

네트워크 비디오 디코더

제품 사용 설명서

SPD-400



A급 기기(업무용 방송통신기자재)

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네트워크 비디오 디코더

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- 시스템 운용과 관련 없는 프로그램을 실행하여 시스템이 잘못된 동작을 한 경우
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변경되지 않은 초기 비밀번호로 인한 보안 및 기타 문제의 책임은 사용자에게 있으므로 각별히 주의하세요.

안전을 위한 주의사항

제품을 올바르게 사용하여 위험이나 재산상의 피해를 미리 막기 위한 내용으로 반드시 지켜 주시기 바랍니다.

	경고 지키지 않았을 경우 사용자가 사망하거나 중상을 입을 수 있습니다.		주의 지키지 않았을 경우 사용자가 부상을 당하거나 재산상의 손해를 입을 수 있습니다.
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전원 관련

	경고	연기가 나거나 이상한 냄새가 날 때는 사용을 중단하세요. 이때는 곧바로 전원을 분리 후 서비스센터에 연락 하주세요. 그대로 계속 사용하면 화재, 감전의 원인이 됩니다.	천둥, 번개가 칠 때는 전원플러그를 빼주세요. 화재 및 고장의 원인이 될 수 있습니다.
	경고	전원 및 신호선 연결 시 외부 연결 단자를 확인 하시고 연결 하세요. 알람 단자에는 알람 신호선을 연결하시고, DC 전원 입력 단자에는 극성을 확인하여 DC 어댑터를 올바르게 연결하세요. 전원을 잘못 연결하면 화재, 감전, 고장의 원인이 됩니다.	

	주의	전원 연결단자에 전원선을 확실하게 고정 후 사용하세요. 접속이 불안정한 경우는 화재의 원인이 됩니다.	
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설치 관련

	경고	어댑터는 반드시 제품 구입시 당사에서 제공하는 어댑터를 사용하십시오. 화재, 감전, 고장의 원인이 됩니다.	
	주의	네트워크 비디오 디코더를 벽이나 천장 등에 설치 시 안전하고 확실하게 고정하세요. 낙하로 인한 부상의 원인이 됩니다.	네트워크 비디오 디코더 위에 전도성 물질(드라이버, 동전, 쇠붙이 등) 및 물이 차있는 용기 등을 놓지 마세요. 화재, 감전, 낙하로 인한 상해의 원인이 됩니다.
			하나의 어댑터에 여러대의 네트워크 비디오 디코더를 연결해서 사용하지 마세요. 용량 초과 시 이상 발열 및 화재의원인이 됩니다.

개요

비, 물에 노출되는 곳에 설치하지 마세요. 내부에 물이 들어가면 고장의 원인이 됩니다.	방사능에 노출되는 곳에 설치하지 마세요.	설치 시 제품 뒷면 GND 단자에 접지 케이블을 반드시 연결하세요.
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참 고

습기 먼지나 그을음 등이 많은 장소에 설치하지 마세요. 화재, 감전의 원인이 됩니다.	제품에 물건을 떨어뜨리거나 충격을 주지 마세요. 진동이 심한 곳이나 자석종류가 있는 곳으로부터 멀리해 주세요.	온도가 너무 높은 곳(40°C이상)이나 낮은 곳(0°C이하)이나 습도가 많은 곳에 설치하지 마세요. 화재, 감전의 원인이 됩니다.
직사광선이 들어오는 곳이나 난방기구 등 열이 나는 곳을 피해 주세요. 화재, 감전의 원인이 됩니다.	설치된 제품을 이동하고자 할 때에는 반드시 전원을 끄고 옮기거나 재설치 하세요. 화재, 감전의 원인이 됩니다.	바람이 잘 통하는 곳에 설치하세요. 화재 및 고장의 원인이 될 수 있습니다.

