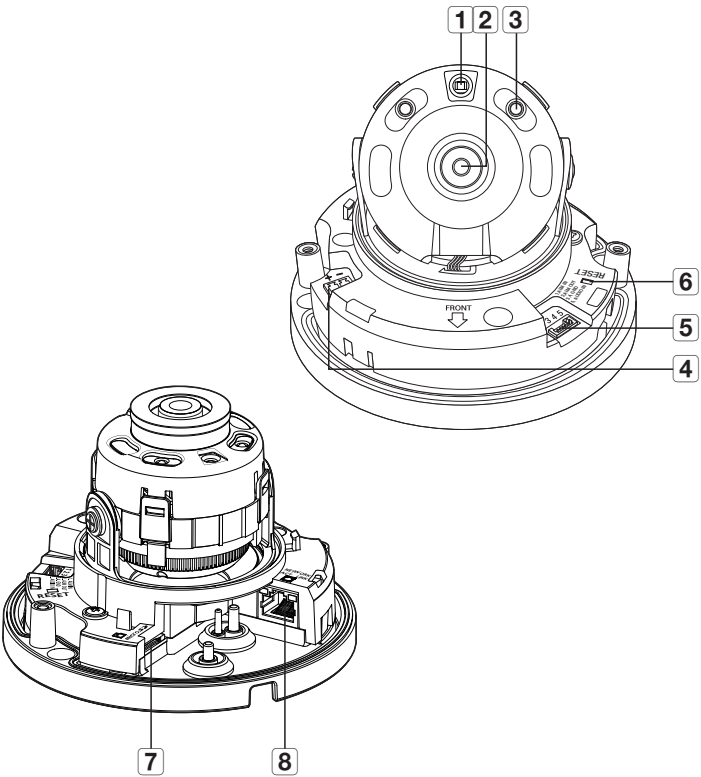
VISTA (QNV-7010R/7020R/7030R)

Aspecto



Elemento	Descripción
1 Tapa curvada	Cubierta utilizada para proteger el objetivo y la unidad principal.
2 Caja de la cámara	Parte del alojamiento que cubre la carcasa de la cámara.

Componentes



Elemento	Descripción
1 Sensor de iluminación	Detecta la luz entrante para controlar el LED de infrarrojos.
2 Objetivo	Objetivo de la cámara.
3 LED IR	Son LED de infrarrojos que se controlan mediante un sensor de iluminación.
4 Puerto de Alimentación	Puerto para el bloque de terminales de alimentación.
5 Puerto del cable de audio y alarma	Terminal al que se conectan el cable de audio y alarma para conectar a un micrófono/dispositivo de alarma externo.
6 Botón de reinicialización	<p>Este botón restaura los valores predeterminados de la cámara. Manténgalo pulsado durante unos 5 segundos para reiniciar el sistema.</p> <p>i Si reinicia la cámara, los ajustes de red se ajustarán de forma que se pueda habilitar DHCP. Si no hay ningún servidor DHCP en la red, debe ejecutar el programa del Device Manager para cambiar los ajustes básicos de la red tales como la dirección IP, la máscara de subred, la puerta de enlace, etc., antes de poder conectarse a la red.</p>
7 Compartimento de la tarjeta de memoria Micro SD	Compartimento de la tarjeta de memoria Micro SD.
8 Puerto Red	Se utiliza para conectar el cable PoE o Ethernet para la conexión de red.

INSTALACIÓN (QND-7010R/7020R/7030R)

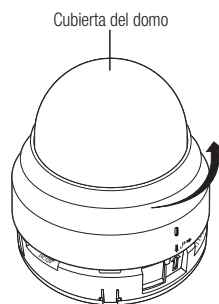
Precauciones antes de la instalación

Asegúrese de leer las siguientes instrucciones antes de instalar la cámara:

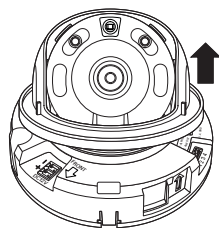
- Debe estar instalada en una zona (techo o pared) que pueda soportar 5 veces el peso de la cámara, incluido el soporte de la instalación.
- Cables doblados o pelados pueden causar daños en el producto o producir un incendio.
- Por razones de seguridad, mantenga alejado a todo el mundo del lugar de la instalación. Y guarde aparte las pertenencias personales, como precaución.

Desmontaje

1. Con una mano mantenga firme la parte inferior de la cámara y gire la tapa en sentido contrario a las agujas del reloj con la otra mano para separarla.

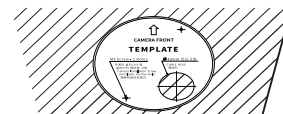


2. Levante la tapa interior y sepárela.



Instalación

1. Fije la plantilla de instalación al área seleccionada y haga 3 orificios como se muestra en la figura.



2. Utilizando los 2 tornillos de rosca suministrados, fije la cámara a los 2 orificios perforados con la plantilla.

- Coloque la marca <↑> impresa en la cámara para que quede en la dirección de funcionamiento de la cámara.

3. Conecte el terminal interior de la cámara con el cable correspondiente.

4. Ajuste el objetivo en la dirección que desee consultando la sección "Ajuste de la dirección de la cámara". (página 17)



- Recomendamos no tocar la lente, ya que esta se ha enfocado de modo correcto durante el proceso final de fabricación. Evite así que la lente se desenfoque o se ensucie de elementos extrañas.

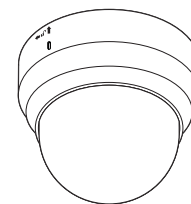
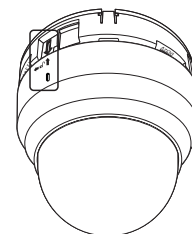
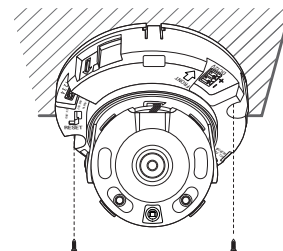
5. Conecte la cubierta interior al cuerpo principal.

6. Mientras sujeta la parte posterior de la cámara con la mano, sujete y tire de la cubierta con la otra mano para alinear los dos símbolos de flecha, como se muestra en la figura.



- Para montar la cubierta del domo, ponga las flechas de modo que coincidan una con otra y presione firmemente. Si la cubierta del domo se gira durante el montaje o se monta de forma incorrecta, puede ocurrir una reflexión difusa o la sección de la lente pueden rotar; esto causará que cambie el rango de disparo.

- Asegúrese de que la cubierta del domo está correctamente conectada a la parte inferior como se muestra en la figura. Si el ajuste a presión no se conecta correctamente, la cubierta del domo puede caer y causar lesiones.



