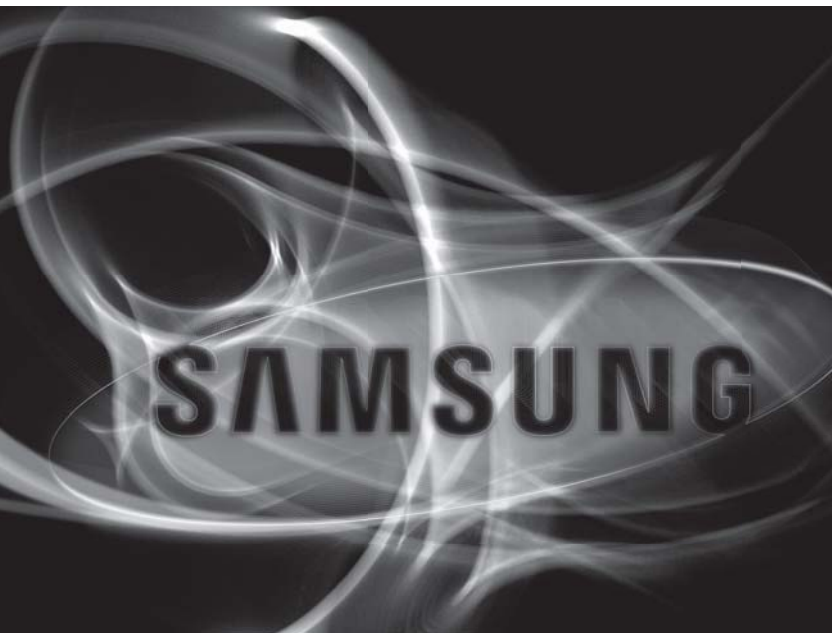


SAMSUNG TECHWIN

CODIFICADOR DE RED DE 4CANALES (TIPO MODULAR)

Manual del usuario

SPE-400B



CODIFICADOR DE RED DE 4CANALES (TIPO MODULAR)

Manual del usuario

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- Si el sistema se comporta de forma anormal porque ejecuta un programa irrelevante para el sistema operativo.
- Pérdida de rendimiento o recursos agotados de forma natural en el procesamiento del tiempo

INSTRUCCIONES DE SEGURIDAD IMPORTANTES

1. Lea estas instrucciones.
2. Consérvelas.
3. Atente para todas las advertencias.
4. Siga todas las instrucciones.
5. No utilice este aparato cerca del agua.
6. Límpielo únicamente con un paño seco.
7. No obstruya ninguna apertura de ventilación. Instale el aparato siguiendo las instrucciones del fabricante.
8. No lo instale cerca de ninguna fuente de calor como radiadores, focos de calor o cualquier otro aparato (incluidos los amplificadores) que emita calor.
9. No olvide que la finalidad de los enchufes polarizados o de toma a tierra es proporcionarle seguridad. Un enchufe polarizado tiene dos clavijas, una más ancha que la otra. Un enchufe con toma a tierra tiene dos clavijas y una tercera de toma a tierra. Tanto la clavija más ancha, en el caso del enchufe polarizado, como la clavija adicional, en el caso del enchufe con toma a tierra, tienen como objetivo aportarle seguridad. Si el enchufe del aparato no encaja en su toma de corriente, póngase en contacto con un electricista para cambiar la toma de corriente obsoleta.
10. Evite pisar o doblar el cable de alimentación. Ponga especial cuidado para no hacerlo en enchufes, tomas de corriente y en los puntos en los que salen desde el aparato.
11. Utilice únicamente los dispositivos y accesorios especificados por el fabricante.
12. Utilice sólo las mesitas con ruedas, soportes, trípodes o mesas recomendadas por el fabricante o vendidas con el aparato. Cuando se utilice una mesita con ruedas, tenga cuidado al mover la mesita con ruedas junto con el aparato para evitar daños por vuelco.
13. Desenchufe este aparato durante tormentas eléctricas o cuando no se utilice durante largos períodos de tiempo.
14. Remita todas las reparaciones a personal de mantenimiento cualificado. Es necesario enviar el aparato para su reparación cuando ha sufrido cualquier tipo de daño, como, por ejemplo, que el cable o el enchufe de la alimentación está dañado, se han derramado líquidos sobre el aparato o algún objeto ha caído sobre él, el aparato ha sido expuesto a la lluvia o a humedad, no funciona correctamente o se ha caído al suelo.



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.

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.

Colocar una pila incorrecta en el aparato puede provocar una explosión.

Por lo tanto, debe utilizar el mismo tipo de pila que la que está ya en el aparato.

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.

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**

Este codificador de red puede mostrar simultáneamente vídeos en diferentes resoluciones y calidades utilizando CÓDECS diferentes.



- No obstante, el vídeo MPEG-4 no se puede reproducir en una página Web. Utilice el software CMS para reproducir vídeo en una página Web.

- **Soporte de varios protocolos de comunicación**

- **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 email especificado por el usuario o la señal del evento se enviará al puerto de salida de alarma.

- **Compatibilidad con ONVIF (Spec 1.01)**

Este producto admite las especificaciones principales de ONVIF. 1. 01.

Para más información, consulte www.onvif.org.



Driving network video through global standardization

CARACTERÍSTICAS RECOMENDADAS DEL ORDENADOR

- CPU : Intel(R) Core(TM)2 2.00 GHz o superior
- Sistema operativo : Windows XP, VISTA, 7
Mac OS
- Resolución : 1280X1024 pixeles o superior
- RAM : 1GB o superior
- Navegador Web : Internet Explorer 7.0 o superior, Firefox, Chrome, Safari
- Memoria de Vídeo : 128MB o superior

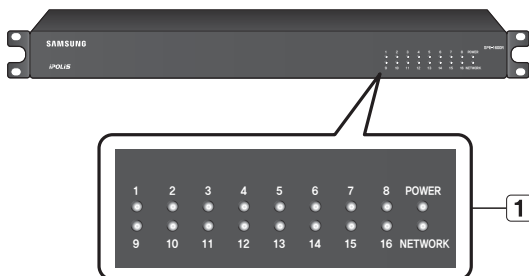
COMPONENTES

Compruebe si el codificador de red y los accesorios se incluyen en el paquete del producto.

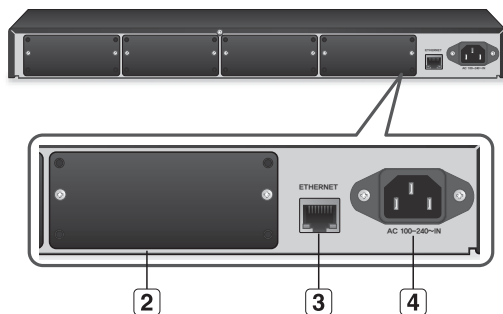
Aspecto	Nombre de elemento	Cantidad	Descripción
	Manual del usuario, CD de software del instalador	1	
	CMS S/W DVD	1	
	Manual de consulta rápida	1	
	Bloque de terminales	1	Se utiliza para la conexión de RS-485 o del cable de la alarma.
	TORNILLO DE MONTAJE de rosca cortante	2	Se utiliza para fijar el módulo (SPE-400B) en el bastidor

TERMINAL

SPE-1600R Lado frontal



SPE-1600R Lado trasero



- El módulo SPE-1600R se vende por separado (no se suministra).

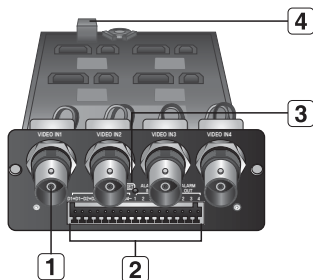
descripción

Elemento		Descripción
1 Indicador de conexión de red de cada canal, indicador de alimentación y red	1~16	Los canales conectados a la red tendrán en indicador verde intermitente con el estado de conexión de red.
	NETWORK	Una vez hecha la conexión de red, parpadea en un color diferente de acuerdo con el estado de la conexión. Verde : parpadea en verde cuando está conectado a Ethernet 1000 Base-T. Amarillo : parpadea en amarillo cuando está conectado a Ethernet 10/100 Base-T.
	POWER	ENC. : mientras la unidad está encendida APAG. : si la unidad está apagada
2 Ranura para el módulo (SPE-400B)	Ranura para montar el módulo (SPE-400B). Los números de ranura son del 1 al 4, empezando por la izquierda. Una vez instalado el módulo (SPE-400B), se asignará una IP en orden numérico.	
3 Puerto Red	Se utiliza para conectar el cable o LAN.	
4 Puerto de Alimentación	Se utiliza para conectar la fuente de alimentación especificada.	



