SAMSUNG TECHWIN

CÁMARA DE RED

Manual del usuario

SNV-1080R

CE

SAMSUNG

Cámara de Red

Manual del usuario

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INSTRUCIONES DE SEGURIDAD IMPORTANTES

1. Lea estas instrucciones.
2. Consérvelas.
3. Atente para todas las advertencias.
4. Siga todas las instrucciones.
5. No utilice este aparato cerca del agua.
6. Límpielo únicamente con un paño seco.
7. No obstruya ninguna apertura de ventilación. Instale el aparato siguiendo las instrucciones del fabricante.
8. No lo instale cerca de ninguna fuente de calor como radiadores, focos de calor o cualquier otro aparato (incluidos los amplificadores) que emita calor.
9. No olvide que la finalidad de los enchufes polarizados o de toma a tierra es proporcionarle seguridad. Un enchufe polarizado tiene dos clavijas, una más ancha que la otra. Un enchufe con toma a tierra tiene dos clavijas y una tercera de toma a tierra. Tanto la clavija más ancha, en el caso del enchufe polarizado, como la clavija adicional, en el caso del enchufe con toma a tierra, tienen como objetivo aportarle seguridad. Si el enchufe del aparato no encaja en su toma de corriente, póngase en contacto con un electricista para cambiar la toma de corriente obsoleta.
10. Evite pisar o doblar el cable de alimentación. Ponga especial cuidado para no hacerlo en enchufes, tomas de corriente y en los puntos en los que salen desde el aparato.
11. Utilice únicamente los dispositivos y accesorios especificados por el fabricante.
12. Utilice sólo las mesitas con ruedas, soportes, trípodes o mesas recomendadas por el fabricante o vendidas con el aparato. Cuando se utilice una mesita con ruedas, tenga cuidado al mover la mesita con ruedas junto con el aparato para evitar daños por vuelco.

13. Desenchufe este aparato durante tormentas eléctricas o cuando no se utilice durante largos períodos de tiempo.
14. Remita todas las reparaciones a personal de mantenimiento cualificado. Es necesario enviar el aparato para su reparación cuando ha sufrido cualquier tipo de daño, como, por ejemplo, que el cable o el enchufe de la alimentación está dañado, se han derramado líquidos sobre el aparato o algún objeto ha caído sobre él, el aparato ha sido expuesto a la lluvia o a humedad, no funciona correctamente o se ha caído al suelo.

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.

Una colocación incorrecta de la pila puede representar un riesgo de explosión. Cámbiela sólo por un tipo similar o equivalente.

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

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.

El terminal de salida BNC del producto se proporciona para facilitar la instalación y no se recomienda para fines de vigilancia.
Si mantiene el cable BNC conectado, una tormenta eléctrica puede causar daños o averías en el producto.

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

descripción

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.

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.

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CARACTERÍSTICAS DEL PRODUCTO

- **Flujo de datos múltiple**
  Esta cámara de red puede mostrar simultáneamente vídeos en diferentes resoluciones y calidades utilizando CÓDEC diferentes.
- **Supervisión basada en el Explorador Web**
  Utilización de un explorador web de Internet para mostrar la imagen en un entorno de red local.
- **Alarma**
  Si se produce un evento, el vídeo relacionado con el evento se transferirá al correo electrónico especificado por el usuario, o se guarda en la memoria SD.
- **Detección de movimiento**
  Detecta movimiento en la entrada de vídeo de la cámara.
- **Detección de cara**
  Detecta caras en la entrada de vídeo de la cámara.
- **Detección automática de la red desconectada**
  Detecta la desconexión de red antes de activar una alarma.
- **Compatibilidad con ONVIF**
  Este producto admite ONVIF.
  Para más información, consulte www.onvif.org.

Driving network video through global standardization

CARACTERÍSTICAS RECOMENDADAS DEL ORDENADOR

- CPU : Intel Core 2 Dio 2,4 GHz o superior
- Sistema operativo : Windows XP, VISTA, 7, Mac OS
- Resolución : 1280X1024 pixeles o superior
- RAM : 2GB o superior
- Navegador Web : Internet Explorer 7.0 o posterior, Firefox 3.0 o posterior, Chrome 8.0 o posterior, Safari 4.0 o posterior
  - No se admitirá ni la versión de prueba que no sea la existente en el sitio web de la compañía ni la versión del desarrollador.
  - Se recomienda conectar a IPv6 en Windows 7.
- Memoría de Vídeo : 256MB o superior

- Si no se ha instalado correctamente el adaptador de gráficos de vídeo o no es la versión más reciente, es posible que el vídeo no se reproduzca correctamente.
- Para un sistema de vigilancia múltiple con al menos 2 monitores, el rendimiento de la reproducción se puede deteriorar dependiendo del sistema.

CARACTERÍSTICAS RECOMENDADAS DEL TARJETA DE MEMORIA MICRO SD/SDHC

- 4 GB ~ 32 GB.
- Se recomienda utilizar tarjetas de memoria con una velocidad de al menos clase 6.

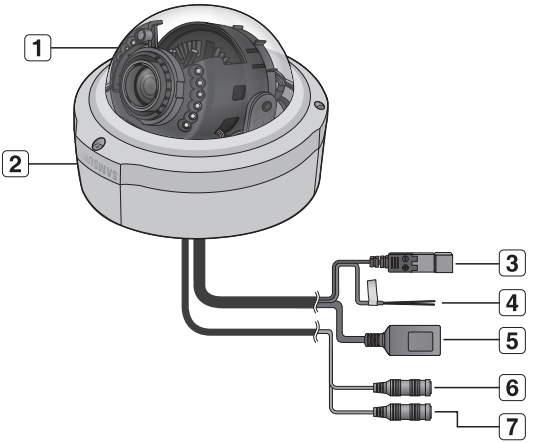
COMPONENTES

Compruebe si la cámara y los accesorios se incluyen en el paquete del producto.

Aspecto	Nombre de elemento	Cantidad	Descripción
	Cámara	1	
	Manual del usuario, CD del software del instalador, DVD del software de CMS	2	
	Manual de consulta rápida	1	
	Cable para probar el monitor	1	Se utiliza para probar la conexión de la cámara en un dispositivo de visualización portátil
	Tornillo de hierro	3	Se utiliza para la fijación a una placa de hierro
	Llave en L	1	Se utiliza para retirar/fijar la cubierta del domo
	Plantilla	1	Guía de instalación del producto

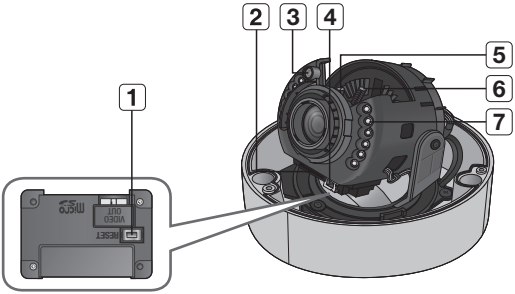
VISTA

Aspecto



Elemento	Descripción	
1 Cubierta de Domo	Cubierta utilizada para proteger la lente y la unidad principal.	
2 Unidad Principal	Se compone de: lente, cuadro de interruptores, circuito impreso y tornillos.	
3 Ouerto de Alimentación	Se utiliza para enchufar el cable de alimentación.	
4 Puerto de entrada de alarma	BROWN = Alarm IN	Se utiliza para conectar el sensor de entrada de alarma.
	BLACK = GND	Se utiliza para la toma de tierra.
5 Puerto Red	Se utiliza para conectar un cable PoE o Ethernet.	
6 Toma de entrada de audio	Se utiliza para conectar un micrófono.	
7 Toma de salida de audio	Se utiliza para conectar altavoces.	

Components



Elemento	Descripción
1 Botón de reinicialización	Reinicia los ajustes de la cámara con los valores predeterminados. 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.
2 Compartimento de la tarjeta de memoria Micro SD	Compartimento de la tarjeta de memoria Micro SD.
3 Sensor de iluminación	Detecta la luz entrante para controlar el LED de infrarrojos.
4 Salida Monitor	El cable de monitor de prueba está conectado a un visor portátil y se utiliza para probar la cámara. (Para instalación.)
5 Palanca de Enfoque	Gírela a la izquierda o a la derecha para ajustar el enfoque; gírelo a la izquierda para fijar el enfoque.
6 Palanca de zoom	Gire el tambor a la izquierda o a la derecha para ajustar el zoom y gire el mando a la derecha para bloquear el zoom.
7 LED IR	Son LED de infrarrojos que se controlan mediante un sensor de iluminación.

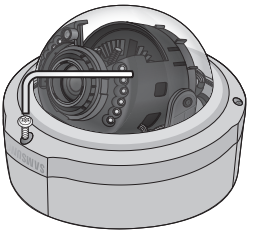
INSTALACIÓN

Precauciones antes de la instalación

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

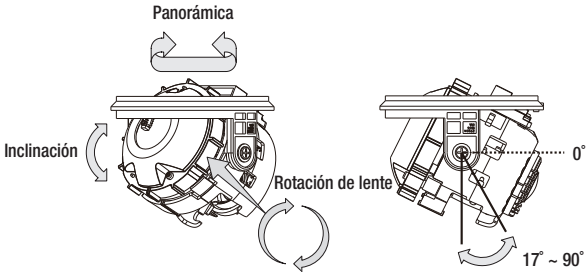
- Seleccione un sitio para la instalación (techo o pared) que pueda resistir 5 veces el peso de la cámara.
- Cables doblados o pelados pueden causar daños en el producto o producir un incendio.
- Por razones de seguridad, mantenga alejado a todo el mundo del lugar de la instalación. Y guarde aparte las pertenencias personales, como precaución.

Instalación directa en el techo



1. Con la llave en L que se facilita, afloje los 3 tornillos girándolos a la izquierda y retire la cubierta de domo.
2. Haga un orificio (5 mm de diámetro, al menos 35 mm de profundidad) en la posición que desee de la parte inferior del alojamiento e inserte totalmente el taco de plástico suministrado (HUD 5). Haga coincidir el orificio de la parte inferior con el orificio del taco, inserte y apriete el tornillo de rosca cortante de montaje (TH M4xL30).
3. Conecte los cables de alimentación y de vídeo y coloque los cables de forma que no se dañen ni se aplasten, y monte la unidad de la cámara de forma inversa.
4. Ajuste la lente apuntando a la dirección que desee.
5. Monte la cubierta de domo.
   Para lograr una impermeabilidad, fije y apriete el perno con la llave en L que se facilita.

Ajuste de la dirección de la cámara



▪ Ajuste de la dirección de vigilancia

Puede ajustar la dirección de la cámara mientras se fija la unidad al techo.
Girar el cuerpo de la cámara a la izquierda y a la derecha se llama Panorámica y ajustar la cámara en su ángulo vertical se denomina Inclinación. La panorámica admite un giro de 352° con 177.5° a la derecha, 177.5° a la izquierda. El tope impide un movimiento más allá de estos puntos.

- Ajuste el ángulo de panorámica de forma que la cámara se fije en la posición horizontal derecha. Puede ajustar la panorámica hasta 177.5° en cada dirección, y 177.5° en la otra dirección, un total de 352°.
- Ajuste el ángulo de inclinación de forma que la cámara se fije en la posición vertical derecha. Puede ajustar la inclinación entre 17° y 90°.
- El índice de rotación total es 351°. Puede realizar un ajuste en una dirección de hasta 124°, y de 227° en la otra dirección.

▪ Métodos de ajuste

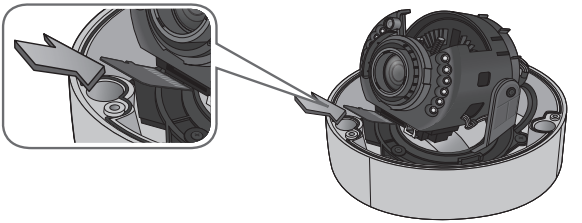
- Instalación en pared
  ① Tras montar la cámara en la pared, ajuste el ángulo de panorámica de forma que la cámara apunte a la dirección que desee al inclinarse.
  ② Adjust the Rotate position to fit the video to the screen borders.
  ③ A continuación, ajuste el ángulo de inclinación de forma que la cámara apunte a la dirección de vigilancia.
- Instalación en techo
  ① Tras montar la cámara en el techo, ajuste el ángulo de panorámica de acuerdo con la dirección de vigilancia. Debe ajustar el ángulo de panorámica lo menos posible para evitar que el vídeo aparezca boca abajo en el monitor.
  ② Ajuste la posición de rotación para que el vídeo se ajuste a los bordes de la pantalla.
  ③ A continuación, ajuste el ángulo de inclinación de forma que la cámara apunte a la dirección de vigilancia.

▪ Para un ajuste de rotación más uniforme, defina la posición de inclinación entre 60° y 80°.

INSERTAR/ELIMINAR UNA TARJETA DE MEMORIA SD

Insertar una Tarjeta de Memoria SD

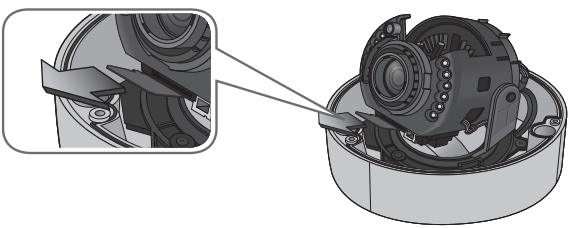
Presionar la tarjeta de memoria SD en la dirección de la flecha mostrada en el esquema.



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

Eliminar una Tarjeta de Memoria 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.



- Si presiona muy fuerte en la tarjeta de memoria SD, podría ser que saliera disparada de forma incontrolada cuando la suelte.
- Para retirar la tarjeta de memoria SD, defina la tarjeta en <**Des**> en el menú <**Almacenamiento**> y pulse el botón [**Aplicar** (Aplicar)]. (Página 67)
- Si retira la tarjeta de memoria SD mientras se guardan datos, podrían dichos datos almacenados en la tarjeta.

INFORMACIÓN DE LA TARJETA DE MEMORIA (NO INCLUIDA)

Qué es una tarjeta de memoria?

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

Seleccionar una tarjeta de memoria adecuada para usted

Su cámara admite tarjetas de memoria Micro SD/SDHC.
Sin embargo, podría experimentar problemas de compatibilidad dependiendo del modelo y marca de la tarjeta de memoria.

