

CÁMARA DE RED

Manual del usuario

PNM-9030V



Cámara de Red

Manual del usuario

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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 está destinado a obtener alimentación de una Unidad de Alimentación Listada de "Clase 2" o "LPS" y clasificada como de 12 Vcc, 1,57 A o PoE, 0,5 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.



21. La distorsión de la pantalla podría suceder fuera de la distancia del sujeto.
22. Cuando se accede a canales múltiples (Canales 1 a 5), 1 o 2 fps podrían disminuir de los fps establecidos a 15 fps.
23. Mientras se codifica, se puede producir una fluctuación de fps en tiempo real de +1 fps.

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 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.

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

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

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

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

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

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

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

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

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

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

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CARACTERÍSTICAS RECOMENDADAS DEL ORDENADOR

- CPU : Intel(R) Core(TM) i7 a 3,4 GHz o superior
- SO admitido : MS Windows, Mac OS X
- Navegadores web compatibles: Google Chrome, MS Edge, Mozilla Firefox (sólo compatible con Windows 64bit), Apple Safari (sólo compatible con Mac OS X)

Consulte el anexo para información detallada sobre los sistemas operativos y navegadores verificados.
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)
- Para esta cámara se recomiendan los siguientes tipos de tarjetas de memoria de los siguientes fabricantes.
 - Fabricante : SanDisk, Transcend
 - Familia de productos : High endurance

ESPECIFICACIONES RECOMENDADAS PARA NAS

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

Productos recomendados	Tamaños disponibles
QNAP/SYNOLOGY	Accesos simultáneos para un máximo de 16 cámaras.

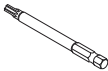


- El número de accesos a cámaras se reducirá si utiliza la unidad NAS para otros fines que no sean el de almacenamiento de vídeo.

COMPONENTES

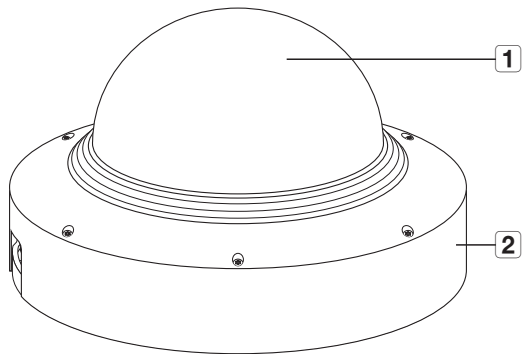
Compruebe si la cámara y los accesorios se incluyen en el paquete del producto.
(Debido a los diferentes países de venta, los accesorios no son los mismos.)

Aspecto	Nombre de elemento	Cantidad	Descripción
	Cámara	1	
	Manual de instrucciones, CD del software del instalador	1	
	Manual de consulta rápida (Opcional)	1	
	Tarjeta de garantía (Opcional)	1	
	Bloque de terminales de energía	1	Conectado al enchufe
	Plantilla	1	Guía de instalación del producto
	Cable de alimentación	1	Se utiliza para conectar al puerto de alimentación
	Cable de audio/alarma	1	Se utiliza para conectar al puerto de audio y alarma
	Pasacables	1	Se utiliza para conectar el cable LAN con un diámetro de Ø7~8,5.
		1	Se utiliza para conectar el cable LAN con un diámetro de Ø5~6,5.

Aspecto	Nombre de elemento	Cantidad	Descripción
	Llave en L	1	Se utiliza para quitar y sustituir la tapa del domo
	Tornillo de rosca cortante	4	Se utiliza para la instalación en pared o en techo
	Anclaje de plástico	4	Para fijar un tornillo, insertado en un orificio (fuerza de anclaje reforzada)
	Tornillos de rosca	4	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.
	Instalador de tapa	1	Se usa para conectar el cable RJ45
	Tipo de tarjeta que absorbe la humedad	1	Se adjunta cuando se instala.
	Broca	1	Se utiliza para el desmontaje de la cubierta del domo, y para el montaje y la instalación de la cámara.

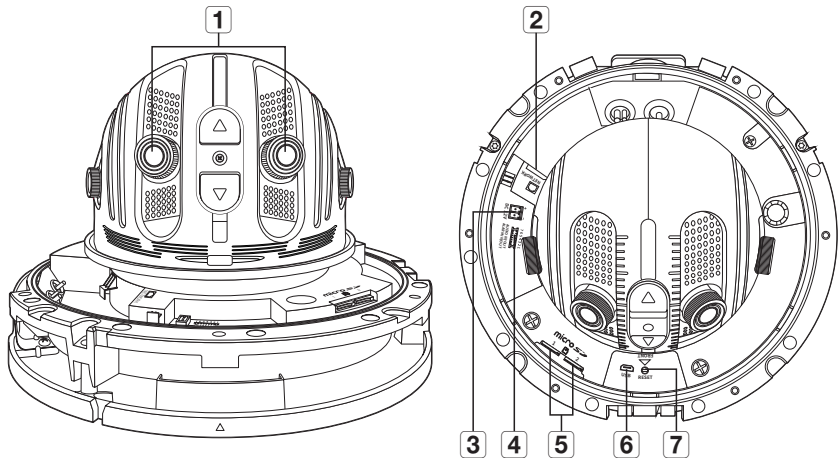
VISTA

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 Objetivo	4 lentes de cámaras crean una imagen panorámica.
2 Puerto Red	Una terminal que se conecta a PoE+ o LAN a través del cable RJ-45.
3 Puerto de Alimentación	Puerto para el bloque de terminales de alimentación.
4 Puerto del cable de audio y alarma	Conecte el cable de audio y alarma a este puerto para conectar con el dispositivo externo de alarma/micrófono/altavoz.
5 Compartimento de la tarjeta de memoria Micro SD	Compartimento de la tarjeta de memoria Micro SD.
6 Puerto USB MICRO	Puerto para conectar el dongle WiFi. Puede comprobar el vídeo de instalación a través de las aplicaciones instaladas en el teléfono inteligente. Consulte "Conectar al dongle WiFi" en la página 16. WiFi dongle y adaptador OTG se venden por separado.
7 Botón de reinicialización	Este botón restaura los valores predeterminados de la cámara. Manténgalo pulsado durante unos 5 segundos para reiniciar el sistema. 1 Si reinicia la cámara, los ajustes de red se ajustarán de forma que se pueda habilitar DHCP. Si no hay servidor DHCP en la red, debe ejecutar el programa IP Installer para cambiar los ajustes básicos de red como la dirección IP, la máscara de subred, la puerta de enlace, etc., antes de conectar a la red.

INSTALACIÓN



- 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.

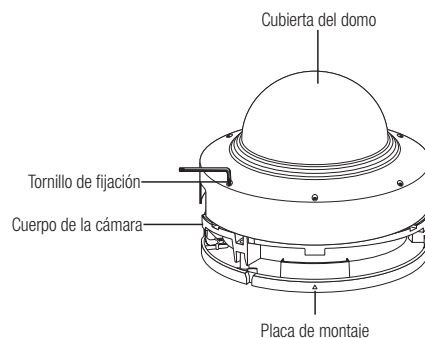
Precauciones antes de la instalación

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

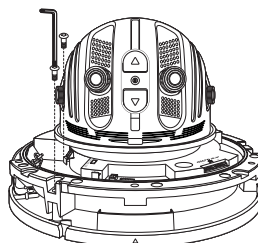
- Seleccione un lugar para la instalación que al menos soporte 5 veces el peso de la cámara.
- Cables doblados o pelados pueden causar daños en el producto o producir un incendio.
- Por razones de seguridad, mantenga alejado a todo el mundo del lugar de la instalación. Y guarde aparte las pertenencias personales, como precaución.
- Si el producto se instala con excesiva fuerza, la cámara debido podría sufrir daños debido a un mal funcionamiento. Forzar el ensamblaje utilizando herramientas no compatibles puede dañar el producto.