- Para una transmisión de vídeo constante, se recomienda instalar el entorno Ethernet 1000 Base-T.

Módulo (SPE-400B)



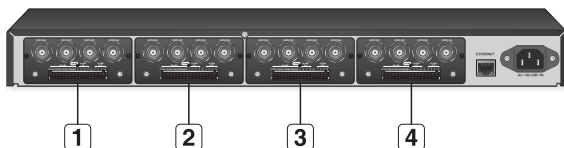
Elemento		Descripción
1	VIDEO IN (CH 1~CH 4)	Se utiliza para conectar la señal de entrada de vídeo BNC.
2	D+ (1~4)	Línea de datos RS-485
	D- (1~4)	Línea de datos RS-485
	ALARM IN (1~4)	Puerto de entrada de alarma (sensor)
	G	GND
	ALARM OUT (1~4)	Salida de alarma Puerto
3	Botón de reinicialización	Reinicia los ajustes del codificador de red con los valores predeterminados. Manténgalo pulsado durante 5 segundos para apagar el indicador del sistema y reiniciar el sistema. ! Si reinicia el codificador de red, 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. ■ Para más información, sobre los ajustes IP, consulte "Configuración de red". (página 42)
4	Puerto del conector del bastidor	Se utiliza para conectar el módulo (SPE-400B) al bastidor.

COMPROBACIÓN DE IP

Como ajuste predeterminado de fábrica, la IP de cada módulo (SPE-400B) se define en "192.168.1.100~103".

Si utiliza IP INSTALLER para comprobar las IP tras insertar los 4 módulos (SPE-400B), es posible que detecte una IP redundante.

En este caso, utilice IP INSTALLER para cambiar manualmente la IP o mantenga pulsado el botón <RESET> del panel posterior durante 5 segundos para corregir la asignación de IP en orden numérico.



Nº de ranura	IP inicial	IP tras pulsar <RESET>
1	192.168.1.100~103	192.168.1.100~103
2	192.168.1.100~103	192.168.1.104~107
3	192.168.1.100~103	192.168.1.108~111
4	192.168.1.100~103	192.168.1.112~115

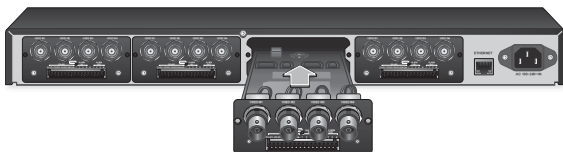
INSTALACIÓN

Para instalar el módulo (SPE-400B)

1. Afloje los tornillos de ambos lados de la cubierta del compartimento del módulo (SPE-400B) para SPE-1600R.



2. Coloque el módulo (SPE-400B) en ambas líneas deslizantes como se muestra e insértelo en la dirección de la flecha.

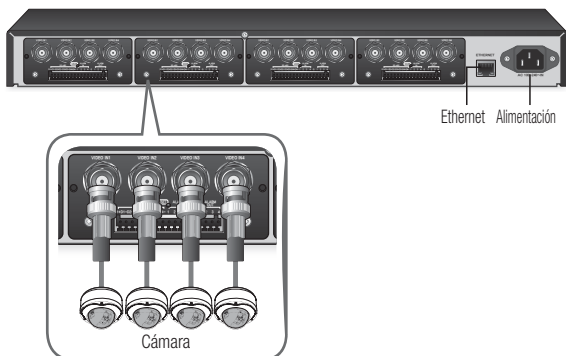


3. Inserte el módulo (SPE-400B) hasta introducirlo en el conector del bastidor y apriete los tornillos.



instalación y conexión

CONEXIÓN CON OTROS DISPOSITIVOS



- El módulo SPE-1600R se vende por separado (no se suministra).

Conexión de la cámara

Conecte el puerto **[VIDEO IN]** del codificador de red al puerto de salida de vídeo de la cámara.

Conexión Ethernet

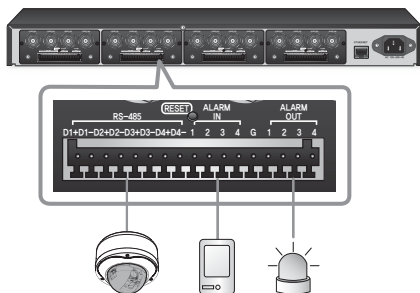
Conecte el cable Ethernet a la red local o a Internet.

Alimentación eléctrica

Conecte el cable de alimentación.

Conexión de puertos de RS-485 y Entr./Sal. de alarma

Conecte los cables de RS-485 y E/S de alarma a los puertos de E/S apropiados del panel trasero.



Terminal	Descripción	Terminal	Descripción
D+(1~4)	Línea de datos RS-485	D-(1~4)	Línea de datos RS-485
ALARM IN (1~4)	Puerto de entrada de alarma (sensor)	ALARM OUT (1~4)	Salida de alarma
G	GND		

Conexión del dispositivo RS-485

Conecte el dispositivo externo a los puertos [RS-485 D+, D-].

No puede instalar y controlar la cámara PTZ que posibilita la comunicación RS-485.

- Dependiendo del tipo de cámara, la paridad de la conexión puede ser diferente.
Para obtener información adicional, consulte la documentación de la cámara PTZ correspondiente.

Conexión a la entrada de alarma

Conecte un cable de señales (de los 2) del sensor aplicable al puerto [ALARM IN], y el otro al puerto [G].



- Debe utilizar los puertos de E/S de alarma RS-485 específicos para cada canal.

instalación y conexión

Conexión de ALARM OUT

El sistema de salida de alarma es un tipo de colector abierto diseñado para utilizar un relé externo.

El valor de potencia nominal máximo es de +24 VCC, 100 mA.

Diagrama de cableado de E/S de alarma



- Para controlar la alimentación con los contactos eléctricos, se necesita un circuito aparte.
- Añada los circuitos de relé externos necesarios.
- Al añadir un circuito de relé externo, debe instalar los diodos en paralelo para proteger el circuito de contra sobrevoltaje.

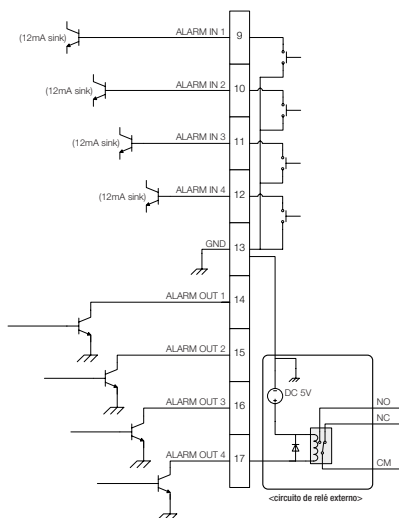


Tabla de puertos de E/S de canal

	RS-485	ALARM IN	ALARM OUT		RS-485	ALARM IN	ALARM OUT
CH 1	D1+, D1-	1, G	1, G	CH 3	D3+, D3-	3, G	3, G
CH 2	D2+, D2-	2, G	2, G	CH 4	D4+, D4-	4, G	4, G

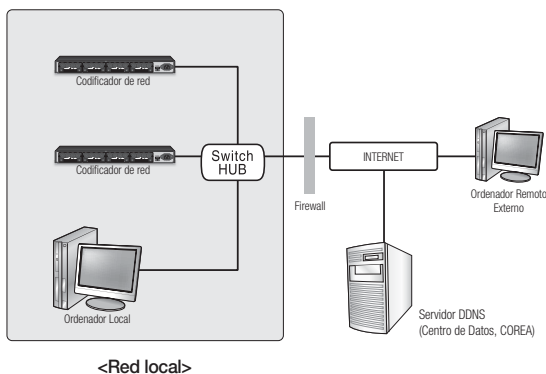
conexión y configuración de la red

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

CONEXIÓN DEL CODIFICADOR DE RED DIRECTAMENTE A LA RED DE ÁREA LOCAL

Conexión al codificador de red desde un PC local en la LAN

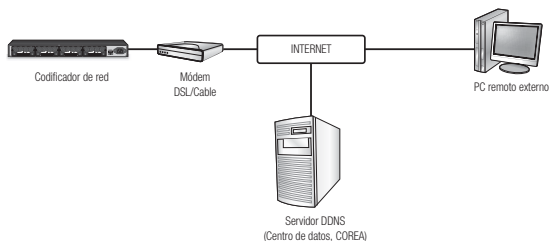
1. Abrir un navegador de Internet en su ordenador local.
2. Introduzca la dirección IP del codificador de red en la barra de direcciones del navegador.
 - Para obtener información sobre la IP predeterminada del codificador de red, consulte "Comprobación de IP". (página14)