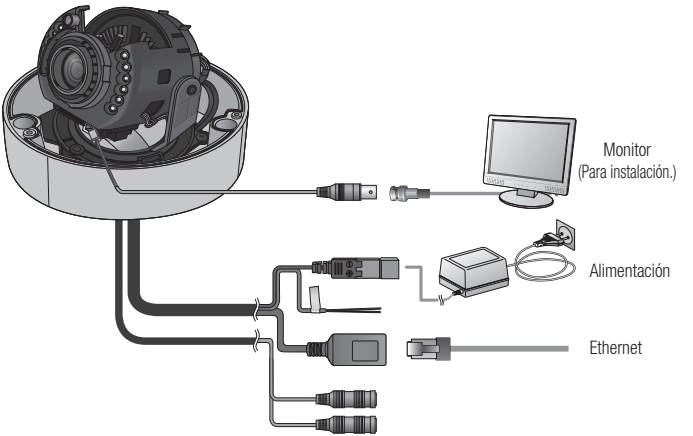
Para su cámara, le recomendamos utilizar una tarjeta de memoria de los siguientes fabricantes:
Tarjeta de Memoria Micro SD/SDHC : Sandisk, Transcend

Con esta cámara se recomienda el uso de tarjetas de memoria de 4 a 32 GB.

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

Se recomienda utilizar tarjetas de memoria con una velocidad de al menos clase 6.

CONEXIÓN CON OTROS DISPOSITIVOS



Conexión Ethernet

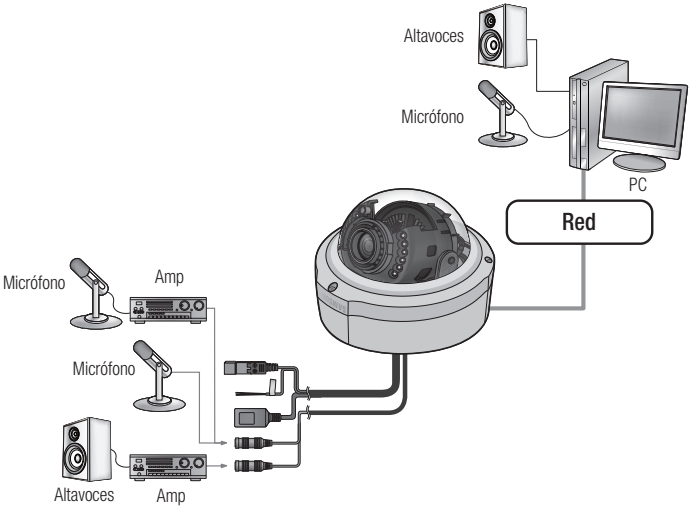
Conecte el cable Ethernet a la red local o a Internet.

Alimentación eléctrica

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

- Tenga cuidado de no invertir la polaridad al conectar el cable de alimentación.
  También puede utilizar un enrutador que incorpore PoE (Alimentación sobre Ethernet) para suministrar energía a la cámara.
- Si se suministra PoE y DC 12V, el producto funcionará con la fuente de alimentación instalada.
- Asegúrese de que el monitor y la cámara estén apagados cuando se conecten.

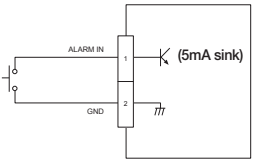
Conectar la Entrada/Salida de Audio



1. Conecte el puerto MIC de la cámara con el micrófono directamente o al puerto SALIDA DE LÍNEA del amplificador al que está conectado el micrófono.
2. Conecte el puerto SPEAKER de la cámara con el puerto ENTRADA DE LÍNEA del altavoz.
3. Compruebe las especificaciones de entrada de audio.

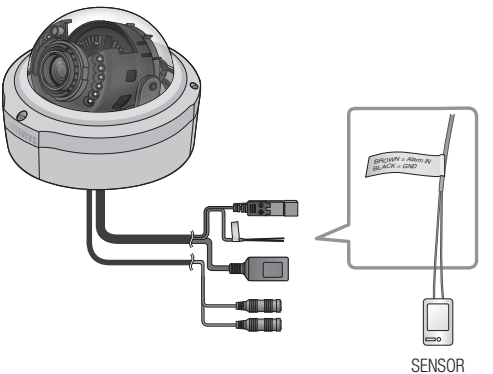
- **Códec de Audio**
  G.711 PCM, muestreo μ-law 64kbps 8kHz
- **Audio Full dúplex**
- **Entrada de Audio**
  Utilizado para entrada de línea de señal única (Máx. 2,4 Vpp)
- **Salida de audio**
  Utilizado para salida de línea de señal única (Máx. 2,4 Vpp)
- **Impedancia de salida de línea**
  600Ω

Diagrama de cableado de entrada de alarma



Para conectar al puerto de entrada de la alarma

Conecte la señal de entrada de alarma al puerto de entrada del cable.



Puerto	Descripción	Puerto	Descripción
ALARM IN	Puerto de sensor de entrada de alarma	**GND**	Puerto de toma de tierra

Para conectar la señal de entrada de alarma

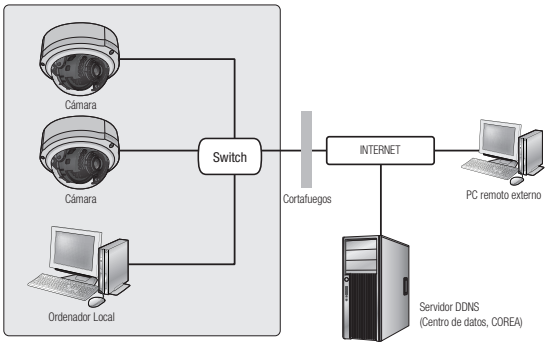
Conecte un filamento de cada línea de señal (2 filamentos) de los sensores al puerto [**ALARM IN**], y conecte el otro filamento en el puerto [**GND**].

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

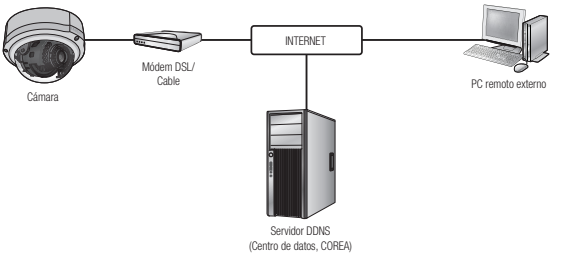
1. Abrir un navegador de Internet en su ordenador local.
2. Introduzca la dirección IP de la cámara en la barra de direcciones del navegador.



<Red local>

- Un ordenador remoto con una Internet externa fuera de la red LAN podría no poder conectarse a la cámara instalada en la intranet, en caso de que el reenvío de puertos no esté correctamente configurado o se haya instalado un cortafuegos.
  En este caso, para solucionar el problema, póngase en contacto con su administrador de red.
- Como valor predeterminado de fábrica, la dirección IP se asignará automáticamente desde el servidor DHCP. Si no hay ningún servidor DHCP disponible, la dirección IP se definirá en 192.168.1.100.
  Para cambiar la dirección IP, utilice Instalador IP.
  Para obtener más detalles sobre el uso de Instalador IP, consulte "**Configuración de IP estática**". (página 26)

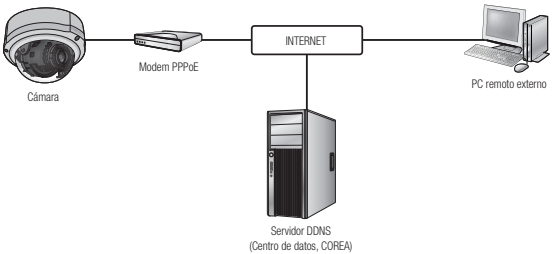
CONEXIÓN DIRECTA DE LA CÁMARA A UN MÓDEM DSL/ CABLE BASADO EN DHCP



1. Utilice el cable LAN cruzado para conectar el cable de red directamente al PC.
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 [**Setup**].
5. Vaya a [**Network**] – [**DDNS**] y configure los ajustes de DDNS.
6. Vaya a [**Network**] – [**Interfaz**] y defina el tipo de red en [**DHCP**].
7. Conecte la cámara, retirada del PC, directamente en el módem.
8. Reinicie la cámara.

- Para registrar los ajustes de DDNS, consulte "**Registro con DDNS**". (página 59)
- Para configurar los ajustes de DDNS, consulte "**DDNS**". (página 58)
- Para definir el tipo de red, consulte "**Interfaz**". (página 56)

CONEXIÓN DE LA CÁMARA DIRECTAMENTE AL MÓDEM PPPoE

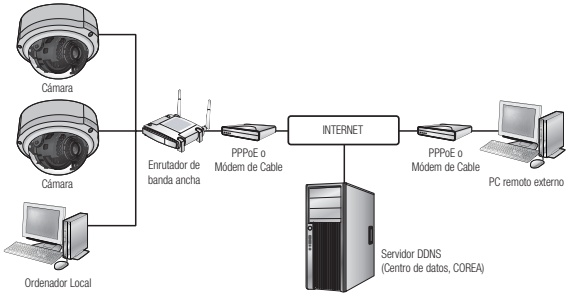


1. Utilice el cable LAN cruzado para conectar el cable de red directamente al PC.
2. Ejecute IP Installer y cambie la dirección IP de la cámara de forma que pueda utilizar el navegador Web de su escritorio para conectar a Internet.
3. Utilice el navegador de Internet para conectar a Web Viewer.
4. Vaya a la página [**Setup**].
5. Vaya a [**Network**] – [**DDNS**] y configure los ajustes de DDNS.
6. Vaya a [**Network**] – [**Interfaz**] y defina el tipo de red en [**PPPoE**].
7. Conecte la cámara, retirada del PC, directamente en el módem.
8. Reinicie la cámara.

- Para registrar los ajustes de DDNS, consulte "**Registro con DDNS**". (página 59)
- Para configurar los ajustes de DDNS, consulte "**DDNS**". (página 58)
- Para definir el tipo de red, consulte "**Interfaz**". (página 56)

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 Neighborhood**> → <**Properties**> → <**Local Area Connection**> → <**Properties**> → <**General**> → <**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**>:

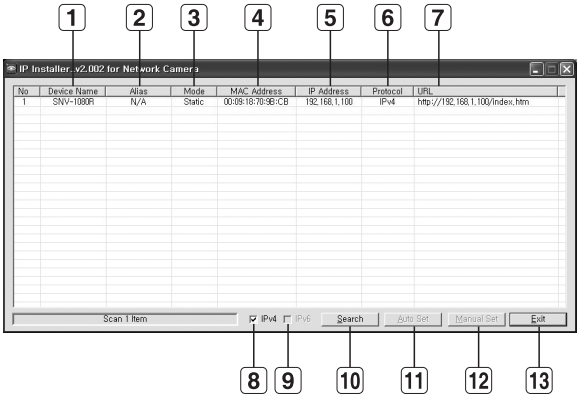
ej.1) Si la dirección (LAN IP) del enrutador de banda ancha es 192.168.1.1
Dirección IP : 192.168.1.100
Máscara de subred : 255.255.255.0
Puerta de enlace por defecto : 192.168.1.1

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 31)

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”.

Elemento	Descripción
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.
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.

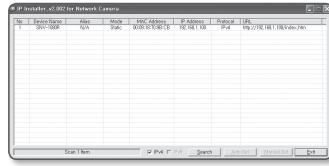
- Para IP installer, utilice sólo la versión que se facilita en el CD de instalación o utilice la última versión si está disponible. Puede descargar la versión más reciente desde el sitio Web de Samsung (www.samsungcctv.com).

CONFIGURACIÓN DE IP ESTÁTICA

Configuración de red manual

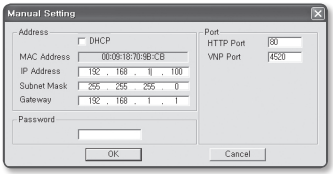
Ejecute <**IP Installer_v2.XX.exe**> para ver la lista de búsqueda de cámaras.
En el arranque inicial, tanto [**Auto Set**] como [**Manual Set**] aparecerán atenuados.

- 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.
   Aparecerán los valores predeterminados de <**IP Address**>, <**Subnet Mask**>, <**Gateway**>, <**HTTP Port**> y <**VNP Port**> de la cámara.

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.

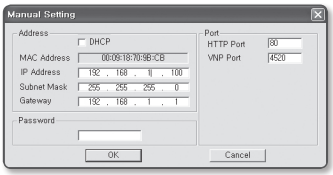


- Puede configurar sólo los ajustes de IP estática sólo si se deja sin marcar la casilla de selección de DHCP.

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 vídeo, por defecto en 4520.

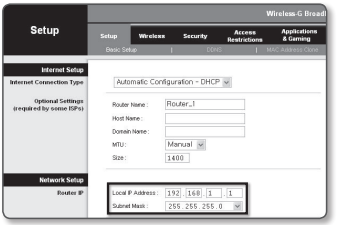


5. Introduzca la contraseña.
   Introduzca la contraseña de la cuenta "**admin**", utilizada para acceder a la cámara.
   La contraseña predeterminada es "**4321**".

- La contraseña predeterminada puede estar expuesta a riesgos de piratería, por lo que recomendamos que cambie la contraseña después de instalar el producto.
  Tenga en cuenta que otros problemas que sucedan por no cambiar la contraseña será responsabilidad del usuario.
- Si desea cambiar la contraseña, consulte "**Cambiar contraseña de administrador**" de la configuración de usuario. (página 77)

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 31)

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.)

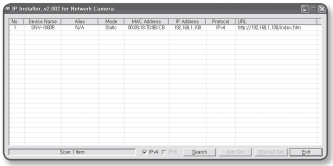
Categoría		Cámara 1	Cámara 2
Ajustes relacionados con IP	IP Address Subnet Mask Gateway	192.168.1.100 255.255.255.0 192.168.1.1	192.168.1.101 255.255.255.0 192.168.1.1
Ajustes relacionados con el puerto	HTTP Port VNP Port	8080 4520	8081 4521

- 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

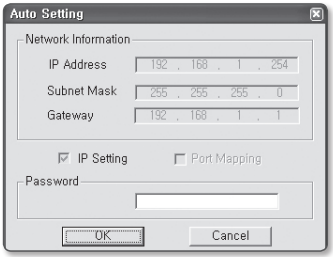
Configuración automática de red

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.
   La contraseña predeterminada es "**4321**".



- La contraseña predeterminada puede estar expuesta a riesgos de piratería, por lo que recomendamos que cambie la contraseña después de instalar el producto.
  Tenga en cuenta que otros problemas que sucedan por no cambiar la contraseña será responsabilidad del usuario.
- Si desea cambiar la contraseña, consulte "**Cambiar contraseña de administrador**" de la configuración de usuario. (página 77)

4. Haga clic en [**OK**].
   La configuración automática de la red queda completada.

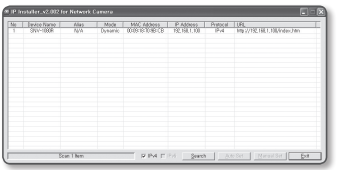
CONFIGURACIÓN DE IP DINÁMICA

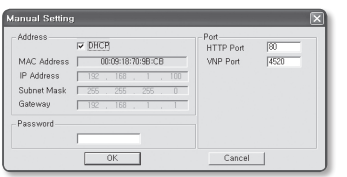
Configuración del entorno de IP dinámica

- 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

1. Ejecute IP Installer en el ordenador local del usuario.
   Las cámaras que tienen asignadas una dirección <**Dynamic IP**> aparecen en la lista.
2. Seleccione una cámara en los resultados de la búsqueda.
3. 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**>.