INSTALACIÓN (QNO-7010R/7020R/7030R)



- La cámara es resistente al agua y cumple la norma IP66. No obstante, el conector hembra conectado al cable externo no lo es. Se recomienda instalar este producto por debajo del borde de los aleros para evitar que el cable quede en el exterior.

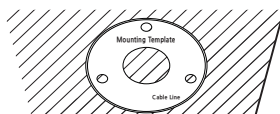
Precauciones antes de la instalación

Asegúrese de leer las siguientes instrucciones antes de instalar la cámara:

- Debe estar instalada en una zona (techo o pared) que pueda soportar 5 veces el peso de la cámara, incluido el soporte de la instalación.
- Cables doblados o pelados pueden causar daños en el producto o producir un incendio.
- Por razones de seguridad, mantenga alejado a todo el mundo del lugar de la instalación. Y guarde aparte las pertenencias personales, como precaución.

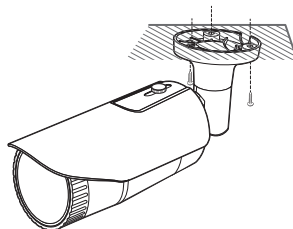
Instalación

- Coloque la plantilla de instalación en una ubicación deseada y haga 3 orificios del mismo tamaño que aparece en la imagen siguiente.



- Inserte y apriete los 3 tornillos de rosca incluidos en los 3 orificios para asegurar la cámara.

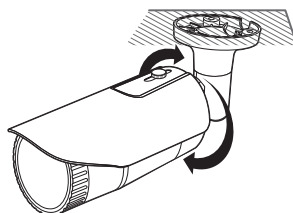
- Conecte los cables adecuados con los terminales de la cámara.



- Ajuste la dirección de la cámara con la llave L suministrada.

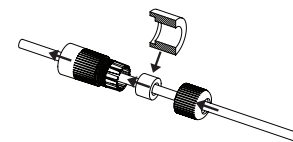


- Al ajustar la posición de la cámara utilizando un soporte, afloje el tornillo del soporte, ajuste la cámara, y apriételo. Si intenta ajustarlo a la fuerza cuando el tornillo está apretado, podría causar ralladuras u otros problemas.

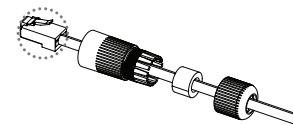


Cómo conectar el cable impermeable RJ45 a un cable LAN

- Inserte el cable en la dirección de la flecha.



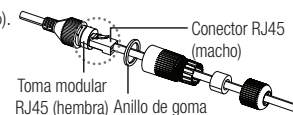
- Conecte el conector LAN (macho) al cable.



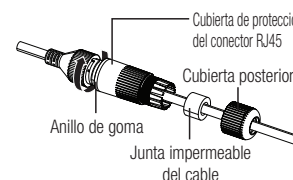
- Conecte la toma modular RJ45 (hembra) al conector RJ45 (macho).



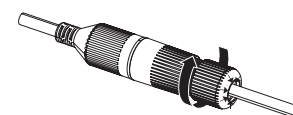
- Mantenga cada una de las partes separadas.



- Instale girando la toma modular RJ45 (hembra) y la cubierta de protección RJ45 hacia la derecha (siga la flecha).



- Instale girando la cubierta de protección RJ45 y la cubierta posterior hacia la derecha (siga la flecha). Cuando se instala la cubierta posterior, la junta impermeable de cable se conecta firmemente al cable para hacerla impermeable.



- Debe estar totalmente instalado para girar la cubierta posterior hasta el final de la rosca de tornillo del conector RJ45.

Instalación en el exterior

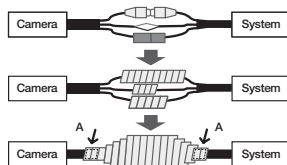
Cuando instale la cámara en un lugar exterior, impermeabilícela con cinta de goma de butilo resistente al agua (disponible en tiendas), para que el agua no entre por el espacio del cable conectado al exterior.

1. Conecte los cables de alimentación, E/S, AUDIO y de la red LAN.

2. Envuelva el aislante negro del cable (Área A) y la parte de conexión del cable con cinta (de goma de butilo) impermeable, de modo que más de la mitad de esta cinta quede superpuesta.



- Si el aislante del cable no se impermeabiliza correctamente, puede haber filtraciones. Asegúrese que el cable queda protegido con una densa capa de cinta.
- La cinta de butilo resistente al agua está fabricada con goma de butilo, que puede estirarse el doble de su longitud normal.



INSTALACIÓN (QNV-7010R/7020R/7030R)



- La cámara es resistente al agua y cumple la norma IP66. No obstante, el conector hembra conectado al cable externo no lo es. Se recomienda instalar este producto por debajo del borde de los aleros para evitar que el cable quede en el exterior.

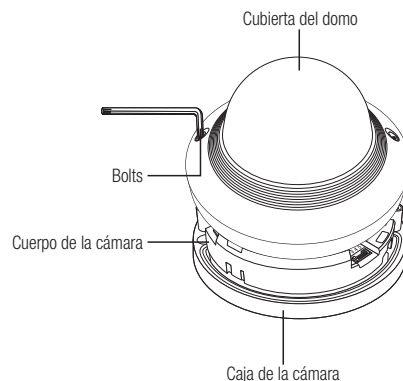
Precauciones antes de la instalación

Asegúrese de leer las siguientes instrucciones antes de instalar la cámara:

- Debe estar instalada en una zona (techo o pared) que pueda soportar 5 veces el peso de la cámara, incluido el soporte de la instalación.
- Cables doblados o pelados pueden causar daños en el producto o producir un incendio.
- Por razones de seguridad, mantenga alejado a todo el mundo del lugar de la instalación. Y guarde aparte las pertenencias personales, como precaución.

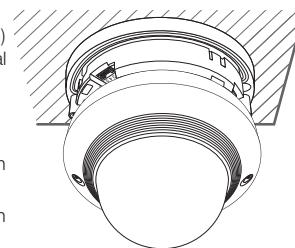
Desmontaje

1. Con la llave L suministrada, gire los 2 tornillos de fijación de la cubierta del domo hacia la izquierda para retirar la cubierta.



