

CÁMARA DE RED

Manual del usuario

QNF-8010

QNF-9010



Cámara de Red

Manual del usuario

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Marca comercial

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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 recibir alimentación de unidades de suministro eléctrico marcadas como "clase 2" o "LPS" y con valores nominales de PoE (48 V), 0,14 A. (QNF-8010)
16. Este producto se ha diseñado para recibir alimentación de unidades de suministro eléctrico marcadas como "clase 2" o "LPS" y con valores nominales de PoE (48 V), 0,17 A. (QNF-9010)
17. Este producto se ha diseñado para recibir alimentación con aislamiento.
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.

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.

No es posible sustituir la batería.

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 VIDEO 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.

No garantizamos la calidad de los productos de terceros (por ejemplo, lentes, accesorios) que usted compre por separado.

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
	6	Especificaciones de la Tarjeta de Memoria Micro SD/SDHC/SDXC Recomendada
	6	Especificaciones recomendadas para NAS
	6	Componentes
	7	Vista

INSTALACIÓN Y CONEXIÓN		8	Instalación
		9	Inserción/Extracción de una Tarjeta de Memoria Micro SD
		10	Alimentación y redes

CONEXIÓN Y CONFIGURACIÓN DE LA RED	11	11	Conectar la Cámara Directamente a la Red de Área Local
		11	Conexión Directa de la Cámara a un Módem DSL/Cable Basado en DHCP
		12	Cómo usar el Device Manager
		12	Búsqueda automática de la cámara
		12	Cómo configurar la dirección IP
		13	Cómo registrar la cámara manualmente
		13	Configuración automática de la IP
		14	Configuración de Reenvío del Rango de Puertos (Asignación de Puertos)
		15	Conexión a la Cámara desde un PC local Compartido
		15	Conexión a la Cámara desde un PC remoto a Través de Internet

WEB VIEWER	16	16	Conexión a la Cámara
		17	Configuración de contraseña
		17	Inicio de Sesión
		17	Configuración del visor web de la cámara

APÉNDICE	18	18	Especificaciones
		21	Vista del Producto
		22	Solución de Problemas
		23	Open Source Announcement

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 10.12, 10.13, 10.14
 - Navegador recomendado : Google Chrome
 - Navegadores compatibles : MS Explorer11, MS Edge, Mozilla Firefox (solo Windows 64bit), Apple Safari (solo Mac OS X)
 - VGA : Tarjeta gráfica de vídeo PCIe 256 MB GDDR3 o superior
- ※ Algunas funciones pueden estar restringidas incluso en navegadores compatibles.

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

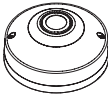
- Capacidad recomendada : De 16 GB a 256 GB (tipo MLC)
- Fabricantes recomendados : SanDisk, Transcend
- Tipo de producto : Alta resistencia
- La compatibilidad varía en función de los fabricantes y tipos de tarjeta.

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, NAS Synology

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
	Cámara	1	
	Manual de consulta rápida (Opcional)	1	
	Cable para probar el monitor	1	Se utiliza para probar la conexión de la cámara en un dispositivo de visualización portátil
	Plantilla	1	Guía de instalacion del producto
	Llave en L	1	Eliminar/fijar la cubierta superior

Accesorios opcionales para la instalación

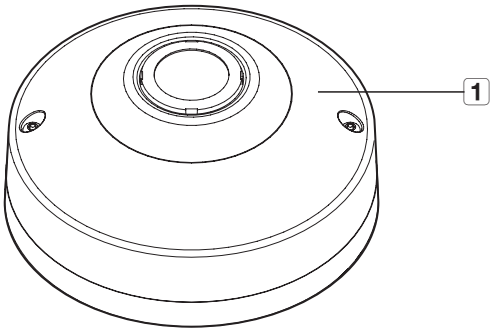
Para una instalación más sencilla, puede adquirir los accesorios opcionales apropiados disponibles.