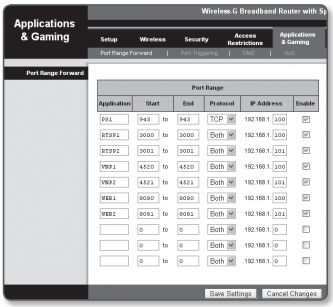




CONFIGURACIÓN DE REENVÍO DEL RANGO DE PUERTOS (ASIGNACIÓN DE PUERTOS)

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



1. En el menú de configuración del enrutador de banda ancha, seleccione <**Applications & Gaming**> - <**Port Range Forward**>.
   Para definir el reenvío del rango de puertos para un enrutador de banda ancha de terceros, consulte el manual del usuario de dicho enrutador de banda ancha.
2. Seleccione <**TCP**> y <**UDP Port**> por cada cámara conectada al enrutador de banda ancha.
   Cada número de puerto del enrutador de banda ancha debe coincidir con el especificado en <**Setup**> - <**Network**> - <**Puerto**> en el menú de Web Viewer de la cámara.
3. 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.

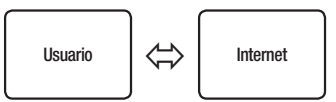
Configuración del reenvío del rango de puertos de varias cámaras de red

Cuando varias cámaras de red están conectadas a un dispositivo enrutador de banda ancha, debe reenviar el puerto TCP 943 del enrutador al puerto TCP 943 de una cámara conectada.

- Si no define correctamente el puerto TCP 943 del enrutador, no podrá obtener ninguna secuencia de vídeo en la página Web de la cámara.

- El puerto TCP 943 es un puerto para el servidor de política Silverlight de una cámara.
- Puede definir una regla de reenvío de puertos en el dispositivo enrutador de banda ancha a través de su página Web de configuración.
- No puede cambiar el puerto del servidor de política Silverlight de una cámara.
- Puede cambiar los puertos de la cámara a excepción del puerto del servidor de política a través de sus páginas Web de configuración.

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



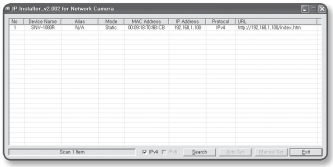
Enrutador de banda ancha			
Inicio	Fin	Protocolo	Dirección IP
943	943	TCP	192.168.1.100
3000	3000	TCP/UDP	192.168.1.100
3001	3001	TCP/UDP	192.168.1.101
4520	4520	TCP/UDP	192.168.1.100
4521	4521	TCP/UDP	192.168.1.101
8080	8080	TCP/UDP	192.168.1.100
8081	8081	TCP/UDP	192.168.1.101

Cámara1 (192.168.1.100)	
Puerto servidor Web	8080
Puerto de dispositivo	4520
puerto RSTP	3000
puerto de servidor de política	943

Cámara2 (192.168.1.101)	
Puerto servidor Web	8081
Puerto de dispositivo	4521
puerto RSTP	3001
puerto de servidor de política	943

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.

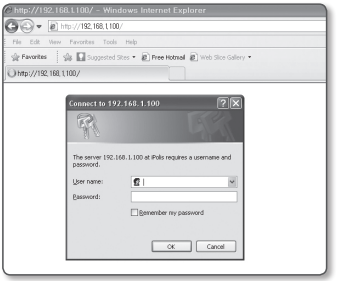
1. Antes de poder acceder a una cámara de una red de enrutador de banda ancha, debe haber definido el reenvío del rango de puertos para el enrutador de banda ancha.
2. Desde el PC remoto, inicie el explorador de Internet e introduzca la dirección URL de DDNS de la cámara, o la dirección IP del enrutador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

- Para registrar los ajustes de DDNS, consulte “**Registro con DDNS**”. (página 59)

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://www.samsungipolis.com/[ID de producto]
   - Debe aparecer el diálogo de inicio de sesión.

- **Para comprobar la dirección de DDNS**

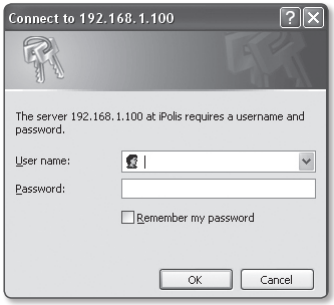
Si la cámara está conectada directamente al módem de cable DHCP, al módem DSL o al módem PPPoE, la dirección IP de la red cambiará cada vez que intente conectar al servidor del proveedor de servicios de Internet.
Si este es el caso, no se le informará de la dirección IP modificada por el DDNS.

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 www.samsungipolis.com y registre primero el dispositivo y, a continuación, establezca <**Network**> - <**DDNS**> de Web Viewer en <**Samsung DDNS**>, y facilite el <**ID de producto**> utilizado durante el registro de DDNS.

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 "**4321**" en el cuadro de entrada <**Password**>.
   Si se cambia la contraseña, introduzca en su lugar la contraseña modificada.
3. Haga clic en [**OK**].
   Si ha iniciado sesión correctamente, verá la pantalla de Live Viewer.



- El ID predeterminado de usuario es "**admin**" y la contraseña es "**4321**".
- Por razones de seguridad, asegúrese de cambiar la contraseña en <**System**> - <**Usuario**>.
- La contraseña predeterminada puede estar expuesta a riesgos de piratería, por lo que recomendamos que cambie la contraseña después de instalar el producto.
  Tenga en cuenta que otros problemas que sucedan por no cambiar la contraseña será responsabilidad del usuario.
- Si marca la opción "**Remember my password**" una vez realizada la entrada, la próxima vez se iniciará sesión automáticamente sin que se le pida introducir la información de inicio de sesión.

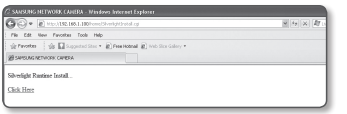
- Podrá disfrutar de la mejor calidad de vídeo si el tamaño de pantalla es del 100%. Si se reduce la relación existe el riesgo de cortar la imagen en los bordes.

INSTALACIÓN DE SILVERLIGHT RUNTIME

Si su PC no ha instalado Silverlight Runtime o ha instalado una versión antigua, se le redirigirá automáticamente a la página de instalación de Silverlight Runtime al acceder a Web Viewer.

▪ Para instalar un sistema operativo Windows

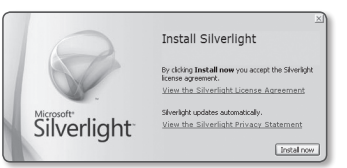
1. Haga clic en <**Click Here**>.



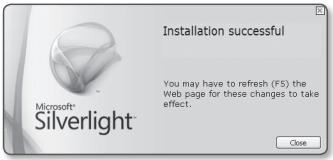
2. Cuando aparezca el diálogo de descarga del archivo, haga clic en <**Run**>.

3. Una vez completada la descarga, haga clic en <**Run**>.

4. Aparecerá la página de instalación de Silverlight Runtimle. <**Install now**> para continuar con la instalación.



5. Una vez hecho, haga clic en <**Close**>.

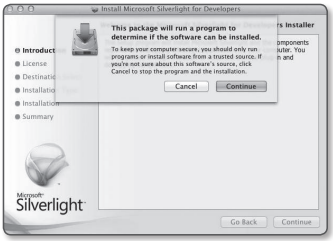


▪ Para instalar un sistema operativo MAC

1. Ejecute el archivo con la extensión ".dmg".

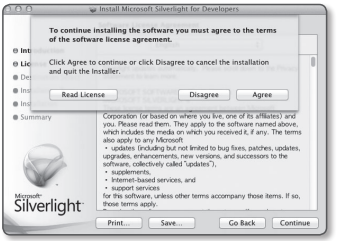
2. Ejecute automáticamente el archivo del paquete de instalación creado con la extensión ".pkg".

3. Haga clic en <**Continue**>.

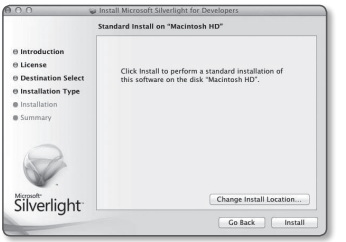


4. Seleccione el idioma en la pantalla de selección de idioma y haga clic en <**Continue**>.

5. Haga clic en <**Agree**>.

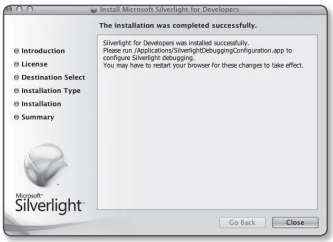


6. Haga clic en <**Install**>.



7. Introduzca la contraseña de la cuenta con la que ha iniciado sesión y haga clic en <**Install Software**> y continuar.

8. Una vez completado, haga clic en <**Close**>.

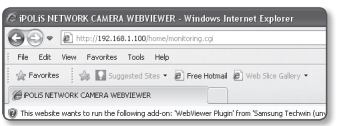


INSTALACIÓN DEL PLUGIN STW WebViewer

Si va a conectar a una cámara por primera vez, verá el mensaje de instalación. A continuación, instale el Plugin de WebViewer necesario para acceder a la cámara y controlar el vídeo desde allí en tiempo real.

- Microsoft Visual C++ 2010 Redistribute Package debe estar instalado en el PC antes de instalar el plug-in de Web viewer. Si aún no se ha instalado Visual Studio 2010, aparecerá un mensaje de error del tipo “No se ha instalado VC++ 2010 en tiempo de ejecución. Instale la biblioteca de tiempo de ejecución.” Ejecute el archivo vcredist_x86.exe que puede encontrar en el sitio web de Samsung www.samsungcctv.com o en el CD de instalación que se suministra. El archivo vcredist_x86.exe es un programa de instalación del paquete redistribuible de Visual Studio 2010 de Microsoft para sistemas operativos de 32 bits.

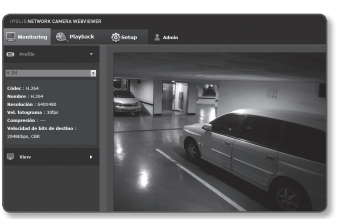
1. Al acceder a la pantalla de inicio de la página de monitorización, haga clic en el mensaje de advertencia de color amarillo de la parte superior de la página.



2. Haga clic en <**Run Add-on**>.

3. Aparece el mensaje de advertencia de seguridad, haga clic en [**Run**].

4. Una vez instalado el plug-in de Web viewer correctamente, verá la pantalla en directo.



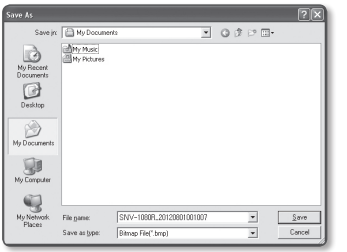
UTILIZACIÓN DE LA PANTALLA EN DIRECTO

Elemento	Descripción
1 Vigilancia	Va a la pantalla de supervisión.
2 Reproducción	Cambia a la pantalla de vigilancia que reproduce los datos de grabación en la memoria SD.
3 Config.	Va a la pantalla de configuración.
4 Pantalla del visor	Muestra en pantalla el vídeo en directo. ■ Puede utilizar la rueda del ratón para activar el zoom digital en la pantalla del visor.
5 Tipo de perfil	Puede seleccionar un tipo de perfil en <**Perfil de vídeo**> bajo el menú de configuración <**Video & Audio**>. ■ Cuando se conecte Web Viewer, aparece la información del perfil que se esté utilizando.
6 Optimización de la pantalla	El tamaño del vídeo de la cámara se agrandará hasta adoptar el tamaño del explorador Web.
7 Fijar la resolución	Independientemente de la configuración de le resolución realizada en la cámara, establece la resolución en 640x480. Se pulsa de nuevo para cambiar a la resolución predeterminada.

Elemento	Descripción
8 **Pantalla completa**	Cambia el vídeo actual al tamaño máximo del monitor.
9 **Captura**	Guarda la instantánea como un archivo de imagen en formato .bmp o .jpg.
10 **Control de audio / micrófono**	Activa/desactiva el audio y el micrófono, y controla el volumen.
11 **Ocultar el menú contextual**	El menú contextual de la esquina izquierda desaparecerá y sólo queda el icono del menú.

Para capturar la instantánea

1. Haga clic en [**Captura (**)] en la escena que va a capturar.
   Debe aparecer el diálogo de captura.
2. Confirme la ruta de almacenamiento y haga clic en el botón [**Save**].
   La captura se guardará en la ruta especificada.



- Si se interrumpe un vídeo al capturar la imagen con IE8 en un PC con Windows 7, anule la selección "**Activar modo protegido**" en "**Herramientas – Opciones de Internet – Seguridad**".

Para ocupar la pantalla completa

1. Haga clic en el botón [**Pantalla completa (**)].
2. Con esto el Visor ocupará toda la pantalla.
3. Para salir del modo de pantalla completa, pulse [**Esc**] en el teclado.

- En el explorador Internet Explorer y Google Chrome, puede cambiar a pantalla completa.

Para controlar el sonido del audio

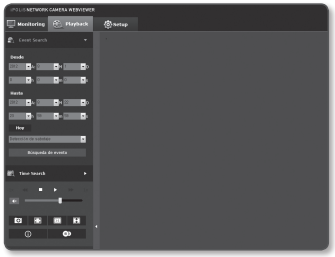
1. Haga clic en el icono [**Audio (**)] para activar la comunicación de audio.
2. Utilice la barra [ ] para controlar el volumen.

Para controlar el micrófono

1. Haga clic en el icono [**Mic (**)] para activar el micrófono.

BUSCAR Y REPRODUCIR POR EVENTO

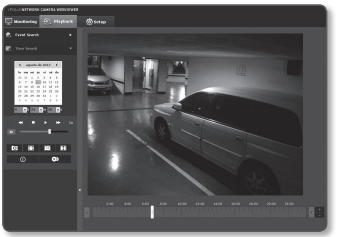
1. Haga clic en el botón [**Playback (**)].
2. Especifique la hora de inicio y la hora de fin de su búsqueda.
3. Seleccione un tipo de evento para buscar dentro del período especificado.
4. Haga clic en el botón [**Búsqueda de evento**].
   Los resultados de búsqueda aparecerán en la lista.