- Un PC remoto en una Internet externa a la red LAN es posible que no pueda conectar al codificador de red instalado en la intranet si el reenvío de puertos no se configura correctamente o si existe 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 192.168.1.100~103. Para obtener más detalles sobre el uso de Instalador IP, consulte "Configuración de IP estática". (página 24)

conexión y configuración de la red

CONEXIÓN DEL CODIFICADOR DE RED DIRECTAMENTE A UN MÓDEM DSL/DE CABLE BASADO EN DHCP

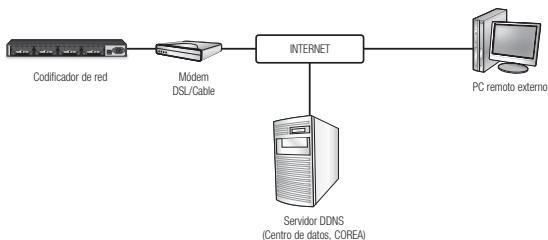


1. Conecte directamente el codificador de red al ordenador del usuario utilizando un cable cruzado.
2. Ejecute IP Installer (Instalador IP) y cambie la dirección IP del codificador de red correspondiente a una a la que se pueda acceder utilizando el navegador de Internet desde el ordenador del usuario.
3. Acceda al codificador de red utilizando el navegador de Internet.
4. Vaya a la página **[Configuración]**.
5. Vaya a **[Red]** – **[DDNS]** y configure los ajustes de DDNS.
6. Vaya a **[Red]** – **[Interfaz]** y defina el tipo de red en **[DHCP]**.
7. Desconecte el codificador de red del ordenador del usuario y conéctelo directamente al módem.
8. Reinicie el codificador de red.



- Para registrar los ajustes de DDNS, consulte **"Registro con DDNS"**. (página 44)
- Para configurar los ajustes de DDNS, consulte **"DDNS"**. (página 43)
- Para definir el tipo de red, consulte **"Interfaz"**. (página 42)

CONEXIÓN DEL CODIFICADOR DE RED DIRECTAMENTE A UN MÓDEM PPPoE



1. Conecte directamente el codificador de red al ordenador del usuario utilizando un cable cruzado.
2. Ejecute Instalador IP y cambie la dirección IP del codificador de red correspondiente a una a la que se pueda acceder utilizando el navegador de Internet desde el ordenador del usuario.
3. Acceda al codificador de red utilizando el navegador de Internet.
4. Vaya a la página **[Configuración]**.
5. Vaya a **[Red]** – **[DDNS]** y configure los ajustes de DDNS.
6. Vaya a **[Red]** – **[Interfaz]** y defina el tipo de red en **[PPPoE]**.
7. Desconecte el codificador de red del ordenador del usuario y conéctelo directamente al módem.
8. Reinicie el codificador de red.

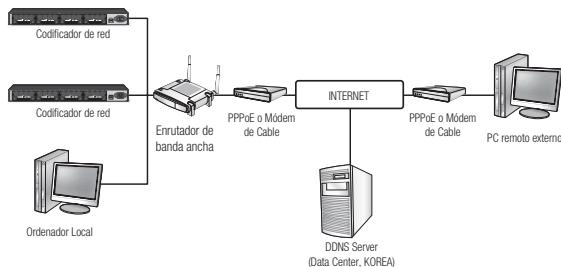


- Para registrar los ajustes de DDNS, consulte **"Registro con DDNS"**. (página 44)
- Para configurar los ajustes de DDNS, consulte **"DDNS"**. (página 43)
- Para definir el tipo de red, consulte **"Interfaz"**. (página 42)

conexión y configuración de la red

CONEXIÓN DEL CODIFICADOR DE RED A UN ENRUTADOR DE BANDA ANCHA CON EL MÓDEM PPPoE/DE 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

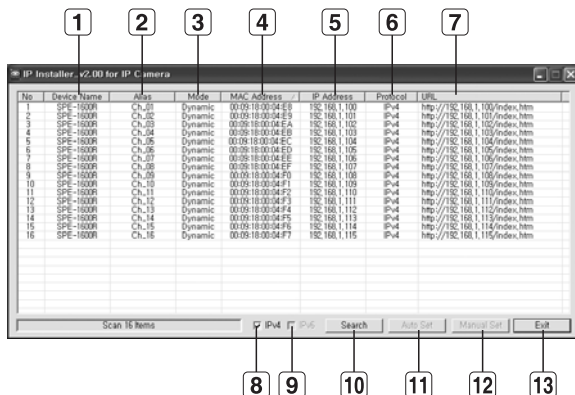
Configure la configuración de red del ordenador local conectado a un Enrutador de banda ancha, siga las instrucciones siguientes.

- 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 (IP de LAN) 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 (IP de LAN) 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 (IP de LAN) 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.
- Consulte la sección “Configuración de reenvío del rango de puertos (Asignación de puertos)” de la documentación del enrutador de banda ancha. (Página 29)

BOTONES UTILIZADOS EN IP INSTALLER



Elemento	Descripción
1 Device Name	Muestra el nombre del modelo del codificador de red conectado. 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	Muestra el nombre del dispositivo conectado. (Página 53) No obstante, si el nombre de dispositivo es el <Nombre> predeterminado, aparecerá en su lugar la información del canal del codificador.
3 Mode	Muestra <Static> o <Dynamic> para el estado de conexión de red.
4 MAC(Ethernet) Address	Muestra la dirección Ethernet del codificador de red conectado. 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. El valor predeterminado es "192.168.1.100~103" .
6 Protocol	Muestra el ajuste del protocolo de red del codificador de red conectado. De forma predeterminada, se define en "IPv4" de fábrica. Si un codificador de red se define en IPv6, muestra "IPv6".

conexión y configuración de la red

Elemento	Descripción
7 URL	La dirección URL de DDNS que permite acceder desde Internet externa. No obstante, se sustituirá por la <Dirección IP> del codificador de red si ha fallado el registro de DDNS.
8 IPv4	Busca los codificadores de red de IPv4.
9 IPv6	Busca los codificadores de red de IPv6 Activado en un entorno compatible con IPv6.
10 Search	Busca los codificadores de red conectados a la red actual. No obstante, este botón aparecerá atenuado si no se marca ni IPv4 ni IPv6.
11 Auto Set	IP Installer configura automáticamente los ajustes de red.
12 Manual Set	Debe configurar manualmente los ajustes de red.
13 Exit	Salida del programa IP Installer.



- Para IP installer, utilice sólo la versión que se facilita en el CD de instalación o utilice la última versión si está disponible. Puede descargar la versión más reciente en el sitio web de los productos.

CONFIGURACIÓN DE IP ESTÁTICA

Configuración de red manual

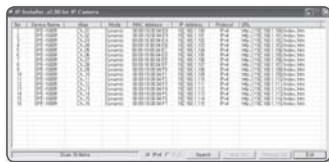
Ejecute el programa <IP Installer_vX.XX.exe> para mostrar la lista de búsqueda del codificador de red.

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



- Utilice IP Installer de la versión 2,00 o posterior.
- El botón se desactiva para los codificadores de red IPv6 buscados que no admitan esta función.

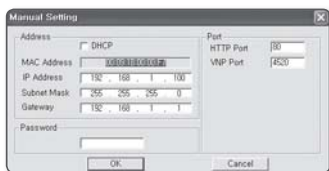
1. Seleccione el codificador de red que desee en la lista de resultados de la búsqueda.
Compruebe la dirección MAC (Ethernet) del codificador de red seleccionado, impresa en su parte trasera.
Se activarán los botones [Auto Set] y [Manual Set].



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> del codificador de red.

3. En el panel <Address>, facilite la información necesaria.

- MAC (Ethernet) Address : la dirección MAC (Ethernet) del codificador de red aplicable se definirán automáticamente de forma que no tendrá que introducirla manualmente.



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 : utilice el valor <Subnet Mask> usado por el Enrutador de banda ancha para el ajuste <Subnet Mask> del codificador de red.
- Gateway : utilice <Local IP Address> del enrutador IP para el ajuste <Gateway> del codificador de red.