Nombre del modelo	Montaje en pared
QNF-8010, QNF-9010	SBP-120WMW

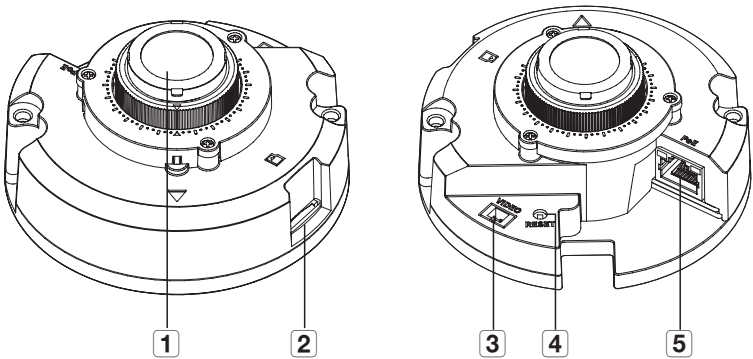
VISTA

Aspecto

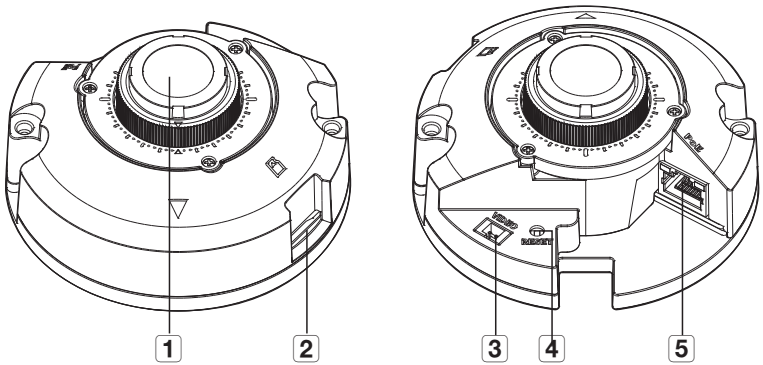


Elemento	Descripción
1 Tapa de la cubierta	Cubierta utilizada para proteger el objetivo y la unidad principal.

Interior (QNF-8010)



(QNF-9010)



Elemento	Descripción
1 Lentes de ojo de pez	Estas lentes poseen una visión de 360° y pueden grabar video de forma panorámica.
2 Compartimento de la tarjeta de memoria Micro SD	Compartimento de la tarjeta de memoria Micro SD.
3 Salida de vídeo	Puerto de salida para monitorizar la prueba de la salida de video. Utilice el cable del monitor de prueba para conectarlo a una pantalla móvil y realizar la prueba de video.
4 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.
5 Conector PoE	Se conecta a la red y suministra alimentación a través del cable Ethernet.

INSTALACIÓN

Precauciones antes de la instalación

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

- Seleccione un lugar para la instalación que al menos soporte 5 veces el peso de la cámara.
- 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.

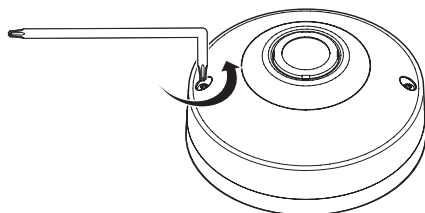
Y guarde aparte las pertenencias personales, como precaución.

Desmontaje

1. Despegue la película protectora de la lente.
2. Con la llave tipo L que se incluye, afloje 2 tornillos dándoles vuelta en sentido contrario a las agujas del reloj y después, separe la tapa de la cubierta.

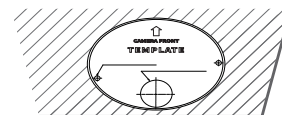
- Tenga en cuenta que no es necesario aflojar los tornillos completamente.

-  ■ Una vez retirada la película protectora, no toque la lente.

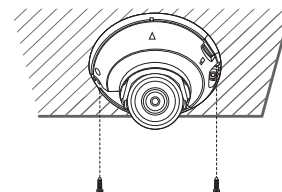


Instalación de la cámara en el techo o en la pared

1. Considere la dirección que se va a supervisar, coloque la plantilla y haga agujeros siguiendo la plantilla.
 - Coloque la marca <  > impresa en la cámara para que quede en la dirección de funcionamiento de la cámara.