- Si se han grabado más de 500 eventos en e período de búsqueda, la búsqueda se limitará a la fecha en la que se grabó el evento número 500.
  Por ejemplo, si el período de búsqueda se encuentra entre el día 10 y 15 del mes y se registraron más de 500 eventos entre el 10 y el 11, la búsqueda se limitará hasta el día 11 con un total de 500 eventos, y no se buscarán los eventos posteriores (a partir del día 12).

5. Seleccione un elemento de la lista de búsqueda para reproducirlo.
6. Haga clic en el botón [**Reproducir (**)].
7. Para detener la reproducción del vídeo, haga clic en [**Parar (**)].
8. Para volver a la pantalla de búsqueda, haga clic en [**Salir (**)].

BUSCAR Y REPRODUCIR POR HORA



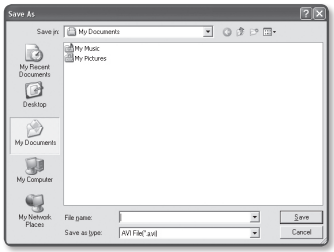
1. Haga clic en [**Time Search (**)].
2. Haga clic en la fecha que desee en el calendario.
   Se reproducirá el vídeo de la fecha especificada.
3. Si se detiene la reproducción del vídeo, seleccione la hora y haga clic en [**Reproducir (**)].
   Se reproducirá el vídeo de la hora seleccionada.
4. Mientras se esté reproduciendo el vídeo, se mostrará el tiempo de grabación del vídeo actual.
5. Busque vídeo adelante o atrás y controle la velocidad de reproducción.
   - Para controlar la velocidad de reproducción
     Si se selecciona ▶▶, el botón cambiará a x1, x2, x4, x8, y la velocidad de reproducción aumentará en consecuencia.
     Si se selecciona ◀◀, el botón cambiará a x8, x4, x2, x1, y la velocidad de reproducción se reducirá en consecuencia.
   - Para controlar la dirección de reproducción
     Si ve el botón ▶▶ con la velocidad de reproducción mostrada, el vídeo se reproducirá hacia delante. Mientras tanto, si ve el botón ◀◀ con la velocidad de reproducción mostrada, el vídeo se reproducirá hacia atrás.
6. Mueva [**Barra de tiempo (**)] al punto temporal del vídeo deseado antes de reproducirlo.
   La hora que contiene un archivo de grabación aparecerá resaltada en azul; la hora con la grabación de evento se resaltará en rojo.

Para comprobar la información de tiempo del vídeo en reproducción

1. Haga clic en el botón [**Acerca de (**)].
2. En pantalla aparece la información de la fecha y la hora.

Para hacer una copia de seguridad del vídeo buscado

1. Durante la reproducción, haga clic en [ ] en la escena de la va a guardar copia de seguridad.
   Aparece la ventana de programación de la hora de inicio y fin de la copia de seguridad.
2. Haga clic en el botón [ ].
   Aparecerá la ventana Guardar como.
3. Confirme la ruta de almacenamiento y haga clic en el botón [Save].
   Se hará una copia de seguridad de la captura en la ruta especificada.



Para reproducir vídeo de copia de seguridad

El vídeo de copia de seguridad se guardará en formato .avi. El vídeo de copia de seguridad se puede reproducir con cualquier reproductor multimedia que admita el formato de su PC.

pantalla de configuración

CONFIGURACIÓN

Puede configurar los ajustes de audio y vídeo, red, evento y sistema de la cámara de la red.

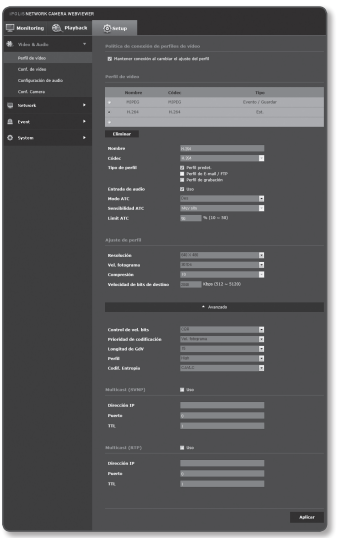
1. En la pantalla en directo, haga clic en [**Setup (** Setup **)**].
2. Aparece la pantalla de configuración.

- Es necesario instalar Microsoft Sliverlight 4.0 en el PC. Para su configuración, consulte las páginas sobre previsualización de vídeo.
  Si no está instalado, va automáticamente a la configuración de Sliverlight.

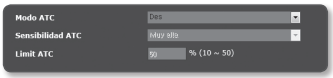
CONFIGURACIÓN DE VÍDEO Y AUDIO

Perfil de vídeo

1. En el menú de configuración, seleccione la ficha <**Video & Audio** ( )>.
2. Haga clic en <**Perfil de vídeo**>.
3. Establezca la <**Política de conexión de perfiles de vídeo**>.
   - Mantener conexión al cambiar el ajuste del perfil : El cambio de propiedades del perfil utilizado en la conexión existente no afecta a dicha conexión y permanece con la configuración del perfil antiguo.
     Si no se selecciona, el cambio del perfil utilizado en una conexión existente reinicia dicha conexión.
4. Seleccione las propiedades de cada perfil.



5. Haga clic en el cuadro de entrada de cada elemento e introduzca / seleccione el valor que desee.
   - Es posible que el menú contextual difiera dependiendo del tipo de códec seleccionado.
   - Perfil predet. : Si no se selecciona ningún perfil al utilizar Web Viewer, se aplica el perfil de vídeo predeterminado.
   - Perfil de E-mail / FTP : El perfil de vídeo que se va a transferir al e-mail o sitio FTP.
     - Sólo el códec de MJPEG se puede definir como Perfil de E-mail / FTP.
   - Perfil de grabación : Éste es el perfil que se aplica a la grabación de vídeo.
   - Entrada de audio : Sets whether to use audio for video recordings.
6. Según la situación, establezca el modo ATC (control automático de transmisión).



   - Modo ATC : ajusta las propiedades de vídeo según la varianza en el ancho de banda de la red, controlando la velocidad de bits. El ajuste de la velocidad de bits depende del modo ATC.
     - Controlar vel. fot. : reduce la velocidad de fotogramas si cae el ancho de banda de red.
     - Controlar compresión : controla la velocidad de compresión si cae el ancho de banda de red.
       El ajuste de compresión puede causar el deterioro de la calidad de la imagen.
     - Si <**Control de vel. bits**> se define en <**CBR**>, la prioridad de codificación según el modo ATC se establecerá como se indica a continuación:

Control de vel. bits / Modo ATC	Controlar vel. fot.	Controlar compresión
CBR	Vel. fotograma	Compresión

   - Sensibilidad ATC : afecta a la velocidad de transferencia según la varianza del ancho de bando de red.
     La velocidad de transferencia se ajustará a la más alta si el ancho de banda es <**Muy alta**>, y se ajusta a la más baja si el ancho de banda es <**Muy baja**>.
   - Limit ATC: si se ajusta la calidad o la velocidad de fotogramas, la propiedad cambiará al valor aplicado (%) frente el valor de ajuste anterior (100%).
     Tenga en cuenta que si reduce demasiado el valor de propiedad, es posible que la pantalla parpadee. Por tanto, se recomienda ajustar el valor dentro del umbral.

- Se recomienda aplicar el control ATC solo para las cámaras que admitan ATC.
- Ajuste la sensibilidad de ATC en <**Muy baja**> en un entorno de red con alta varianza en el ancho de banda de red.
- Si la conexión de red es inestable, es posible que la pantalla parpadee.

7. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

Para añadir un perfil de vídeo

Puede añadir tantos códec como sea necesario de forma que pueda aplicar una serie de perfiles según las condiciones de grabación.

1. Seleccione una opción en <**Perfil de vídeo**>.
2. Facilite el nombre y seleccione un códec.
3. Especifique las condiciones en las que se aplicará el códec.
4. Especifique los detalles del códec seleccionado incluida la resolución y la y la velocidad de fotogramas.
   Haga clic en <**Avanzado**> para ver el menú contextual.
   - Resolución : define el tamaño del vídeo de los archivos H.264 y MJPEG.
   - Vel. fotograma : especifica la velocidad de fotogramas.
   - Compresión : especifica la velocidad de compresión del vídeo.
   - Vel. bits máxima : especifica la velocidad de bits máxima del vídeo.

- Como la velocidad de bits se puede ajustar de forma limitada según la resolución, la velocidad de fotogramas y la complejidad de la pantalla la velocidad de bits real puede ser mayor que la velocidad de bits máxima. Por tanto, debe tener en cuenta las condiciones de uso al ajustar el valor.

   - Control de vel. bits : Para la compresión, puede seleccionar entre velocidad de bits constante y velocidad de bits variable. La velocidad de bits constante (CBR) altera la calidad del vídeo y fija la velocidad de bits de transferencia en red, mientras que la velocidad de bits variable da prioridad a la calidad variando la velocidad de bits de la transferencia de red.
   - Prioridad de codificación : puede definir el método de transferencia de vídeo en Vel. fotograma o Compresión.
   - Longitud de GdV : Seleccione una longitud de GOV entre 1 y 150.
   - Perfil : puede seleccionar el método de perfi les H.264.
   - Codif. Entropia : reduce posibles pérdidas de compresión debido a la codificación.
   - Multicast (SVNP) : especifica el uso del protocolo SVNP.
     - Dirección IP : introduzca una dirección IPv4 con la que puede conectar a la red IPv4.
     - Puerto : especifica el puerto de comunicaciones de vídeo.
     - TTL : permite definir TTL para el paquete SVNP.
   - Multicast (RTP) : permite especificar el uso del protocolo RTP.
     - Dirección IP : introduzca una dirección IPv4 con la que puede conectar a la red IPv4.
     - Puerto : especifica el puerto de comunicaciones de vídeo.
     - TTL : puede definir TTL para el paquete RTP.

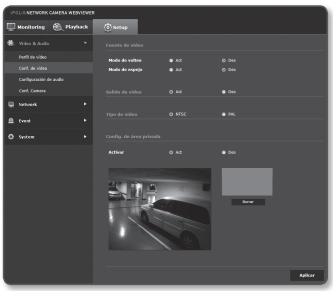
¿Cuál es la longitud de GOV?

GOV (grupo de planos de objetos de vídeo) es un conjunto de fotogramas de vídeo para compresión H.264, que indica un conjunto de fotogramas existentes entre el I-Frame inicial (fotograma principal) y el siguiente I-Frame. GOV se compone de 2 tipos de fotogramas: I-Frame y P-Frame.

I-Frame es el fotograma básico para la compresión, también conocido como fotograma principal, que contiene los datos completos de la imagen. El P-Frame sólo contiene los datos que se han cambiado en relación con el I-Frame precedente.

Puede especificar un valor entre 1 y 150 para el CÓDEC H.264.

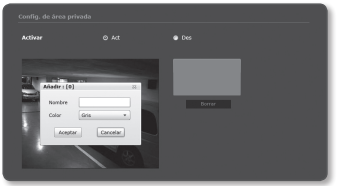
Conf. de vídeo



1. En el menú de configuración, seleccione la ficha <**Video & Audio** ( )>.
2. Haga clic en <**Conf. de vídeo**>.
3. Seleccione un modo de <**Fuente de vídeo**>.
   - Modo de volteo : gira totalmente la imagen capturada por la cámara.
   - Modo de espejo : gira horizontalmente la imagen capturada en la cámara.
4. Defina <**Salida de vídeo**>.
   - Si selecciona <**Des**>, la salida de la señal de vídeo no se producirá a través del puerto de SALIDA DE VÍDEO.
5. Seleccione el tipo de vídeo.
6. Especifique la zona de privacidad.
7. Una vez hecho, haga clic en [**Aplicar** (Aplicar)].

Para definir la zona privada

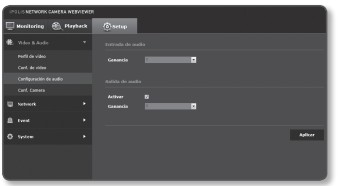
Puede especificar un área concreta del vídeo de la cámara para protegerla por privacidad.



1. Defínala en <**Act**>.
2. Una vez hecho, haga clic en [**Aplicar** (Aplicar)].
3. Seleccione en el vídeo 4 vértices (que formen un cuadrilátero).
4. Facilite un nombre y un color.
   A continuación, pulse [**Aceptar**].
5. Para borrar un área de la lista, seleccione una y haga clic en [**Borrar** (Borrar)].

Configuración de audio

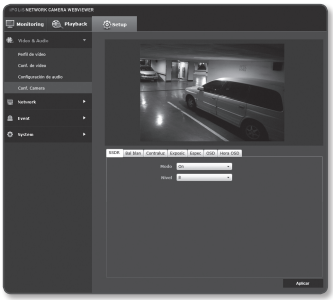
Puede configurar los ajustes de E/S de la fuente de audio desde la camara.



1. En el menú de configuración, seleccione la ficha <**Video & Audio** ( )>.
2. Haga clic en <**Configuración de audio**>.
3. Ajuste el nivel de entrada del audio.
   - Ganancia : establece la ganancia del audio de entrada.
4. Ajuste el nivel de salida del audio.
   - Activar: establece si utilizar o no la salida de audio.
   - Ganancia: establece la ganancia del audio de salida.
5. Una vez hecho, haga clic en [**Aplicar** (Aplicar)].

Conf. Camara

Puede cambiar los ajustes de la cámara de acuerdo con el entorno en el que se encuentra la cámara.



1. En el menú de configuración, seleccione la ficha <**Video & Audio** ( )>.
2. Haga clic en <**Conf. Camara**>.
3. Configure según precise los ajustes de : SSDR, Bal Blan, Contraluz, Exposic, Espec, OSD, Hora OSD
4. Una vez hecho, haga clic en [**Aplicar** (Aplicar)].
   - Si transcurre un tiempo determinado (tiempo máximo de espera: 240 s) sin pulsar el botón [**Aplicar** (Aplicar)] tras cambiar los ajustes, no se aplicarán los cambios.

Configuración de SSDR (Samsung Super Dynamic Range)

En una escena en la que la diferencia entre las zonas oscuras y brillantes es muy marcada, puede aumentar el brillo de la zona oscura para regular independientemente el brillo general.

1. Seleccione <**SSDR**>.
2. Defina <**Modo**> en <**On**>.
3. Configure el ajuste de <**Nivel**> según sea necesario.
   - Nivel : ajuste el nivel del rango dinámico.

Configuración de balance de blanco

Puede corregir los colores de las imágenes basándose en el blanco existente según las condiciones de luz.

1. Seleccione <**Bal blan**>.
2. Seleccione <**Modo**>.
   - ATW : corrige automáticamente los colores del vídeo de la cámara.
   - Manual : puede ajustar manualmente las ganancias de rojo y azul del vídeo de la cámara.