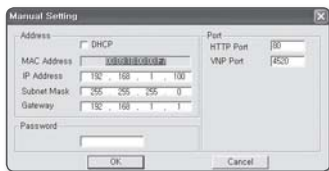
- Es posible que los ajustes difieran dependiendo del modelo de Enrutador de banda ancha conectado. Para obtener información adicional, consulte el manual de usuario del enrutador aplicable.
- Consulte la sección “Configuración de reenvío del rango de puertos (Asignación de puertos)” de la documentación del enrutador de banda ancha. (Página 29)

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 : utilice el número de puerto HTTP para acceder al codificador de red utilizando el navegador de Internet, el valor predeterminado es 80. Utilice el botón de flechas para cambiar el valor de HTTP Port.
- 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 al codificador de red. La contraseña inicial es “4321”.

conexión y configuración de la red

6. Haga clic en [OK].

La configuración manual de la red queda completada.

Si dos o más codificadores de red están conectados al Enrutador de banda ancha

Defina de forma diferente los campos relacionados con la dirección IP y el puerto de los codificadores de red.

ej.)

Categoría	Ajustes relacionados con IP	Ajustes relacionados con el puerto
	IP Address / Subnet Mask / Gateway	HTTP Port / VNP Port
CH 1	192.168.1.100 / 255.255.255.0 / 192.168.1.1	8080 / 4520
CH 2	192.168.1.101 / 255.255.255.0 / 192.168.1.1	8081 / 4521
CH 3	192.168.1.102 / 255.255.255.0 / 192.168.1.1	8082 / 4522
CH 4	192.168.1.103 / 255.255.255.0 / 192.168.1.1	8083 / 4523
CH 5	192.168.1.104 / 255.255.255.0 / 192.168.1.1	8084 / 4524
CH 6	192.168.1.105 / 255.255.255.0 / 192.168.1.1	8085 / 4525
CH 7	192.168.1.106 / 255.255.255.0 / 192.168.1.1	8086 / 4526
CH 8	192.168.1.107 / 255.255.255.0 / 192.168.1.1	8087 / 4527
CH 9	192.168.1.108 / 255.255.255.0 / 192.168.1.1	8088 / 4528
CH 10	192.168.1.109 / 255.255.255.0 / 192.168.1.1	8089 / 4529
CH 11	192.168.1.110 / 255.255.255.0 / 192.168.1.1	8090 / 4530
CH 12	192.168.1.111 / 255.255.255.0 / 192.168.1.1	8091 / 4531
CH 13	192.168.1.112 / 255.255.255.0 / 192.168.1.1	8092 / 4532
CH 14	192.168.1.113 / 255.255.255.0 / 192.168.1.1	8093 / 4533
CH 15	192.168.1.114 / 255.255.255.0 / 192.168.1.1	8094 / 4534
CH 16	192.168.1.115 / 255.255.255.0 / 192.168.1.1	8095 / 4535



- Para un acceso apropiado al codificador de red, el número de <Port> utilizado debe seguir a la dirección al introducir la dirección en el campo de URL del navegador de Internet si se configura para utilizar el número de <HTTP Port> que no sea 80.

ej.) http://Dirección IP : HTTP Port

http://192.168.1.100:8080

Configuración automática de red

Ejecute el programa <IP Installer_vX.XX.exe> para mostrar la lista de búsqueda del codificador de red.

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

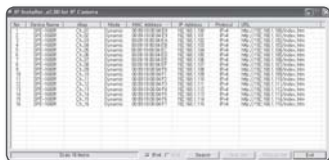


- Utilice IP Installer de la versión 2,00 o posterior.
- El botón se desactiva para los codificadores de red IPv6 buscados que no admitan esta función.

1. Seleccione el codificador de red que desee en la lista de resultados de la búsqueda.

Compruebe la dirección MAC (Ethernet) del codificador de red seleccionado, impresa en su parte trasera.

Se activarán los botones [Auto Set] y [Manual Set].



2. Haga clic en [Auto Set].

Aparece el diálogo Auto Setting.

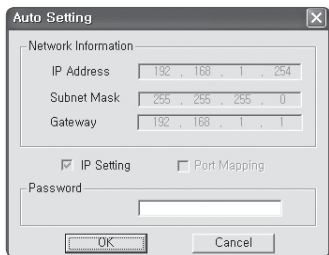
Se definirán automáticamente <IP Address>, <Subnet Mask> y <Gateway>.

3. Introduzca la contraseña.

Introduzca la contraseña de la cuenta "admin" utilizada para acceder al codificador de red. La contraseña inicial es "4321".

4. Haga clic en [OK].

La configuración automática de la red queda completada.



conexión y configuración de la red

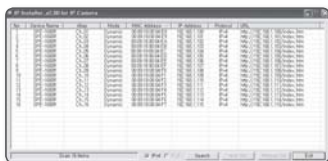
CONFIGURACIÓN DE IP DINÁMICA

Configuración del entorno de IP dinámica

- Ejemplo de entorno de IP dinámica
 - Si está conectado un enrutador de banda ancha con los codificadores de red, se asigna una dirección IP mediante el servidor DHCP
 - Cuando el codificador de red está directamente instalado en un módem contratando DHCP
 - Si las IP se asignan mediante el servidor DHCP interno a través de la LAN

Comprobación de la IP dinámica

1. Ejecute Instalador IP en la máquina local del usuario para mostrar los codificadores de red que tienen asignadas direcciones con <Dynamic IP> en la lista.
2. Seleccione un codificador de red en la lista de resultados de búsqueda, y haga clic en el botón **[Manual Set]** para comprobar la dirección de <Dynamic IP> asignada al codificador de red.
Si quita la marca de selección de <DHCP>, cambia IP o <Port> a <Static>.



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

Si el codificador de red está instalado en un Enrutador de banda ancha, se necesita el ajuste de reenvío de puerto del Enrutador de banda ancha para permitir el acceso al codificador de red desde un ordenador configurado fuera de la red del Enrutador de banda ancha.

Reenvío manual del rango de puertos

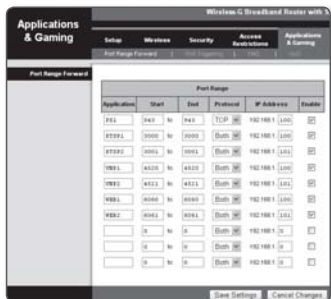
1. En el menú de configuración del Enrutador de banda ancha, seleccione **<Applications & Gaming>** - **<Port Range Forward>**.

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 codificador de red conectado al Enrutador de banda ancha.

Cada uno de los ajustes del número de puerto del Enrutador de banda ancha debe coincidir con el del codificador de red, especificado en los ajustes de **<Red>**-**<Puerto>**.

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 (Modelo: LINKSYS).
- 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.

Reenvío de puertos para el codificador de red

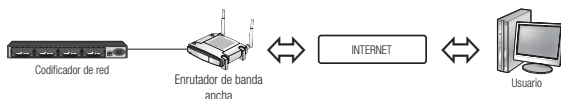
Si el codificador de red (SPE-1600R) está conectado al enrutador, debe definir el reenvío de puertos de cualquier canal del codificador de red (SPE-1600R) al puerto TCP nº 943. Si está conectado al SPE-1600R con los 4 MÓDULOS (SPE-400B) instalados, debe crear 16 direcciones IP y definir el reenvío de puertos para cada uno de ellos.



- Si no define correctamente el puerto TCP 943 del enrutador, no podrá obtener ninguna secuencia de video en la página Web del codificador de red.
- El puerto TCP 943 es un puerto para el servidor de política Silverlight de un codificador de red.
- Puede definir una regla de reenvío de puertos en el dispositivo Enrutador de banda ancha a través de su página Web de configuración.
- No es posible cambiar el puerto del servidor de política Silverlight de un codificador de red.
- Los números de puerto que no sean el puerto del servidor de política se pueden personalizar en la página de ajustes del codificador de red.

conexión y configuración de la red

ej.) Si el codificador de red (SPE-1600R) está conectado al enrutador



Enrutador de banda ancha			
Start	End	Protocol	IP Address
943	943	TCP	192.168.1.100
3000	3000	TCP/UDP	192.168.1.100
3001	3001	TCP/UDP	192.168.1.101
3002	3002	TCP/UDP	192.168.1.102
3003	3003	TCP/UDP	192.168.1.103
⋮	⋮	⋮	⋮

3013	3013	TCP/UDP	192.168.1.113
3014	3014	TCP/UDP	192.168.1.114
3015	3015	TCP/UDP	192.168.1.115
4520	4520	TCP/UDP	192.168.1.100
4521	4521	TCP/UDP	192.168.1.101
4522	4522	TCP/UDP	192.168.1.102
4523	4523	TCP/UDP	192.168.1.103
⋮	⋮	⋮	⋮