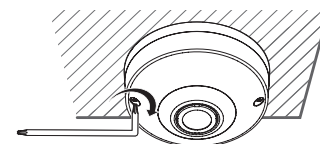
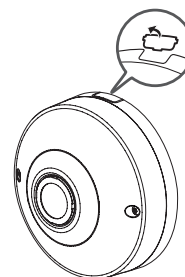
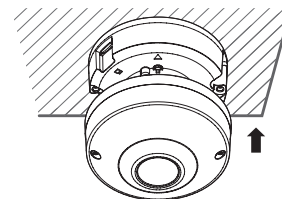


2. Mediante el uso de 2 tornillos de fijación, fije la cámara en 2 orificios perforados con una plantilla.
3. Conecte el terminal interior de la cámara con el cable correspondiente.
4. Ajuste el objetivo en la dirección que desee consultando la sección "Ajuste de la dirección de la cámara". (página 9)

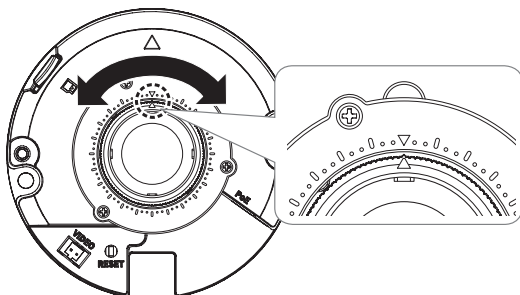


5. Cierre la tapa y gire en el sentido de las agujas del reloj, usando la llave tipo L.

-  ■ Si es necesario, úselo después de quitar la cubierta del orificio del cable, ubicado al costado de la tapa de la cubierta.



Ajuste de la dirección de la cámara



■ Ajuste de la dirección de vigilancia

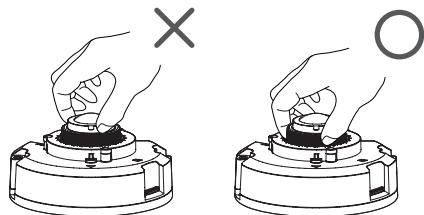
Puede ajustar la dirección de la cámara sólo cuando la cámara esté fija al techo. Donde, el giro de la lente sobre su eje se llama rotación.

- El rango efectivo de rotación es un total de ± 180 grados.

■ Métodos de ajuste

Para ajustar la dirección de la cámara, tome el soporte de la lente y gírelo, observando el indicador de dirección.

- Para ajustar la dirección de monitoreo de la cámara, tome el soporte de la lente y gírelo. Si toca la lente para ajustar la dirección, la imagen podría desenfocarse o podrían quedar huellas digitales en la superficie de la lente.

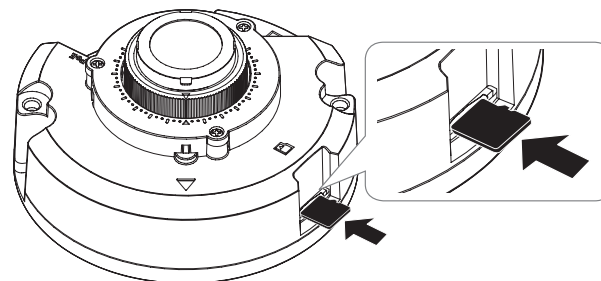


INSERCIÓN/EXTRACCIÓN DE UNA TARJETA DE MEMORIA MICRO SD

- 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.

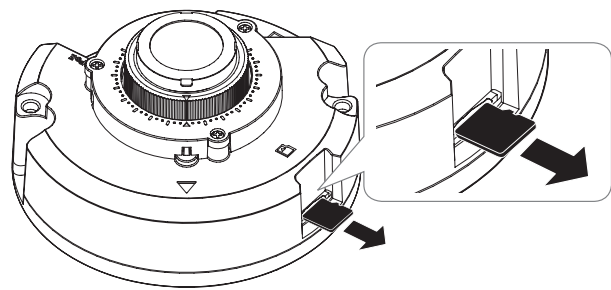
Inserción de una tarjeta de memoria Micro SD

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



Extracción de una tarjeta de memoria Micro SD

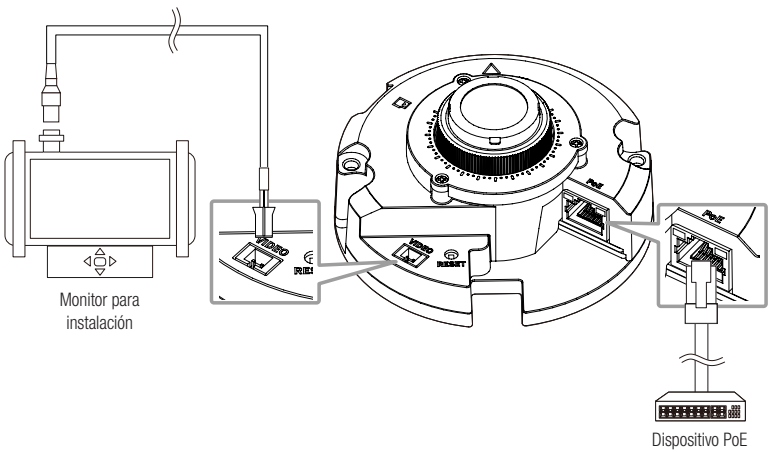
Presione suavemente hacia abajo en el extremo expuesto de la tarjeta de memoria como se muestra en el esquema para sacarla de la ranura.