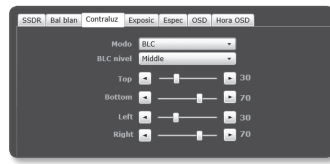
- AWC : corrige los colores del vídeo de la cámara para que se optimicen a las condiciones de luz y al modo de pantalla actuales.
  Es posible que tenga que reajustar si cambian las condiciones de la luz.
- Exter : corrige automáticamente los colores del vídeo de la cámara para optimizarse al entorno del exterior.
- Inter : corrige automáticamente los colores del vídeo de la cámara para optimizarse al entorno del interior.

- En modo AWC, haga clic en el botón [**AWC Set**] si desea mantener el nivel de balance de blanco de la imagen actual.

- Es posible que el balance de blancos no funcione correctamente en las siguientes situaciones. Si este es el caso, cambie al modo AWC.
  - Si la situación circundante del objeto está fuera del rango de corrección de temperatura Ej.) cielo despejado, puesta de sol
  - Si el entorno del objeto está oscuro
  - Si el enfoque de la cámara se dirige a una iluminación fluorescente o si la cámara está instalada en un lugar con iluminación variable, es posible que el balance de blancos sea inestable.

Configuración de BLC

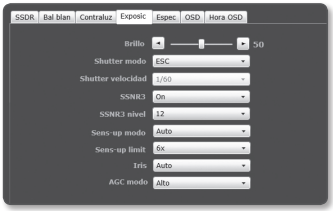
Puede especificar manualmente el área que desea en el vídeo y definir el área para que se vea más claramente.



1. Seleccione <**Contraluz**>.
2. Defina <**Modo**> en <**BLC**>.
3. Defina <**BLC nivel**>.
   Puede cambiar el nivel para ajustar el brillo del área de vigilancia.
4. Defina los niveles de <**Top, Bottom, Left, Right**> para especificar el área de destino.

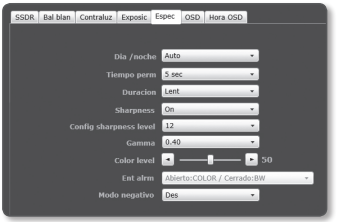
Configuración de Exposic

Puede ajustar el nivel de exposición de la cámara.



1. Seleccione <**Exposic**>.
2. Seleccione cada elemento y defínalo de la forma apropiada.
   - Brillo : Ajusta el brillo de la pantalla.
   - Shutter modo : Ajusta el obturador electrónico de la cámara.
     - ESC (control electrónico de obturador) : Ajusta automáticamente la velocidad del obturador según el brillo ambiental.
     - Manual : Ajusta manualmente la velocidad del obturador de la cámara.
     - A.FLK (Anti-parpadeo) : Seleccione esta función si la pantalla parpadea debido a un desajuste de frecuencia con la luz ambiente.
   - Shutter velocidad : Controla manualmente la velocidad del obturador.
   - SSNR3 : Especifique el uso de reducción de ruido.
   - SSNR3 nivel : Ajusta el nivel de reducción de ruido.
   - Sens-up modo : Detecta automáticamente el nivel de oscuridad por la noche o en una escena de bajo contraste y prolonga por consiguiente el tiempo de acumulación para una imagen brillante y nítida.
     - Si define el modo de obturador en Manual/A.FLK, se desactivará el modo Sens-up.
     - Cuanto más grande sea el factor de ampliación de sensibilidad, más brillante será la pantalla pero puede producir una postimagen o una demora de vídeo.
   - Sens-up limit : Define la condición de trabajo en el modo Auto en una escena de bajo contraste.
   - Iris : Puede definir el diafragma de la cámara en AUTO o MANUAL a su gusto.
     - Para una cámara con tipo de obturador ESC, el diafragma funcionará correctamente sólo si se define en <**Manual**>.
       Si el diafragma se define en <**Auto**>, la velocidad del obturador se fijará en 1/60 de segundo en modo ESC.
   - AGC modo : Ajuste el valor de ganancia del vídeo (que, en concreto, se grabó con bajo contraste y un nivel de brillo inferior que el normal) para controlar el brillo del vídeo.

Configuración de Espec



1. Seleccione <**Espec**>.
2. Seleccione cada elemento y defínalo de la forma apropiada.
   - Dia / noche : Puede cambiar el modo para ajustar el nivel de blanco y negro así como los colores.
     - Color : siempre muestra el vídeo en colores.
     - B/W : muestra siempre el vídeo en blanco y negro.
     - Auto : aparece en modo color durante el día y cambia a blanco y negro por la noche en escenas de bajo contraste.
       - Si define el modo AGC en OFF desde <**Exposic**>, se desactiva el modo Día / noche Auto en consecuencia.
     - BN Externo : controla los modos de imagen de Color y ByN cuando se sincroniza un IR a través del puerto de entrada de alarma.
   - Tiempo perm : este es el tiempo que se mantiene cada condición de luz aplicable para activar el cambio entre los modos de día y noche.
   - Duracion : ajuste la velocidad de la luz que se adapte al cambio de modo.
   - Sharpness : ajusta la nitidez general de la imagen.
     Si se selecciona <**On**>, puede ajustar la nitidez de la imagen.
   - Config sharpness level : Cuanto más alto sea el nivel, más nítido y más claro será el contorno de la imagen.
   - Gamma : ajusta el contraste de la imagen.
   - Color level : ajusta el nivel de color de la imagen.
   - Ent alrm : define la imagen en Color o ByN dependiendo del estado del sensor de alarma en sincronización con los IR.
     - Si el modo Día / noche se define en External BN Externo, se deshabilitará la función de entrada de alarma de la página de entrada de evento-alarma..
   - Modo negativo : muestra la imagen inversa del video.

Configuración de OSD

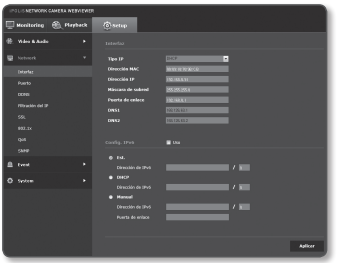
1. Seleccione <**OSD**>.
2. Seleccione cada elemento y defínalo de la forma apropiada.
   - Titulo cam : permite especificar si ver o no el título de la cámara en la pantalla.
     - Puede introducir hasta 15 caracteres para el título.
   - Titulo cam posición X, Y : permite especificar las coordenadas en la que aparecerá el título de la cámara en la pantalla.

Configuración de tiempo de OSD

1. Seleccione <**Hora OSD**>.
2. Seleccione cada elemento y defínalo de la forma apropiada.
   - Hora pant. : permite especificar el uso de la visualización de hora en la pantalla.
   - Form fecha : permite especificar el formato de fecha que aparecerá en la pantalla.
   - Hora posicion pant. X, Y : permite especificar la posición de la visualización de hora en la pantalla.
   - Mostrar día de sema : permite especificar el uso de la visualización de fecha en la pantalla.

CONFIGURACIÓN RED

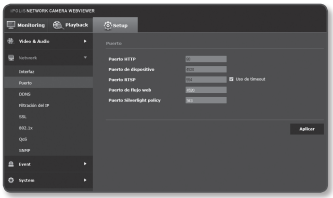
Interfaz



1. En el menú de configuración, seleccione la ficha <**Network (** **)**>.
2. Haga clic en <**Interfaz**>.
3. Establezca el <**Interfaz**>.
   - Tipo IP : selecciona un tipo de conexión IP.
     - Manual : especifica la dirección IP, la máscara de subred, la puerta de enlace, DNS1 y DNS2.
     - DHCP : especifica DNS1 y DNS2.
     - PPPoE : especifica DNS1, DNS2, ID y contraseña.
     - Si lo define en <**Manual**>, debe especificar manualmente la IP, máscara de subred, puerta de enlace, DNS 1 y 2.
   - Dirección MAC : muestra la dirección MAC.
   - Dirección IP : muestra la dirección IP actual.
   - Máscara de subred : muestra la <**Máscara de subred**> para definir la IP.
   - Puerta de enlace : muestra la <**Puerta de enlace**> para definir la IP.
   - DNS1/DNS2 : muestra la dirección del servidor DNS (Servicio de nombres de dominios).
4. Establezca el <**Config. IPv6**>.
   - Defínalo en <**Uso**> para utilizar la dirección IPv6.
   - Est. : se utiliza la dirección IPv6 predeterminada.
   - DHCP : muestra y utiliza la dirección IPv6 obtenida desde el servidor DHCP.
   - Manual : introduzca manualmente una dirección IP y una puerta de enlace y utilícela.
5. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

- El sistema de direcciones IP se definirá por defecto en DHCP. Si no se encuentra el servidor DHCP, se recuperarán automáticamente los ajustes anteriores.
- Una vez completada la edición, haga clic en [**Aplicar (** Aplicar **)**] para aplicar los cambios y se saldrá del explorador. Tras un instante, conecte de nuevo con la IP modificada.

Puerto



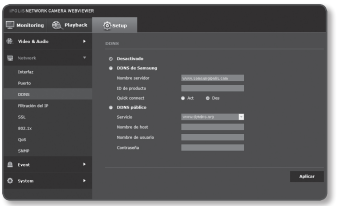
1. En el menú de configuración, seleccione la ficha <**Network (**)>.
2. Haga clic en <**Puerto**>.
3. Introduzca cada elemento en el menú del puerto según sea necesario.
   - No está disponible ni el rango de puertos entre 0 y 1023 ni el puerto 3702.
   - Puerto HTTP : puerto HTTP utilizado para acceder a la cámara a través del explorador Web. El valor predeterminado es 80 (TCP).
     - La política de seguridad, no permite ajustar el puerto HTTP para los exploradores Safari y Google Chrome en 65535.
   - Puerto de dispositivo : define un puerto que se utilizará para transferir señales de vídeo con protocolos Samsung.
   - Puerto RTSP : se utiliza para transferir vídeos en el modo RTSP; el valor predeterminado es 554.
   - Puerto de flujo web : se utiliza para transferir vídeos en Web Viewer; el valor predeterminado es 4520.
   - Puerto Silverlight policy : Silverlight se utiliza para poder adquirir una conexión de red; el valor predeterminado es 943.

- Si se cambió el puerto HTTP, el explorador se cierra.
  Posteriormente, a dirección debe contener el puerto HTTP recién asignado con la IP.
  Ej.:) Dirección IP: 192.168.1.100, Puerto HTTP: Asignado 8080 → http://192.168.1.100:8080
  (Si el puerto HTTP se establece en 80, no hay necesidad de especificar el número de puerto.)
- El rango de puertos de Web Streaming se encuentra entre 4502 y 4534. Si el puerto del dispositivo se encuentra en este rango efectivo, el puerto de Web Streaming debe especificarse de igual forma que el puerto del dispositivo.
- No puede cambiar el puerto del servidor de política de Web Streaming/Sliverlight de una cámara.

4. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

DDNS

DDNS es una abreviatura de Servicio de nombres de dominio dinámicos que convierte la dirección IP de una cámara en un nombre de host general de forma que el usuario pueda recordarlo fácilmente.



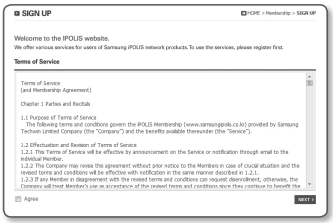
1. En el menú de configuración, seleccione la ficha <**Network (**)>.
2. Haga clic en <**DDNS**>.
3. Seleccione el tipo de conexión <**DDNS**>.
4. Introduzca las opciones de DDNS según el tipo seleccionado.
   - DDNS de Samsung : se selecciona si utiliza el servidor de DDNS facilitado por Samsung Techwin.
     - ID de producto : introduzca el ID de producto registrado con el servicio DDNS de Samsung.
     - Quick connect: establece el reenvío automático de puertos cuando se utiliza con un enrutador compatible con UPnP (Universal Plug and Play).
   - DDNS público : Seleccione uno de los servidores DDNS públicos que se facilitan cuando utilice un servidor DDNS público.
     - Servicio : permite seleccionar el servicio de DDNS público deseado.
     - Nombre de host : introduzca el nombre del host registrado en el servidor DDNS.
     - Nombre de usuario : introduzca el nombre de usuario del servicio DDNS.
     - Contraseña : introduzca la contraseña del servicio DDNS.
5. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

- Si se selecciona <**Quick connect**>, asegúrese de seleccionar el servicio DDNS de Samsung.

Registro con DDNS

Para registrar el producto con DDNS de Samsung

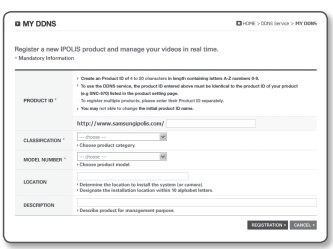
1. Visite el sitio Web de iPOLiS (www.samsungipolis.com) y regístrese con una cuenta creada.



2. En la barra de menú superior, seleccione <**DDNS SERVICE**>-<**MY DDNS**>.

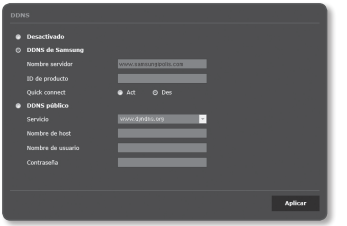
3. Haga clic en [**PRODUCT REGISTRATION**].
4. Introduzca el ID del producto.
   - Debe realizar una comprobación doble del ID introducido.

5. Seleccione una <**CLASSIFICATION**> y especifique el <**MODEL NUMBER**>.
6. Especifique la ubicación del producto con una descripción en caso necesario.
7. Haga clic en [**REGISTRATION**].
   El producto se añadirá a la lista de productos que puede comprobar.



Para conectar al DDNS de Samsung en la configuración de la cámara

1. En la página de configuración de DDNS, defina <**DDNS**> en <**DDNS de Samsung**>.
2. Facilite el <**ID de producto**> especificado al registrar el ID del producto en el sitio DDNS.
3. Haga clic en [**Aplicar (** Aplicar **)**]. Una vez que se establezca correctamente la conexión, aparecerá en pantalla el mensaje <(**Correcto**)>.



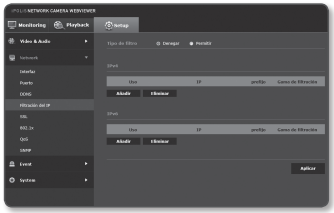
Configuración de DDNS público en los ajustes de cámara

1. Abra la página de ajustes de DDNS y seleccione <**DDNS público**> para <**DDNS**>.
2. Introduzca el nombre de host del sitio, nombre de usuario y contraseña.
3. Haga clic en el botón [**Aplicar (** Aplicar **)**]. Si la conexión se establece correctamente, aparece <(**Correcto**)>.
4. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

- Para utilizar debidamente el servicio DDNS, es necesario configurar tanto DDNS como el reenvío de puertos del enrutador.
  Para la configuración del reenvío de puertos, consulte "**Configuración de reenvío del rango de puertos (Asignación de puertos)**" (página 31)

Filtración del IP

Puede crear una lista de IPs a las que desee otorgar o denegar acceso.