Instalación

1. Utilizando el patrón incluido como accesorio, perforo el agujero para el tornillo (diámetro de 6 mm, profundidad mínima de 55 mm) e inserte firmemente el taco de plástico incluido como accesorio al final de mismo.
2. Haga coincidir el orificio de la parte inferior con el orificio del taco, insértelo y fíjelo con el tornillo de rosca cortante (M4.5xL50).
3. Conecte y coloque los cables necesarios de forma que no puedan dañarse ni doblarse al instalar la cámara.
4. Ajuste el objetivo en la dirección que desee consultando la sección "Ajuste de la dirección de la cámara". (página 17)
5. Cierre la cubierta del domo.
 - Asegure firmemente el tornillo de fijación con una llave L para evitar que el agua se filtre.

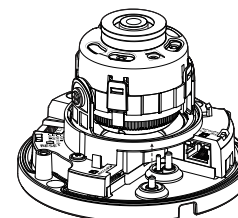


Conectar el cable LAN

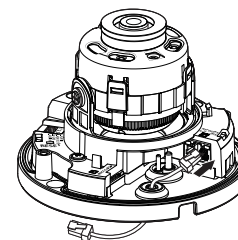
1. Retire la cubierta del domo de la carcasa.
2. Tire de la parte alargada del enchufe hacia la parte inferior y retírelo tal y como se indica en la figura.



- Utilice un pasacables adecuado para conectar el cable LAN.
 - Cámara básica: utilice el cable con diámetro de Ø5~6,5.
 - Componentes suministrados: utilice el cable con diámetro de Ø7~8,5.

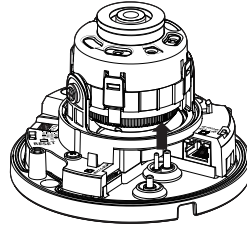


3. Introduzca el cable LAN en el orificio grande realizado al retirar la parte proyectada del enchufe en el paso 2.
4. Retire la cubierta con un cortador de cable y alinee los cables.
5. Conecte el cable LAN con un conector LAN, e introdúzcalo en el aparato LAN.
6. Conecte el cable al puerto Ethernet.

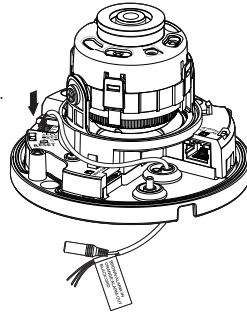


Conectar el cable de audio/alarma y el cable de alimentación

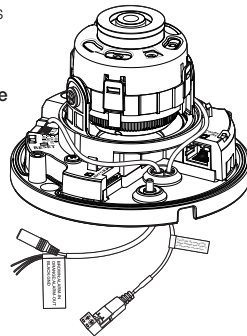
1. Retire la cubierta del domo de la carcasa.
2. Tire de la parte alargada del enchufe hacia la parte inferior y retírelo tal y como se indica en la figura.



3. Inserte el cable de alarma/audio a través del orificio creado al retirar la tapa de goma en el N° 2, y conecte el cable al terminal de alarma.
4. Alinee el cable para no dañarlo o atraparlo al instalar la cámara.
5. Ponga la tapa de goma ubicada en el cable de alarma/audio en el orificio.



6. Inserte el cable de alimentación en el orificio de pequeño tamaño a través de la ranura larga acanalada.
7. Conecte el cable de alimentación al bloque del terminal de alimentación.
8. Ajuste el objetivo en la dirección que desee consultando la sección "**Ajuste de la dirección de la cámara**". (página 17)
9. Coloque la cubierta del domo.



Colocación en el adaptador no suministrado

Elija y compre una de las opciones siguientes (no suministradas) apropiada para el lugar de instalación o que se adapte a sus preferencias.

1. Retire la cubierta del domo de la carcasa según se indica en el apartado "**Desmontado**". (página 15)
2. Utilice el tornillo ensamblado para fijar la caja de la cámara al adaptador no suministrado.
3. Conecte y coloque los cables necesarios de forma que no puedan dañarse ni doblarse al instalar la cámara.
4. Instale la carcasa de la cámara en el orden inverso a las instrucciones de "**Desmontaje**".
5. Ajuste el objetivo en la dirección que desee consultando la sección "**Ajuste de la dirección de la cámara**". (página 17)
6. Cierre la cubierta del domo.
 - Asegure firmemente el tornillo de fijación con una llave L para evitar que el agua se filtre.

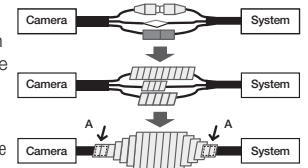
Instalación en el exterior

Cuando instale la cámara en un lugar exterior, impermeabilícela con cinta de goma de butilo resistente al agua (disponible en tiendas), para que el agua no entre por el espacio del cable conectado al exterior.

1. Conecte los cables de alimentación, E/S, BNC y de la red LAN.
2. Envuelva el aislante negro del cable (Área A) y la parte de conexión del cable con cinta (de goma de butilo) impermeable, de modo que más de la mitad de esta cinta quede superpuesta.



- Si el aislante del cable no se impermeabiliza correctamente, puede haber filtraciones. Asegúrese que el cable queda protegido con una densa capa de cinta.
- La cinta de butilo resistente al agua está fabricada con goma de butilo, que puede estirarse el doble de su longitud normal.

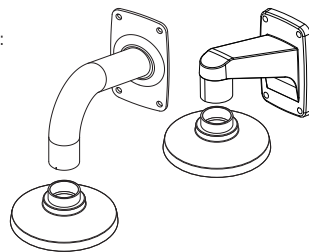


Accesorios opcionales para la instalación

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

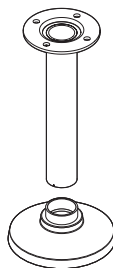
1. ADAPTADOR DE MONTAJE EN PARED (SBP-300WM o SBP-300WM1) / MONTAJE COLGANTE (QND-7010R/7020R/7030R : SBP-300HM8)

Este adaptador se utiliza para instalar la cámara domo en la pared.



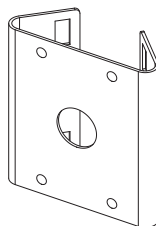
2. ADAPTADOR DE MONTAJE EN TECHO (SBP-300CM) / MONTAJE COLGANTE (QND-7010R/7020R/7030R : SBP-300HM8)

Este adaptador se utiliza para instalar la cámara domo en un techo de hormigón.



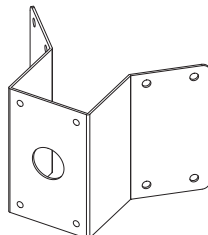
3. ADAPTADOR DE MONTAJE EN POSTE (SBP-300PM)

Se trata de un adaptador para la instalación del ADAPTADOR DE MONTAJE EN PARED (SBP-300WM o SBP-300WM1) en un poste cuyo diámetro sea mayor de 80 mm.