- Antes de retirar la tarjeta de memoria Micro SD, en <Almacenamiento>, ajuste el dispositivo en <Des> y pulse el botón [Aplicar] y apague la cámara.
- Si apaga la cámara o retira la tarjeta de memoria SD que contiene datos, puede perderlos o dañarlos.

ALIMENTACIÓN Y REDES

Conecte el dispositivo PoE y los conectores PoE de la cámara.



- Se suministra el terminal de salida VIDEO del producto para facilitar la instalación, aunque no se recomienda utilizarlo con fines de gestión.
- Conecte a un conector de PoE del router compatible con el PoE (alimentación a través de Ethernet).
- Utilice un PoE (alimentación a través de Ethernet) que cumpla con los protocolos IEEE802.3af.

Características del cable de red

Elemento	Contenido	Observaciones
Conector	RJ45 (10/100BASE-T)	
Ethernet	10/100BASE-T	
Cable	Categoría 5e	
Distancia máx.	100M	Resistencia de CC ≤ 0,125 Ω / m
Soporte PoE	IEEE 802.3af	

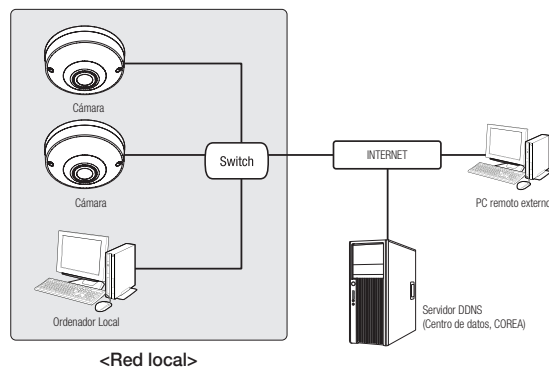
- Si utiliza un cable diferente a los estándares de categoría 5e, no se garantiza una distancia de transmisión de 100 m.

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

CONECTAR LA CÁMARA DIRECTAMENTE A LA RED DE ÁREA LOCAL

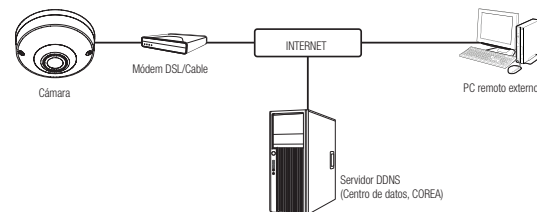
Conectar con la cámara desde un ordenador local en la LAN

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 12)

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.

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 14)

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
	RTSP Puerto	554	555

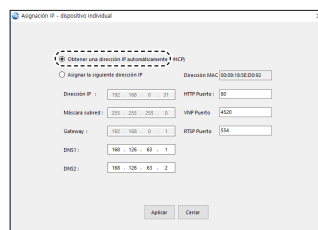
- Si <HTTP Puerto> se define con un valor distinto a 80, debe facilitar el número de <Port> en la barra de direcciones del explorador de Internet antes de poder acceder a la cámara.
ej.) `http://Dirección IP : HTTP Port`
`http://192.168.1.100:8080`
5. Haga clic en el botón [Aplicar].
 6. Si aparece el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

Configuración de la IP dinámica

Reciba la dirección IP desde DHCP

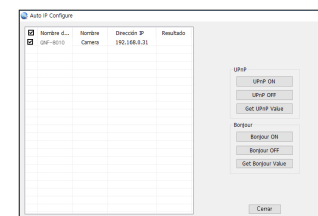
- Ejemplo de entorno de IP dinámica
 - Si a un enrutador de banda ancha, con cámaras conectadas, se le asigna una dirección IP mediante el servidor DHCP
 - Si se conecta la cámara directamente al módem utilizando los protocolos DHCP
 - Si las IP se asignan mediante el servidor DHCP interno a través de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