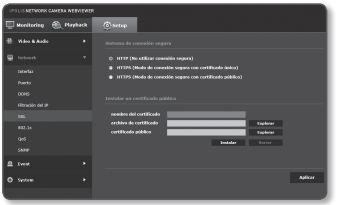
1. En el menú de configuración, seleccione la ficha <**Network (** **)**>.
2. Haga clic en <**Filtración del IP**>.
3. Seleccione <**Tipo de filtro**>.
   - Denegar : si se selecciona, se restringirá el acceso desde las IPs añadidas.
   - Permitir : si se selecciona, se permitirá el acceso sólo desde las IPs añadidas.
4. Haga clic en el botón [**Añadir (** Añadir **)**]. Se creará la lista de IP.
5. Facilite la IP a la que desee otorgar o denegar el acceso. Cuando introduzca una dirección IP y un prefijo, la lista de direcciones IP disponibles aparecerá en la columna de rango del filtro del lado derecho.

- Si se selecciona <**Permitir**> para Filtrado IP y <**Config. IPv6**> de <**Interfaz**> se establece en <**Uso**>, deben asignarse las direcciones IPv4 e IPv6 del ordenador que se esté configurando.
- La dirección IP del equipo utilizado para realizar la configuración actual no se puede añadir a <**Denegar**>, debe añadirse a <**Permitir**>.
- Sólo aparecerán las direcciones IP que estén definidas en <**Uso**> en la columna del filtro.

6. Seleccione una IP para borrarla de la lista. Haga clic en el botón [**Borrar (** Borrar **)**].
7. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

SSL

Puede seleccionar un sistema de conexión seguro o instalar el certificado público para este fin.



1. En el menú de configuración, seleccione la ficha <**Network (**)>.
2. Haga clic en <**SSL**>.
3. Seleccione un sistema de conexión seguro.
   - Para acceder a la cámara utilizando el modo HTTPS, tiene que introducir la dirección IP de la cámara con el formato “https://<IP_Cámara>”. Si no puede configurar los ajustes de Web viewer en el modo HTTPS con Internet Explorer, edite las opciones de Internet como se indica a continuación: <Menú → Herramientas → Opciones de Internet → Avanzado → Seguridad → Quite la marca de TLS 1.0 y marque TLS 1.1, TLS 1.2>
4. Busque el certificado público que desee instalar en la cámara.
   Para instalar el certificado en la cámara, necesita facilitar el nombre del certificado (el usuario lo puede asignar arbitrariamente), archivo de certificado emitido por la entidad de certificación y el archivo de la clave.
   - La opción <**HTTPS (Modo de conexión segura con certificado público)**> sólo se activará si se ha instalado un certificado público.
5. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

Instalación del certificado

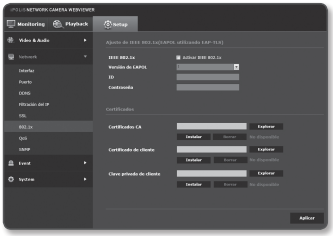
1. Introduzca el nombre del certificado.
2. Seleccione el archivo del certificado y su clave, y haga clic en el botón [**Instalar (** Instalar **)**].

Eliminación del certificado

1. Haga clic en el botón [**Borrar (** Borrar **)**].
2. Para borrar un certificado público, debe acceder al descodificador de vídeo de red en el modo de <**HTTP (No utilizar conexión segura)**> o <**HTTPS (Modo de conexión segura con certificado único)**>.

802.1x

Al conectar a red, puede elegir si utilizar el protocolo 802.1x e instalar el certificado.



1. En el menú de configuración, seleccione la ficha <**Network (** **)**>.
2. Haga clic en <**802.1x**>.
3. Defina <**Ajuste de IEEE 802.1x (EAPOL utilizando EAP-TLS)**>.
   - IEEE 802.1x : especifica el uso del protocolo 802.1x.
   - Versión de EAPOL : seleccione la versión 1 o 2.
   - ID : introduzca el ID del certificado del cliente.
   - Contraseña : introduzca la contraseña de la clave privada del cliente. Si el archivo de clave utilizado no está cifrado, no tiene que introducirlo.

- Si el dispositivo de red conectado no admite el protocolo 802.1x, el protocolo no funcionará debidamente aunque lo defina.

4. Instale/elimine el certificado.
   - Certificados CA : seleccione un certificado público que contenga la clave pública.
   - Certificado de cliente : seleccione un certificado público que contenga la clave de certificado de cliente.
   - Clave privada de cliente : seleccione un certificado público que contenga la clave privada de cliente.
5. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

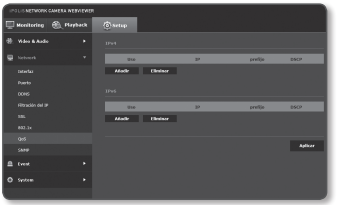
Para instalar/eliminar los certificados relacionados con 802.1x

1. Pulse el botón [**Explorar (** Explorar **)**] en cada elemento y seleccione un certificado para instalarlo.
2. Si no hay instalado ningún certificado, aparecerá “No disponible” al lado del elemento seleccionado.
3. Pulse el botón [**Instalar (** Instalar **)**] para empezar la instalación con un mensaje que indica “Instalado” al lado del elemento.
4. Pulse el botón [**Borrar (** Borrar **)**]para eliminar el certificado.

QoS

Puede especificar la prioridad para asegurar la velocidad de transferencia estándar para un IP específico.

1. En el menú de configuración, seleccione la ficha <**Network (**)>.
2. Haga clic en <**QoS**>.
3. Haga clic en el botón [**Añadir (** Añadir **)**]. Se creará la lista de IP.
4. Introduzca una dirección IP a la que vaya a aplicar QoS.



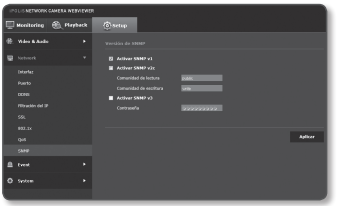
- El prefijo predeterminado para IPv4 es 32.
  Para DSCP, el valor predeterminado se define en 63.
- Sólo pueden priorizarse las direcciones IP definidas en <**Uso**>.

5. Seleccione una IP para borrarla de la lista. Haga clic en el botón [**Borrar (** Borrar **)**].
6. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

SNMP

Con los protocolos SNMP, el administrador del sistema o de red puede controlar los dispositivos de red en un sitio remoto y configurar los ajustes del entorno.

1. En el menú de configuración, seleccione la ficha <**Network (**)>.
2. Haga clic en <**SNMP**>.
3. Especifique la <**SNMP**>.
   - Activar SNMP v1 : se activará la versión 1 de SNMP.
   - Activar SNMP v2c : se activará la versión 2 de SNMP.
     - Comunidad de lectura : facilite el nombre de la comunidad de lectura en la que puede acceder a la información de SNMP. El valor predeterminado es <**public**>.
     - Comunidad de escritura : facilite el nombre de la comunidad de escritura en la que puede acceder a la información de SNMP. El valor predeterminado es <**write**>.



- Activar SNMP v3 : se activará la versión 3 de SNMP.
  - Contraseña : especifique la contraseña predeterminada para la versión 3 de SNMP. La contraseña predeterminada es <**admin4321**>.
    - La contraseña predeterminada puede estar expuesta a riesgos de piratería, por lo que recomendamos que cambie la contraseña después de instalar el producto.
      Tenga en cuenta que otros problemas que sucedan por no cambiar la contraseña será responsabilidad del usuario.
    - La contraseña debe tener entre 8 y 16 caracteres de longitud.

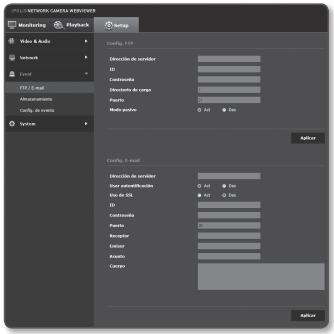
4. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

- SNMP v3 sólo puede definirse cuando el modo de conexión seguro sea HTTPS.
  Consulte "**SSL**". (página 62)

CONFIGURACIÓN DE EVENTOS

FTP / E-mail

Puede configurar los ajustes del servidor de FTP/Email de forma que pueda transferir las imágenes tomadas en la cámara al PC si se produce un evento.



1. En el menú de configuración, seleccione la ficha <**Event (** **)**>.
2. Haga clic en <**FTP / E-mail**>.
3. Seleccione <**Config. FTP**> o <**Config. E-mail**> e introduzca / seleccione el valor que desee.
   - Config. FTP
     - Dirección de servidor : introduzca la dirección IP del servidor de FTP a la que transferir las imágenes de la alarma o del evento.
     - ID : introduzca el ID de usuario con el que desea iniciar sesión en el servidor de FTP.
     - Contraseña : introduzca la contraseña de cuenta de usuario para iniciar sesión en el servidor de FTP.
     - Directorio de carga : especifique la ruta de FTP a la que va a transferir las imágenes de la alarma o del evento.

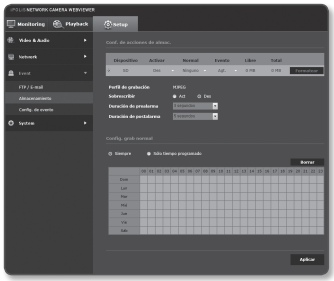
- Puerto : el puerto predeterminado del servidor de FTP es 21; no obstante, puede utilizar un número de puerto diferente según los ajustes del servidor de FTP.
- Modo pasivo : seleccione <**Act**> si tiene que conectar en modo pasivo debido al cortafuegos o a los ajustes del servidor de FTP.

• Config. E-mail
- Dirección de servidor : introduzca la dirección IP del servidor de correo electrónico a la que transferir las imágenes de la alarma o del evento.
- Usar autentificación : permite seleccionar si utilizar autorización.
- Uso de SSL : especifica el uso de SSL.
- ID : introduzca el ID de usuario para iniciar sesión en el servidor de email.
- Contraseña : introduzca la contraseña de cuenta de usuario para iniciar sesión en el servidor de email.
- Puerto : el puerto predeterminado del servidor de email es 25; no obstante, puede utilizar un número de puerto diferente según los ajustes del servidor de email.
- Receptor : introduzca la dirección del receptor de email.
- Emisor : introduzca la dirección del emisor del mensaje de correo electrónico. Si la dirección del emisor es incorrecta, es posible que el mensaje de correo del emisor lo clasifique como correo basura el servidor de email y no se envíe.
- Asunto : introduzca el asunto del email.
- Cuerpo : facilite el texto del mensaje. Adjunte las imágenes de la alarma o del evento al mensaje de correo electrónico que está preparando.

4. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

Almacenamiento

Puede definir las condiciones de grabación o el uso de la grabación para la memoria SD, compruebe el tamaño de los datos almacenados o formatee la memoria SD.



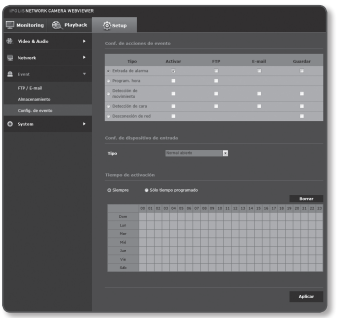
1. En el menú de configuración, seleccione la ficha <**Event (** **)**>.
2. Haga clic en <**Almacenamiento**>.

Para realizar una grabación en la memoria SD

1. Compruebe el tamaño <**Libre**> y <**Total**> de la tarjeta de memoria.
2. Si no hay espacio libre suficiente, establezca el dispositivo en <**Act**>. De lo contrario, compruebe los datos almacenados y si no los considera importantes, haga clic en <**Formatear**> para formatear la memoria SD.
   - Si la tarjeta SD graba lentamente, sólo se almacenará un fotograma por segundo.
   - En una tarjeta de memoria SD de gran capacidad, el formateo se ralentizará en consecuencia.
   - Si se configura la resolución con unos ajustes más altos, la velocidad en bits y la frecuencia de imagen aumenta la cantidad de datos generada.
     Si el tamaño de los datos, sólo se puede almacenar el vídeo transferido a 1 fps aunque defina la calidad de grabación en fotograma completos.
3. Especifique la acción de almacenamiento.
   - Perfil de grabación : muestra el tipo de códec del perfil de grabación.
   - Sobrescribir : si se llena la memoria SD, se borrarán datos antiguos y se almacenarán nuevos datos en su lugar.
   - Duración de prealarma : especifique el punto en el tiempo antes de que se produzca la alarma; las imágenes se transferirán a partir de dicho momento. puede especificar hasta 5 segundos antes de que se produzca la alarma.
   - Duración de postalarma : especifique el punto en el tiempo después de que se produzca la alarma; las imágenes se transferirán hasta dicho momento. Puede especificar hasta 120 segundos después de que se produzca la alarma.
   - Normal : realiza una grabación a una velocidad de fotogramas concreta.
   - Evento : define el tipo de grabación para un evento concreto que suceda.
4. Especifique el <**Config. grab normal**>.
   - Siempre : guarda siempre el vídeo grabado en la tarjeta de memoria SD.
     - Si se define en Siempre, no es posible cambiar la hora de activación.
   - Sólo tiempo programado : Rsolo graba durante el tiempo y el día de la semana especificados.
   - [Borrar (**Borrar**)] : reinicia todos los ajustes.
5. Una vez hecho, haga clic en [**Aplicar (** **Aplicar** **)**].

Entrada de alarma

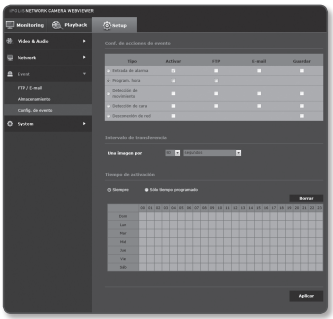
Puede definir el tipo de entrada de alarma, a hora de activación y el modo de funcionamiento.