청소 관련

참 고

청소 시 제품의 각 부분에 직접 물을 뿌리지 마세요. 화재, 감전의 원인이 됩니다.	제품 표면은 마른 수건으로 가볍게 닦아 주세요. 화학 약품이나 세척제 등은 표면을 변질시키고 칠을 벗겨지게 하므로 절대 사용하지 마세요.	
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설치 및 사용상의 주의

- 사용자 임의로 네트워크 비디오 디코더를 분해하지 마세요.
- 네트워크 비디오 디코더 취급 시 항상 주의하세요.
- 네트워크 비디오 디코더를 주먹으로 치거나 흔들지 않도록 하고 부주의한 보관이나 오동작으로 네트워크 비디오 디코더에 손상을 입히지 않도록 주의하세요.
- 네트워크 비디오 디코더를 비가 오는 장소나 습기가 많은 장소에 설치하지 않도록 주의하고 젖은 장소에 두고 동작하지 마세요.
- 네트워크 비디오 디코더의 몸체를 강력 연마제 등으로 세척하지 말고 더러워졌을 때에는 마른 헝겊을 이용하여 몸체를 닦아내세요.
- 네트워크 비디오 디코더를 직사광선이 비치지 않는 서늘한 곳에 설치하세요.
- 직사광선이 비치는 곳에 두면 제품에 좋지 않은 영향을 줄 수 있습니다.
- 이물질이 묻은 경우에는 부드러운 헝겊으로 닦아 주세요.
- 제품 내부의 배터리를 잘못 교체할 경우에는 폭발의 위험이 있으므로 꼭 제품에서 사용하는 동일한 배터리를 사용하세요.
- 직사광선이나 난방기구 등 열이 나는 곳에 배터리를 두지 마세요.
- 본 제품을 설치하기 전 또는 사용 중에 삼성 웹 사이트 www.samsungcctv.co.kr를 방문하셔서 최신 S/W 버전을 확인하시고 다운로드하여 업데이트 하시기 바랍니다.



삼성테크윈은 지구환경보전을 위하여 제품과 관련된 전 과정에서 환경을 고려하고 있으며, 고객에게 보다 친환경적인 제품을 제공하기 위하여 다양한 활동을 추진하고 있습니다.
에코(Eco)마크는 친 환경제품을 만들기 위한 삼성테크윈의 의지이며, 유럽의 환경규제(RoHS)에 만족하는 제품임을 의미합니다.

3	개요	3	안전을 위한 주의사항
		5	설치 및 사용상의 주의
		8	특징
		8	PC 시스템 권장 사양
		9	구성품 확인하기
		10	각 부분의 명칭 및 기능

설치 및 연결	13	다른 기기와 연결하기
13		

네트워크 연결 및 설정

18

18

19

20

21

22

26

27

LAN 환경에서 직접 네트워크 비디오 디코더 설치하기

DHCP 방식의 DSL/Cable 모뎀에 직접 네트워크 비디오 디코더 설치하기

Cable 모뎀을 연결한 IP 공유기에 네트워크 비디오 디코더 설치하기

IP 인스톨러의 명칭 및 기능

Static IP 설정하기

Dynamic IP 설정하기

공유된 로컬 PC에서 네트워크 장치 접속하기

웹뷰어	28	네트워크 비디오 디코더에 접속하기
	29	로그인하기

28

설정 화면	30	설정하기
	30	오디오 & 비디오 설정하기
	38	네트워크 설정하기
	40	이벤트 설정하기
	42	시스템 설정하기

30

부록	47	사양
	49	외관도
	50	문제 해결하기
	51	Open Source Announcement
	52	License
	55	GPL/LGPL Software License

47

개요

특징

- **멀티 포맷 디코딩 지원**

본 네트워크 비디오 디코더는 H.264/MPEG-4/MJPEG 멀티 포맷 디코더를 내장하여, 네트워크를 통해서 수신되는 최대 4개의 스트림을 디코딩하여 출력할 수 있습니다.

- **Full HD 비디오 출력**

최대 출력 해상도는 1920x1080 해상도이며, HDMI와 VGA 단자 또는 CVBS(BNC) 단자를 선택하여 영상을 출력할 수 있습니다.

- **알람 모니터링**

네트워크 카메라 또는 인코더에서 이벤트가 발생하면, 설정에 따라 이벤트가 발생한 화면으로 전환할 수 있습니다.