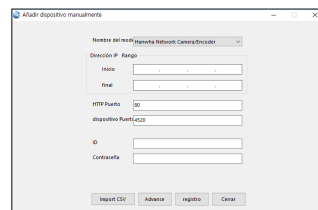
1. Haga clic en la cámara de la lista para la que quiera configurar automáticamente la IP.
2. En la página principal del Device Manager, haga clic en **< + >**.
 - Aparecerá el menú de configuración del equipo.
3. En el menú, haga clic en **<Auto IP Configure (Configuración IP automática)>**.
4. Haga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

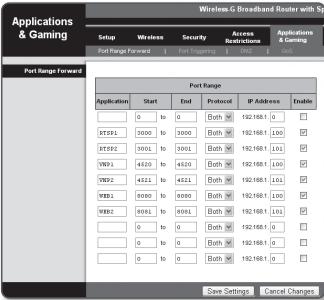


CONFIGURACIÓN DE REENVÍO DEL RANGO DE PUERTOS (ASIGNACIÓN DE PUERTOS)

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.

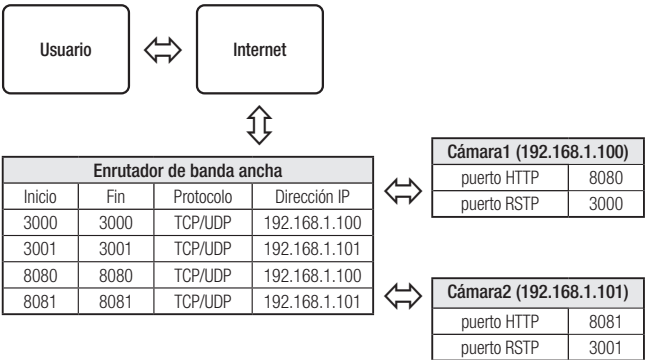


- El ajuste del reenvío del puerto es un ejemplo de configuración del router de la IP de CISCO.
- Es posible que los ajustes difieran dependiendo del modelo de enrutador de banda ancha conectado. Para obtener información adicional, consulte el manual de usuario del enrutador aplicable.

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>

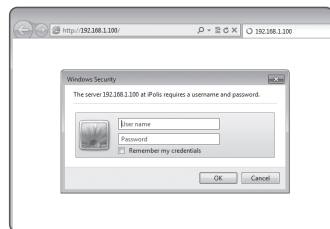


- Para utilizar DDNS, regístrese en la página de inicio de DDNS (<http://ddns.hanwha-security.com>) y registre el producto en **[Mi DDNS]>[Registrar producto]**.

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: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 a un módem de cable basado en DHCP o a un módem DSL, la dirección IP cambiará cada vez que intente conectarse al ISP (la compañía a la que se suscribió). 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.

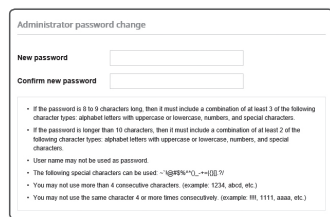
Para registrar el dispositivo en el servidor de <DDNS>, entre en http://ddns.hanwha-security.com y registre primero el dispositivo y, a continuación, establezca <Red> - <DDNS> de Web Viewer en <DDNS>, y facilite el <ID de producto> utilizado durante el registro de DDNS.

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 memoricela.



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.

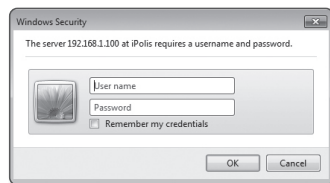
1. Introduzca **"admin"** en el cuadro de entrada **<User name>**. La ID del administrador, **"admin"**, es fija y no es posible cambiarla.
2. Introduzca la contraseña en el campo de entrada **<Password>**.
3. Haga clic en **[OK]**.
Si ha iniciado sesión correctamente, verá la pantalla de Live Viewer.



- 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.



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.

