

WISeNeT

CÁMARA DE RED

Manual del usuario

LND-6010R/LND-6020R/LND-6030R/LND-6070R
LNO-6010R/LNO-6020R/LNO-6030R/LNO-6070R
LNV-6010R/LNV-6020R/LNV-6030R/LNV-6070R



Cámara de Red

Manual del usuario

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Marca comercial

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

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

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

INSTRUCCIONES DE SEGURIDAD IMPORTANTES

1. Lea estas instrucciones.
2. Consérvelas.
3. Atente para todas las advertencias.
4. Siga todas las instrucciones.
5. No utilice este aparato cerca del agua.
6. Limpie el área contaminada en la superficie del producto con un paño seco y suave o un paño húmedo. (No utilice detergente o productos cosméticos que contengan alcohol, disolventes o tensioactivos o constituyentes de aceites, ya que pueden deformar o dañar el producto).
7. No obstruya ninguna apertura de ventilación. Instale el aparato siguiendo las instrucciones del fabricante.
8. No lo instale cerca de ninguna fuente de calor como radiadores, focos de calor o cualquier otro aparato (incluidos los amplificadores) que emita calor.
9. No olvide que la finalidad de los enchufes polarizados o de toma a tierra es proporcionarle seguridad. Un enchufe polarizado tiene dos clavijas, una más ancha que la otra. Un enchufe con toma a tierra tiene dos clavijas y una tercera de toma a tierra. Tanto la clavija más ancha, en el caso del enchufe polarizado, como la clavija adicional, en el caso del enchufe con toma a tierra, tienen como objetivo aportar seguridad. Si el enchufe del aparato no encaja en su toma de corriente, póngase en contacto con un electricista para cambiar la toma de corriente obsoleta.
10. Evite pisar o doblar el cable de alimentación. Ponga especial cuidado para no hacerlo en enchufes, tomas de corriente y en los puntos en los que salen desde el aparato.
11. Utilice únicamente los dispositivos y accesorios especificados por el fabricante.
12. Utilice sólo las mesitas con ruedas, soportes, trípodes o mesas recomendadas por el fabricante o vendidas con el aparato. Cuando se utilice una mesita con ruedas, tenga cuidado al mover la mesita con ruedas junto con el aparato para evitar daños por vuelco.
13. Desenchufe este aparato durante tormentas eléctricas o cuando no se utilice durante largos períodos de tiempo.
14. Remita todas las reparaciones a personal de mantenimiento cualificado. Es necesario enviar el aparato para su reparación cuando ha sufrido cualquier tipo de daño, como, por ejemplo, que el cable o el enchufe de la alimentación está dañado, se han derramado líquidos sobre el aparato o algún objeto ha caído sobre él, el aparato ha sido expuesto a la lluvia o a humedad, no funciona correctamente o se ha caído al suelo.
15. Este producto está diseñado para recibir alimentación de una fuente de alimentación listada de "Clase 2" o "LPS" y de PoE, 0.18A.
16. Si utiliza una fuerza excesiva al instalar el producto, es posible que la cámara pueda sufrir daños y funcione de forma incorrecta.
Si instala el producto de forma forzada utilizando herramientas no compatibles, es posible que el producto pueda sufrir daños.
17. No instale el producto en un lugar donde exista o pueda generarse sustancias químicas o niebla de aceite. Los aceites comestibles como el aceite de soja pueden dañar o deformar el producto, por lo que no debe instalar el producto en la cocina o cerca de la mesa de la cocina.
Esto podría causar daños al producto.
18. Al instalar el producto, tenga cuidado y no permita que la superficie del producto se manche con sustancias químicas.
Algunos disolventes químicos como limpiadores o adhesivos pueden causar daños graves a la superficie del producto.
19. Si instala o desmonta el producto de una manera que no se ha recomendado, es posible que las funciones/ rendimiento de producción no estén garantizados.
Instale el producto consultando "Instalación y conexión" en el manual del usuario.
20. La instalación o uso del producto en el agua puede causar daños graves al producto.



ADVERTENCIA

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

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

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

PRECAUCIÓN

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

EXPLICACIÓN DE LOS SÍMBOLOS GRÁFICOS



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



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

Construcción de clase I

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

Batería

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

Desconexión del dispositivo

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

Cuando lo utilice fuera de EE.UU., se puede utilizar el código HAR con 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.

ADVERTENCIA

Para evitar el daño causado por el LED de IR, no mire fijamente la lámpara de operación.

Para los modelos siguientes solamente.

- LND-6010R/LND-6020R/LND-6030R/LND-6070R
- LNO-6010R/LNO-6020R/LNO-6030R/LNO-6070R
- LNV-6010R/LNV-6020R/LNV-6030R/LNV-6070R

Grupo de riesgo 1
ADVERTENCIA IR emitidos desde este producto. No mire fijamente la lámpara de operación
Producto probado respecto a IEC 62471

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CARACTERÍSTICAS RECOMENDADAS DEL ORDENADOR

- CPU : Intel(R) Core(TM) i7 a 3,4 GHz o superior
 - SO admitido : Windows, Mac OS X
 - **Visor web sin plug-in**
Navegadores web compatibles: Google Chrome, MS Edge, Mozilla Firefox (solo Windows 64 bits), Apple Safari (solo Mac OS X)
 - **Visor web de plug-in**
Navegadores web compatibles: MS Explorer
 - VGA : Tarjeta gráfica de vídeo PCIe 256 MB GDDR3 o superior
- ※ Para obtener información detallada sobre el sistema operativo y el navegador, consulte el apéndice.

ESPECIFICACIONES DE LA TARJETA DE MEMORIA MICRO SD/SDHC RECOMENDADA

- Capacidad recomendada : 16 GB ~ 32 GB (tipo MLC)
- Para su cámara, le recomendamos utilizar una tarjeta de memoria de los siguientes fabricantes:
Tarjeta de memoria Micro SD/SDHC : Sandisk, Transcend

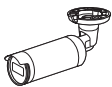
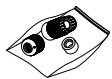
COMPONENTES (LND-6010R/6020R/6030R/6070R)

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

Aspecto	Nombre de elemento	Cantidad	Descripción
	Cámara	1	
	Manual de consulta rápida (Opcional)	1	
	Tarjeta de garantía (Opcional)	1	
	Plantilla	1	Guía de instalación del producto
	Tornillo de rosca cortante	2	Se utiliza para la instalación en pared o en techo

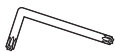
COMPONENTES (LNO-6010R/6020R/6030R/6070R)

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(Debido a los diferentes países de venta, los accesorios no son los mismos.)