Desmontaje

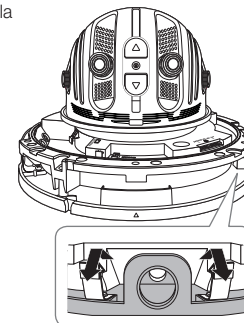
1. Retire la cubierta del domo aflojando el perno de fijación de la cubierta del domo. Esto puede hacerse girándolo en sentido antihorario usando la llave Allen o la broca suministrada.



2. Afloje el tornillo de fijación del cuerpo de la cámara.

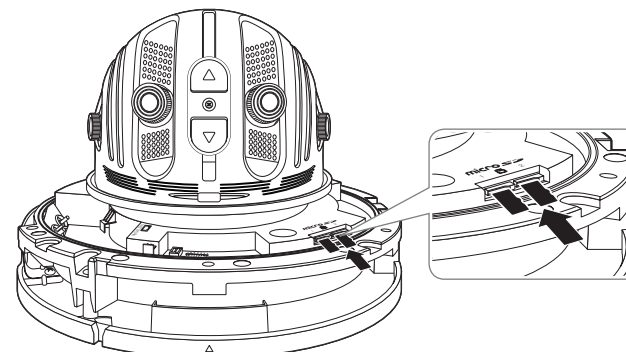


3. Retire el cuerpo de la cámara y la placa de montaje tirando del resorte de la placa, como se muestra en la figura.



Inserción de una tarjeta de memoria Micro SD

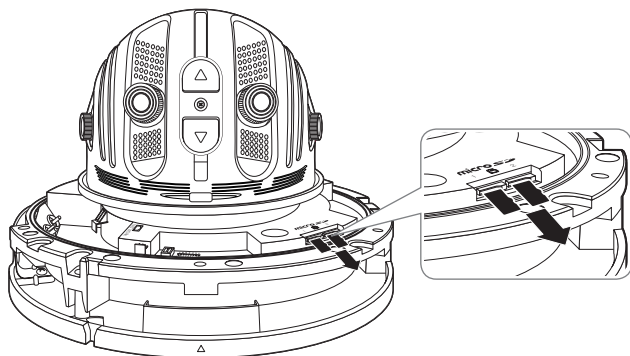
1. Retire la cubierta del domo de la cámara.
2. Inserte una tarjeta micro SD en la dirección de la flecha que aparece en la figura.



- Desconecte el cable de alimentación de la cámara antes de insertar la tarjeta de memoria Micro SD.
- No lo inserte a la fuerza en la dirección inversa. Podría dañar la tarjeta de memoria Micro SD y el producto.
- 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.
- Durante la instalación o extracción de la tarjeta de memoria Micro SD, asegúrese de colocar el cuerpo del producto sobre una superficie plana antes de trabajar en él para evitar accidentes por pérdida o caída de piezas.

Extracción de una tarjeta de memoria Micro SD

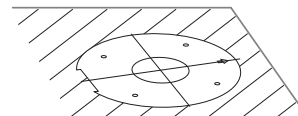
Presione suavemente hacia abajo en el extremo expuesto de la tarjeta de memoria como se muestra en el esquema para sacarla de la ranura.



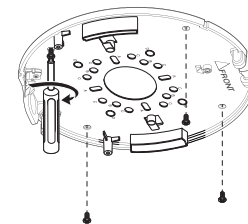
- Debería guardar una tarjeta SD para cada canal.
- Tenga en cuenta que si empuja firmemente y suelta la tarjeta de memoria Micro SD al expulsarla, puede salirse.
- Antes de retirar la tarjeta de memoria Micro SD, en **<Almacenamiento>**, ajuste el dispositivo en **<Des>** y pulse el botón **[Aplicar]** y apague la cámara.
- Si apaga la cámara o retira la tarjeta de memoria SD que contiene datos, puede perderlos o dañarlos.

Instalación en un techo o pared

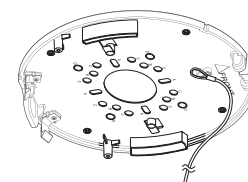
1. Utilice la plantilla incluida para perforar orificios para la instalación (con un diámetro de 6 mm y una profundidad mínima de 45 mm) e inserte hasta el final los anclajes de plástico suministrados.



2. Alinee los orificios de la placa de montaje para la instalación con los orificios insertados con anclajes de plástico, y apriete los tornillos de fijación.



3. Conecte el cable de seguridad.



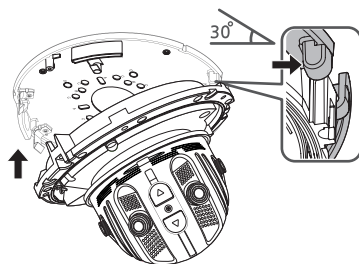
4. Monte el cuerpo de la cámara en la placa de montaje.
- Móntelo de manera que se ajuste a las bisagras como se muestra en la imagen.

5. Conecte el terminal interior de la cámara con el cable requerido.

6. Empuje hacia adentro el resorte del pasador.

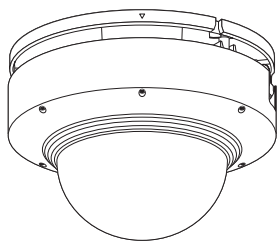
7. Para ajustar el objetivo a la dirección deseada, consulte **"Ajuste de la dirección de monitoreo de la cámara"** (Página 15).

- Si inclina la lente, puede que necesite ajustarla ya que esto podría bloquear la pantalla.



8. Monte la cubierta del domo.

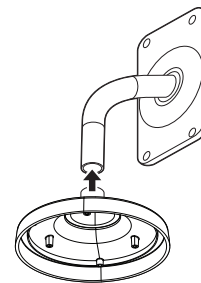
- Alinee las flechas al montar la cubierta del domo.
- Para asegurarse de que no hay problemas con la impermeabilización, apriete los pernos de fijación firmemente con la llave Allen o la broca.
- Retire el vinilo de protección que se encuentra en el interior/exterior de la tapa abovedada.



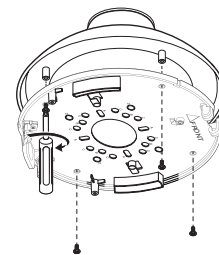
Colocación en el adaptador no suministrado

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

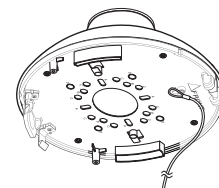
1. Instale el soporte colgante en el adaptador de soporte de pared.
- Los adaptadores de soporte de pared y los soportes colgantes se venden por separado.



2. Conecte la placa de montaje y el soporte colgante.



3. Conecte el cable de seguridad.



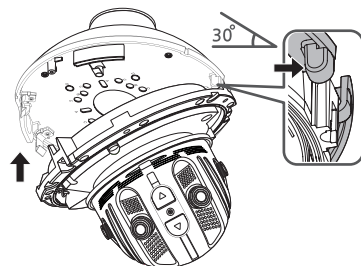
4. Monte el cuerpo de la cámara en la placa de montaje.
 - Móntelo de manera que se ajuste a las bisagras como se muestra en la imagen.

5. Conecte el terminal interior de la cámara con el cable requerido.

6. Empuje hacia adentro el resorte del pasador.

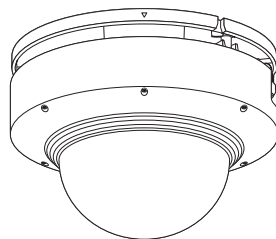
7. Para ajustar el objetivo a la dirección deseada, consulte **"Ajuste de la dirección de monitoreo de la cámara"** (Página 15).

- Si inclina la lente, puede que necesite ajustarla ya que esto podría bloquear la pantalla.