4533	4523	TCP/UDP	192.168.1.113
4534	4534	TCP/UDP	192.168.1.114
4535	4535	TCP/UDP	192.168.1.115
8080	8080	TCP/UDP	192.168.1.100
8081	8081	TCP/UDP	192.168.1.101
8082	8082	TCP/UDP	192.168.1.102
⋮	⋮	⋮	⋮

8093	8093	TCP/UDP	192.168.1.113
8094	8094	TCP/UDP	192.168.1.114
8095	8095	TCP/UDP	192.168.1.115

CH 1 (192.168.1.100)	
Puerto servidor Web	8080
Puerto VNP	4520
Puerto RTSP	3000
Puerto de servidor de política	943

CH 2 (192.168.1.101)	
Puerto servidor Web	8081
Puerto VNP	4521
Puerto RTSP	3001
Puerto de servidor de política	943

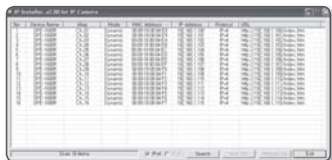
CH 3 (192.168.1.102)	
Puerto servidor Web	8082
Puerto VNP	4522
Puerto RTSP	3002
Puerto de servidor de política	943

⋮

CH 16 (192.168.1.115)	
Puerto servidor Web	8095
Puerto VNP	4535
Puerto RTSP	3015
Puerto de servidor de política	943

CONEXIÓN AL CODIFICADOR DE RED DESDE UN PC LOCAL COMPARTIDO

1. Instalador IP.
Rastreará los codificadores de red conectados y mostrará una lista de ellas.
2. Haga doble clic en el codificador de red que se va a conectar.
El navegador de Internet se abre y accede al codificador de red.



- Puede acceder al codificador de red introduciendo su dirección IP en el campo de la dirección del navegador de Internet.

CONEXIÓN AL CODIFICADOR DE RED DESDE UN PC REMOTO A TRAVÉS DE INTERNET

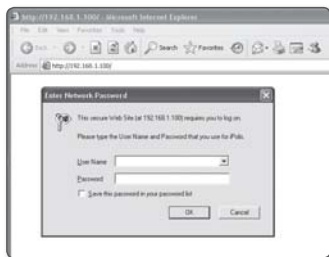
Debido a que no se permite utilizar Instalador IP en un ordenador remoto que no se encuentre en un grupo de red del enrutador de banda ancha, los usuarios pueden acceder a los codificadores de red dentro de una red del enrutador de banda ancha utilizando el URL de DDNS del codificador de red.

1. Si el codificador de red está instalado en un Enrutador de banda ancha, se necesita el ajuste de reenvío de puerto del Enrutador de banda ancha para permitir el acceso al codificador de red desde un ordenador configurado fuera de la red del Enrutador de banda ancha.
2. Para acceder al codificador de red desde un ordenador remoto utilizando el navegador de Internet, introduzca el URL de DDNS del codificador de red o la dirección IP del Enrutador de banda ancha en el campo de dirección del navegador.
ej.) [http://www.samsungipolis.com/\[Dominio del producto\]](http://www.samsungipolis.com/[Dominio del producto])

CONEXIÓN AL CODIFICADOR DE RED

Procedimiento normal

1. Inicie el explorador de Internet.
2. Introduzca la dirección IP del codificador de red en el campo de dirección.
ej.) • Dirección IP (IPv4) : 192.168.1.100
→ http://192.168.1.100
- Debe aparecer el diálogo de inicio de sesión.
• Dirección IP (IPv6) : 2001:0230:abcd:ffff:0000:0000:ffff:1111
→ http://[2001:230:abcd:ffff:0000:ffff:1111]
- Debe aparecer el diálogo de inicio de sesión.



Si el número de puerto HTTP no es 80

1. Inicie el explorador de Internet.
2. Introduzca la dirección IP del codificador de red y el número de puerto HTTP en el campo de dirección.
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 la dirección URL de DDNS del codificador de red en el campo de dirección.
ej.) Dirección URL : http://www.samsungipolis.com/[Dominio del producto]
- Debe aparecer el diálogo de inicio de sesión.

Para comprobar la dirección de DDNS

Si el codificador de red está conectado directamente a un módem de cable/DSL/PPPoE DHCP, el proveedor de servicios de Internet puede asignar de forma diferente la IP dinámica en todas las pruebas de conexión.

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 añadir la dirección IP al servidor <DDNS>, visite www.samsungipolis.com y registre su dispositivo, y defina la opción DDNS en <DDNS de Samsung> antes de facilitar el ID de usuario para el servidor DDNS.

INICIO DE SESIÓN

El ID predeterminado de usuario es “**admin**” y la contraseña es “**4321**”.

1. Introduzca “**admin**” en el cuadro de entrada <User Name>.
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.



-  ■ Por razones de seguridad, asegúrese de cambiar la contraseña en <Sistema> - <Usuario>. La ID del administrador, “**admin**”, es fija y no es posible cambiarla.
- Si marca la opción “**Save this password in your password list**” una vez realizada la entrada, la próxima vez se iniciará sesión automáticamente sin que se le pida introducir la información de inicio de sesión.
-  ■ Si está utilizando Internet Explorer 7.0 o 8.0 como el explorador Web predeterminado, puede ver la mejor calidad de imagen con una relación de pantalla del 100%. Si se reduce la relación existe el riesgo de cortar la imagen en los bordes.

Este codificador de red adopta Silverlight de Microsoft para la visualización de vídeo.

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.

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 Runtime. **<Install now>** para continuar con la instalación.



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



6. Cierre y reinicie el navegador Web e intente acceder a Web Viewer. Una vez instalado correctamente Silverlight Runtime, verá la pantalla en directo.

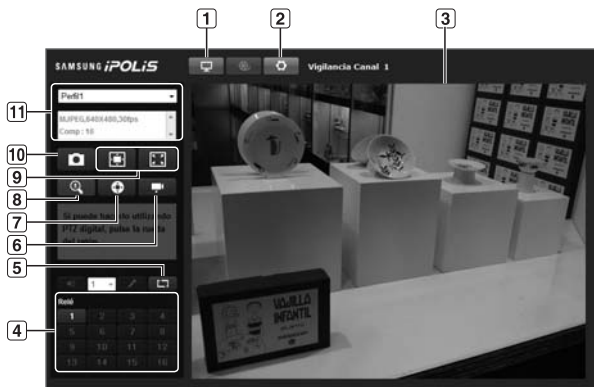


- Para una instalación normal, defina el ajuste de Block Popup de la siguiente forma:

ej.) **Internet Explorer → Herramientas → Bloqueador de elementos emergentes → Desactivar el bloqueador de elementos emergentes (A)**

- Sin embargo, los usuarios de MAC OS X que no están conectados a Internet pueden utilizar el CD de instalación facilitado para instalar Silverlight Runtime (Ejecute el archivo "Silverlight_xxx.dmg" del CD. Se le guiará por la instalación del software).

UTILIZACIÓN DE LA PANTALLA EN DIRECTO



Elemento	Descripción
1 Vigilancia	Va a la pantalla de supervisión.
2 CONFIGURACIÓN	Va a la pantalla de configuración.
3 Pantalla del visor	Muestra en pantalla el vídeo en directo.
4 Salida de alarma	Activa el puerto de salida de la alarma.
5 Ocultar el indicador de alarma	Oculta el indicador de alarma cerca del borde de la pantalla del visor.
6 Menú Cámara	Se utiliza para recuperar y personalizar el menú de configuración de la cámara conectada. Para seleccionar y guardar cada opción del menú, consulte "Uso del menú Cámara". (página 37)
7 PTZ	Puede controlar la Panorámica/Inclinación/Zoom de las cámaras que están conectadas al codificador de red.
8 PTZ DIGITAL	Puede utilizar la rueda del ratón para activar el zoom digital.

Elemento	Descripción
9 Optimización de pantalla, pantalla completa	Ajuste la pantalla a su tamaño óptimo y muestre el icono de pantalla completa en la pantalla en directo.
10 Captura	Guarda la instantánea como un archivo de imagen en formato .bmp.
11 Formato de vídeo	Puede seleccionar un tipo de perfil en <Perfil de vídeo> bajo el menú de configuración <Vídeo>. ☒ Para los usuarios de IE 6.0, pulse el botón Examinar situado al lado del cuadro de diálogo <Perfil de vídeo> y seleccione de nuevo un tipo de perfil si no se reproduce el perfil seleccionado. ☒ Si aparece el mensaje "Códec no válido", seleccione de nuevo un tipo de perfil en la lista de perfiles.