Aspecto	Nombre de elemento	Cantidad	Descripción	Nombre del modelo
	Cámara	1		LNO-6010R/6020R/ 6030R/6070R
	Manual de consulta rápida (Opcional)	1		Use para todos los modelos
	Tarjeta de garantía (Opcional)	1		
	Plantilla	1	Guía de instalación del producto	
	Tornillo de rosca cortante	3	Se utiliza para la instalación en pared o en techo	
	Accesorio impermeable RJ45	1	Se usa para la instalación en lugares húmedos	
	Tipo de tarjeta que absorbe la humedad	1	Se adjunta cuando se instala.	LNO-6070R

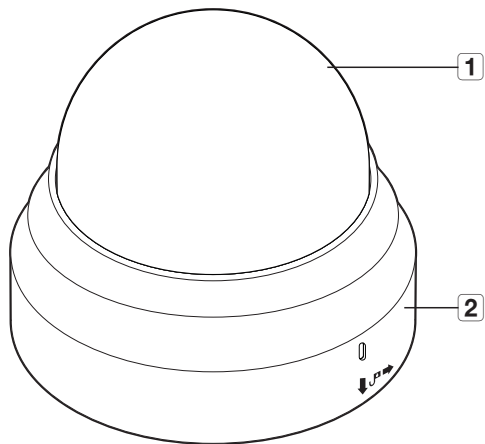
COMPONENTES (LNV-6010R/6020R/6030R/6070R)

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Aspecto	Nombre de elemento	Cantidad	Descripción	Nombre del modelo
	Cámara	1		LNV-6010R/6020R/ 6030R/6070R
	Manual de consulta rápida (Opcional)	1		Use para todos los modelos
	Tarjeta de garantía (Opcional)	1		
	Plantilla	1	Guía de instalación del producto	
	Llave en forma de estrella	1	Utilizado para el montaje y el desmontaje de cubiertas domo	
	Tipo de tarjeta que absorbe la humedad	1	Se adjunta cuando se instala.	
	Pasacables	1	Se utiliza para conectar el cable LAN con un diámetro de Ø7~8,5.	
	Tornillo de rosca cortante	2	Se utiliza para la instalación en pared o en techo	LNV-6010R/ 6020R/6030R
		3		LNV-6070R

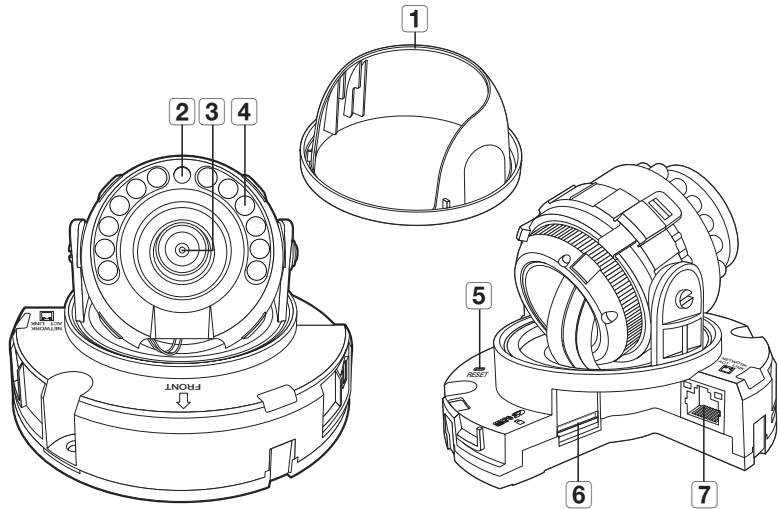
VISTA (LND-6010R/6020R/6030R)

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.

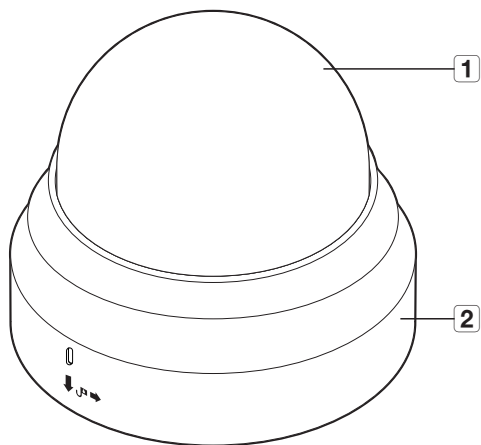
Componentes



Elemento	Descripción
1 Cubierta interior	Funda protectora para el cuerpo principal.
2 Sensor de iluminación	Detecta la luz entrante para controlar el LED de infrarrojos.
3 Objetivo	Objetivo de la cámara.
4 LED IR	Son LED de infrarrojos que se controlan mediante un sensor de iluminación.
5 Botón de reinicialización	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 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.
6 Compartimento de la tarjeta de memoria Micro SD	Compartimento de la tarjeta de memoria Micro SD.
7 Conector PoE	Suministra alimentación a través del cable Ethernet y conecta a la red.

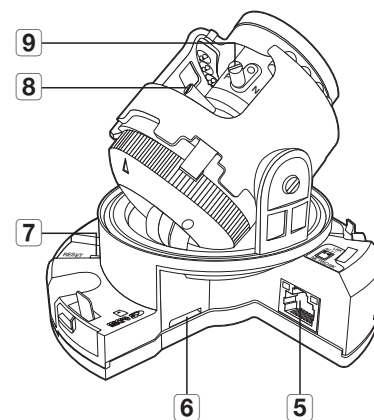
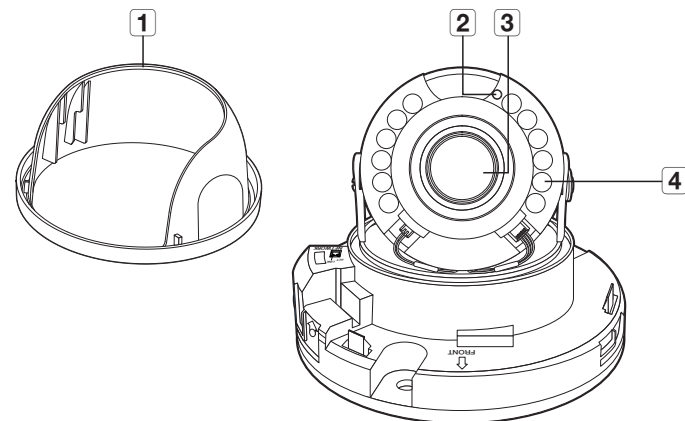
VISTA (LND-6070R)

Aspecto	Descripción
1. Aspecto general	El documento es un informe de investigación sobre el uso de la tecnología en el aula.
2. Aspecto metodológico	El estudio se realizó a través de una encuesta a 100 docentes de primaria.
3. Aspecto de resultados	Se observó un uso creciente de la tecnología en el aula, especialmente en actividades de enseñanza-aprendizaje.
4. Aspecto de conclusiones	Se concluye que la tecnología es una herramienta valiosa para mejorar la calidad de la educación.
5. Aspecto de recomendaciones	Se recomienda continuar con la implementación de la tecnología en el aula, así como brindar formación a los docentes.



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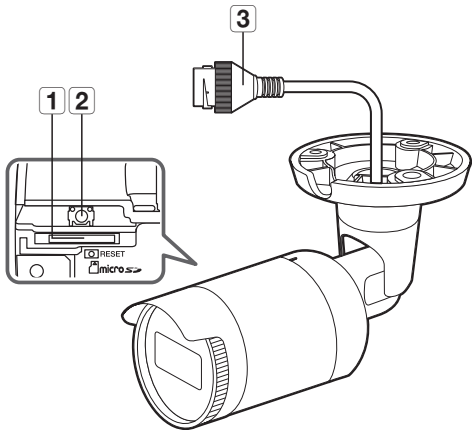
Componentes



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8	Palanca de control de zoom	T Acercar (Tele)
		W Alejar (Wide)
		Libere la palanca y muévala hacia la izquierda o hacia la derecha para acercar o alejar el zoom de la lente. Gire la palanca hacia la derecha para fijar la posición ajustada y evitar que se mueva.
9	Palanca de control de enfoque	N Enfoque de un objeto cercano (Near)
		F Enfoque de un objeto lejano (Far)
		Libere la palanca y muévala hacia la izquierda o hacia la derecha para ajustar el enfoque de la lente. Gire la palanca hacia la derecha para fijar la posición ajustada y evitar que se mueva.