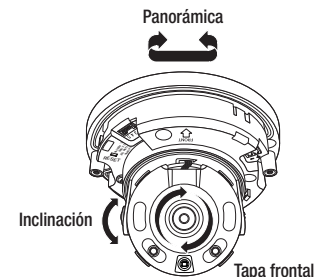


4. ADAPTADOR DE MONTAJE EN ESQUINA (SBP-300KM)

Se trata de un adaptador para la instalación del ADAPTADOR DE MONTAJE EN PARED (SBP-300WM o SBP-300WM1) en una esquina de la pared.



Ajuste de la dirección de la cámara (QND-7010R/7020R/7030R, QNV-7010R/7020R/7030R)



■ Ajuste de la dirección de vigilancia

Puede ajustar la dirección de la cámara sólo cuando la cámara esté fija al techo.

Girar la unidad de la cámara a la izquierda o a la derecha se denomina Panorámica, ajustar la inclinación se denomina Inclinación y girar el objetivo sobre su eje se denomina Rotación.

- El rango efectivo de la panorámica es de 350 grados.
- El rango efectivo de giro es de 355 grados.
- El rango efectivo de inclinación es de 67 grados.



- La imagen puede quedar cubierta por la carcasa de la cámara según el ángulo.
- No gire la lente de enfoque/zoom con fuerza una vez que la carcasa del domo esté desinstalada. De lo contrario, puede realizar un enfoque incorrecto debido a un fallo del motor.

■ Métodos de ajuste

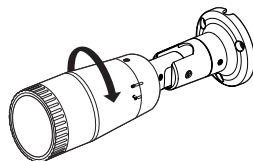
1. Tras instalar la cámara, ajuste el ángulo de panorámica teniendo en cuenta la dirección de vigilancia.
2. Ajuste el ángulo horizontal, de modo que la imagen no quede invertida.
3. Ajuste el ángulo de inclinación de forma que la cámara apunte hacia el objeto vigilado.

INSERCIÓN/EXTRACCIÓN DE UNA TARJETA DE MEMORIA MICRO SD

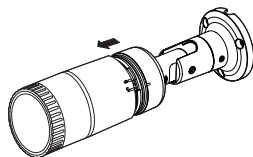
- ❗
- Desconecte el cable de alimentación de la cámara antes de insertar la tarjeta de memoria Micro SD.
- No inserte al revés la tarjeta de memoria Micro SD forzándola. Si lo hace, podría dañar la tarjeta de memoria Micro SD.
- Cuando llueve o la humedad es alta, no se recomienda que inserte o expulse una tarjeta Micro SD.
- El desmontaje de la cubierta del producto se debe efectuar en un plazo de 5 minutos, o se podría producir condensación interna.

Inserción de una tarjeta de memoria Micro SD (QNO-7010R/7020R/7030R)

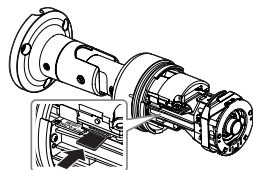
1. Gire la cubierta frontal en la dirección de DESBLOQUEO [↺].



2. Tire y separe la cubierta frontal.

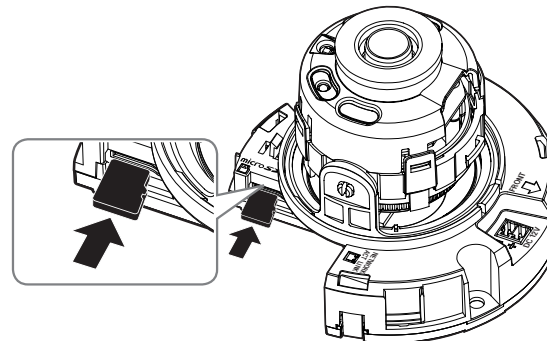


3. Inserte una tarjeta micro SD en la dirección de la flecha que aparece en la figura.

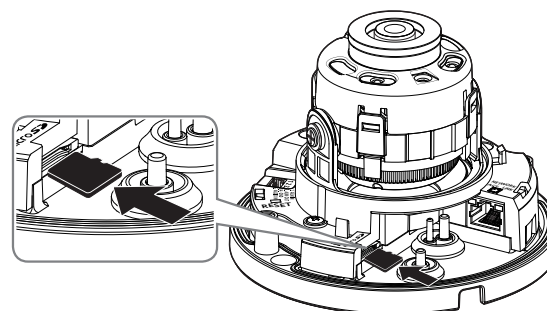


Inserción de una tarjeta de memoria Micro SD (QND-7010R/7020R/7030R, QNV-7010R/7020R/7030R)

1. Separe la cubierta del domo de la cámara.
2. Inserte una tarjeta micro SD en la dirección de la flecha que aparece en la figura.



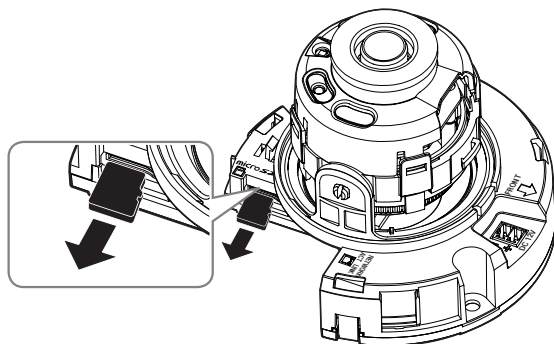
<QND-7010R/7020R/7030R>



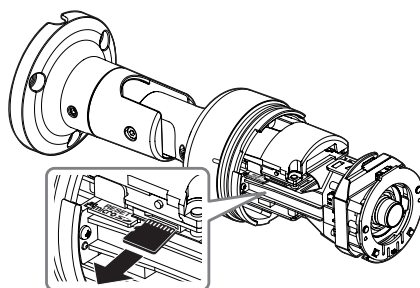
<QNV-7010R/7020R/7030R>

Extracción de una tarjeta de memoria Micro SD

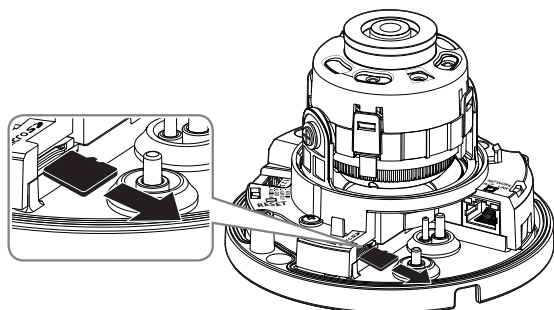
Presione suavemente hacia abajo en el extremo expuesto de la tarjeta de memoria como se muestra en el esquema para sacarla de la ranura.