8. Monte la cubierta del domo.

- Alinee las flechas al montar la cubierta del domo.
- Para asegurarse de que no hay problemas con la impermeabilización, apriete los pernos de fijación firmemente con la llave Allen o la broca.
- Retire el vinilo de protección que se encuentra en el interior/exterior de la tapa abovedada.



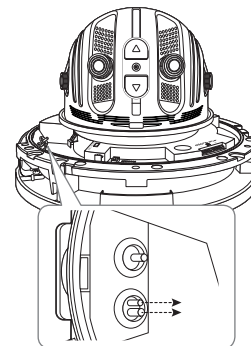
Método 1. Conexión del cable de alimentación resistente al agua y del cable LAN

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.

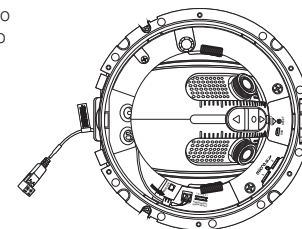


- Utilice un pasacables adecuado para conectar el cable LAN.
 - Cámara básica: utilice el cable con diámetro de Ø5~6,5.
 - Componentes suministrados: utilice el cable con diámetro de Ø7~8,5.



3. Introduzca el cable de alimentación en el pequeño orificio realizado al retirar la parte del enchufe en el paso 2, y coloque el cable junto a la ranura grande.

4. Conecte el cable de alimentación al bloque de terminales de alimentación.

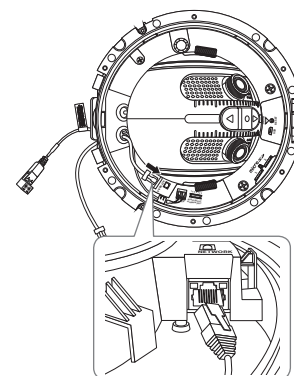


5. Introduzca el cable LAN en el orificio grande realizado al retirar la parte proyectada del enchufe en el paso 2.

6. Retire la cubierta con un cortador de cable y alinee los cables.

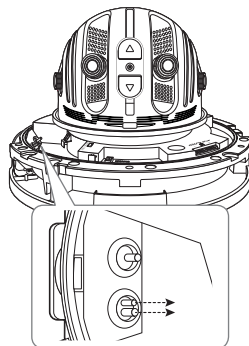
7. Conecte el cable LAN con un conector LAN, e introdúzcalo en el aparato LAN.

8. Conecte el cable al puerto Ethernet.

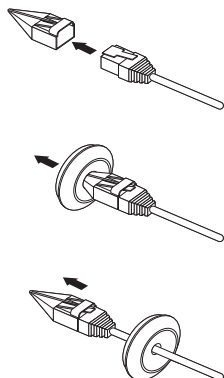


Método 2. Conexión del cable de alimentación resistente al agua y del cable LAN

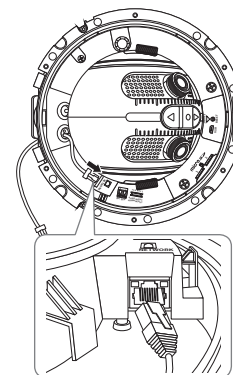
1. Retire la cubierta del domo de la carcasa.
2. Tire de la parte alargada del enchufe hacia la parte inferior y retírelo tal y como se indica en la figura.
3. Tire de la cubierta de goma sobre el orificio para quitarla.



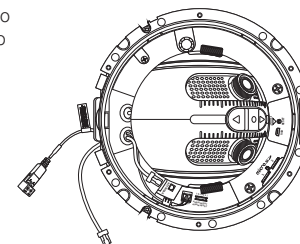
4. Use el Instalador de tapa para permitir el paso del cable RJ45.



5. Inserte el tope de goma nuevamente y conecte el cable LAN al terminal Ethernet.

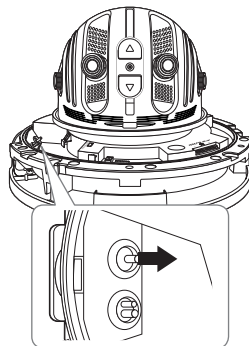


6. Introduzca el cable de alimentación en el pequeño orificio realizado al retirar la parte del enchufe en el paso 2, y coloque el cable junto la ranura grande.
7. Conecte el cable de alimentación al bloque de terminales de alimentación.

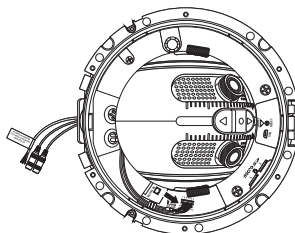


Conexión del cable de audio/alarma

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 audio/alarma en el orificio hecho al retirar la clavija de goma en el paso 2, y conecte el cable con el terminal de alarma PCB.
4. Alinee el cable para no dañarlo o atraparlo al instalar la cámara.
5. Cloque la clavija de goma del cable audio/alarma en el orificio.
6. Ajuste el objetivo en la dirección que desee consultando la sección "Ajuste de la dirección de la cámara". (página 15)
7. Coloque la cubierta del domo.



Instalación de adaptador de montaje opcional

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 9)
2. Fije la carcasa de la cámara al adaptador de montaje opcional usando los tornillos de la máquina suministrados con la cámara.
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 15)
6. Cierre la cubierta del domo.
 - Para asegurarse de que no hay problemas con la impermeabilización, apriete los pernos de fijación firmemente con la llave Allen o la broca.

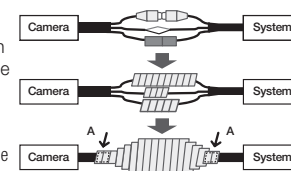
Instalación en el exterior

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 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.

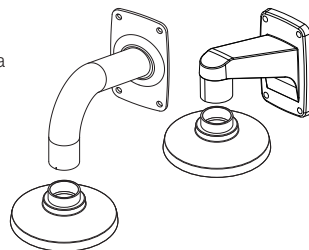


Accesorios opcionales para la instalación

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

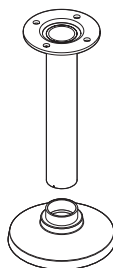
1. ADAPTADOR DE MONTAJE EN PARED (SBP-300WM o SBP-300WM1) / MONTAJE COLGANTE (SBP-276HM)

Es un adaptador de montaje que se utiliza para instalar la cámara de cúpula en la pared.



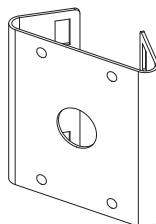
2. ADAPTADOR DE MONTAJE EN TECHO (SBP-300CM) / MONTAJE COLGANTE (SBP-276HM)

Es un adaptador de montaje utilizado para la instalación de la cámara de cúpula en un techo de hormigón.



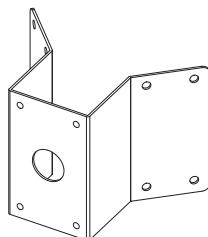
3. ADAPTADOR DE MONTAJE EN POSTE (SBP-300PM)

Es un adaptador de montaje utilizado para la instalación de un adaptador de montaje de pared (SBP-300WM o SBP-300WM1) en una columna con un diámetro de 80 mm o superior.

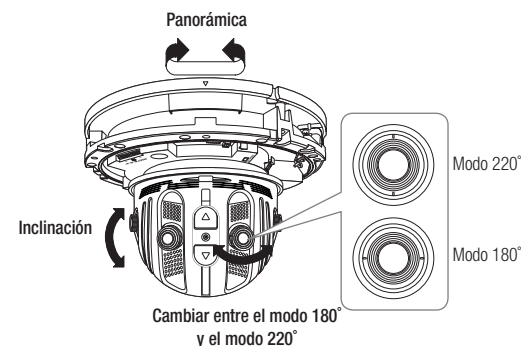


4. ADAPTADOR DE MONTAJE EN ESQUINA (SBP-300KM)

Es un adaptador de montaje utilizado para la instalación de un adaptador de montaje de pared (SBP-300WM o SBP-300WM1) en la esquina de una pared.