VISTA (LNO-6010R/6020R/6030R)

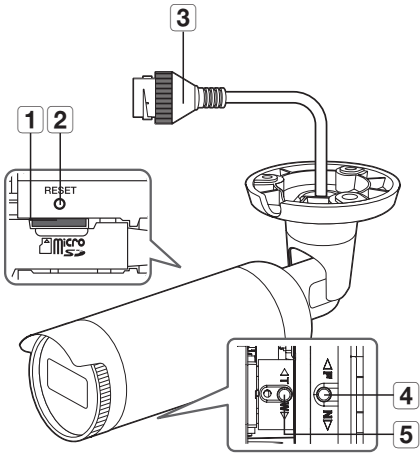
Aspecto



Elemento	Descripción
1 Ranura para tarjeta Micro SD	(Espacio interno del producto) Se trata de una ranura en la que se puede insertar una tarjeta Micro SD.
2 Botón de reinicialización	Este botón restaura los valores predeterminados de la cámara. Manténgalo pulsado durante unos 5 segundos para reiniciar el sistema. ❗ Si reinicia la cámara, los ajustes de red se ajustarán de forma que se pueda habilitar DHCP. Si no hay 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.
3 Conector PoE	Suministra alimentación a través del cable Ethernet y conecta a la red.

VISTA (LNO-6070R)

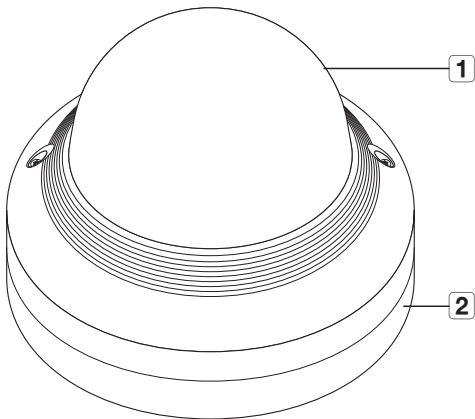
Aspecto



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3 Conector PoE	Suministra alimentación a través del cable Ethernet y conecta a la red.	
4 Palanca de control de enfoque	N	Enfoque de un objeto cercano (Near)
	F	Enfoque de un objeto lejano (Far)
5 Palanca de control de zoom	Libere la palanca y muévala hacia la izquierda o hacia la derecha para ajustar el enfoque de la lente. Gire la palanca hacia la derecha para fijar la posición ajustada y evitar que se mueva.	
	T	Acercar (Tele)
	W	Alejar (Wide)

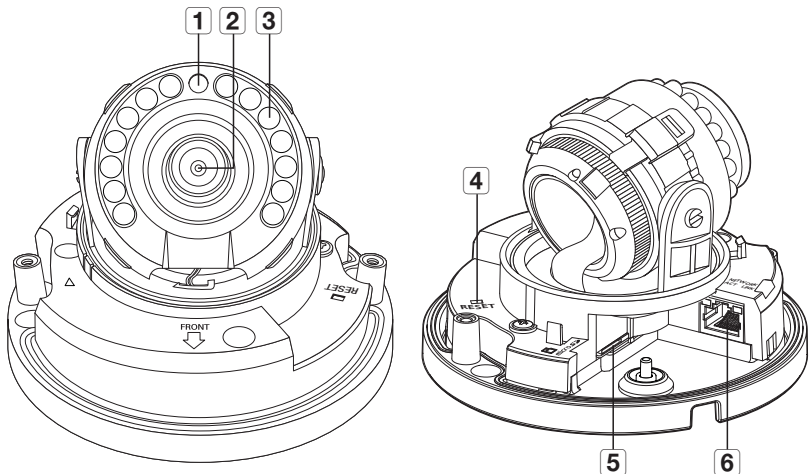
VISTA (LNV-6010R/6020R/6030R)

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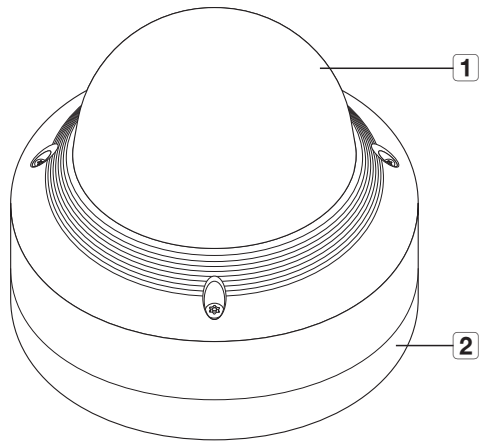
Componentes



Elemento	Descripción
1 Sensor de iluminación	Detecta la luz entrante para controlar el LED de infrarrojos.
2 Objetivo	Objetivo de la cámara.
3 LED IR	Son LED de infrarrojos que se controlan mediante un sensor de iluminación.
4 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 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.
5 Compartimento de la tarjeta de memoria Micro SD	Compartimento de la tarjeta de memoria Micro SD.
6 Conector PoE	Suministra alimentación a través del cable Ethernet y conecta a la red.

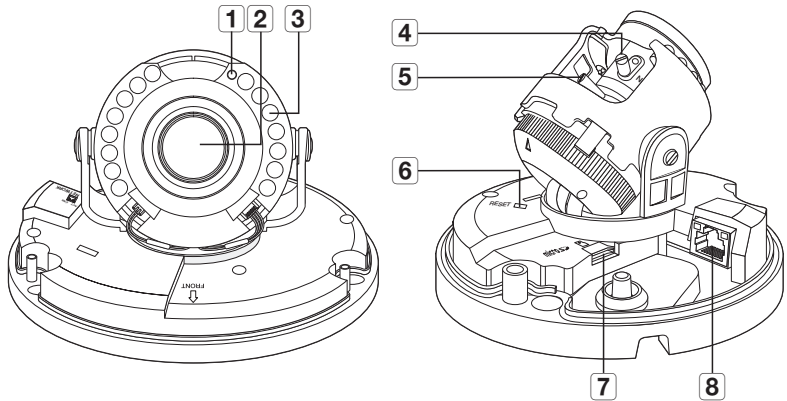
VISTA (LNV-6070R)

Aspecto



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

Componentes



Elemento	Descripción	
1 Sensor de iluminación	Detecta la luz entrante para controlar el LED de infrarrojos.	
2 Objetivo	Objetivo de la cámara.	
3 LED IR	Son LED de infrarrojos que se controlan mediante un sensor de iluminación.	
4 Palanca de control de enfoque	N	Enfoque de un objeto cercano (Near)
	F	Enfoque de un objeto lejano (Far)
	Libere la palanca y muévala hacia la izquierda o hacia la derecha para ajustar el enfoque de la lente. Gire la palanca hacia la derecha para fijar la posición ajustada y evitar que se mueva.	
5 Palanca de control de zoom	T	Acercar (Tele)
	W	Alejar (Wide)
	Libere la palanca y muévala hacia la izquierda o hacia la derecha para acercar o alejar el zoom de la lente. Gire la palanca hacia la derecha para fijar la posición ajustada y evitar que se mueva.	
6 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 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.	
7 Compartimento de la tarjeta de memoria Micro SD	Compartimento de la tarjeta de memoria Micro SD.	
8 Conector PoE	Suministra alimentación a través del cable Ethernet y conecta a la red.	