<QND-7010R/7020R/7030R>



<QNO-7010R/7020R/7030R>



<QNV-7010R/7020R/7030R>

- ❗ Si se presiona demasiado fuerte la tarjeta de memoria Micro SD, al liberarla es posible que salga despedida sin control de la ranura.
- Antes de extraer la tarjeta de memoria Micro SD, apague la cámara o vaya a <Almacenamiento>, apague el aparato y presione el botón de [Aplicar ()].
- Si apaga la cámara o retira la tarjeta de memoria SD que contiene datos, puede perderlos o dañarlos.

INFORMACIÓN DE LA TARJETA DE MEMORIA (NO INCLUIDA)

Qué es una tarjeta de memoria?

La tarjeta de memoria es un dispositivo de almacenamiento de datos externo que se ha desarrollado para ofrecer una forma totalmente nueva para grabar y compartir datos de vídeo, audio y texto utilizando dispositivos digitales.

Seleccionar una tarjeta de memoria adecuada para usted

La cámara admite tarjetas de memoria Micro SD/SDHC/SDXC.

Sin embargo, podría experimentar problemas de compatibilidad dependiendo del modelo y marca de la tarjeta de memoria.

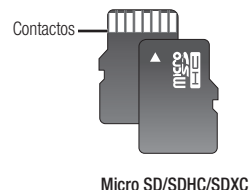
Para su cámara, le recomendamos utilizar una tarjeta de memoria de los siguientes fabricantes:

Tarjeta de memoria Micro SD/SDHC/SDXC : Sandisk, Transcend

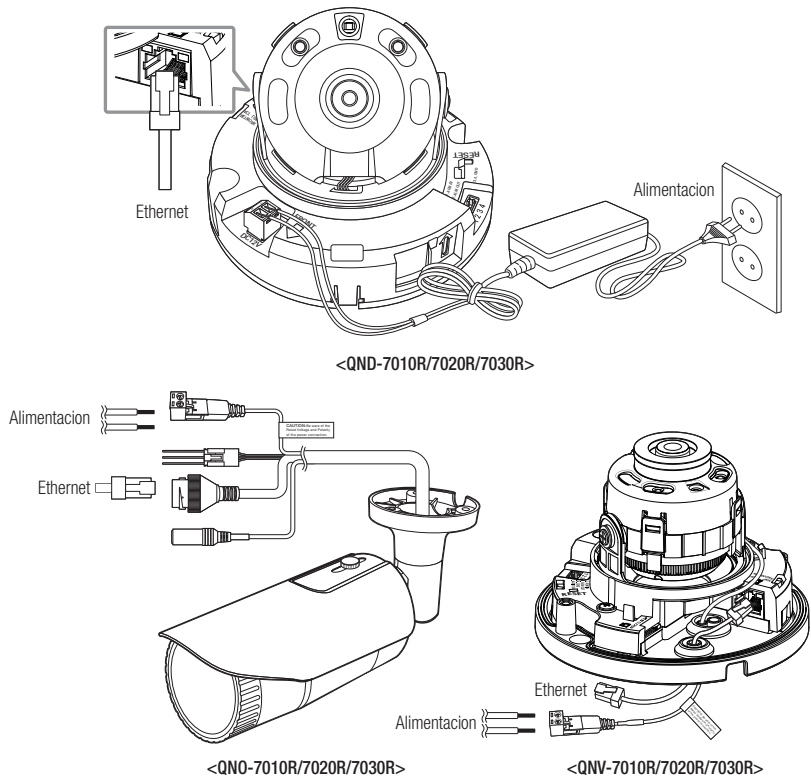
Se recomienda utilizar una tarjeta de memoria de 4 a 128GB (uhs-clase1) en esta cámara.

El rendimiento de la reproducción se puede ver afectada por la velocidad de la tarjeta de memoria, así que utilice la tarjeta de memoria de alta velocidad.

Componentes de Tarjeta de Memoria



CONEXIÓN CON OTROS DISPOSITIVOS



Conexión Ethernet

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

Alimentación eléctrica

Utilice el destornillador para conectar cada línea (+, -) del cable de alimentación al puerto de alimentación correspondiente de la cámara.

- Si se aplica simultáneamente PoE y 12 VCC, este producto obtendrá alimentación de PoE.
 - También puede utilizar un enrutador que incorpore PoE para suministrar energía a la cámara.
 - Utilice PoE que sea compatible con los protocolos IEEE 802.3af.
 - Se recomienda utilizar solo o una fuente de alimentación entre PoE y de 12 VCC.
- Tenga cuidado de no invertir la polaridad al conectar el cable de alimentación.
- Si desea conectar un dispositivo externo, debe apagar el dispositivo externo antes de continuar.

Características del cable de alimentación para cada modelo

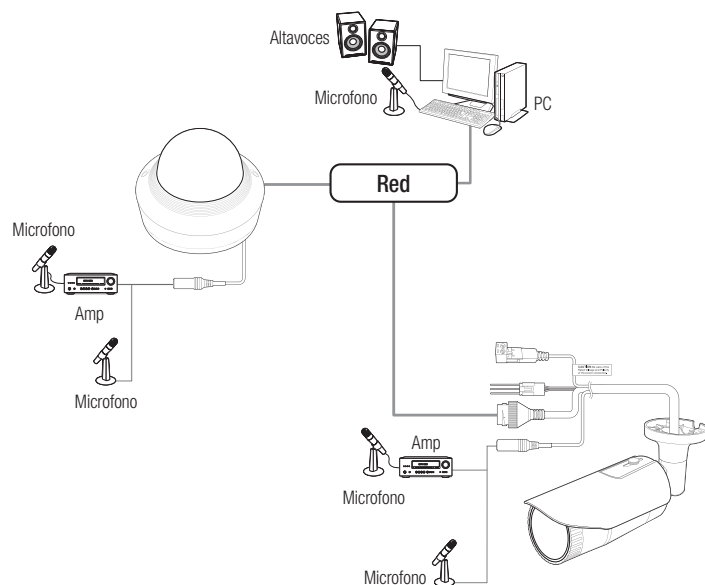
En caso de una entrada de CC 12V:

Tipo de cable (AWG)	#22	#20	#18
Longitud del cable (Max.)	24m	38m	60m

Características del cable de red

Elemento	Contenido	Observaciones
Conector	RJ45	
Ethernet	10/100BASE-T	10/100 Mbps
Cable	UTP de categoría 5e	
Distancia máx.	100M	
Soporte PoE	IEEE 802.3af	

Conectar la Entrada de Audio



1. Conecte el puerto AUDIO IN de la cámara con el micrófono o al puerto LINE OUT del amplificador al que está conectado el micrófono.