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. En este momento, la rotación del cuerpo principal de la cámara en la dirección izquierda y derecha se llama PANORÁMICA, y el ajuste del ángulo de la cámara se llama INCLINACIÓN.

- El rango efectivo de la panorámica es de 355 grados.
- El rango efectivo de inclinación es de 60 grados.

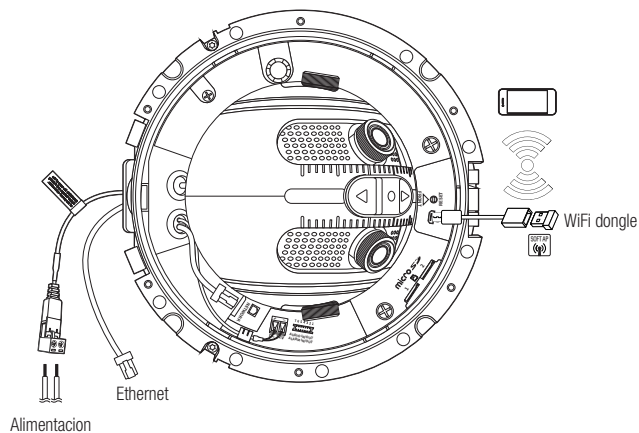


- La imagen puede quedar cubierta por la carcasa de la cámara según el ángulo.

■ Métodos de ajuste

1. Después de instalar la cámara teniendo en cuenta la dirección a supervisar, ajuste el ángulo de panorámica.
2. Ajuste el ángulo de inclinación de forma que la cámara apunte hacia el objeto vigilado.
3. Gire la lente para cambiar el modo 180°/modo 220°.

CONEXIÓN CON OTROS DISPOSITIVOS



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

Conexión Ethernet

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

Conexión de WiFi

Configuración de la cámara

- Conecte el adaptador OTG (5 pines) y el dongle WiFi al terminal micro USB.

Configuración del smartphone

- Instale la aplicación de instalación de Wisenet.
- Seleccione el SSID de la cámara después de encender el WiFi.
- Ejecute la aplicación de instalación de Wisenet.
- Cuando inicie sesión en la cámara, el vídeo se conectará.
 - El vídeo se reproducirá sin estar conectado durante la conexión inicial.
- Puede ajustar el ángulo de visión mientras ve el vídeo a través del smartphone.

Fabricante de dongle recomendado

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

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 12 VCC.
 - También puede utilizar un enrutador que incorpore PoE+ para suministrar energía a la cámara.
 - Utilice PoE+ que sea compatible con los protocolos IEEE802.3at.
 - Es aconsejable el uso de una sola fuente de alimentación de PoE+ y 12V CC.
 - 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.

Especificación del cable de alimentación

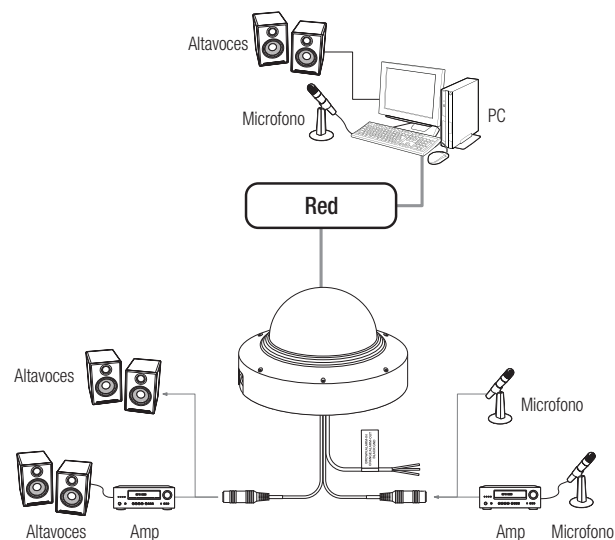
En caso de una entrada de CC 12V:

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

Características del cable de red

Elemento	Contenido	Observaciones
Conector	RJ45 (10/100/1000BASE-T)	
Ethernet	10/100/1000BASE-T	Para operar con 1000BASE-T, se debe utilizar un cable de UTP-6 o superior para el concentrador Giga.
Cable	UTP de categoría 6	
Distancia máx.	100M	Resistencia de CC ≤ 0,188 Ω / m
Soporte PoE+	IEEE 802.3at	

Conectar la Entrada/Salida 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.
2. Conecte el puerto AUDIO OUT de la cámara con el micrófono o al puerto LINE IN del amplificador al que está conectado el altavoz.
3. Compruebe las especificaciones de entrada de audio.

• Códec de Audio

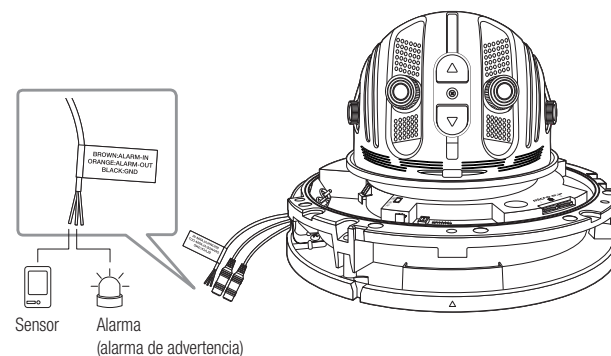
- Entrada de audio : G.711 PCM (Tasa de bits: 64 kbps/Frecuencia de muestreo: 8 kHz), ADPCM G.726 (Tasa de bits: 16 Kbps, 24 Kbps, 32 Kbps, 40 kbps/Frecuencia de muestreo: 8 kHz), AAC (Tasa de bits: 48 kbps/Frecuencia de muestreo: 16 kHz)

• Audio Full dúplex

- **Entrada de Audio** : Seleccionable (micrófono/entrada de línea), tensión admitida: 2,5 V CC (4 mA), impedancia de entrada: 2K Ohm
- **Salida de audio** : Salida de línea (conector mono de 3,5 mm), salida máxima: 1 Vms
- **Impedancia de salida de línea** : 600Ω

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.



- **ALARM-IN** : Se utiliza para conectar el sensor de entrada de alarma.
- **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 superan las cifras de voltaje y corriente. (página 18)

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

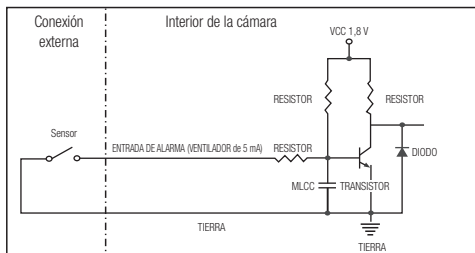
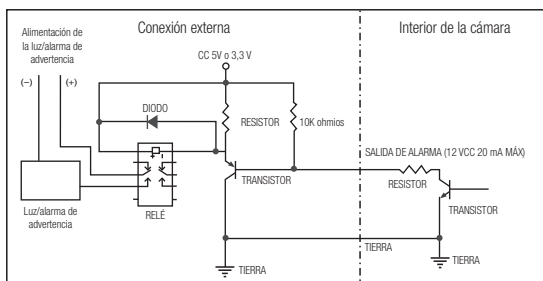


Diagrama de cableado de salida de alarma

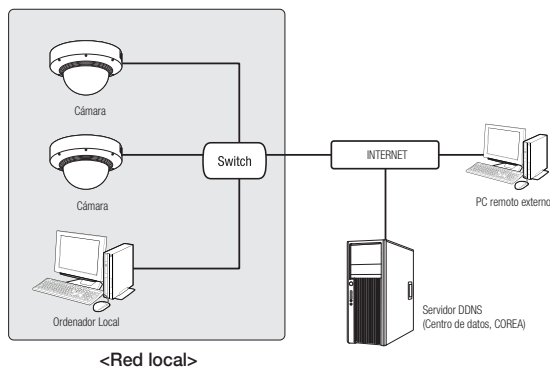


Puede fijar la configuración de red de acuerdo con sus configuraciones de red.