INSTALACIÓN (LND-6010R/6020R/6030R/6070R)

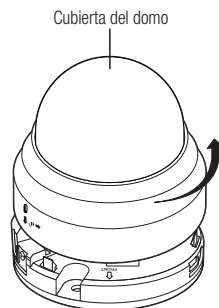
Precauciones antes de la instalación

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

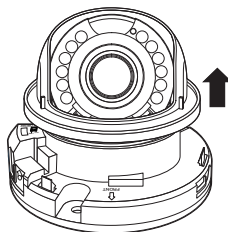
- Debe estar instalada en una zona (techo o pared) que pueda soportar 5 veces el peso de la cámara, incluido el soporte de la instalación.
- Cables doblados o pelados pueden causar daños en el producto o producir un incendio.
- Por razones de seguridad, mantenga alejado a todo el mundo del lugar de la instalación. Y guarde aparte las pertenencias personales, como precaución.
- Para la cámara manual de lente focal variable, las funciones como el enfoque y el zoom deben ajustarse antes de la instalación. Al ajustar estos, asegúrese de evitar que se adhieran sustancias extrañas.

Desmontaje

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

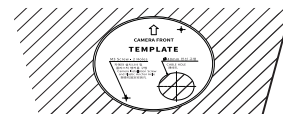


2. Levante la tapa interior y sepárela.



Instalación

1. Adjunte la plantilla de instalación a la ubicación deseada y haga los agujeros siguiendo la plantilla.

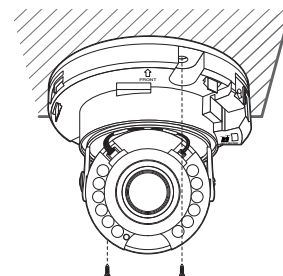


2. Utilice los tornillos de rosca incluidos para asegurar la cámara a los agujeros perforados a través de la plantilla.

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

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

4. Ajuste el objetivo en la dirección que desee consultando la sección "Ajuste de la dirección de la cámara". (página 19)



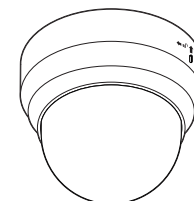
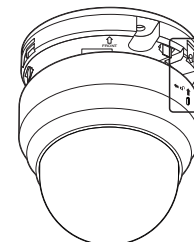
- Se recomienda no tocar la lente por separado, ya que se envía de fábrica con el enfoque ajustado correctamente cuando se completa la inspección. Tocar la lente puede causar que el enfoque se distorsione o que la lente se ensucie. (LND-6010R/6020R/6030R)
- Para la cámara manual de lente focal variable, las funciones como el enfoque y el zoom deben ajustarse antes de la instalación. Al ajustar estos, asegúrese de evitar que se adhieran sustancias extrañas. (LND-6070R)

5. Conecte la cubierta interior al cuerpo principal.

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



- Para montar la cubierta del domo, ponga las flechas de modo que coincidan una con otra y presione firmemente. Si la cubierta del domo se gira durante el montaje o se monta de forma incorrecta, puede ocurrir una reflexión difusa o la sección de la lente pueden rotar; esto causará que cambie el rango de disparo.
- Asegúrese de que la cubierta del domo está correctamente conectada a la parte inferior como se muestra en la figura. Si el ajuste a presión no se conecta correctamente, la cubierta del domo puede caer y causar lesiones.



INSTALACIÓN (LNO-6010R/6020R/6030R/6070R)

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

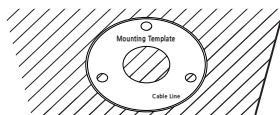
Precauciones antes de la instalación

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

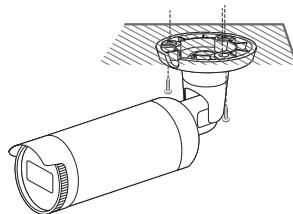
- Debe estar instalada en una zona (techo o pared) que pueda soportar 5 veces el peso de la cámara, incluido el soporte de la instalación.
- Cables doblados o pelados pueden causar daños en el producto o producir un incendio.
- Por razones de seguridad, mantenga alejado a todo el mundo del lugar de la instalación. Y guarde aparte las pertenencias personales, como precaución.
- Para la cámara manual de lente focal variable, las funciones como el enfoque y el zoom deben ajustarse antes de la instalación. Al ajustar estos, asegúrese de evitar que se adhieran sustancias extrañas.

Instalación

1. Adjunte la plantilla de instalación a la ubicación deseada y haga los agujeros siguiendo la plantilla.

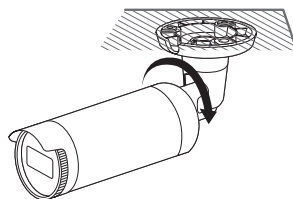


2. Utilice los tornillos de rosca incluidos para asegurar la cámara a los agujeros perforados a través de la plantilla.
3. Conecte los cables adecuados con los terminales de la cámara.



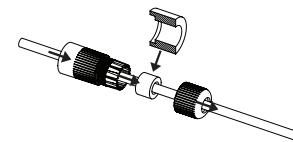
4. Ajuste la orientación de la cámara con un destornillador Phillips.

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

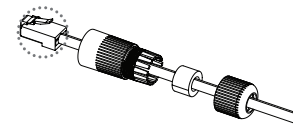


Cómo conectar el cable impermeable RJ45 a un cable LAN

1. Inserte el cable en la dirección de la flecha.

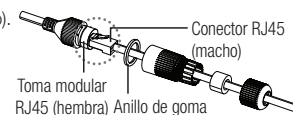


2. Conecte el conector LAN (macho) al cable.

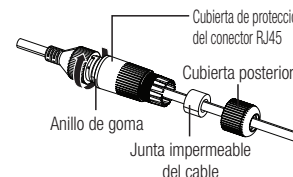


3. Conecte la toma modular RJ45 (hembra) al conector RJ45 (macho).

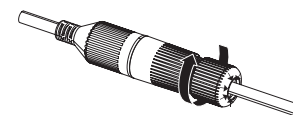
- ! Mantenga cada una de las partes separadas.



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



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



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

Instalación en el exterior

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

1. Conecte el cable PoE.

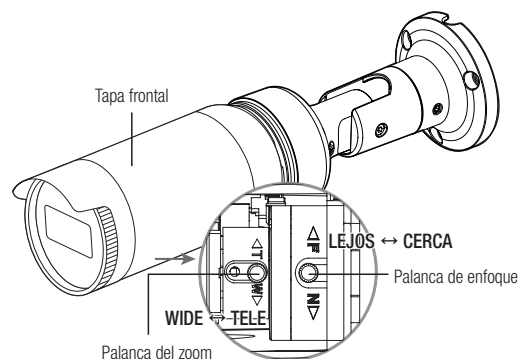
2. Envuelva el aislante negro del cable (Área A) y la parte de conexión del cable con cinta (de goma de butilo) impermeable, de modo que más de la mitad de esta cinta quede superpuesta.



- 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.

Para ajustar el factor de zoom o el enfoque (LNO-6070R)

1. Afloje la tapa frontal como se muestra.
2. Afloje ligeramente la palanca de zoom/enfoque.
3. Coloque la palanca de zoom/enfoque en WIDE (CERCA) o TELE (LEJOS) según sea apropiado.
4. A continuación, apriete la palanca de zoom/enfoque para fijar la posición ajustada.
5. Gire la tapa frontal para apretarla.