PC 시스템 권장 사양

- 컴퓨터 : Intel(R) Core(TM)2 2.00 GHz 이상
- 운영체제 : Windows XP, VISTA, 7
Mac OS
- 해상도 : 1280X1024 이상
- 메모리 : 1GB 이상
- 웹브라우저 : Internet Explorer 7.0 또는 8.0, Firefox, Chrome, Safari
- 비디오 메모리 : 128MB 이상

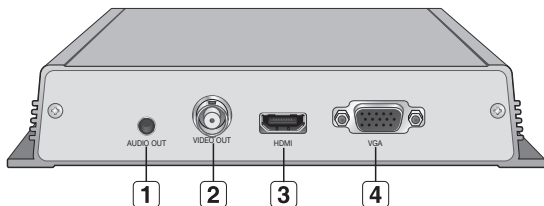
구성품 확인하기

다음의 구성품이 모두 포함되어 있는지 확인하세요.

외관	품명	수량	용도
	SPD-400	1	
	설명서 및 설치 CD	1	제품 사용 설명서, IP 인스톨러 프로그램
	제품 사용 설명서	1	
	전원 어댑터 (DC 12V, 4A)	1	전원 연결시 사용
	전원코드	1	
	태핑 나사	4	벽면 설치에 사용

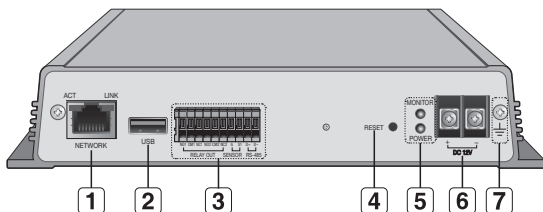
각 부분의 명칭 및 기능

앞면



명칭	기능설명
1 오디오 출력	연결된 네트워크 장치로부터 입력된 장치를 설정에 따라 선택적으로 소리를 출력하는 단자입니다.
2 비디오 (CVBS) 출력	영상 출력용 BNC 단자입니다. CVBS 출력 모드를 선택할 경우에만 비디오가 출력됩니다.
3 HDMI	영상 출력용 HDMI 단자입니다. HDMI 또는 VGA 출력 모드를 선택할 경우에만 비디오가 출력됩니다.
4 VGA	영상 출력용 VGA 단자입니다. HDMI 또는 VGA 출력 모드를 선택할 경우에만 비디오가 출력됩니다.

뒷면



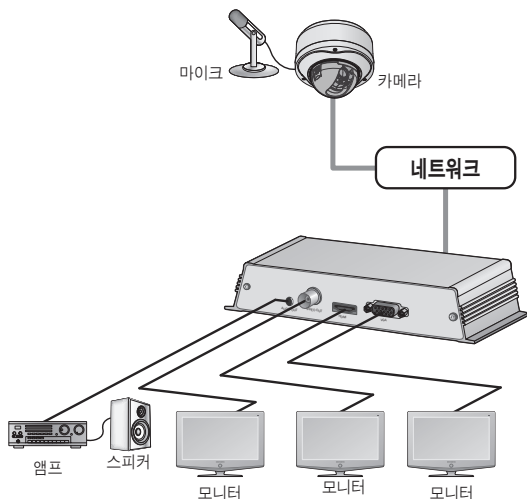
명칭	기능설명	
1 네트워크 연결단자	이더넷 케이블에 연결하기 위한 단자입니다.	
2 USB	이 기능은 동작하지 않습니다.	
3 입/출력 단자	RS-485 D+/D-	이 기능은 동작하지 않습니다.
	N01/N02	알람출력 (Normal Open용)
	CM1/CM2	알람출력 (Common용)
	NC1/NC2	알람출력 (Normal Close용)
	S1	알람 입력 센서 단자입니다.
	G	외부 신호용 그라운드 접지 단자입니다.
4 RESET	네트워크 비디오 디코더 설정을 초기화하거나 모니터 출력을 선택하는 버튼입니다. 약 5초이상 누르면 시스템 표시 등이 꺼지면서 설정이 초기화되고 재부팅됩니다. 1초간 눌렀다 떼면 MONITOR LED 색깔이 변경되면서 비디오 출력모드가 변경됩니다.	