CONECTAR LA CÁMARA DIRECTAMENTE A LA RED DE ÁREA LOCAL

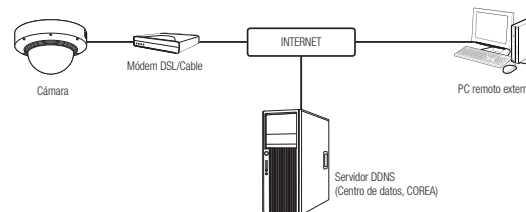
Conectar con la cámara desde un ordenador local en la LAN

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.
- En el programa de instalación de IP, puede utilizar la contraseña inicial, "4321" para configurar la dirección IP, máscara de subred, puerta de enlace, puerto HTTP, puerto VNP, tipo de IP. Después de cambiar la interfaz de red, para mayor seguridad, acceda al visor web y cambie la contraseña.
- Como valor predeterminado de fábrica, la dirección IP se asignará automáticamente desde el servidor DHCP. Si no hay ningún servidor DHCP disponible, la dirección IP se definirá en 192.168.1.100. Para cambiar la dirección IP, utilice Instalador IP. Para obtener más detalles sobre el uso de Instalador IP, consulte "Configuración de IP estática". (página 20)

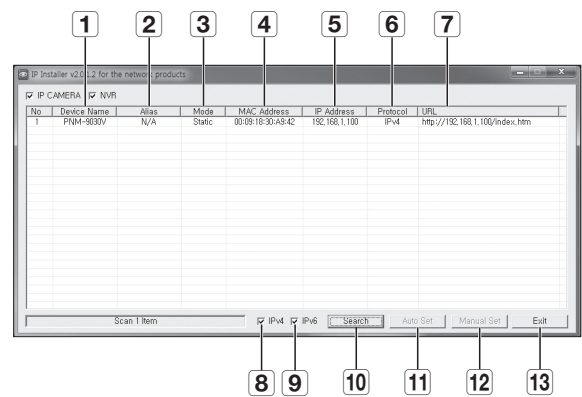
CONEXIÓN DIRECTA DE LA CÁMARA A UN MÓDEM DSL/CABLE BASADO EN DHCP



1. Conectar el PC del usuario directamente a la cámara de red.
2. Ejecute IP Installer y cambie la dirección IP de la cámara de forma que pueda utilizar el navegador Web de su escritorio para conectar 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.

BOTONES UTILIZADOS EN IP INSTALLER



Elemento	Descripción
1 Device Name	Nombre de modelo de la cámara conectada. Haga clic en la columna para clasificar la lista por nombre de modelo. No obstante, la búsqueda se detendrá si hace clic durante la búsqueda.
2 Alias	Esta función no está actualmente implantada.
3 Mode	Muestra <Static> o <Dynamic> para el estado de conexión de red.
4 MAC(Ethernet) Address	Dirección Ethernet de la cámara conectada. Haga clic en la columna para ordenar la lista por dirección Ethernet. No obstante, la búsqueda se detendrá si hace clic durante la búsqueda.
5 IP Address	Dirección IP. Haga clic en la columna para ordenar la lista por dirección IP. No obstante, la búsqueda se detendrá si hace clic durante la búsqueda.
6 Protocol	Ajuste de red de la cámara. El ajuste predeterminado de fábrica es "IPv4". Las cámaras con el ajuste IPv6 mostrarán "IPv6".
7 URL	La dirección URL de DDNS que permite acceder desde Internet externa. No obstante, se sustituirá por la <IP Address> de la cámara si ha fallado el registro de DDNS.
8 IPv4	Rastrea las cámaras que tengan el ajuste IPv4.

Elemento	Descripción
9 IPv6	Rastrea las cámaras que tengan el ajuste IPv6. Se activa únicamente en un entorno compatible con IPv6.
10 Search	Rastrea las cámaras que estén actualmente conectadas a la red. No obstante, este botón aparecerá atenuado si no se marca ni IPv4 ni IPv6.
11 Auto Set	IP Installer configura automáticamente los ajustes de red.
12 Manual Set	Debe configurar manualmente los ajustes de red.
13 Exit	Salida del programa IP Installer.

- Para IP installer, utilice sólo la versión que se facilita en el CD de instalación o utilice la última versión si está disponible. Puede descargar la versión más reciente desde el sitio Web de Hanwha Vision.
- Puede descargar el programa del Device Manager desde el menú <Support> – <Online Tool> en el sitio web de Hanwha Vision (<https://www.HanwhaVision.com>).

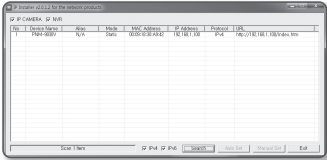
CONFIGURACIÓN DE IP ESTÁTICA

Configuración de red manual

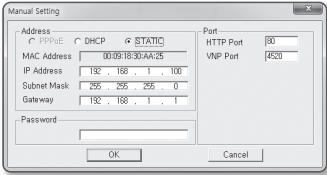
Ejecute <IP Installer_v2.XX.exe> para ver la lista de búsqueda de cámaras.
En el arranque inicial, tanto [Auto Set] como [Manual Set] aparecerán atenuados.

- En las cámaras encontradas con el ajuste IPv6, estos botones aparecerán atenuados ya que las cámaras no admiten esta función.

1. Seleccione una cámara en la lista de búsqueda.
Compruebe la dirección MAC de la cámara en la etiqueta de la cámara.
Se activarán los botones [Auto Set] y [Manual Set].
2. Haga clic en [Manual Set].
Aparece el diálogo Manual Setting.
<IP Address>, <Subnet Mask>, <Gateway>, <HTTP Port> y <VNP Port> de la cámara aparecen en los valores previamente configurados.



3. En el panel <Address>, facilite la información necesaria.
 - MAC (Ethernet) Address : La dirección MAC impresa en la etiqueta de la cámara aparece automáticamente y no requiere ningún ajuste del usuario.
- Los respectivos parámetros IP sólo se pueden establecer cuando el DHCP no está seleccionado.



Si no se utiliza un Enrutador de banda ancha

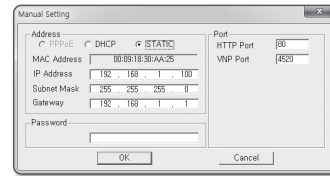
Para el ajuste de <IP Address>, <Subnet Mask> y <Gateway>, póngase en contacto con el administrador de red.

4. En el panel <Port>, facilite la información necesaria.

- HTTP Port : se utiliza para acceder a la cámara utilizando el explorador de Internet, por defecto en 80.
- VNP Port : se utiliza para controlar la transferencia de señales de video, por defecto en 4520.

5. Introduzca la contraseña.

Introduzca la contraseña de la cuenta "admin", utilizada para acceder a la cámara.



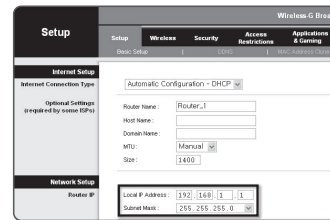
- A efectos de seguridad, se recomienda utilizar una combinación de números, letras del alfabeto en mayúsculas y minúsculas, y caracteres especiales para su contraseña.
- Para obtener información sobre cómo cambiar la contraseña, consulte la ayuda en línea de Web Viewer.

6. Haga clic en [OK].

La configuración manual de la red queda completada.

Si se utiliza un Enrutador de banda ancha

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



- Es posible que los ajustes difieran dependiendo del modelo de enrutador de banda ancha conectado. Para obtener información adicional, consulte el manual de usuario del enrutador aplicable.