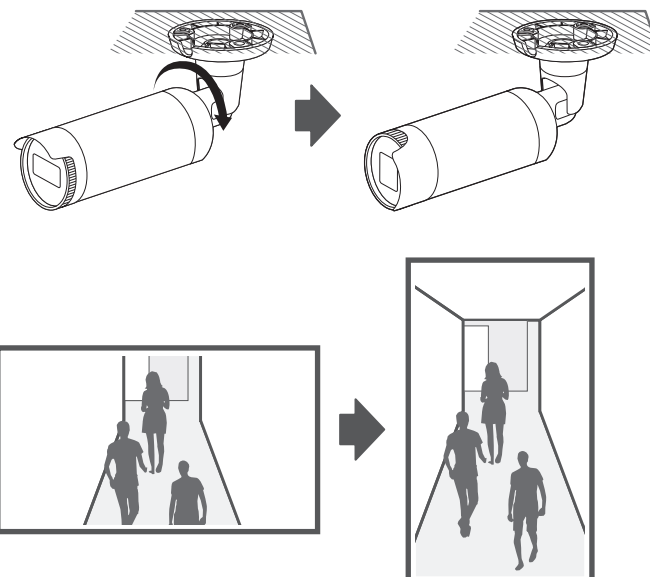


- Para garantizar una impermeabilidad absoluta, apriete la tapa frontal girándola hasta el final. Al unir la cubierta delantera, combine el cuerpo principal y la cubierta delantera para que se fije el indicador de BLOQUEO.
- Utilice la palanca para ajustar el factor de zoom o el enfoque y gire la palanca a la derecha para fijarla.
- Antes de poder ajustar el factor de zoom/enfoque del objetivo, afloje y retire la tapa frontal.

Vista de pasillo

La cámara se puede girar para ampliar el área de vigilancia vertical a una relación de aspecto de 9:16, adecuada para corredores y pasillos angostos.

- Gire el cuerpo de la cámara y la cubierta frontal.



INSTALACIÓN (LNV-6010R/6020R/6030R/6070R)



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

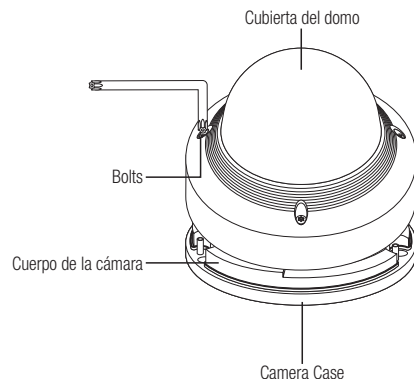
Precauciones antes de la instalación

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

- Debe estar instalada en una zona (techo o pared) que pueda soportar 5 veces el peso de la cámara, incluido el soporte de la instalación.
- Cables doblados o pelados pueden causar daños en el producto o producir un incendio.
- Por razones de seguridad, mantenga alejado a todo el mundo del lugar de la instalación. Y guarde aparte las pertenencias personales, como precaución.
- Para la cámara manual de lente focal variable, las funciones como el enfoque y el zoom deben ajustarse antes de la instalación. Al ajustar estos, asegúrese de evitar que se adhieran sustancias extrañas.

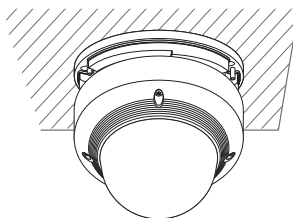
Desmontaje

- Retire la cubierta del domo aflojando los pernos de sujeción, girándolos a la izquierda con la llave en forma de estrella incluida.



Instalación

- Adjunte la plantilla de instalación a la ubicación deseada y haga los agujeros siguiendo la plantilla.
- Utilice los tornillos de rosca incluidos para asegurar la cámara a los agujeros perforados a través de la plantilla.
- Conecte y coloque los cables necesarios de forma que no puedan dañarse ni doblarse al instalar la cámara.
- Ajuste el objetivo en la dirección que desee consultando la sección "**Ajuste de la dirección de la cámara**". (página 19)
- Cierre la cubierta del domo.
 - Para filtraciones de agua, apriete los pernos de sujeción con fuerza usando la llave en forma de estrella.

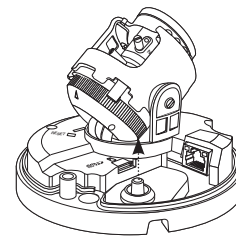


Conectar el cable LAN

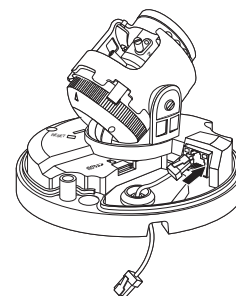
- Retire la cubierta del domo de la carcasa.
- Tire de la parte alargada del enchufe hacia la parte inferior y retírelo tal y como se indica en la figura.



- 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.



- Inserte el cable LAN a través del orificio que se formó al extraer la parte sobresaliente en el paso 2.
- Retire la cubierta con un cortador de cable y alinee los cables.
- Conecte el cable LAN con un conector LAN, e introdúzcalo en el aparato LAN.
- Conecte el cable al puerto Ethernet.



Colocación en el adaptador no suministrado

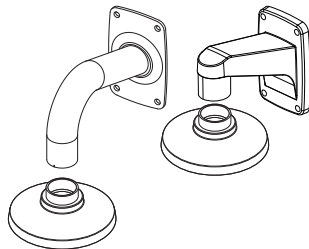
Elija y compre una de las opciones siguientes (no suministradas) apropiada para el lugar de instalación o que se adapte a sus preferencias.

- Retire la cubierta del domo de la carcasa según se indica en el apartado "**Desmontado**". (página 17)
- Utilice el tornillo ensamblado para fijar la caja de la cámara al adaptador no suministrado.
- Conecte y coloque los cables necesarios de forma que no puedan dañarse ni doblarse al instalar la cámara.
- Instale la carcasa de la cámara en el orden inverso a las instrucciones de "**Desmontaje**".
- Ajuste el objetivo en la dirección que desee consultando la sección "**Ajuste de la dirección de la cámara**". (página 19)
- Cierre la cubierta del domo.
 - Asegure firmemente el tornillo de fijación con una llave L para evitar que el agua se filtre.

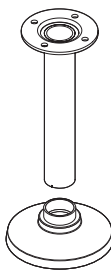
Accesorios opcionales para la instalación

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

1. ADAPTADOR DE MONTAJE EN PARED (SBP-300WMW1) / MONTAJE COLGANTE (SBP-122HMMW : LND-6070R, LNV-6010R/6020R/6030R, SBP-301HMMW2 : LNV-6070R, SBP-300HMMW7 : LND-6010R/6020R/6030R)
Este adaptador se utiliza para instalar la cámara domo en la pared.

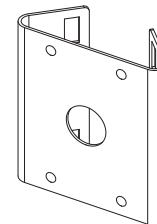


2. ADAPTADOR DE MONTAJE EN TECHO (SBP-300CM) / MONTAJE COLGANTE (SBP-122HMMW : LND-6070R, LNV-6010R/6020R/6030R, SBP-301HMMW2 : LNV-6070R, SBP-300HMMW7 : LND-6010R/6020R/6030R)
Este adaptador se utiliza para instalar la cámara domo en un techo de hormigón.



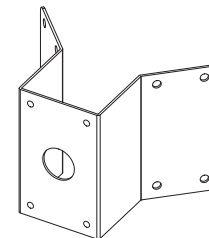
3. ADAPTADOR DE MONTAJE EN POSTE (SBP-300PM)

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

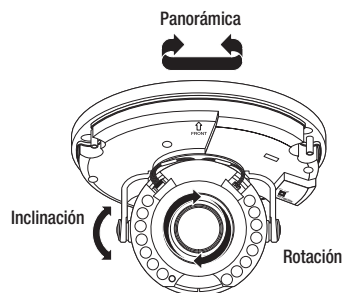


4. ADAPTADOR DE MONTAJE EN ESQUINA (SBP-300KM)

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



Ajuste de la dirección de la cámara (LND-6010R/6020R/6030R/6070R, LNV-6010R/6020R/6030R/6070R)



■ Ajuste de la dirección de vigilancia

Puede ajustar la dirección de la cámara sólo cuando la cámara esté fija al techo. Girar la unidad de la cámara a la izquierda o a la derecha se denomina Panóramica, ajustar la inclinación se denomina Inclinación y girar el objetivo sobre su eje se denomina Rotación.