ESPECIFICACIONES

Opciones		Descripción
		QNF-8010
Video	Dispositivo de imágenes	1/1.8" 6M CMOS
	Píxeles efectivos	2048(AI) x 2048(V)
	Iluminación mín.	Color : 0,2Lux (F2.5, 1/30 seg)
	Salida de vídeo	CVBS : 1,0 Vp-p / 75Ω compuesto, 720x480(N), 720x576(P) Para instalación
Objetivo	Longitud focal (índice de zoom)	1,14mm focal fija
	Coefficiente de apertura máx.	F2.5
	Campo de visión angular	AI: 187° / V: 187° / D: 187°
	Distancia mín. del objeto	0,3m
Funcionamiento	Título de cámara	Se muestran 85 caracteres
	Día y noche	Auto (Eléctrico)
	Compensación de luz de fondo	BLC, HLC, WDR, SDR
	Rango dinámico amplio	120dB
	Reducción de ruido digital	SSNR V
	Detección de movimiento	8ea, zonas poligonales
	Máscara de privacidad	6ea, zonas rectangulares - Color: gris / verde / rojo / azul / negro / blanco - Mosaico
	Control de ganancia	Bajo / Mediana / Alto
	Balance de blanco	ATW / AWC / Manual / Interior / Exterior
	Velocidad de obturador electrónico	Mínima / Máxima / Anti parpadeo (2 ~ 1/12,000 seg)
	PTZ digital	Soporte (Preajuste, Grupo)
	Rotación de vídeo	Volteo, Espejo
	Analítica	Detección de desenfoque, Detección de movimiento, Sabotaje

Opciones		Descripción
		QNF-8010
Funcionamiento	Inteligencia empresarial	Recuento de personas, Mapa de calor
	Se activa la alarma	Analítica, Desconexión de red
	Evento de alarma	- Subida de archivo a través de FTP, E-Mail - Notificación a través de e-mail - Grabaciones SD/SDHC/SDXC o NAS en activaciones de eventos
Red	Ethernet	RJ-45 (10/100BASE-T)
	Compresión de vídeo	H.265/H.264: Principal/Base/Alto, MJPEG
	Resolución	Vista original : 2048x2048, 1280x1280, 1080x1080, 960x960, 768x768, 720x720, 640x640, 480x480 Panorama individual : 2048x512, 1920x480, 1280x320, 640x160, 704x176 Panorama doble : 2048x1024, 1920x960, 1280x640, 640x320, 704x352 Vista cuádruple : 2048x1536, 1600x1200, 1280x960, 1024x768, 800x600, 640x480, 704x576 Q1/2/3/4 : 1024x768, 800x600, 640x480
	Velo. máx. de fotogramas	H.264/H.265: 30fps/25fps@2048x2048(60Hz/50Hz) MJPEG : Max 15fps
	Códec inteligente	WiseStream II
	Ajuste de calidad de vídeo	H.264/H.265 : Control de nivel de vel. de bits de destino MJPEG : Control de nivel de calidad
	Cont de bitrate	H.264/H.265 : CBR o VBR MJPEG : VBR
	Streaming	Flujo de datos múltiple (hasta 3 perfiles)

Opciones		Descripción
		QNF-8010
Red	Protocolo	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
	Seguridad	Autenticación de inicio de sesión HTTPS(SSL) Autenticación de inicio de sesión Digest Filtro de dirección IP Registro de acceso de usuarios Método de autenticación 802.1X (EAP-TLS, EAP-LEAP)
	Almacenamiento Edge	Micro SD/SDHC/SDXC de 1 ranuras 256 GB
	Interfaz de programación de aplicaciones	ONVIF Profile S/G SUNAPI(HTTP API) Plataforma abierta Wisenet
	Idioma de página web	Inglés, Francés, Alemán, Español, Italiano, Chino, Coreano, Ruso, Japonés, Sueco, Portugués, Checo, Polaco, Turco, Holandés, Húngaro, Griego
	Visor Web	SO admitido : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14 Navegador recomendado: Google Chrome Navegadores compatibles: MS Explorer11, MS Edge, Mozilla Firefox (sólo compatible con Window 64bit), Apple Safari (sólo compatible con Mac OS X)
	Memoria	1024 MB RAM, 256 MB Flash

Opciones		Descripción
		QNF-8010
Ambiental	Temperatura / Humedad de funcionamiento	-10°C ~ +55°C (+14°F ~ +131°F) / Menos del 90% RH
	Temperatura / Humedad deprzechowywania	-50°C ~ +60°C (-58°F ~ +140°F) / Menos del 90% RH
	Certificación	IP42
Eléctrico	Tensión de entrada	PoE(IEEE802.3af, Class3)
	Consumo de energía	PoE: Máx 6,4 W, típico 4,6 W
Mecánico	Color / Material	Blanco/Plástico
	Código RAL	RAL9003
	Dimensiones/peso del producto	Ø99 x 49 mm(Ø3,9 x 1,93"), 320 g (0,705 lb)