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

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

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

Categoría		Cámara 1	Cámara 2
Ajustes relacionados con IP	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Ajustes relacionados con el puerto	HTTP Port	8080	8081
	VNP Port	4520	4521

- Si <HTTP Port> 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

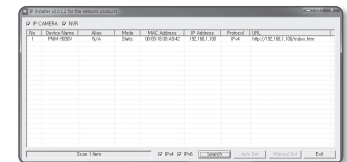
Configuración automática de red

Ejecute <IP Installer_v2.XX.exe> para ver la lista de búsqueda de cámaras.

En el arranque inicial, tanto [Auto Set] como [Manual Set] aparecerán atenuados.

- En las cámaras encontradas con el ajuste IPv6, estos botones aparecerán atenuados ya que las cámaras no admiten esta función.

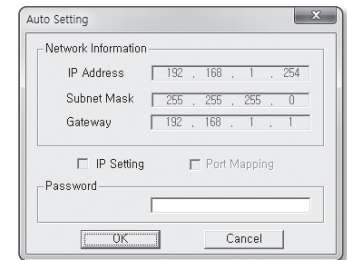
1. Seleccione una cámara en la lista de búsqueda. Compruebe la dirección MAC de la cámara en la etiqueta de la cámara. Se activarán los botones [Auto Set] y [Manual Set].
2. Haga clic en [Auto Set]. Aparece el diálogo Auto Setting. Se definirán automáticamente <IP Address>, <Subnet Mask> y <Gateway>.
3. Introduzca la contraseña. Introduzca la contraseña de la cuenta "admin", utilizada para acceder a la cámara.



- A efectos de seguridad, se recomienda utilizar una combinación de números, letras del alfabeto en mayúsculas y minúsculas, y caracteres especiales para su contraseña.
- Para obtener información sobre cómo cambiar la contraseña, consulte la ayuda en línea de Web Viewer.

4. Haga clic en [OK].

La configuración automática de la red queda completada.



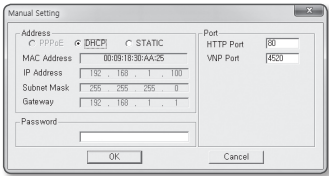
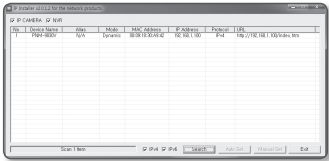
CONFIGURACIÓN DE IP DINÁMICA

Configuración del entorno de IP dinámica

- 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

Comprobación de la IP dinámica

- Ejecute IP Installer en el ordenador local del usuario. Las cámaras que tienen asignadas una dirección <Dynamic IP> aparecen en la lista.
- Seleccione una cámara en los resultados de la búsqueda.
- Haga clic en el botón de [Manual Set] y compruebe la dirección <Dynamic IP> de la cámara. Si quita la marca de selección de <DHCP>, puede cambiar la IP a <Static>.

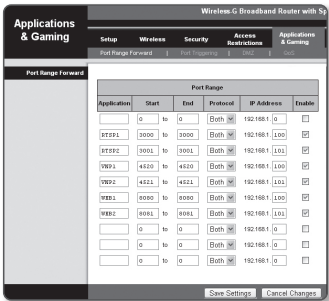


CONFIGURACIÓN DE REENVÍO DEL RANGO DE PUERTOS (ASIGNACIÓN DE PUERTOS)

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

- 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.
- 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.



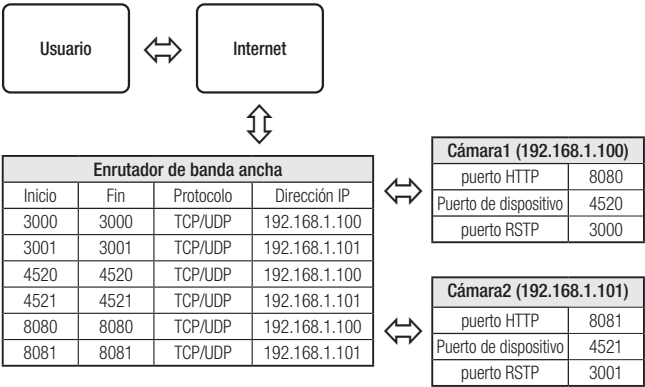
- Una vez hecho, haga clic en [Save Settings]. Se guardarán los ajustes.

- El ejemplo de instrucciones anteriores se basan en el enrutador de banda ancha 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 :



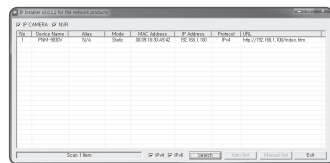
- El enrutamiento de puerto se puede hacer sin una configuración adicional del router si este está adaptado para la función UPnP (Universal Plug and Play). Después de conectar la cámara de red, seleccione la casilla de verificación del menú <Conexión rápida> en <DDNS> en "Configuración -> Red -> DDNS".

CONEXIÓN A LA CÁMARA DESDE UN PC LOCAL COMPARTIDO

1. Ejecute Instalador IP.
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

Debido a que no se permite utilizar Instalador IP en un ordenador remoto que no se encuentre en un grupo de red del enrutador de banda ancha, los usuarios pueden acceder a las cámaras dentro de una red del enrutador de banda ancha utilizando el URL de 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.harwha-security.com/ID>

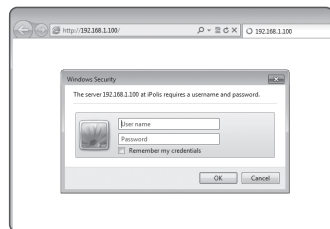


- Para obtener información sobre cómo registrar DDNS, consulte la guía de configuración de red.

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.

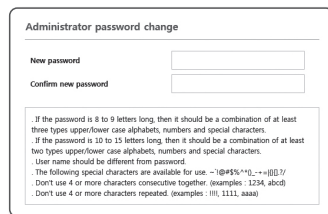
Para registrar el dispositivo en el servidor de <DDNS>, entre en http://ddns.hanwha-security.com y registre primero el dispositivo y, a continuación, establezca <Red> - <DDNS> de Web Viewer en <DDNS>, y facilite el <ID de producto> utilizado durante el registro de DDNS.

CONFIGURACIÓN DE CONTRASEÑA

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

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

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



CONFIGURACIÓN DEL VISOR WEB DE LA CÁMARA

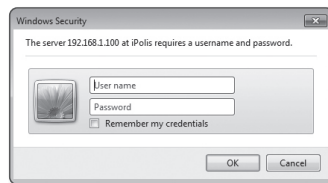
1. Haga clic en el icono **[Configurar (⚙)]**.
2. Aparece la ventana de Ajustes.
3. Puede configurar a través de la red los ajustes de información básica de la cámara, vídeo, audio, red, evento, análisis y sistema.
4. Haga clic en **<Ayuda (🔗)>** para ver descripciones detalladas de cada función.

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.