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



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

■ Métodos de ajuste

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

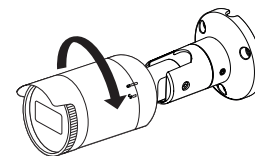
INSERCIÓN/EXTRACCIÓN DE UNA TARJETA DE MEMORIA MICRO SD



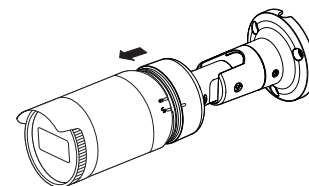
- Desconecte el cable de alimentación de la cámara antes de insertar la tarjeta de memoria Micro SD.
- No inserte al revés la tarjeta de memoria Micro SD forzándola. Si lo hace, podría dañar la tarjeta de memoria Micro SD.
- Cuando llueve o la humedad es alta, no se recomienda que inserte o expulse una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

Inserción de una tarjeta de memoria Micro SD (LNO-6010R/6020R/6030R/6070R)

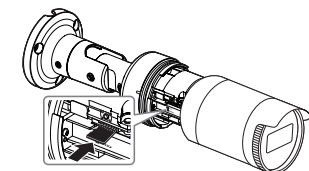
1. Gire la cubierta frontal en la dirección de DESBLOQUEO [↺].



2. Tire y separe la cubierta frontal.

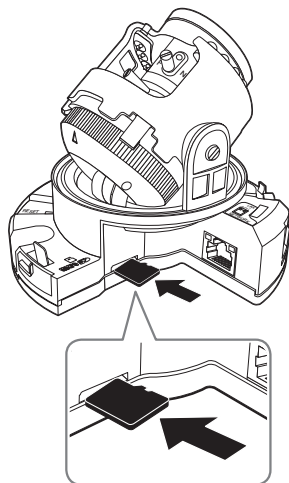


3. Inserte una tarjeta micro SD en la dirección de la flecha que aparece en la figura.

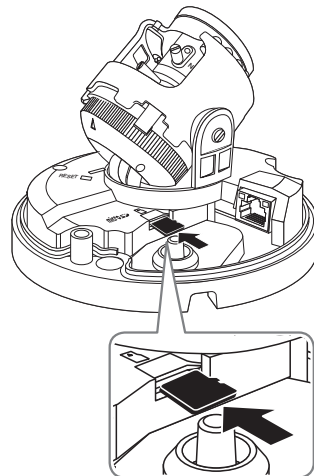


Inserción de una tarjeta de memoria Micro SD (LND-6010R/6020R/6030R/6070R, LNV-6010R/6020R/6030R/6070R)

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



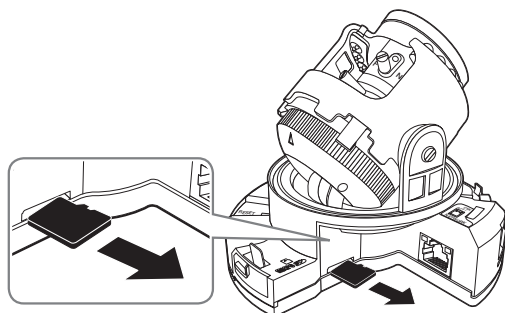
<LND-6010R/6020R/6030R/6070R>



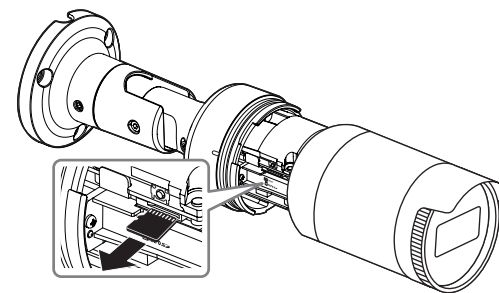
<LNV-6010R/6020R/6030R/6070R>

Extracción de una tarjeta de memoria Micro SD

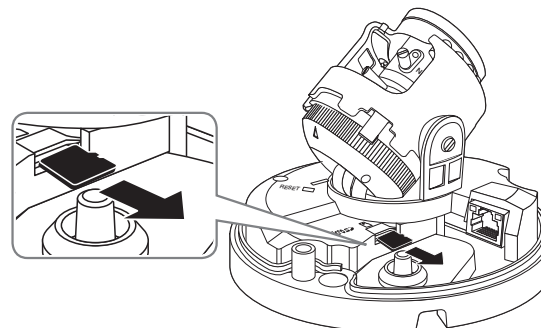
Presione suavemente hacia abajo en el extremo expuesto de la tarjeta de memoria como se muestra en el esquema para sacarla de la ranura.



<LND-6010R/6020R/6030R/6070R>



<LNO-6010R/6020R/6030R/6070R>



<LNV-6010R/6020R/6030R/6070R>

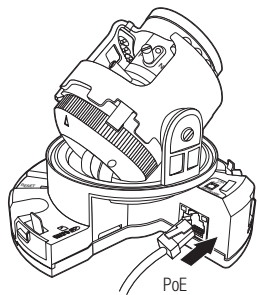


- Tenga en cuenta que si empuja firmemente y suelta la tarjeta de memoria Micro SD al expulsarla, puede salirse.
- Antes de retirar la tarjeta de memoria Micro SD, en <Almacenamiento>, ajuste el dispositivo en <Des> y pulse el botón [Apicar] y apague la cámara.
- Si apaga la cámara o retira la tarjeta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

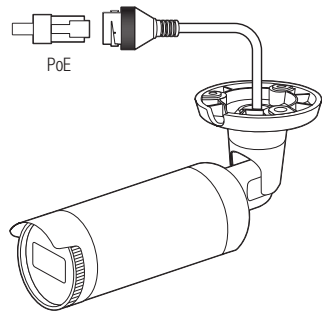
ALIMENTACIÓN Y REDES

Conecte su dispositivo PoE a la cámara.

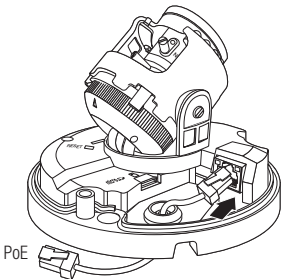
- Conecte a un conector de PoE del router compatible con PoE (almacenamiento a través de Ethernet).
- Utilice equipos PoE (Power over Ethernet) que sean compatibles con el estándar IEEE802.3af.