- Si la temperatura cae por debajo del rango de funcionamiento, es posible que no se genere ninguna señal de vídeo. En tales casos, espere a que aparezca el vídeo.

USO DEL MENÚ CÁMARA

Se utiliza para recuperar y personalizar el menú de configuración de la cámara conectada.

1. Inicie Web Viewer.
2. Haga clic en **[Menú de cámara ()]** en la esquina izquierda de la pantalla en directo.
Aparece el menú de configuración de cámara.
3. Haga clic en el botón arriba/abajo (▲/▼) para ir a la opción que desee.
4. Haga clic en **[Intro ()]**. A continuación, utilice el botón arriba/abajo (▲/▼) para ir a la opción que desee.
5. Para acceder a una opción del submenú, haga clic en **[Intro ()]**.
6. Para ir al menú anterior o salir del menú de configuración, haga clic en el botón **[Cancelar ()]**.

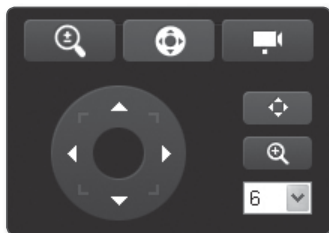


- Es menú de cámara puede ser diferente dependiendo de la cámara. Para obtener información adicional, consulte el manual de usuario de la cámara.

Para controlar la función PTZ

Puede controlar la cámara conectada que admita las funciones PTZ si está conectada al codificador de red.

- Si la función PTZ no es controlable, compruebe el estado de conexión de RS-485 de la cámara y el codificador de red (página 17).
- Compruebe si se han definido correctamente tanto la cámara conectada como el protocolo. (Página 41.)

1. Pulse el botón **[PTZ (A dark-themed PTZ control interface. At the top are three buttons: a magnifying glass with a plus sign (zoom in), a camera icon (PTZ), and a monitor icon. Below these is a large circular directional pad with four arrows (up, down, left, right) and a central button. To the right of the pad are two more buttons: a square with four arrows pointing outwards (reset) and a magnifying glass with a plus sign (zoom in). At the bottom right is a numeric display showing '6' and a dropdown arrow.**

Para capturar la instantánea

1. Haga clic en **[A small icon of a hand with the index finger pointing, indicating a click action.**

- Si está utilizando IE8 como el navegador Web predeterminado, seleccione **"Herramientas-Opciones de Internet-Seguridad"** y quite la marca de selección de **"Usar modo protegido"**.



Para ocupar la pantalla completa

1. Haga clic en el botón **[Pantalla completa (

38_ web viewer**

pantalla de configuración

CONFIGURACIÓN

Puede definir los ajustes predeterminados de vídeo, red, evento y sistema del codificador de red en la red.

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

CONFIGURACIÓN DE VÍDEO

Perfil de Vídeo

1. En el menú de configuración, seleccione la ficha **<Vídeo ()>**.
 2. Haga clic en **<Perfil de vídeo>**.
 3. Seleccione el número de **<Perfil de vídeo>**.
 4. 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. : éste es el perfil de vídeo predeterminado.
 - Perfil de vel. fotogr. fija : fija la velocidad de fotogramas del perfil seleccionado independientemente de los ajustes de los otros perfiles.
 - Perfil de E-mail / FTP : el perfil de vídeo que se va a transferir al e-mail o sitio FTP.
 - Sólo el códec Motion JPEG se puede definir como perfil de email/FTP.
5. Una vez hecho, haga clic en **[Aplicar ()]**.



pantalla de configuración

Para añadir un perfil de vídeo

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

1. Seleccione un número de perfil.
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.
 - Resolución : define el tamaño de vídeo de los archivos MPEG-4, H.264 y Motion JPEG .
 - Vel. fotograma : especifica la velocidad de fotogramas.
 - Compresión : especifica la velocidad de compresión del vídeo.
 - 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.
 - Velocidad de bits de destino : especifica la velocidad de bits a la que transferirá el vídeo.
 - Prioridad de codificación : puede definir el método de transferencia de vídeo en Vel. fotograma o Compresión.
 - Tamaño de GOP : seleccione un tamaño de GOP entre 1 y 15.
 - Perfil : puede seleccionar el método de perfiles H.264.
 - Codif. Entropía : reduce posibles pérdidas de compresión debido a la codificación.
 - Multicast(VNP) : especifica el uso del protocolo VNP.
 - IPv4 : 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 VNP.
 - Multicast(RTP) : permite especificar el uso del protocolo RTP.
 - IPv4 : 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.

¿Qué es el tamaño de GOP?

GOP (del inglés Group of Pictures, grupo de imágenes) es un conjunto de fotogramas de vídeo para compresión MPEG-4 y H.264, que indican un conjunto de fotogramas existentes entre el I-Frame inicial (fotograma principal) y el siguiente I-Frame. GOP 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 definir entre 1 y 15 para el CÓDEC de MPEG-4 y H.264.

Conf. PTZ

Puede activar el zoom y definir el ajuste predefinido de zoom como desee.

1. Seleccione la ficha <Video () > en el menú de configuración.
2. Haga clic en <Conf. PTZ>.
3. Defina la posición predefinida y el puerto serie.



- Configuración de predefinidos : seleccione un número entre 255 y haga clic en el botón Mover para ajustar la cámara en el ángulo definido mediante la posición predefinida seleccionada. No obstante, puede especificar hasta 128 posiciones predefinidas para protocolos SAMSUNG-E.
 - La cámara conectada debe configurarse para permitir la comunicación del puerto serie.
 - Configuración serie : Puede definir el modo de comunicaciones RS-485 de la cámara conectada.
 - La cámara y el dispositivo se conectan a través de los puertos de comunicaciones RS-485.
 - La cámara no funcionará correctamente si los ajustes relacionados con las comunicaciones de la cámara conectada son incorrectos.
 - Se admiten los protocolos SAMSUNG-T/E y Pelco-P/D.
4. Una vez hecho, haga clic en [Aplicar ()].

Para añadir una posición predefinida

1. Seleccione el número de posición predefinida que va a añadir.
2. Defina el nombre de la posición predefinida.
3. Pulse el botón [Añadir ()].

Para suprimir una posición predefinida

1. Seleccione el número de posición predefinida que va a añadir.
2. Pulse el botón [Borrar ()].

Para mover la posición predefinida

1. Seleccione el número de posición predefinida que va a mover.
2. Pulse el botón [Mover ()].

CONFIGURACIÓN RED

Interfaz

1. En el menú de configuración, seleccione la ficha <Red ()>
2. Haga clic en <Interfaz>.
3. Defina <Interfaz> y <Config. IPv6> según sea necesario.
 - 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).
 - Uso de IPv6 : especifica el uso de IPv6.
 - Mode : si selecciona <uso de ipv6>, el modo se activa.
 - Dirección de IPv6 : obtiene la dirección IPv6 para acceder a la red IPv6.
4. Una vez hecho, haga clic en [Aplicar ()].



- La asignación de la dirección IP recupera el valor predeterminado de DHCP. Enseguida, si deja de detectar el servidor DHCP después de 1 minuto, la dirección vuelve automáticamente al ajuste anterior.

Puerto

1. En el menú de configuración, seleccione la ficha <Red ()>.
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 : El número de puerto HTTP que se utiliza para acceder al codificador de red utilizando un navegador Web. El valor predeterminado es 80 (TCP).
 - Puerto VNP : 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 Visor : se utiliza para transferir vídeos en Web Viewer; el valor predeterminado es 4520.
 - El rango de puertos de Viewer se encuentra entre 4502 y 4532. Si el puerto VNP se encuentra en este rango efectivo, el puerto Viewer debe especificarse de igual forma que el puerto VNP.
 - Puerto Silverlight policy : Silverlight se utiliza para poder adquirir una conexión de red; el valor predeterminado es 943.
 - No puede cambiar el puerto del servidor de política de servidor/Silverlight de una cámara.
4. Una vez hecho, haga clic en [Aplicar ()].



DDNS

Servicio dinámico de nombres de dominio, que sustituye la dirección IP que se utiliza para acceder al codificador de red con un nombre de host general para poder recordarlo fácilmente.