ESPECIFICACIONES

Opciones		Descripción
Video	Dispositivo de imágenes	1/2.8" 5M CMOS x 4CH
	Píxeles totales	2.704(H) x 2.104(V) 5,69M x 4CH
	Píxeles efectivos	2.616(H) x 1.964(V) 5M x 4CH
	Sistema de barrido	Escaneo progresivo
	Iluminación mín.	Color: 0,15 lux (F2.0, 1/30 s, 30IRE) B/N: 0,01 lux (F2.0, 1/30 s, 30IRE)
	Salida de vídeo	USB: Micro USB tipo B, 1280 x 720 para instalación
Objetivo	Longitud focal (índice de zoom)	4mm
	Coefficiente de apertura máx.	F2.0
	Campo de visión angular	[Modo de 180°] H: 180°, V: 70°, [Modo de 220°] H: 220°, V: 52°
	Distancia mín. del objeto	3 m (9,84 ft): Distancia mínima recomendada
	Tipo de objetivo	Focal fija
	Tipo montaje	Tablero incorporado (M12)
Panorámica/ Inclinación/ Rotación	Rango de panorámica	355°
	Rango de inclinación	60°
	Rango de rotación	-
Funcionamiento	Título de cámara	No / Sí (Se muestran 75 caracteres) - W/W : Inglés/Numérico/Caracteres especiales - Común: Multilínea (Máx 5), color (gris / verde / rojo / azul / negro / blanco), transparencia, escala automática por resolución
	Día y noche	Auto (ICR) / Color / B/N / Programación
	Compensación de luz de fondo	No / BLC / WDR
	Rango dinámico ancho	120 dB
	Mejora de contraste	SSDR (Apagado/Encendido)
	Reducción de ruido digital	SSNRIII (Filtro de ruido 2D+3D) (Apagado/Encendido)

Opciones		Descripción
Funcionamiento	LDC	Soporte
	Desempeñado	Auto/Manual/Apagado
	Detección de movimiento	Apagado/encendido (8ea, 8 puntos de zonas poligonales), Transferir
	Máscara de privacidad	No / Sí (16ea, zonas rectangulares) - Color: gris, verde, rojo, azul, negro, blanco - Mosaico
	Control de ganancia	No / Bajo / Mediana / Alto
	Balance de blanco	ATW / AWC / Manual / Interior / Exterior
	Contraste	Ajuste de nivel
	Velocidad de obturador electrónico	Mínima / Máxima / Anti parpadeo (2 ~ 1/12.000 segundos)
	Rotación / Espejo	Rotación : Encendido / Apagado Espejo : Encendido / Apagado
	PTZ digital	Soporte
	Análisis de video inteligente	Manipulación, merodeo, detección direccional, línea virtual, entrada/salida, (des) aparición, detección de movimiento, detección de audio, clasificación de sonido, mapa de calor
	E/S alarma	Entrada 1ea / Salida 1ea
	Entrada de audio	Entrada de línea Tensión de alimentación: 2.5 VCC (4 mA), Impedancia de entrada: aprox. 2K ohmios
	Salida de audio	Salida de línea (Mini clavija estéreo de 3,5 mm)
	Se activa la alarma	Entrada de alarma, Detección de movimiento, Análisis de vídeo y audio, Desconexión de red
	Evento de alarma	• Subida de archivo a través de FTP, E-Mail • Notificación a través de e-mail • Almacenamiento local (SD / SDHC / SDXC) o NAS grabación en red desconectada y eventos (activación de alarmas) • Salida externa
	Contador de píxeles	Soporte

Opciones	Descripción
Ethernet	RJ-45 (10/100/1000 BASE-T)
Formato de compresión de vídeo	H.265 (HEVC): Principal H.264 (MPEG-4 Parte 10/AVC): Principal/Base/Alto MJPEG
Resolución	[Modo de 180°] 6096x2540, 5760x2400, 5472x2280, 5184x2160, 4800x2000, 4560x1900, 4096x1704, 3840x1600, 2688x1120, 2560x1064, 2048x852, 1920x800, 1280x532, 640x264 [Modo de 220°] 7744x1936, 6096x1524, 5760x1440, 5472x1368, 5184x1296, 4800x1200, 4560x1140, 4096x1024, 3840x960, 2688x672, 2560x640, 2048x512, 1920x480, 1280x320, 640x160
Velo. máx. de fotogramas	H.265/H.264 : Máx. 30 fps en todas las resoluciones MJPEG: Máx. 15 fps a 2 MP
Códec inteligente	Modo manual (basado en zona : 5ea)
WiseStream II	Soporte
Ajuste de calidad de vídeo	H.264/H.265 : Control de nivel de vel. de bits de destino MJPEG : Control de nivel de vel. de bits de destino
Método de control de vel. de bits	H.264/H.265 : CBR o VBR Motion JPEG : VBR
Capacidad de flujo de datos	Transmisión de datos múltiple (hasta 5 o 3 perfiles por cada CH)
Formato de compresión de audio	G.711 µ-law / G.726 Seleccionable G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps a 16KHz
Comunicación de audio	Bidireccional (bidireccional)
IP	IPv4, IPv6
Protocolo	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP

Red

Opciones	Descripción
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)
Método de flujo de datos	Unicast / Multicast
Acceso máx. de usuarios	15 usuarios en modo Unicast
Almacenamiento Edge	SD/SDHC/SDXC (hasta 256 GB) - Se pueden descargar las imágenes en movimiento grabadas en la tarjeta de memoria SD/SDHC/SDXC. NAS (Almacenamiento conectado a la red) PC local para grabación instantánea
Interfaz de programación de aplicaciones	ONVIF Profile S/G SUNAPI(HTTP API)
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 10.10, 10.11, 10.12 Navegador compatible : Google Chrome 63, MS Edge 41, Mozilla Firefox 57 (sólo compatible con Windows 64bit), Apple Safari 11 (sólo compatible con Mac OS X)
Software de gestión central	Smart viewer, SSM
Temperatura / Humedad de funcionamiento	-40°C ~ +55°C (-40°F ~ +131°F) / Menos del 90% de HR * El arranque se debería hacer por arriba de -30 °C
Temperatura / Humedad deprzechowywania	-40°C ~ +60°C (-40°F ~ +140°F) / Menos del 90% de HR
Protección de ingreso	IP66
Antivandálico	IK10
Tensión/corriente de entrada	PoE+(IEEE802.3at Class4), CC 12V
Consumo de energía	Máx. 25.5 W (PoE+), Máx. 21.0W (CC 12V)
Color / Material	Marfil/Aluminio
Dimensiones (ØxAI)	Ø253mm x AI165mm (Ø9.96" x AI6.5")
Peso	3.2Kg

Red

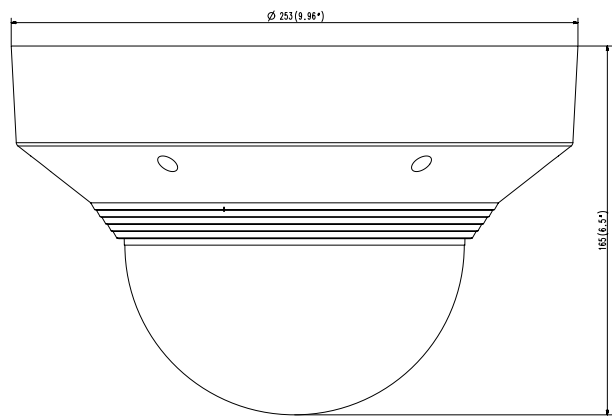
Ambiental

Eléctrico

Mecánico

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. • Si la cámara está conectada por una red PPPoE, es posible que el Visualizador se desconecte con condiciones de red pobres.
La cámara conectada a la red no se detecta en el programa instalador IP.	• 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.