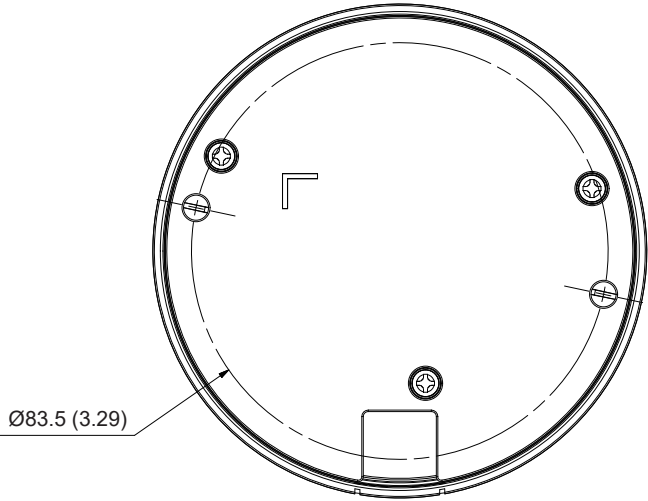
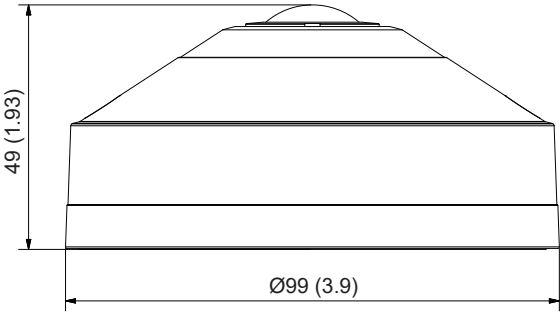
Opciones		Descripción
		QNF-9010
Video	Dispositivo de imágenes	1/2.3" 12M CMOS
	Píxeles efectivos	3008(A) x 3008(V)
	Iluminación mín.	Color : 0,39 Lux (F2.2, 1/30 seg)
	Salida de vídeo	CVBS : 1,0 Vp-p / 75Ω compuesto, 720x480(N), 720x576(P) Para instalación
Objetivo	Longitud focal (índice de zoom)	1,08 mm focal fija
	Coefficiente de apertura máx.	F2.2
	Campo de visión angular	Al: 187° / V: 187° / D: 187°
	Distancia mín. del objeto	0,5 m(1.64 pies)
Funcionamiento	Título de cámara	Se muestran 85 caracteres
	Día y noche	Auto (Eléctrico)
	Compensación de luz de fondo	BLC, WDR, SSSR
	Rango dinámico amplio	120dB
	Reducción de ruido digital	SSNR V
	Detección de movimiento	4ea, zonas poligonales
	Máscara de privacidad	6ea, zonas rectangulares - Color: gris / verde / rojo / azul / negro / blanco
	Control de ganancia	Bajo / Mediana / Alto
	Balance de blanco	ATW / AWC / Manual / Interior / Exterior
	Velocidad de obturador electrónico	Mínima / Máxima / Anti parpadeo (2 ~ 1/12,000 seg)
	PTZ digital	Soporte (Preajuste, Grupo)
	Rotación de vídeo	Volteo, Espejo
	Analítica	Detección de desenfoque, Detección de movimiento, Sabotaje
	Inteligencia empresarial	Recuento de personas, Mapa de calor
	Se activa la alarma	Analítica, Desconexión de red
	Evento de alarma	- Subida de archivo a través de FTP, E-Mail - Notificación a través de e-mail - Grabaciones SD/SDHC/SDXC o NAS en activaciones de eventos