1. En el menú de configuración, seleccione la ficha <**Event (** 🔔 **)**>.
2. Haga clic en <**Config. de evento**>.
3. Seleccione <**Entrada de alarma**> en <**Conf. de acciones de evento**>.
4. Defina o no <**Activar**>.
5. Especifique un dispositivo de entrada.
   - Tiop
     - Normal abierto : está normalmente abierta, pero si está cerrada, se activa una alarma.
     - Normal cerrado : está normalmente cerrada, pero si está abierta, se activa una alarma.
6. Especifique el <**Tiempo de activación**>.
   - Siempre : compruebe siempre se produce una alarma. Se activa en modo de funcionamiento cuando se produce una alarma.
     - Si se define en <**Siempre**>, no es posible cambiar la hora de activación.
   - Sólo tiempo programado : comprueba si se produce una alarma en el día de la semana especificado durante un período de tiempo especificado. Se activa en modo de funcionamiento cuando se produce una alarma.
   - [Borrar (**Borrar**)] : reinicia todos los ajustes.
7. Especifique una operación que se realice si se produce una alarma.
   - FTP : especifique el uso de la transferencia en FTP en la configuración de entrada de la alarma..
   - E-mail : especifique el uso de la transferencia en email en la configuración de entrada de la alarma.
   - Guardar : especifique el uso de la grabación en la configuración de entrada de la alarma.
8. Una vez hecho, haga clic en [**Aplicar (** **Aplicar** **)**].

Programación de hora

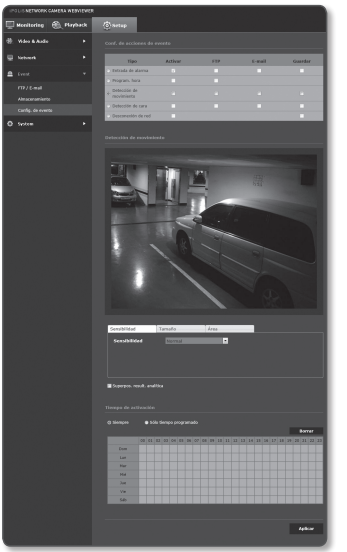
Puede definir guardar los datos de vídeo en un intervalo concreto según se haya programado independientemente de que se produzca realmente un evento.



1. En el menú de configuración, seleccione la ficha <**Event (** **)**>.
2. Haga clic en <**Config. de evento**>.
3. Seleccione <**Program. hora**> en <**Conf. de acciones de evento**>.
4. Defina o no <**Activar**>.
5. Especifique el <**Intervalo de transferencia**>.
6. Especifique el <**Tiempo de activación**>.
   - Siempre : activa siempre en modo de funcionamiento a un intervalo definido.
   - Sólo tiempo programado : activa periódicamente en modo de funcionamiento a una hora y fecha especificadas.
7. Especifique las condiciones de activación.
   - FTP : especifique el uso de la transferencia de FTP si se produce un evento.
8. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

Detección de movimiento

Los eventos de detección de movimiento se pueden establecer para activar la salida de señal de evento.



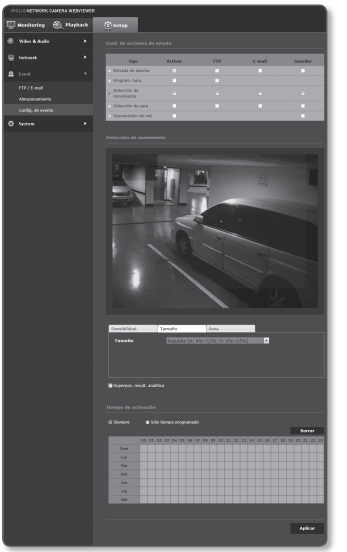
1. En el menú de configuración, seleccione la ficha <**Event (** **)**>.
2. Haga clic en <**Config. de evento**>.
3. Seleccione <**Detección de movimiento**> en <**Conf. de acciones de evento**>.
4. Defina o no <**Activar**>.
5. Establezca <**Sensibilidad**>, <**Tamaño**> y <**Área**>.
6. Establezca si utilizar <**Superpos. result. analítica**>.
   Cuando se detecta movimiento, su tamaño y posición se marca con un rectángulo en pantalla.
   - El área opaca cerca de la parte inferior se puede establecer para el área de detección de movimiento.
7. Especifique el tiempo de activación y la condición de activación.
   - Para más información sobre <**Tiempo de activación**> y <**Acción**>, consulte "**Entrada de alarma**". (página 68)
8. Una vez hecho, haga clic en [**Aplicar (** **)**].

- Antes de utilizarse, establezca los tamaños de movimiento mínimo y máximo para que se adapten al rango de movimiento deseado que se va a detectar.
- El tamaño detectado de un objeto puede diferir del tamaño real según sea su forma.
- Se pueden ver hasta 16 objetos desde el lado superior de la pantalla.
- En los siguientes casos, la función de detección de movimiento puede degradarse o causar una detección incorrecta.
  - El color o el brillo del objeto es similar al fondo.
  - Pequeñas actividades alrededor del área del borde del campo de visión de la cámara.
  - Continúan sucediendo de forma aleatoria varios movimientos debido al cambio de escena, a cambios rápidos de iluminación o a otras razones.
  - Un objeto fijo continúa moviéndose en la misma posición.
  - Movimientos con un cambio de posición menor como la aproximación a la cámara o la desaparición de la misma.
  - Un objeto en movimiento que se acerca demasiado a la cámara.
  - Un objeto se oculta tras otros objetos.
  - Dos o más objetos se superponen o un objeto se divide en varias partes.
  - Un objeto demasiado rápido (para la detección correcta, un objeto debe encontrarse solapado en fotogramas contiguos).
  - Reflejos / objetos borrosos / sombras debido a la luz potente como la luz directa del sol, la iluminación o faros.
  - Con fuertes tormentas de nieve, lluvia, viento o al amanecer / anochecer.

Para utilizar la detección de movimiento

Detecta un movimiento que cumple todas las condiciones especificadas en sensibilidad, tamaño y área.

1. Seleccione un modo de detección de movimiento.
2. Seleccione la ficha <**Sensibilidad**> para establecer el nivel de sensibilidad. Puede establecer la sensibilidad del sensor para detectar movimiento en el fondo del vídeo de la vigilancia.

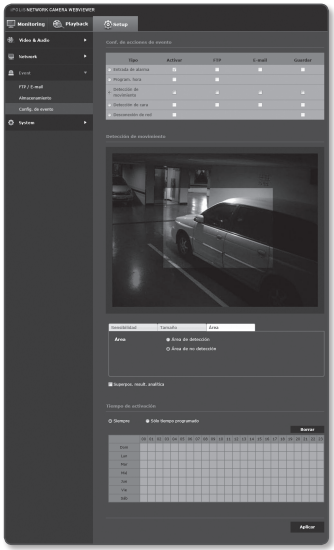


- En una situación en la que se distingan objetos en el fondo, establezca esta opción en un nivel de sensibilidad bajo. En el caso opuesto en el que resulte difícil distinguir objetos como en una situación de baja iluminación, establezca esta opción en un nivel alto.

3. Seleccione la ficha <**Tamaño**>. Puede liminar el tamaño mínimo/máximo de movimiento que se va a detectar.

- Los movimientos con un tamaño menor al mínimo especificado o mayor al máximo no se detectan. Para evitar detecciones accidentales causadas por ruidos grandes o pequeños, establezca los tamaños de movimiento máximo y mínimo aproximadamente según el entorno.
  Observe que los mismos movimientos en la misma ubicación pueden seleccionarse diferentemente en su tamaño de detección; se recomienda tener en cuenta e incluir la diferencia tolerable al ajustar los tamaños de detección mínimo y máximo.

4. Seleccione la ficha <**Área**>.
   Puede especificar en pantalla un área que incluya o excluya el área en la detección.
   Puede especificar hasta 4 áreas.
   - Área de detección: establece la pantalla completa como excluida de la detección y añade un área especificada como área de detección de movimiento. Utilice el ratón para arrastrar al área preferente especificada como el área de detección de movimiento.
   - Área de no detección: Establece toda la pantalla completa como área de detección de movimiento y excluye el área especificada para que no se detecte nada. Utilice el ratón para arrastrar al área preferente especificada como el área de no detección.
5. Para eliminar un área, haga clic con el botón secundario en la pantalla para abrir el menú contextual y seleccione Borrar y [**Aceptar**].

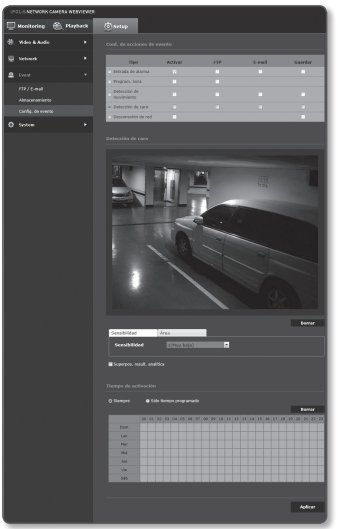


- Se eliminan todas las áreas definidas.

6. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

Detección de cara

Puede establecer detectar una cara reconocida y activar un evento en consecuencia.



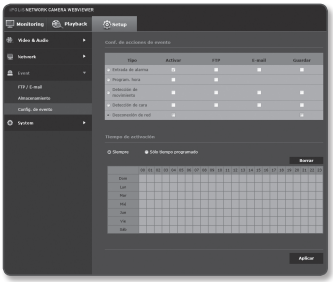
1. En el menú de configuración, seleccione la ficha <**Event (** 🔔 **)**>.
2. Haga clic en <**Config. de evento**>.
3. Seleccione <**Derección de cara**> en <**Conf. de acciones de evento**>.
4. Defina o no <**Activar**>.
5. Seleccione la ficha <**Sensibilidad**> para establecer el nivel de sensibilidad.
   - Cuanto mayor sea la sensibilidad, la detección facial será más cercana y detallada.
6. Seleccione la ficha <**Área**> y arrastre sobre la pantalla para definir el área de detección que desee. Puede especificar hasta 4 áreas de detección.

- Si la cara en pantalla se gira más de +,- 45°, es posible que la detección de movimiento no la reconozca.
- Si la pantalla está en modo de espejo, es posible que la detección de movimiento no funcione correctamente. En tales casos, desactive <**Modo Volteo**> o <**Modo espejo**> en <**Config. vídeo**>.

7. Para eliminar un área definida, haga clic en el botón [**Borrar**] mientras se selecciona la ficha Área.
8. Establezca si utilizar <**Superpos. result. analítica**>.
   Cuando se detectan las caras, sus posiciones y tamaños aparecen marcados en la pantalla con rectángulos.
9. Especifique el tiempo de activación y la condición de activación.
   - Para más información sobre <**Tiempo de activación**> y <**Acción**>, consulte "**Entrada de alarma**". (página 68)
10. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

Desconexión de red

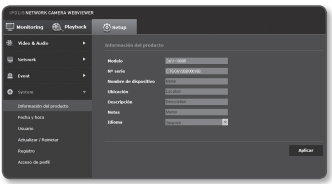
Puede recibir y guardar eventos de una red físicamente desconectada.



1. En el menú de configuración, seleccione la ficha <**Event (**)>.
2. Haga clic en <**Config. de evento**>.
3. Seleccione <**Desconexión de red**> en <**Conf. de acciones de evento**>.
4. Defina o no <**Activar**>.
5. Especifique el tiempo de activación y la condición de activación.
   - Para más información sobre <**Tiempo de activación**> y <**Acción**>, consulte "**Entrada de alarma**". (página 68)
6. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

CONFIGURACIÓN DEL SISTEMA

Información del producto

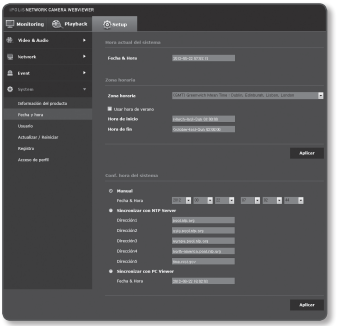


1. En el menú de configuración, seleccione la ficha <**System (**)>.
2. Haga clic en <**Información del producto**>.
3. Compruebe la información de la cámara o facilite detallas de acuerdo con el entorno de red.
   - Modelo : nombre del modelo del producto.
   - Nº serie : nº de serie del producto.
   - Nombre de dispositivo : facilite el nombre del dispositivo que aparecerá en la pantalla en directo.
   - Ubicación : especifique la ubicación en la que está instalada la cámara.
   - Descripción : facilite información detallada sobre la ubicación de la cámara.
   - Notas : facilite una explicación sobre la cámara para entender mejor la situación.
   - Idioma : Seleccione el idioma que desee para la OSD de Web Viewer.

- El idioma predeterminado se define en <**English**>.

4. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

Fecha y hora

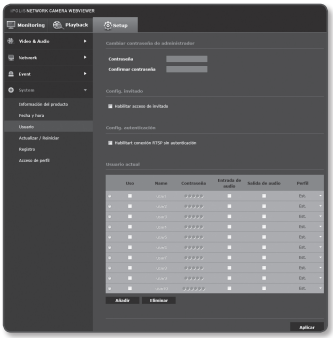


1. En el menú de configuración, seleccione la ficha <**System (** ⚙ **)**>.
2. Haga clic en <**Fecha y hora**>.
3. Especifique la fecha y hora que se aplicará a la cámara.
   - Hora actual del sistema : muestra los ajustes de hora actual del sistema.
   - Zona horaria : especifique la zona horaria local basándose en la GMT.
   - Usar hora de verano : si se marca, la hora se fijará una hora antes de la zona horaria local para el período de tiempo especificado.
     Esta opción sólo aparecerá en áreas en las que se aplica DST.
   - Conf. hora del sistema : especifique la fecha y hora que se aplicará en el sistema.
     - Manual : especifique manualmente la hora.
     - Sincronizar con NTP Server : sincronice con la hora de la dirección de servidor especificada.
     - Sincronizar con PC Viewer : sincronice la hora con el PC conectado.
4. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

- Si selecciona <**Sincronizar con PC Viewer**>, la zona horaria estándar sería la misma que la zona horaria actual del PC.

Usuario

1. En el menú de configuración, seleccione la ficha <**System (** ⚙ **)**>.
2. Haga clic en <**Usuario**>.
3. Facilite la información de usuario necesaria.
   - Cambiar contraseña de administrador : Cambia la contraseña del administrador.
     - La contraseña predeterminada puede estar expuesta a riesgos de piratería, por lo que recomendamos que cambie la contraseña después de instalar el producto.
       Tenga en cuenta que otros problemas que sucedan por no cambiar la contraseña será responsabilidad del usuario.

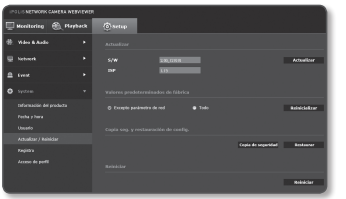


   - Config. invitado : si selecciona <**Habilitar acceso de invitado**>, la cuenta de invitado puede acceder a la pantalla de Web viewer pero sólo puede ver la pantalla de Live Viewer.
     - El ID/contraseña de la cuenta de invitado es <**guest/guest**>, y no se puede cambiar.
   - Config. autenticación : si selecciona <**Habilitar conexión RTSP sin autenticación**>, puede acceder a RTSP sin iniciar sesión y ver el vídeo.
   - Usuario actual : Si selecciona <**Uso**>, puede definir o cambiar los permisos de usuario.
     - El administrador puede establecer los permisos para entrada y salida de audio.
     - Perfil: si selecciona <**Est.**>, sólo puede ver el vídeo del perfil predeterminado; si se selecciona <**Todo**>, puede ver los vídeos completos del perfil.