PROBLEMA	SOLUCIÓN
Después de configurar <Detección de movimiento> para “Habilitar” en <Analítica>, no se envía ningún archivo por E-mail, aunque se haya producido un evento de análisis de video en la cámara.	- Verifique los ajustes en la secuencia siguiente: - Compruebe los ajustes de <Fecha y hora>. <Detección de movimiento> debe definirse en <Activar>. - Compruebe si la opción <E-mail> del menú <Config. de evento> está marcada para ser utilizada.
No se encuentra ninguna señal en el puerto de salida de alarma cuando se genera un evento de análisis de video inteligente.	Compruebe los ajustes del puerto de salida de alarma.
No se puede grabar en la tarjeta de memoria Micro SD.	Compruebe si la tarjeta de memoria está defectuosa.
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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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	
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2. "Source Code" means a source program, including related comments and documentations, for the T-Kernel and the Ported Source Code defined in Article 2.8 which is registered with T-Engine Forum.
3. "Hardware-dependent Part" means the part of the Source Code which depends on hardware and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.
4. "Compiler-dependent Part" means the part of the Source Code which depends on compiler and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.
5. "Header File" means the part of the Source Code which contains definitions necessary to develop application programs.
6. "T-Engine Hardware" means the hardware which is manufactured in accordance with the T-Engine Hardware specifications or the μ T-Engine Hardware specifications issued by T-Engine Forum, and registered with T-Engine Forum.
7. "Similar Hardware to T-Engine Hardware" means any hardware (including software which emulates hardware) other than that defined in Article 2.6 above, on which the T-Kernel can be operated.
8. "Ported Source Code" means a source program produced from the Source Code by modifying only its Hardwaredependent Part and/or Compiler-dependent Part to enable it to be operated on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware. The Ported Source Code which is registered with T-Engine Forum shall be included in the Source Code.
9. "Modified Source Code" means a source program modified from the Source Code for the purpose of improving its performance, increasing or decreasing its function, and the like. The Ported Source Code shall not be included in the Modified Source Code.
10. "Binary Code" means an executable code form which is created by compiling programs, which include all or part of the Source Code or the Modified Source Code.
11. "Derivative Work" means the Modified Source Code or the Binary Code.
12. "Embedded Product" means any product which operates with executable code form of the Source Code, the Modified Source Code or the Binary Code loaded on its hardware.
13. "End User" means a consumer who uses the Embedded Product.
14. "System Developer" means any person who develops the Embedded Product by itself or has a third party develop the same, and provides, whether with or without payment, the End User with the Embedded Product.
15. "Distributor of Modification" means any person who produces the Modified Source Code and, whether with or without payment, distributes the same to any third party.

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

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

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

19. "Distribution" means any of the following acts:

1. to transmit a work to a large number of specific persons through the Internet communication, broadcasting, and the like;
2. to transmit a work to the general public through the Internet communication, broadcasting, and the like automatically in response to a request from the public; and
3. to distribute a copy of a work to the general public or a large number of specific persons.

Article 3. Copyright

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

Article 4. License of Source Code

1. As provided for in this Article, T-Engine Forum shall provide, and grant a license to use, the Source Code free of charge to any person who has taken the necessary procedure for registration as prescribed by T-Engine Forum and agreed to the T-License.
2. The Source Code shall be distributed exclusively by T-Engine Forum. Any person who obtains the Source Code under Article 4.1 above shall not make any re-Distribution of the Source Code.
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 2. to run the Source Code provided by T-Engine Forum hereunder for its own research, development and the like.
 3. to run the Source Code modified in accordance with the provision of Article 4.3 (1) above for its own research, development and the like.
 4. to distribute the Binary Code created from the Source Code provided by T-Engine Forum hereunder or from the Source Code modified in accordance with the provision of Article 4.3 (1) above.
4. In accordance with the license granted under Article 4.1 above, the System Developer may perform the following acts:
 1. to perform any and all acts set forth in the Article 4.3 above.
 2. to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.
5. The Source Code User and the System Developer shall be obligated to give a notice that the Source Code is used, in such a way as separately specified by T-Engine Forum, when they use the Source Code or the Binary Code, or make the Binary Code available for the End User on the Embedded Product.

Article 5. Distribution of Modified Source Code

1. Any of A- members of T-Engine Forum may become the Distributor of Modification by obtaining the approval of T-Engine Forum through the registration procedure as prescribed by the Forum provided that only the department of the A- member which has taken the registration procedure may distribute the Modified Source Code in such a way as provided for in this Article as long as it holds the Amembership.
2. The Distributor of Modification may create the Modified Source Code based on the Source Code provided by T-Engine Forum and the Patch for Modification to be applied to create such Modified Source Code from the Source Code.
3. The Distributor of Modification shall, prior to the distribution, inform T-Engine Forum of and register a name and description of the Modified Source Code in such a way as specified by T-Engine Forum.
4. The Distributor of Modification shall determine the name of the Modified Source Code subject to the rules separately established by T-Engine Forum and publish an appropriate notice as required by the rules on the Patch for Modification and the Modified Source Code.
5. The Distributor of Modification may distribute the Modified Source Code to a third party, whether with or without payment, provided that the Distributor of Modification shall take the necessary measures to prohibit the third party from making the re-Distribution of the Modified Source Code.
6. Developer with the Patch for Modification. Provided, however, that the Distributor of Modification shall be obligated to confirm that the System Developer is the Source Code User duly licensed under Article 4.1.
7. The Distributor of Modification may perform the Vicarious Execution of Patch Processing for the System Developer.
8. The System Developer shall not distribute the Modified Source Code in further modified form to any third party as a stand-alone software product.
9. The System Developer may, under the same obligation as imposed in Article 4.5, make the Embedded Product available for the End User through use of the Patch for Modification distributed by the Distributor of Modification or the Derivative Works obtained through the Vicarious Execution of Patch Processing.

Article 6. Distribution and Registration of the Ported Source Code

1. The Source Code User and the System Developer may, whether with or without charge, distribute to any third party only the following parts of the Ported

Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware:

1. The Hardware-dependent Part and/or Compiler-dependent Part; provided that the Source Code User and the System Developer shall inform T-Engine Forum of, and T-Engine Forum may publish, a method for distributing said Part(s) to third parties.
2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.
2. Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.
3. Any member of T-Engine Forum who requests the distribution mentioned in the preceding paragraph shall accede to the following conditions:
 1. The member shall confirm that the object hardware is the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.
 2. The member shall provide T-Engine Forum with a complete set of operational environment for the object hardware and T-Kernel free of charge when requesting the distribution.
 3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.
4. In the event that T-Engine Forum accepts the request mentioned in Article 6.2, T-Engine Forum shall register and distribute the Ported Source Code as the Source Code for T-Kernel. Provided, however, that the Ported Source Code may be treated in the same way as the Modified Source Code until the time of registration hereunder.
5. The provision set forth in Article 3 shall apply to the Ported Source Code registered in accordance with this Article.

Article 7. Use for Other Purpose

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

Article 8. Limited Warranty

1. T-Engine Forum and the copyright holder of the Source Code warrant that the Source Code does not infringe third party's copyrights. Provided, however, that T-Engine Forum and the copyright holder of the Source Code make no warranty as to the Hardware-dependent Part and/or Compiler- dependent Part set forth in Article 6.2 in the Ported Source Code by any third party.
2. Neither T-Engine Forum nor the copyright holder of the Source Code warrants that the Source Code will fit for any particular purpose of the Source Code User.
3. Neither T-Engine Forum nor the copyright holder of the Source Code warrants that the Source Code does not infringe any third party's industrial property rights. In no event shall T-Engine Forum and the copyright holder of the Source Code be liable for any dispute which may arise between the Source Code User and a third party in connection with the third party's industrial property rights.

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1. Neither T-Engine Forum nor the copyright holder of the Source Code shall be liable for any damages (including, but not limited to, damages resulting from loss of profit, business interruption, loss of business information or any other pecuniary damage) arising out of use or impossibility of use of the Source Code, even if T-Engine Forum and the copyright holder have been informed of the possibility of such damages.

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1. In case that T-Engine Forum considers that this License Agreement is breached or that the popularization of T-Kernel is obstructed, T-Engine Forum shall take measures to correct such breach or such obstruction, take measures on the ground of copyright infringement, or take any other necessary measures against the breaching person or the obstructing person, regardless of whether or not the said person is a member of T-Engine Forum.
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3. Any legal dispute which may arise in relation to any breach of this License Agreement shall be subject to the exclusive jurisdiction of the Tokyo District Court.

Article 11. Governing Law and Language

1. This License Agreement shall be governed by and interpreted under the laws of Japan.
2. This License Agreement is executed in both Japanese text and English text provided that the Japanese text shall govern the interpretation and performance of this License Agreement.

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.5 of 10 December 2007

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iperf performance test

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

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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