■ Puede utilizar el micrófono integrado en la cámara sin necesidad de conectar un micrófono externo.
(Sólo disponible en QND-7010R/7020R/7030R)

2. Compruebe las especificaciones de entrada de audio.

• Códec de Audio

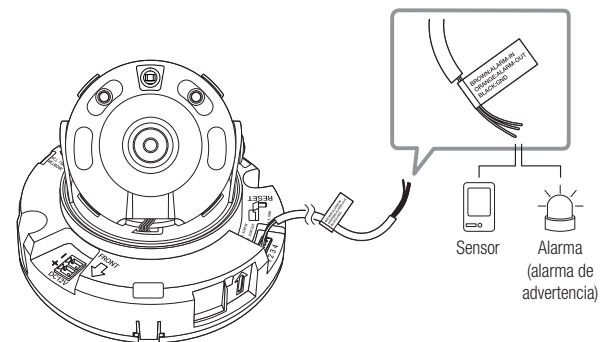
- Entrada de audio : G.711 PCM (Tasa de bits: 64 kbps/Frecuencia de muestreo: 8 kHz), ADPCM G.726 (Tasa de bits: 16 Kbps, 24 Kbps, 32 Kbps, 40 kbps/Frecuencia de muestreo: 8 kHz)

• Audio Full dúplex

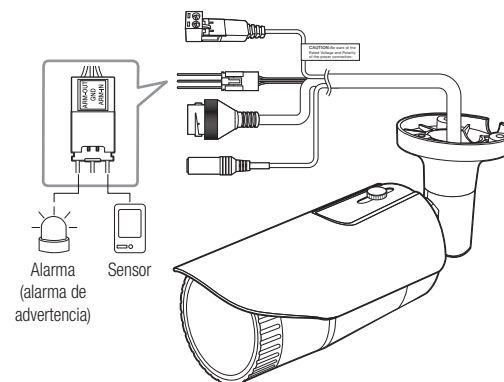
- **Entrada de Audio (QND-7010R/7020R/7030R)** : Seleccionable (micrófono integrado), tensión admitida: 2,5 V CC (4 mA), impedancia de entrada: 2K Ohm
- **Entrada de Audio (QNO-7010R/7020R/7030R, QNV-7010R/7020R/7030R)** : Seleccionable (micrófono/entrada de línea), tensión admitida: 2.5 V CC (4 mA), impedancia de entrada: 2K Ohm

Conexión al cuadro del puerto de E/S

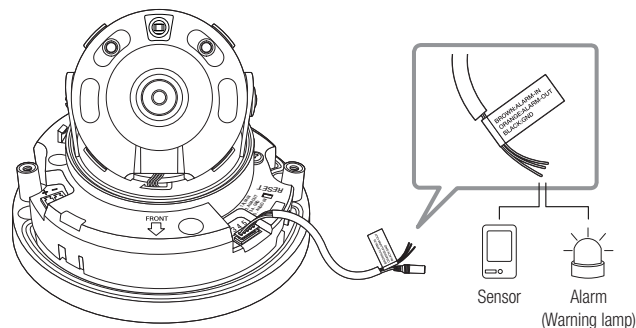
Conecte el cable de E/S de la alarma al puerto correspondiente en la caja de puertos.



<QND-7010R/7020R/7030R>



<QNO-7010R/7020R/7030R>



<QNV-7010R/7020R/7030R>

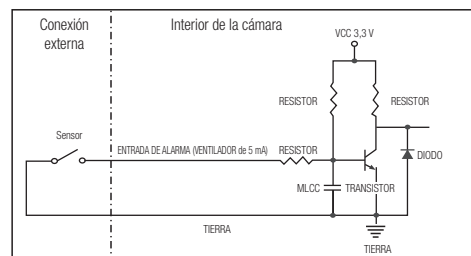
- ALARM-IN : Se utiliza para conectar el sensor de entrada de la alarma o el sensor externo de día/noche.
- ALARM-OUT : Se utiliza para conectar la señal de salida de alarma.
- GND : Puerto común para la señal de entrada/salida de alarma.

! Si los dispositivos (por ejemplo, luz parpadeante, alarma) que superan los límites de voltaje y potencia se conectan con el método de colector abierto, puede producirse un error de funcionamiento. Consulte el "**Diagrama de cableado de salida de alarma**" para conectar dispositivos que superen las cifras de voltaje y corriente. (página 22)

Para conectar el sensor externo

Conecte un filamento de cada línea de señal (2 filamentos) de los sensores al puerto [ALARM IN], y conecte el otro filamento en el puerto [GND].

Diagrama de cableado de entrada de alarma

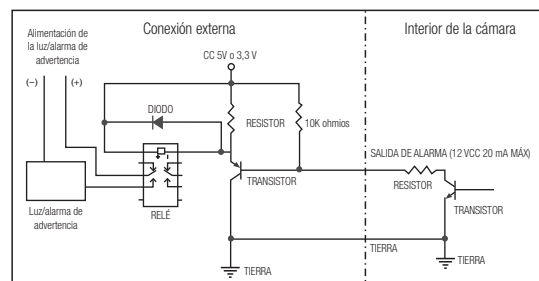


Para conectar la salida de alarma

Si los dispositivos (por ejemplo, luz parpadeante, alarma) que superan los límites de voltaje y potencia se conectan con el método de colector abierto, puede producirse un error de funcionamiento.

Consulte el diagrama de conexión de salida de alarma inferior cuando conecte dispositivos que superen las condiciones de tensión y corriente.

Diagrama de cableado de salida de alarma

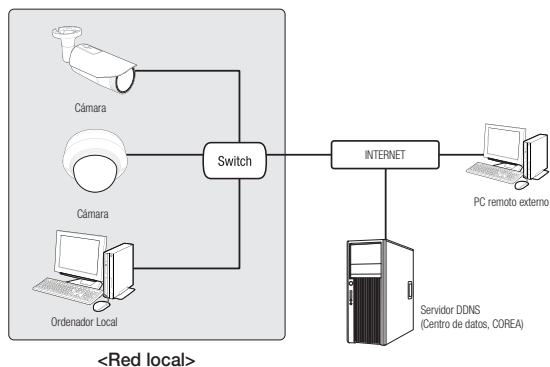


Puede fijar la configuración de red de acuerdo con sus configuraciones de red.