<LND-6010R/6020R/6030R/6070R>



<LNO-6010R/6020R/6030R/6070R>



<LNV-6010R/6020R/6030R/6070R>

Características del cable de red

Elemento	Contenido	Observaciones
Conector	RJ45	
Ethernet	10/100BASE-T	10/100 Mbps
Cable	UTP de categoría 5e	
Distancia máx.	100M	Resistencia de CC ≤ 0,188 Ω / m
Soporte PoE	IEEE 802.3af	

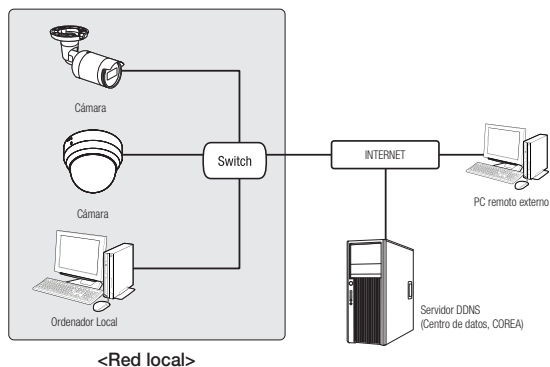
conexión y configuración de la red

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

CONECTAR LA CÁMARA DIRECTAMENTE A LA RED DE ÁREA LOCAL

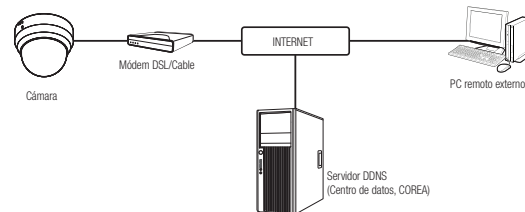
Conectar con la cámara desde un ordenador local en la LAN

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



- Un ordenador remoto con una Internet externa fuera de la red LAN podría no poder conectarse a la cámara instalada en la intranet, en caso de que el reenvío de puertos no esté correctamente configurado o se haya instalado un cortafuegos. En este caso, para solucionar el problema, póngase en contacto con su administrador de red.
- En el 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 24)

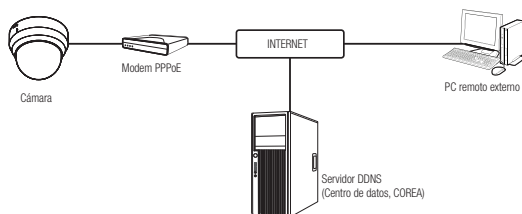
CONEXIÓN DIRECTA DE LA CÁMARA A UN MÓDEM DSL/CABLE BASADO EN DHCP



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.

CONEXIÓN DE LA CÁMARA DIRECTAMENTE AL MÓDEM PPPoE



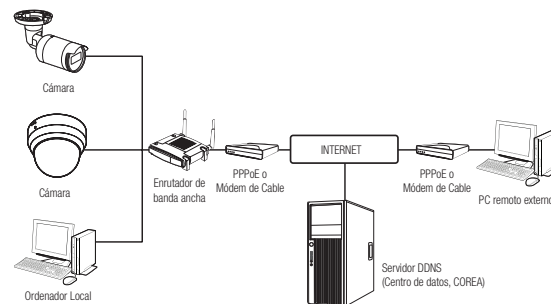
1. Conectar el PC del usuario directamente a la cámara de red.
2. Ejecute IP Installer y cambie la dirección IP de la cámara de forma que pueda utilizar el navegador Web de su escritorio para conectar a Internet.
3. Utilice el navegador de Internet para conectar a Web Viewer.
4. Vaya a la página **[Config.]**.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



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

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

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



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

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

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

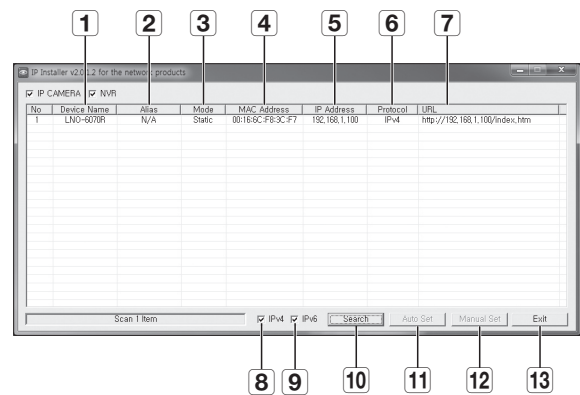
- Siga las siguientes instrucciones si selecciona **<Use the following IP address>**:

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



- Para obtener la dirección del enrutador de banda ancha, véase la documentación del producto.
- Para obtener información adicional sobre el reenvío de puertos del enrutador de banda ancha, consulte "Configuración de Reenvío del Rango de Puertos (Asignación de Puertos)". (página 26)

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>, <Dynamic> o <PPPoE> 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	Sale 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 Techwin.

CONFIGURACIÓN DE IP ESTÁTICA

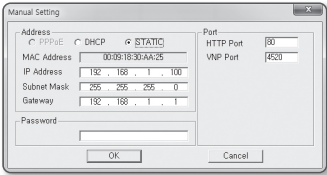
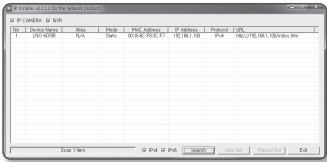
Configuración de red manual

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

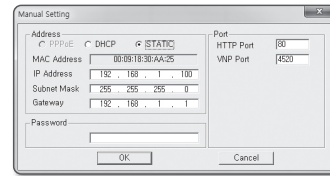
Para el ajuste de <IP Address>, <Subnet Mask> y <Gateway>, póngase en contacto con el administrador de red.

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.



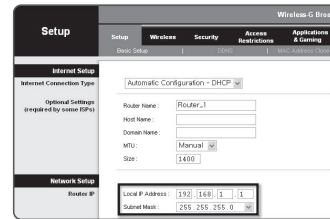
- A efectos de seguridad, se recomienda utilizar una combinación de números, letras del alfabeto en mayúsculas y minúsculas, y caracteres especiales para su contraseña.
- Para obtener información sobre cómo cambiar la contraseña, consulte la ayuda en línea de Web Viewer.

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 26)

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

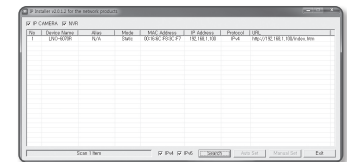
Configuración automática de red

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.

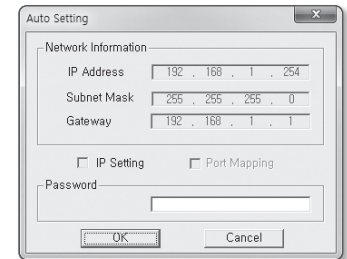
1. Seleccione una cámara en la lista de búsqueda. Compruebe la dirección MAC de la cámara en la etiqueta de la cámara. Se activarán los botones [Auto Set] y [Manual Set].
2. Haga clic en [Auto Set]. Aparece el diálogo Auto Setting. Se definirán automáticamente <IP Address>, <Subnet Mask> y <Gateway>.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

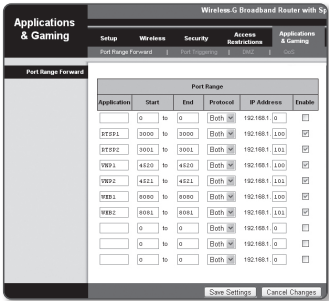


CONFIGURACIÓN DE REENVÍO DEL RANGO DE PUERTOS (ASIGNACIÓN DE PUERTOS)

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.



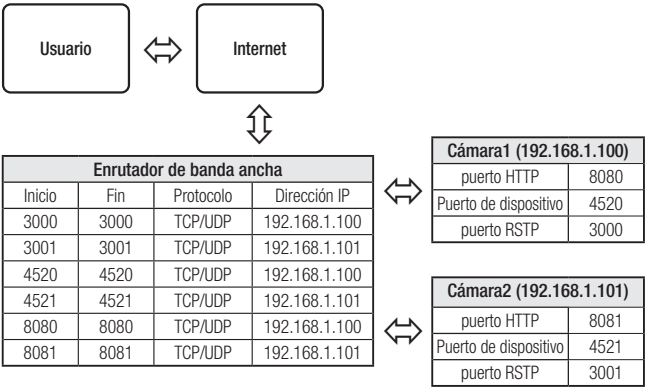
- Una vez hecho, haga clic en [Save Settings]. Se guardarán los ajustes.