1. En el menú de configuración, seleccione la ficha <Red ()>.
2. Haga clic en <DDNS>.
3. Seleccione <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.



pantalla de configuración

- DDNS público : Seleccione uno de los servidores DDNS públicos que se facilitan cuando utilice un servidor DDNS público.
 - Nombre de host : introduzca el nombre del host (es decir, nombre de host de DynDNS) registrado en el servidor DDNS.
 - Nombre de usuario : introduzca el nombre de usuario del servicio DDNS. (es decir, ID de usuario registrado con DynDNS)
 - Contraseña : introduzca la contraseña del servicio DDNS. (es decir, contraseña registrada con DynDNS)

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

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 dominio del producto.

- Debe realizar una comprobación doble del dominio 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 Samsung en la configuración del codificador de red

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



Configuración de DDNS público en los ajustes del codificador de red

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 ()]**.
Si la conexión se establece correctamente, aparece **<(Correcto)>**.
4. Una vez completada toda la configuración, haga clic en **[Aplicar ()]**.

pantalla de configuración

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 <Red ()>.
2. Haga clic en <Filtración del IP>.
3. Seleccione un <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. Facilite la IP a la que desee otorgar o denegar el acceso. Para IPv4, la dirección IP predeterminada es 0.0.0.0, y el prefijo predeterminado es 32.
5. Select desired IP address to be approved or rejected from the entered IP addresses. Sólo se filtran las IP seleccionadas.
6. Una vez hecho, haga clic en [Aplicar ()].



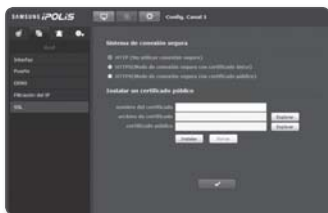
SSL

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

1. En el menú de configuración, seleccione la ficha <Red ()>.
2. Haga clic en <SSL>.
3. Seleccione un sistema de conexión seguro.
 - Para acceder al codificador de red a través del protocolo HTTPS, introduzca su dirección IP con el formato "https://<Codificador de red_IP>".
4. Busque y registre el certificado acreditado que se va a instalar en el codificador de red.

Para instalar el certificado en el codificador de red, debe introducirse el nombre del certificado (definible por el usuario), el archivo de certificado emitido por un organismo de certificación y su archivo de 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 ()].



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 ()]**.

Eliminación del certificado

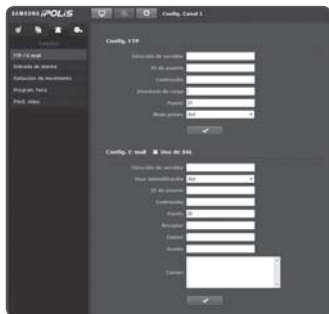
1. Haga clic en el botón **[Borrar ()]**.

CONFIGURACIÓN DE EVENTOS

FTP / E-mail

Se puede asignar que el servidor de FTP/Email transfiera una imagen almacenada en el dispositivo de almacenamiento del codificador de red cuando se produce una alarma o un evento.

1. En el menú de configuración, seleccione la ficha **<Evento ()>**.
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.
 - ID de usuario : 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.
 - 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.



pantalla de configuración

- Config. E-mail
 - Uso de SSL : marque esta opción si se usa el servidor de correo electrónico con SSL.
ej.) : Google
 - Dirección de servidor : introduzca la dirección IP del servidor de email que utilizará para transferir el email.
ej.) SMTP. hotmail. com
 - Usar autenticación : permite seleccionar si utilizar autorización.
 - ID de usuario : 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 al email que está preparando.

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

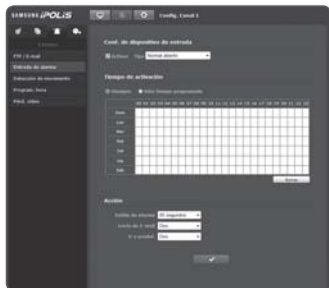
Entrada de alarma

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 <Evento ()>.
2. Haga clic en <Entrada de alarma>.

Para definir una entrada de alarma

1. Defina <Conf. de dispositivo de entrada> en <Activar>.
2. Especifique el <Tipo>.
 - Tipo
 - 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.
3. Especifique el <Tiempo de activación>.
 - Siempre : compruebe siempre se produce una alarma. Se activa en modo de funcionamiento cuando se produce una alarma.
 - 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.
4. Especifique una operación que se realice si se produce una alarma.
 - Salida de alarma : especifique la hora de salida de la alarma en la configuración de entrada de la alarma.
 - Envío de E-mail : especifique el uso de la transferencia en email en la configuración de entrada de la alarma.
 - Ir a predef. : va a la posición predefinida especificada al definir la entrada de alarma.
5. Una vez hecho, haga clic en [Aplicar ()].



pantalla de configuración

Detección de movimiento

Puede definir la región de detección y el movimiento, así como la salida de la señal de alarma.

1. En el menú de configuración, seleccione la ficha <Evento ()>.
2. Haga clic en <Detección de movimiento>.

Para definir la detección de movimiento

1. Defina <Detección de movimiento> en <Activar>.
2. Especifique el <Sensibilidad>.
 - Sensibilidad : define el nivel de sensibilidad de la detección de movimiento.
 - 1: BAJO, 2: MEDIO, 3: ALTO
3. Especifique el tiempo de activación y la condición de activación.
 - Para más información sobre <Tiempo de activación> y <Acción>, consulte "Entrada de alarma". (página 49)
4. Seleccione si mostrar la zona privada. Para establecer una zona privada, arrastre con el ratón el área deseada. Detección de movimiento se active en el ajuste de área de máscara.
Para borrar una zona establecida, haga clic en el botón [Borrar ()].
5. Una vez hecho, haga clic en [Aplicar ()].



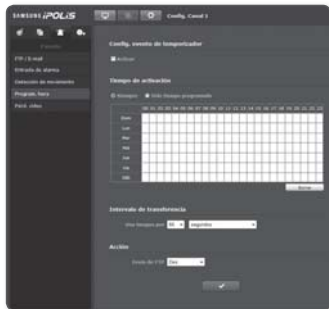
Program. hora

Puede configurar de tal forma que se produzca un evento a la hora programada independientemente de la aparición real del evento.

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

Para definir el evento de temporizador

1. Defina **<Config. evento de temporizador>** en **<Activar>**.
2. 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.
3. Especifique el **<Intervalo de transferencia>**.
4. Especifique las condiciones de activación.
 - Envío de FTP : especifique el uso de la transferencia de FTP si se produce un evento.
5. Una vez hecho, haga clic en **[Aplicar ()]**.



pantalla de configuración

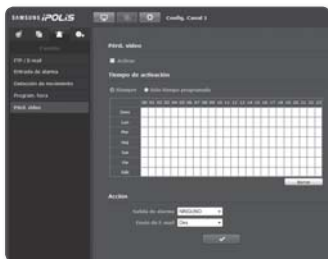
Pérd. vídeo

Puede definir la alarma que se va a generar si se produce la desconexión de una cámara y que produzca una pérdida de vídeo.

1. En el menú de configuración, seleccione la ficha <Evento ()>.
2. Haga clic en <Pérd. vídeo>.

Para definir la pérdida de vídeo

1. Defina <Pérd. Vídeo> en <Activar>.
2. Especifique el tiempo de activación y la condición de activación.
 - Para más información sobre <Tiempo de activación> y <Acción>, consulte "Entrada de alarma". (página 49)
3. Una vez hecho, haga clic en [Aplicar ()].



CONFIGURACIÓN DEL SISTEMA

Información del producto

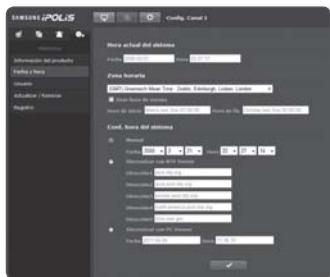
1. En el menú de configuración, seleccione la ficha <Sistema ()>.
2. Haga clic en <Información del producto>.
3. Compruebe la información del codificador de red o proporcione una descripción detallada que defina el entorno de instalación.
 - Nombre de dispositivo : facilite el nombre del dispositivo que aparecerá en la pantalla en directo.
 - Ubicación : introduzca la ubicación en la que está instalado el codificador de red.
 - Descripción : introduzca la información detallada que describe la ubicación en la que está instalado el codificador de red.
 - Notas : Facilite una explicación sobre el codificador de red para entender mejor la situación.
 - Idioma : seleccione el idioma del menú del codificador de red y de Web Viewer.
4. Una vez hecho, haga clic en [Aplicar ()].