CONECTAR LA CÁMARA DIRECTAMENTE A LA RED DE ÁREA LOCAL

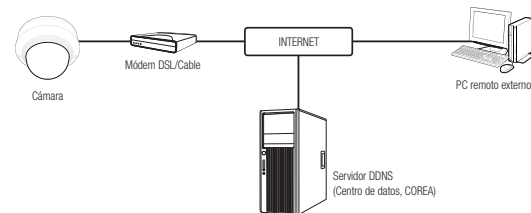
Conectar con la cámara desde un ordenador local en la LAN

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.
- 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 25)

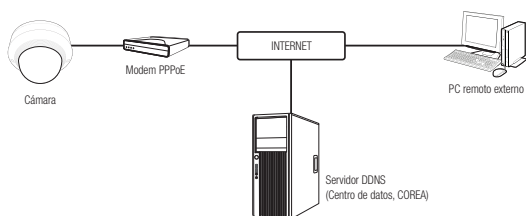
CONEXIÓN DIRECTA DE LA CÁMARA A UN MÓDEM DSL/CABLE BASADO EN DHCP



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

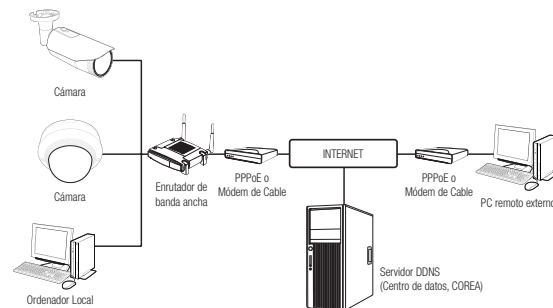


1. Conectar el PC del usuario directamente a la cámara de red.
2. Ejecute el Device Manager y cambie la dirección IP de la cámara de tal manera que pueda usar el navegador web en su ordenador de sobremesa para conectarse a Internet.
3. Utilice el navegador de Internet para conectar a Web Viewer.
4. Vaya 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 27)

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.
- 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 27)

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 Máscara subred 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
Ajustes relacionados con el puerto	HTTP Puerto RTSP Puerto 8080 554	8081 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`

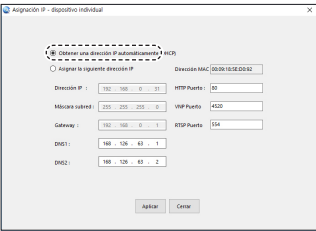
5. Haga clic en el botón [Aplicar].
6. Si aparece el mensaje de que la acción se ha realizado correctamente, haga clic en [Aceptar].

Configuración de la IP dinámica

Reciba la dirección IP desde DHCP

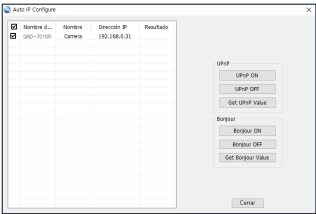
- Ejemplo de entorno de IP dinámica
 - Si a un enrutador de banda ancha, con cámaras conectadas, se le asigna una dirección IP mediante el servidor DHCP
 - Si se conecta la cámara directamente al módem utilizando los protocolos DHCP
 - Si las IP se asignan mediante el servidor DHCP interno a través de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

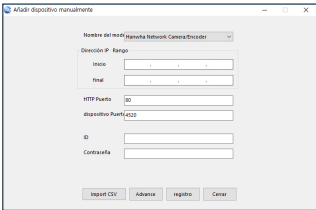
1. Haga clic en la cámara de la lista para la que quiera configurar automáticamente la IP.
2. En la página principal del Device Manager, haga clic en < + >.
 - Aparecerá el menú de configuración del equipo.
3. En el menú, haga clic en <Auto IP Configure (Configuración IP automática)>.
4. Haga clic en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

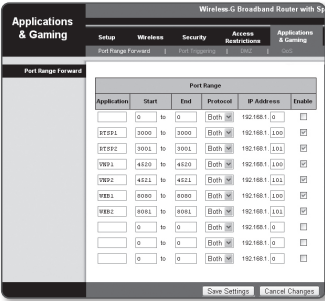


CONFIGURACIÓN DE REENVÍO DEL RANGO DE PUERTOS (ASIGNACIÓN DE PUERTOS)

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>**.
Para definir el reenvío del rango de puertos para un enrutador de banda ancha de terceros, consulte el manual del usuario de dicho enrutador de banda ancha.
- 2. Seleccione **<TCP>** y **<UDP Port>** por cada cámara conectada al enrutador de banda ancha.
El número de cada puerto que se configura para el router IP debe establecerse de acuerdo con el número de puerto designado en **<Config.>** - **<Basic>** - **<IP & Puerto>** en el visor web de la cámara.viewer.
- 3. Una vez hecho, haga clic en **[Save Settings]**.
Se guardarán los ajustes.

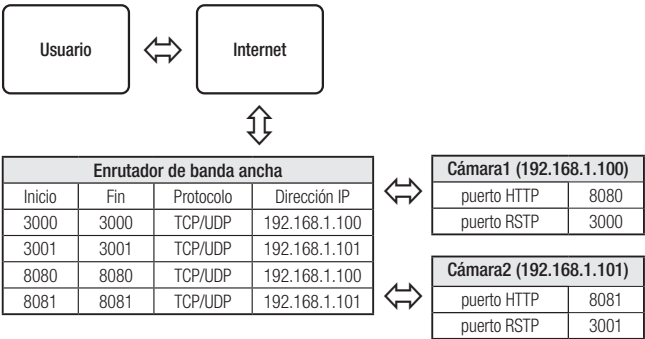


- El ajuste del reenvío del puerto es un ejemplo de configuración del router de la IP de CISCO.
- Es posible que los ajustes difieran dependiendo del modelo de enrutador de banda ancha conectado.
Para obtener información adicional, consulte el manual de usuario del enrutador aplicable.

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>

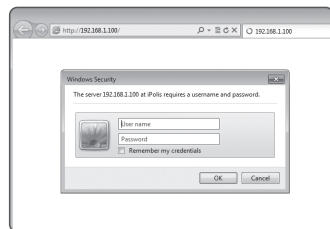


- Para utilizar DDNS, regístrese en la página de inicio de DDNS (<http://ddns.hanwha-security.com>) y registre el producto en **[Mi DDNS]>[Registrar producto]**.

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.

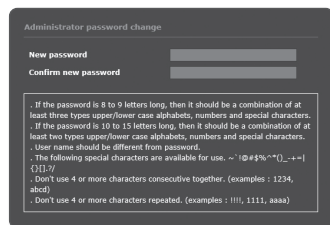
Para registrar el dispositivo en el servidor de <DDNS>, entre en <http://ddns.hanwha-security.com> y registre primero el dispositivo y, a continuación, establezca <Red> - <DDNS> de Web Viewer en <DDNS>, y facilite el <ID de producto> utilizado durante el registro de DDNS.