- 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 :

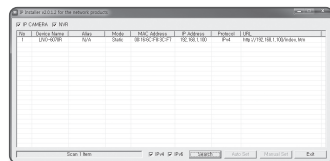


- El enrutamiento de puerto se puede hacer sin una configuración adicional del router si este está adaptado para la función UPnP (Universal Plug and Play). Después de conectar la cámara de red, seleccione la casilla de verificación del menú <Conexión rápida> en <Wisenet DDNS> en "Configuración -> Red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

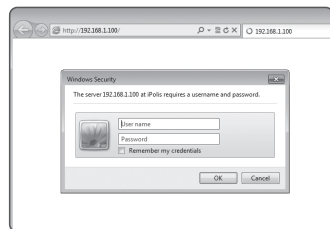
1. Antes de poder acceder a una cámara de una red de enrutador de banda ancha, debe haber definido el reenvío del rango de puertos para el enrutador de banda ancha.
2. Desde el PC remoto, inicie el explorador de Internet e introduzca la dirección URL de DDNS de la cámara, o la dirección IP del enrutador de banda ancha en la barra de direcciones.
ej.) <http://ddns.hanwha-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:0000:0000:ffff:1111] - Debe aparecer el diálogo de inicio de sesión.



Si el número de puerto HTTP no es 80

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

Utilización del URL

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



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

Conexión a través de UPnP

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

Conexión a través de Bonjour

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

Para comprobar la dirección de DDNS

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

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

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

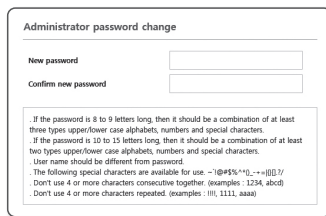
Para registrar el dispositivo en el servidor de <DDNS>, entre en <http://ddns.hanwha-security.com> y registre primero el dispositivo y, a continuación, establezca <Red> - <DDNS> de Web Viewer en <DDNS de Wisenet>, y facilite el <ID de producto> utilizado durante el registro de DDNS.

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.

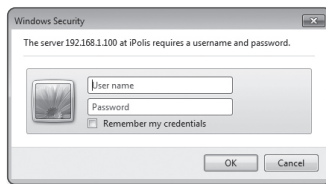


INICIO DE SESIÓN

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.



ESPECIFICACIONES DE COMPATIBILIDAD DEL PLUG-IN PARA CADA NAVEGADOR

El visor web tiene un visor web de complemento integrado y un nuevo visor web sin complemento. Esto significa que el visor web se puede usar incluso en los entornos de navegador modernos que no son compatibles con complementos, como Chrome, EDGE y Firefox (solo Windows 64 bits). Se recomienda instalar el complemento en el navegador IE, que permite la instalación de complementos.

Dependiendo del entorno de su navegador se producirán las siguientes diferencias:

- **Navegadores Chrome, FireFox (solo Windows 64 bits), EDGE, Safari** : A pesar de que no son compatibles con los plug-ins, pueden utilizar un visor web ya que está integrado un visor web sin plug-in.
- Como el visor web sin plug-in tiene un rendimiento más bajo que el visor web de plug-in, tiene un límite en el monitoreo de los perfiles de alta calidad y la reproducción de videos guardados. Para monitorear los perfiles de alta calidad y reproducir videos guardados, utilice un visor web de plug-in o SmartViewer.
 - Un perfil sin complementos se crea automáticamente cuando hay un retraso en el video en vivo.
 - La reproducción puede causar retrasos, dependiendo del códec y la resolución.
- La función de complemento ha sido optimizada para el navegador Chrome.
- **Navegador IE** : Puede utilizar un visor web, incluso si no instala el visor web de plug-in existente.
- Para supervisar/reproducir videos guardados sin problemas, es necesario instalar un plug-in.

INSTALACIÓN DEL PLUGIN WebViewer

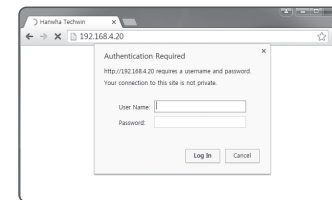
Si intenta acceder al visor web sin complementos desde el navegador IE y solicita una vista en vivo con un códec que no es el que está actualmente en uso, o solicita usar la función de reproducción de vídeo grabado, aparecerá un mensaje de instalación. En este momento, se debe instalar el complemento de visor web para usar las funciones normalmente.

1. Cuando se accede por primera vez a la página de monitorización, se muestra la página de instalación. Haga clic [**Click Here**] en iniciar instalación.
-  Si el estado de la descarga del archivo plug-in de instalación se suspende en el 99% en el navegador Internet Explorer, vuelva a intentarlo tras seleccionar "Release SmartScreen filter" en "Tool → SmartScreen filter".
2. Haga clic [**Run**] en la ventana de mensaje.
3. Haga clic [**Yes**] cuando aparezca una ventana que notifica que se cerrarán todas las ventanas del navegador.
-  Los pasos 4 y 5 se omitirán si el Plug-in Web Viewer está instalado.
4. Cuando está instalada la antigua versión del Web Viewer Plug-in, se muestra una ventana de aviso que la versión antigua se borrará la pantalla. Haga clic [**Yes**] cuando la ventana de aviso aparece en la pantalla.
5. Haga clic en [**OK**]. La versión anterior del Plug-in Web Viewer se elimina.
6. Haga clic en [**Install**] para iniciar la instalación del Plug-in Web Viewer.
7. Haga clic en [**Finish**]. La instalación del Plug-in Web Viewer se ha completado.
-  En el explorador de Internet, si necesita pasar a la pantalla de instalación después de instalar el plugin de visor web, compruebe si webviewer_activexplugin_lib.control en el menú "Herramientas → Gestión de función adicional" está "Activado". Si no, y si hay un problema que persiste, a continuación, seleccione "Herramientas → Opciones de Internet → General" y borre todos los registros de búsqueda. Si el problema persiste, registre la IP o el dominio de su cámara en "Herramientas → Opciones de Internet → Seguridad → Sitios de confianza".

USO DEL VISOR WEB SIN PLUG-IN

Si se conecta a una cámara de los navegadores Google Chrome, Mozilla Firefox, MS Edge o Safari, no puede instalar un complemento independiente, pero puede ver y controlar los vídeos de la cámara en tiempo real, sin ningún complemento.

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



Para configurar la cámara

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

SOLUCIÓN DE PROBLEMAS

PROBLEMA	SOLUCIÓN
No se visualiza ningún vídeo al acceder al visor web sin plug-in en Safari a través de HTTPS.	- 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.
No se visualiza ningún vídeo cuando se accede de nuevo al visor web o se conecta con el streaming al cliente.	El número máximo de perfiles disponible es 3. La conexión puede perderse si se utiliza 4 o más perfiles. Por ejemplo, si accede a MJPEG, H.264 y H.264 (perfiles con diferentes configuraciones) y luego accede con un perfil diferente, la conexión se perderá.
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
El archivo no se transfiere al correo electrónico incluso si un evento de detección de movimiento se genera con <Detección de movimiento> definido en <Activado> en la página <Evento>.	- 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.
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>.

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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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- Version 1.1

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

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

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

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 3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.
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5. The provision set forth in Article 3 shall apply to the Ported Source Code registered in accordance with this Article.

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bzip2- 1.0.6	Bzip2	http://www.bzip.org/

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iperf performance test

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