 ■ La información relacionada con el producto sólo existe en inglés.



Fecha y hora

1. En el menú de configuración, seleccione la ficha <Sistema ()>.
 2. Haga clic en <Fecha y hora>.
 3. Ajuste la hora del codificador de red.
 - 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.



pantalla de configuración

- 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 ()]**.



- Si se selecciona **<Sincronizar con PC Viewer>**, la zona horaria estándar del codificador de red debe coincidir con la del PC.
- El ajuste de hora de cada uno de los 4 canales debe especificarse por separado. Si desea realizar la sincronización de hora, seleccione NTP o PC Sync (Sincr. hora).

Usuario

1. En el menú de configuración, seleccione la ficha **<Sistema ()>**.
2. Haga clic en **<Usuario>**.
3. Facilite la información de usuario necesaria.
 - Cambiar contraseña de administrador : cambia la contraseña actual del administrador.
 - Config. invitado : Si se activa **<Acceso de invitado>**, cualquier invitado puede acceder a la pantalla de Web Viewer pero puede ver sólo la pantalla del visor en directo.
 - Usuario actual : puede cambiar la información de usuario y ajustar el nivel de permiso de un usuario que esté definido en **<Activar>**.
 - Vídeo : puede seleccionar un perfil de vídeo en la pantalla de Live Viewer.
 - Controles : Puede controlar el menú del codificador de red, PTZ y los botones de alarma.
4. Una vez hecho, haga clic en **[Aplicar ()]**.



Actualizar / Reiniciar

1. En el menú de configuración, seleccione la ficha <**Sistema** ()>.
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
 - Valores predeterminados de fábrica :
 - Excepto parámetro de red : reinicia el resto de ajustes excepto los ajustes de interfaz/puerto/DDNS/filtro IP.
 - Todo : inicializa con los ajustes de fábrica todos los ajustes del codificador de red incluidas las configuraciones.(no obstante, no se reiniciará la información de registro)
 - Si reinicia el codificador de red, 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.
 - 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.
4. Una vez hecho, haga clic en [**Reiniciar** ()].

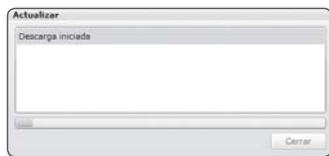


Para realizar la actualización

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.



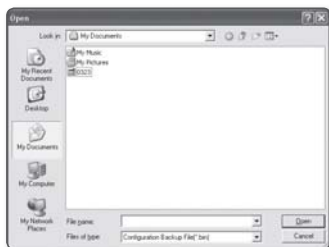
- Si termina a la fuerza el proceso de actualización, la actualización no se completará debidamente.



pantalla de configuración

Para guardar los ajustes actuales y restaurar los ajustes de copia de seguridad

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



Registro

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

1. En el menú de configuración, seleccione la ficha <Sistema ()>.

2. Haga clic en <Registro>.

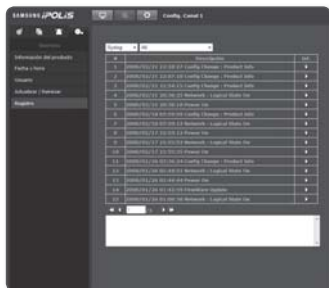
3. Seleccione un tipo de registro.

- Syslog : puede comprobar los registros del sistema en los casos en los que se graben cambios del sistema incluida la información de hora.
- Evtlog : 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.

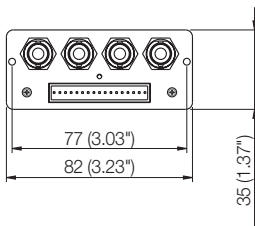
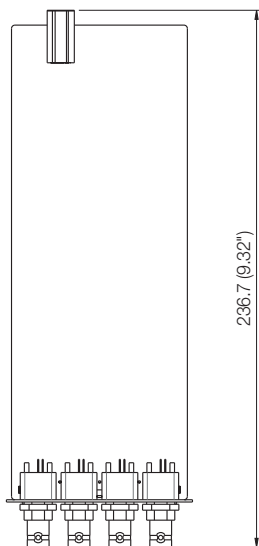
ESPECIFICACIONES

Opciones		Descripción
Funcionamiento	Entrada de vídeo	4CVBS : 1.0Vp-p / 75Ω compuesto, Detecc. Autom. de NTSC/PAL
	Salida de vídeo	-
	Filtro de interlazado	Integrated
	Pérd. vídeo	Evento de disparo
	E/S alarma	Entrada 4ea / Salida 4ea
	Interfaz de control remoto	4 Puerto RS-485 (Half Duplex)
	Protocolo RS-485	SAMSUNG-T/E, PELCO-P/D
Red	Ethernet	1000BASE-T
	Formato de compresión de vídeo	H.264, MPEG-4, Motion JPEG
	Resolución	NTSC : 704x480, 640x480, 352x240, 320x240 PAL : 704x576, 640x480, 352x288, 320x240
	Velo. máx. de fotogramas	NTSC : 30fps (Por canal en) / PAL : 25fps (Por canal en)
	Ajuste de calidad de vídeo	H.264 / MPEG-4 : Nivel de compresión, Control de nivel de vel. de bits de destino Motion JPEG : Control de nivel de calidad
	Método de control de vel. de bits	H.264/MPEG-4 : CBR o VBR Motion JPEG : VBR
	Capacidad de flujo de datos	Flujo de datos múltiple (hasta 10 perfiles)
	E/S de audio	-
	Formato de compresión de audio	-
	Comunicación de audio	-
	IP	IPv4, IPv6

Opciones		Descripción
Red	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, ONVIF
	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 flujo de datos	Unicast / Multicast
	Acceso máx. de usuarios	10 usuarios en modo Unicast
	Ranura de memoria	-
	Compatibilidad ONVIF	Sí
	Visor Web	SO admitido : Windows XP / VISTA / 7, MAC OS Navegador admitido : Internet Explorer 7.0 o superior, Firefox, Chrome, Safari
Ambiental	Software de gestión central	NET-i viewer
	Temperatura/humedad de funcionamiento	-0°C ~ +40°C (+32°F ~ +104°F) / 20% ~ 80% HR
Eléctrico	Protección de ingreso	-
	corriente de entrada	5V CC
Mecánico	Consumo de energía	Máx. 11 W
	Color / Material	Negro/ Metal
	Dimensiones (An. x Al. x Pr.)	An 82 x Al 35 x Pr. 236.7 mm (3.23" x 1.37" x 9.32"), Conector incluido
	Peso	165g

VISTA DEL PRODUCTO

Unidad : mm (pulg.)



SOLUCIÓN DE PROBLEMAS

PROBLEMA	SOLUCIÓN
No se puede acceder al codificador de red utilizando un navegador.	• Compruebe si los ajustes de <Red> del codificador de red son válidos y correctos. • Compruebe para asegurarse de que todos los cables de red se han conectado bien. • Compruebe si al codificador de red se le ha asignado correctamente una dirección IP dinámica cuando se encuentra en un entorno DHCP. • Si se conecta mediante una URL DDNS, compruebe que la dirección MAC se haya introducido bien. • Si el codificador de red está instalado en un Enrutador de banda ancha, compruebe que esté debidamente configurado el ajuste de reenvío de puerto.
El Visualizador se desconecta durante el control.	• La conexión de <Web Viewer> existente puede caducar si el ajuste o la configuración de red del codificador de red ha sido modificada por otro usuario. • Compruebe todas las conexiones de red. • La conexión de <Web Viewer> puede interrumpirse por un tráfico de red pobre o una situación defectuosa si el codificador de red está conectado a una red PPPoE.
No se puede conectar al sistema mediante 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.
Instalador IP no encuentra los codificadores de red conectados.	• Apague los ajustes del cortafuegos del PC y, a continuación, busque de nuevo el codificador de red.
Se superponen imágenes.	• Compruebe si se han configurado dos o más codificadores de red para utilizar direcciones diferentes en vez de utilizar la misma dirección multicast. Si se utiliza una dirección única para varios codificadores de red, es posible que las imágenes se solapen.
No aparece imagen.	• Si el método de transferencia se define en multicast, compruebe si la red local conectada al codificador de red tiene un enrutador que admite multicast.

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Component Name	License	License URL
lighttpd 1.4.25	BSD 2.0	http://www.opensource.org/licenses/bsd-license.html
librtsp 1.20	BSD 1.0	

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For more additional information, send email to help.cctv@samsung.com.

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Version 3, 29 June 2007

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