- Las funciones ONVIF disponibles para un usuario registrado con autorización para utilizar dichas funciones están limitadas a los usuarios con permisos concedidos para ello.
- Transferencia de vídeo, cambio de información de vídeo : establezca el perfil en <**Todos**> y seleccione el resto según sus preferencias.

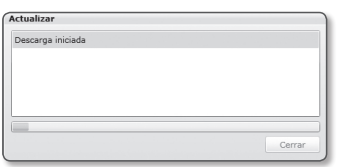
4. Una vez hecho, haga clic en [**Aplicar (** Aplicar **)**].

Actualizar / Reiniciar



1. En el menú de configuración, seleccione la ficha <**System** ( )>.
2. Haga clic en <**Actualizar / Reiniciar**>.
3. Seleccione el elemento que desee y defínalo de la forma apropiada.
   - Actualizar : realiza la actualización del sistema.
   - Valores predeterminados de fábrica : reinicia el sistema con los valores predeterminados de fábrica.
     - Excepto parámetro de red : reinicializa todos los ajustes excepto los ajustes de red.
     - Todo : reinicia todos los ajustes incluidos los ajustes de cámara. (no obstante, no se reiniciará la información de registro)
       - El sistema de dirección IP se definirá de forma predeterminada en DHCP si reinicia la cámara. Si no se encuentra el servidor DHCP, se recuperarán automáticamente los ajustes anteriores.
   - Copia seg. y restauración de config. : hace una copia de seguridad de los ajustes actuales del sistema antes de realizar el proceso de restauración. El sistema se reinicia automáticamente tras una copia de seguridad o una restauración.
   - Reiniciar : reinicia el sistema.

Para realizar la actualización

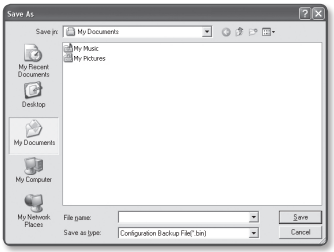


1. Haga clic en [**Actualizar**].
2. Haga clic en [**Explorar**] y especifique un archivo para la actualización.
3. Haga clic en [**Enviar**].
4. Aparece el cuadro de diálogo "**Actualizar**" con la progresión en la parte inferior.
5. Una vez completada la actualización, el explorador se cierra y se reinicia la cámara.

- Es posible que el proceso de actualización tarde hasta 20 minutos.
  Si termina a la fuerza el proceso de actualización, la actualización no se completará debidamente.
- Durante el reinicio del sistema, no se realizará el acceso con Web Viewer.
- Puede descargar la versión más reciente desde el sitio Web de Samsung (www.samsungcctv.com).

Para hacer una copia de los ajustes actuales

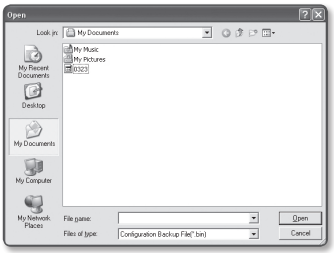
1. Haga clic en [**Copia de segurida**].
   Debe aparecer el diálogo de Guardar como.
2. Especifique la ruta con un nombre de archivo adecuado y haga clic en [**Save**].
   El archivo de copia de seguridad se guardará en la ruta especificada con el formato "**.bin**".



Para restaurar los ajustes de la copia de seguridad

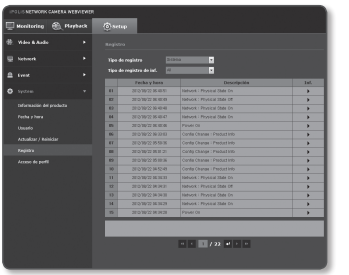
1. Para restaurar los ajustes de copia de seguridad, haga clic en [**Restaurar**].
2. Seleccione el archivo de copia de seguridad que desee y haga clic en [**Open**].

- Si realiza la copia de seguridad o la restauración, el explorador web se cerrará y la cámara se reiniciará.



Registro

Puede comprobar el registro del sistema o el registro de eventos.

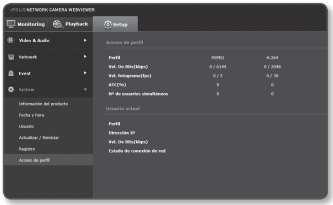


1. En el menú de configuración, seleccione la ficha <**System** ( )>.
2. Haga clic en <**Registro**>.
3. Seleccione un tipo de registro.
   - Sistema : puede comprobar los registros del sistema en los casos en los que se graben cambios del sistema incluida la información de hora.
   - Evento : puede comprobar los registros de eventos incluida la información de hora.
4. En la lista de registros de la derecha, seleccione un elemento que buscar.
   - Si seleccione <**All**> en la lista desplegable de la parte superior izquierda, aparecerán todos los registros del tipo de registro aplicable.
5. Si en una página no se puede mostrar todos los registros disponibles, utilice los botones inferiores para desplazarse al elemento anterior, siguiente o al último.

- Si desea ver los detalles de un registro, haga clic en [**Inf.** ( )] en la columna derecha del registro; la información de registro se mostrará en el panel inferior.
- Cada página muestra 15 registros con el más reciente en la parte superior.
- La lista del registro de eventos/sistema puede contener hasta 1000 registros; pasado este número, los registros más antiguos se borrarán para dar entrada a los nuevos registros creados.

Acceso de perfil

Puede comprobar la información del perfil.



1. En el menú de configuración, seleccione la ficha <**System ( )**>.
2. Haga clic en <**Acceso de perfil**>.
   - Acceso de perfil: muestra información del perfil recién añadido.
     - Perfil: muestra información del códec recién añadido.
     - Vel. De Bits(kbps): muestra la velocidad de bits real y la velocidad de bits definida.
     - Vel. fotograma(fps): muestra la velocidad de fotogramas real y la velocidad de fotogramas definida.
     - ATC(%): muestra el estado de ATC.
     - Nº de usuarios simultáneos: muestra el número de usuarios simultáneos que acceden al perfil.
   - Usuario actual: Muestra información sobre los usuarios que acceden a Web Viewer y ven el vídeo de vigilancia.
     - Perfil: muestra el nombre del perfil al que ha accedido el usuario.
     - Dirección IP: muestra la dirección IP del usuario actual.
     - Vel. De Bits(kbps): muestra la velocidad de bits actual.
     - Estado de conexión de red: puede comprobar el estado de la conexión de red.

- Para comprobar información sobre el perfil usado, haga clic de nuevo en <**Acceso de perfil**> para actualizarlo.

ESPECIFICACIONES

Opciones		Descripción
Vídeo	Dispositivo de imágenes	CMOS PS de 1/4 pulg.
	Píxeles totales	680(H) x 512(V)
	EPíxeles efectivos	640(H) x 480(V)
	Sistema de barrido	Progresivo
	Iluminación mín.	Color: 0,7 Lux (F1.2, 50IRE) B/N: 0 Lux (F1.2, 50IRE, LED IR ENC.)
	Índice S/N	50dB
	Salida de vídeo	Conector DIP, para instalación
Objetivo	Longitud focal (índice de zoom)	Varifocal 2,2~7,7 mm (3.5x)
	Coeficiente de apertura máx.	F1,2
	Campo de visión angular	H: 94° (W) ~ 26.5° (T), V: 70° (W) ~ 20° (T)
	Distancia mín. del objeto	500 mm
	Control de enfoque	-
	Vel. de movimiento de zoom	-
	Tipo de objetivo	Autom. DC
	Tipo montaje	Tipo de placa (Ø14)

Opciones		Descripción
Panorámica / Inclinación / Giro	Alcance de panorámica	0°~352°
	Velocidad de panorámica	-
	Rango de inclinación	17°~90°
	Velocidad de inclinación	-
	Rango de giro	0°~351°
	Pos. predet.	-
	Precisión de pos. predet.	-
	Tracking autom.	-
Funcionamiento	LED de infrarrojos	12 ea
	Longitud visualizable	15m
	Título de cámara	No / Sí (Se muestran 15 caracteres)
	Día y noche	Autom. (ICR) / Color / ByN / BN Externo
	Compensación de luz de fondo	No / BLC
	Rango dinámico amplio	-
	Mejora de contraste	SSDR (Samsung Super Dynamic Range) (No / Sí)
	Reducción de ruido digital	SSNRIII (Filtro de ruido 2D+3D) (No / Sí)
	Estabilizador digital de imágenes	-
	Detección de movimiento	No / Sí (4 zonas programables)
	Máscara de privacidad	No / Sí (32ea 4 puntos poligonales)
	Ampl. sensib. (integración de cuadro)	No / Autom. (x2~x60)
	Control de ganancia	No / Bajo / Medio / Alto
	Balance de blanco	ATW / AWC / Manual / Interior / Exterior

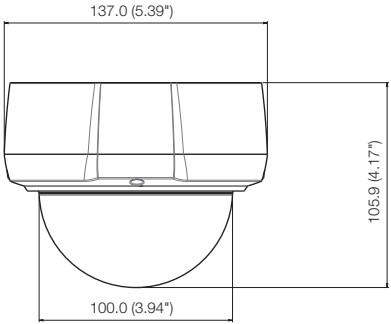
Opciones		Descripción
Funcionamiento	Velocidad de obturador electrónico	ESC / A.FLK / Manual (1/30~1/12000 s)
	Zoom digital	-
	Volteo / Espejo	No / Sí
	Análisis de vídeo inteligente	Detección de cara
	E/S alarma	1 entrada digital
	Interfaz de control remoto	-
	Protocolo RS-485	-
	Se activa la alarma	Detección de movimiento, Entrada de sensor, Desconexión de red
	Evento de alarma	• Subida de archivo a través de FTP, E-Mail • Notificación a través de e-mail, TCP • grabación de almacenamiento local (SD/SDHC) con red desconectada
Red	Ethernet	RJ-45 (10/100BASE-T)
	Formato de compresión de vídeo	H.264, MJPEG
	Resolución	<H.264> 4:3 Mode : 640x480 / 320x240 / 160x120 <MJPEG> 4:3 Mode : 640x480 / 320x240 / 160x120
	Velo. máx. de fotogramas	Máx 30 fps en todas las resoluciones
	Ajuste de calidad de vídeo	H.264 : Nivel de compresión, Control de nivel de vel. de bits de destino MJPEG : Control de nivel de calidad
	Método de control de vel. de bits	H.264 : CBR o VBR MJPEG : VBR
	Capacidad de flujo de datos	Flujo de datos múltiple (hasta 10 perfiles)
	E/S de audio	Micrófono / Entrada de línea, Salida de línea
	Formato de compresión de audio	G.711 μ-law
	Comunicación de audio	Bidireccional

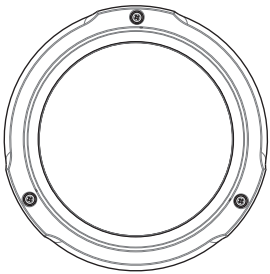
Opciones		Descripción
Red	IP	IPv4, IPv6
	Protocolo	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS
	Seguridad	Autenticación de inicio de sesión HTTPS(SSL) Autenticación de inicio de sesión Digest Filtro de dirección IP Registro de acceso de usuarios Método de autenticación 802.1X
	Método de flujo de datos	Unicast / Multicast
	Acceso máx. de usuarios	10 usuarios en modo Unicast
	Ranura de memoria	Ranura de memoria Micro SD/SDHC
	Compatibilidad ONVIF	Sí
	Idioma de página web	Inglés, Francés, Alemán, Español, Italiano, Chino, Coreano, Ruso, Japonés, Sueco, Danés, Portugués, Checo, Polaco, Turco, Rumano, Serbio, Holandés, Croata, Húngaro, Griego, Finlandia, Noruega
	Visor Web	SO admitido : Windows XP / VISTA / 7, MAC OS Navegador admitido : Internet Explorer 7.0 o superior, Firefox, Chrome, Safari
	Software de gestión central	NET-i viewer

Opciones		Descripción
Ambiental	Temperatura/humedad de funcionamiento	-10°C ~ +55°C (+14°F ~ +131°F) / 20% ~ 80% de HR
	Protección de ingreso	Grado IP66 (Estanco)
Eléctrico	Tensión / corriente de entrada	12 V CC, PoE(IEEE802.3af)
	Consumo de energía	Máx. 5,9W (12 V CC), Máx. 6,2W (PoE)
Mecánico	Color / Material	Marfil, Aluminio
	Dimensiones (Ø x Al)	Ø 137,0 x Al 105,9 mm
	Peso	788 g

VISTA DEL PRODUCTO

Unidad : mm (pulg.)





SOLUCIÓN DE PROBLEMAS

PROBLEMA	SOLUCIÓN
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 router, 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 puede conectar al sistema meditante un navegador de Internet Explorer 7.0.	• Cuando intente conectar al sistema mediante un navegador, se comparte la misma información de cookies, resultando en errores cuando se conecta. Por ello, en lugar de usar un navegador, abra una nueva ventana de navegador para conectarse al sistema.
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 cámeras 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
<Detección de movimiento> de <Config. de evento> se establece en <Activar>, pero no me llega ninguna notificación mediante correo electrónico incluso aunque se produzca un 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 <Conf. de acciones de evento> está marcada para ser utilizada.
No se puede grabar en la tarjeta de memoria SD.	• Compruebe si la tarjeta de memoria está defectuosa. • Compruebe si la lengüeta de protección contra escritura de la tarjeta de memoria está definida en “LOCK”.
La tarjeta de memoria 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 <Setup> ➞ <Event> ➞ <Almacenamiento>.
No se puede formatear la tarjeta de memoria SD.	• Compruebe si la lengüeta de protección contra escritura de la tarjeta de memoria está definida en “LOCK”.

Open Source Announcement

GPL/LGPL software license

The software included in this product contains copyrighted software that is licensed under the GPL/LGPL. You may obtain the complete Corresponding Source code from us for a period of three years after our last shipment of this product by sending email to help.cctv@samsung.com

If you want to obtain the complete Corresponding Source code in the physical medium such as CD-ROM, the cost of physically performing source distribution might be charged.

- GPL S/W
  - Base Kernel, Busybox, Sysvinit, dosfstools, DSP-SW-package
- LGPL S/W
  - gLibc, Inetutils

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

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