Opciones		Descripción
		QNF-9010
Red	Ethernet	RJ-45 (10/100BASE-T)
	Compresión de vídeo	H.265/H.264: Principal/Alto, MJPEG
	Resolución	Vista original: 3008x3008, 640x640 Panorámica doble: 2560x1280, 1920x960, 1280x640, 1024x512, 640x320 Panorámica única: 3200x800, 2560x640, 1920x480, 1280x320, 1024x256 Vista cuádruple: 2560x1920, 1920x1440, 1280x960, 1024x768, 640x480
	Velo. máx. de fotogramas	H.265/H.264: Vista original-Máx. 30 fps/25 fps@3008x3008(60 Hz/50 Hz), Panorámica doble-Máx. 28 fps/25 fps@3200x800(60 Hz/50 Hz) Panorámica única-Máx 28 fps/25 fps@2560x1280(60 Hz/50 Hz) MJPEG: Máx. 5 fps(60 Hz/50 Hz)
	Códec inteligente	Manual (5 ea área), WiseStream II
	Ajuste de calidad de vídeo	H.264/H.265 : Control de nivel de vel. de bits de destino MJPEG : Control de nivel de calidad
	Cont de bitrate	H.264/H.265 : CBR o VBR MJPEG : VBR
	Streaming	Unidifusión (6 usuarios)/streaming Flujo de datos múltiple (hasta 3 perfiles)

Opciones		Descripción
		QNF-9010
Red	Protocolo	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour
	Seguridad	Autenticación de inicio de sesión HTTPS(SSL) Autenticación de inicio de sesión Digest Filtro de dirección IP Registro de acceso de usuarios Método de autenticación 802.1X (EAP-TLS, EAP-LEAP) Certificado del dispositivo (Hanwha Vision Root CA)
	Almacenamiento Edge	Micro SD/SDHC/SDXC de 1 ranuras 256 GB
	Interfaz de programación de aplicaciones	ONVIF Profile S/G/T SUNAPI(HTTP API) Plataforma abierta Wisenet
	Idioma de página web	Inglés, Francés, Alemán, Español, Italiano, Chino, Coreano, Ruso, Japonés, Sueco, Portugués, Checo, Polaco, Turco, Holandés, Húngaro, Griego
	Visor Web	SO admitido : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14 Navegador recomendado: Google Chrome Navegadores compatibles: MS Explorer11, MS Edge, Mozilla Firefox (sólo compatible con Window 64bit), Apple Safari (sólo compatible con Mac OS X)
	Memoria	2048 MB RAM, 256 MB Flash
Ambiental	Temperatura / Humedad de funcionamiento	-10°C ~ +40°C(+14°F ~ +104°F) / Menos del 90% RH
	Temperatura / Humedad deprzechowywania	-50°C ~ +60°C (-58°F ~ +140°F) / Menos del 90% RH
	Certificación	IP42
Eléctrico	Tensión de entrada	PoE(IEEE802.3af, Class3)
	Consumo de energía	PoE: Máx 7,7 W, típico 6,4 W
Mecánico	Color / Material	Blanco/Plástico
	Código RAL	RAL9003
	Dimensiones/peso del producto	Ø99 x 49 mm(Ø3,9 x 1,93"), 370 g (0.816 lb)

VISTA DEL PRODUCTO

Unidad : mm (pulg.)



SOLUCIÓN DE PROBLEMAS

PROBLEMA	SOLUCIÓN
No se visualiza ningún vídeo al acceder al visor web sin plug-in en Safari a través de HTTPS.	- 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.	- 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.	- Los Visualizadores conectados se desconectan debido a cualquier cambio en las configuraciones de cámara o de red. - Compruebe todas las conexiones de red.
La cámara conectada a la red no se detecta en el programa del Device Manager.	Apague las configuraciones de cortafuegos en su ordenador, y luego vuelva a buscar la cámara.
Se superponen imágenes.	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.	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.
<Detección de movimiento> de <Analítica> está ajustado en <Activar>, pero no me llega una notificación por correo electrónico, ni siquiera cuando se ha producido un evento de análisis.	- Verifique los ajustes en la secuencia siguiente: 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.	Compruebe si la tarjeta de memoria está defectuosa.

PROBLEMA	SOLUCIÓN
La tarjeta de memoria Micro SD está insertada pero no funciona correctamente.	- 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.	Compruebe que la información registrada en la NAS es correcta.
Se está indicando que la configuración de la NAS ha fallado.	- 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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GPL SW

Component Name	License	URL
Base Kernel	GPL 2.0	
Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-4.2	GPL 2.0	
mtdd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdd-utils
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
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 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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Hanwha Vision respeta el medio ambiente durante todo el proceso de fabricación de sus productos y realiza una serie de procedimientos orientados a ofrecer productos ecológicos.

El símbolo Eco representa el compromiso de Hanwha Vision de fabricar productos que respeten el medio ambiente e indica a la vez que este equipo cumple con la Directiva de la Unión Europea EU RoHS.



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.