CONFIGURACIÓN DE CONTRASEÑA

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



- 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 memorícela.



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.

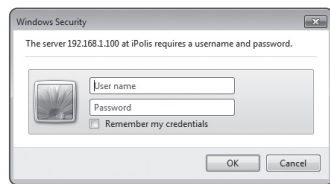
1. Introduzca "admin" en el cuadro de entrada <User name>. La ID del administrador, "admin", es fija y no es posible cambiarla.
2. Introduzca la contraseña en el campo de entrada <Password>.
3. Haga clic en **[OK]**. Si ha iniciado sesión correctamente, verá la pantalla de Live Viewer.



- 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 vídeo si el tamaño de pantalla es del 100%. Si se reduce la relación existe el riesgo de cortar la imagen en los bordes.



CONFIGURACIÓN DEL VISOR WEB DE LA CÁMARA

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

SOLUCIÓN DE PROBLEMAS

PROBLEMA	SOLUCIÓN
No se visualiza ningún vídeo al acceder al visor web sin plug-in en Safari a través de HTTPS.	<ul style="list-style-type: none"> 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". 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.
No se puede acceder a la cámara desde un navegador web.	<ul style="list-style-type: none"> Compruebe para asegurarse de que las configuraciones de Red de la cámara son las apropiadas. Compruebe para asegurarse de que todos los cables de red se han conectado bien. Si está conectado mediante DHCP, compruebe que la cámara puede admitir direcciones IP dinámicas sin problemas. Si la cámara está conectada al Enrutador de banda ancha, compruebe que el reenvío de puertos está configurado adecuadamente.
El Visualizador se desconecta durante el control.	<ul style="list-style-type: none"> Los Visualizadores conectados se desconectan debido a cualquier cambio en las configuraciones de cámara o de red. Compruebe todas las conexiones de red. Si la cámara está conectada por una red PPPoE, es posible que el Visualizador se desconecte con condiciones de red pobres.
No se visualiza ningún vídeo cuando se accede de nuevo al visor web o se conecta con el streaming al cliente.	<ul style="list-style-type: none"> El número máximo de perfiles disponible es 3. La conexión puede perderse si se utiliza 4 o más perfiles. Ejemplo) Si accede a MJPEG, H264 y H265 y luego accede con un perfil diferente, se perderá la conexión.
La cámara conectada a la red no se detecta en el programa del Device Manager.	<ul style="list-style-type: none"> Apague las configuraciones de cortafuegos en su ordenador, y luego vuelva a buscar la cámara.
Se superponen imágenes.	<ul style="list-style-type: none"> 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.
No aparece imagen.	<ul style="list-style-type: none"> 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.

PROBLEMA	SOLUCIÓN
El archivo no se transfiere al correo electrónico incluso si un evento de detección de movimiento se genera con <Detección de movimiento> definido en <Activado> en la página <Evento>.	<ul style="list-style-type: none"> Verifique los ajustes en la secuencia siguiente: <ul style="list-style-type: none"> A. Compruebe los ajustes de <Fecha y hora>. B. <Detección de movimiento> debe definirse en <Activar>. C. Compruebe si la opción <E-mail> del menú <Config. de evento> está marcada para ser utilizada.
No se puede grabar en la tarjeta de memoria Micro SD.	<ul style="list-style-type: none"> Compruebe si la tarjeta de memoria está defectuosa.
La tarjeta de memoria Micro SD está insertada pero no funciona correctamente.	<ul style="list-style-type: none"> 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 Formatee de nuevo la tarjeta de memoria en el menú <Config.> → <Evento> → <Almacenamiento>.
No se puede grabar en la NAS.	<ul style="list-style-type: none"> Compruebe que la información registrada en la NAS es correcta.
Se está indicando que la configuración de la NAS ha fallado.	<ul style="list-style-type: none"> Compruebe que la dirección IP de NAS sea válida. Compruebe que el ID / contraseña de NAS sea válido Compruebe que puede acceder a la carpeta designada como la carpeta básica utilizando el ID de la NAS. Asegúrese de que los elementos SMB / CIFS de NAS estén sin marcar. Compruebe que la dirección IP de NAS y la dirección IP de la cámara tengan el mismo formato. Ejemplo) el valor inicial de la NAS y de la máscara de subred de la cámara es 255.255.255.0. 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. Verifique si ha intentado acceder como otro usuario sin formatear la carpeta básica almacenada o usada. Compruebe que utilizó las unidades NAS recomendadas.

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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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revised on December 21, 2006
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Jean-loup Gailly Mark Adler

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



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Eliminación correcta de este producto (Residuos de aparatos eléctricos y electrónicos)

(Aplicable en la Unión Europea y en países europeos con sistemas de recogida selectiva de residuos)

La presencia de este símbolo en el producto, accesorios o material informativo que lo acompañan, indica que al finalizar su vida útil ni el producto ni sus accesorios electrónicos (como el cargador, cascos, cable USB) deberán eliminarse junto con otros residuos domésticos. Para evitar los posibles daños al medio ambiente o a la salud humana que representa la eliminación incontrolada de residuos, separe estos productos de otros tipos de residuos y reciclelos correctamente. De esta forma se promueve la reutilización sostenible de recursos materiales.

Los usuarios particulares pueden contactar con el establecimiento donde adquirieron el producto o con las autoridades locales pertinentes para informarse sobre cómo y dónde pueden llevarlo para que sea sometido a un reciclaje ecológico y seguro.

Los usuarios comerciales pueden contactar con su proveedor y consultar las condiciones del contrato de compra. Este producto y sus accesorios electrónicos no deben eliminarse junto a otros residuos comerciales.



Eliminación correcta de las baterías de este producto

(Aplicable en la Unión Europea y en otros países europeos con sistemas de recogida selectiva de baterías.)

La presencia de esta marca en las baterías, el manual o el paquete del producto indica que cuando haya finalizado la vida útil de las baterías no deberán eliminarse junto con otros residuos domésticos. Los símbolos químicos Hg, Cd o Pb, si aparecen, indican que la batería contiene mercurio, cadmio o plomo en niveles superiores a los valores de referencia admitidos por la Directiva 2006/66 de la Unión Europea. Si las baterías no se desechan convenientemente, estas sustancias podrían provocar lesiones personales o dañar el medioambiente.

Para proteger los recursos naturales y promover el reciclaje, separe las baterías de los demás residuos y reciclelas mediante el sistema de recogida gratuito de su localidad.