개요

명칭	기능설명	
5 전원, 모니터 표시등	MONITOR	비디오 출력 모드 상태를 표시합니다. 녹색 : HDMI 또는 VGA 출력 모드 상태 황색 : CVBS 출력 모드 상태 ■ 웹뷰어에서 비디오 설정을 변경하거나 [RESET] 버튼을 1초동안 눌렀다 떼면 비디오 출력 모드가 변경됩니다.
	POWER	켜짐 : 전원이 켜져 있는 경우 꺼짐 : 전원이 꺼져 있는 경우
6 전원 연결 단자	지정된 전원을 연결하는 단자입니다.	
7 GND	접지용 단자입니다.	

설치 및 연결

다른 기기와 연결하기



비디오 출력 연결하기

네트워크 비디오 디코더의 각 비디오 출력 단자와 각 모니터의 영상 입력 단자를 연결하세요.

- 웹뷰어의 “화면 표시 설정 > 모니터”에서 설정한 출력 사양에 따라 영상을 출력합니다. (36쪽)
- HDMI 또는 VGA 출력 모드일 경우 웹뷰어에서 설정된 해상도를 지원하지 않는 모니터에서는 영상이 정상적으로 보이지 않을 수 있습니다.
- [RESET] 버튼을 1초간 눌렀다 떼면 비디오 출력 모드가 변경됩니다.
- 비디오 출력 모드에 따라서 MONITOR LED 색깔이 변경됩니다.

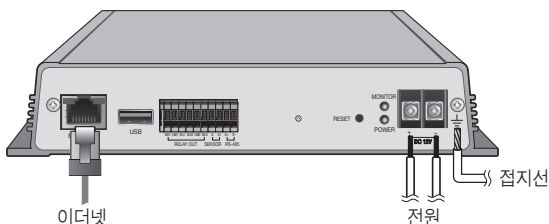
설치 및 연결

오디오 입력/출력 연결하기

1. 네트워크 카메라 또는 디코더에 마이크를 연결하고 네트워크 카메라 또는 디코더의 오디오 설정을 <ON>으로 설정하세요.
2. 네트워크 비디오 디코더의 단일 레이아웃 설정에서 오디오를 사용함으로 변경하고, 오디오 설정에서 라인출력 또는 HDMI 출력을 선택하세요. HDMI 출력은 화면표시설정의 모니터 출력을 HDMI로 선택할 경우에만 표시됩니다.
3. 라인 출력 선택시 네트워크 비디오 디코더의 AUDIO OUT 단자와 스피커의 LINE IN 단자를 연결하세요.
4. HDMI 출력 선택시 HDMI 모니터와 HDMI 단자를 연결하세요.
 - 오디오를 출력할 수 있는 HDMI 모니터에서만 오디오가 출력됩니다.



- 일부 특정 모니터에서 HDMI Audio 출력이 되지 않을 수 있습니다.



이더넷 연결하기

이더넷 케이블을 연결하여 로컬 네트워크나 인터넷에 연결하세요.

전원 연결하기

전원 어댑터의 (+, -) 선을 드라이버를 사용하여 네트워크 비디오 디코더의 전원 입력 단자에 연결하세요.



- DC 12V는 극성이 있으므로 주의하여 연결하세요.
- 외부기기 연결시에는 반드시 연결되는 장치의 전원을 끈 상태에서 연결하세요.

구리선의 저항치 [20 (68°F)] 일 때

구리선 사이즈(AWG)	#24 (0.22 mm ²)	#22(0.33mm ²)	#20(0.52mm ²)	#18(0.83mm ²)
저항치(Ω/m)	0.078	0.050	0.030	0.018
DROP 전압(V/m)	0.028	0.018	0.011	0.006
권장길이 (M)	200이내	300이내	300이내	300이내

- 위의 표와 같이 전선의 길이에 따라 전압 강하 현상이 생기므로 어댑터 출력선의 길이를 과도하게 길게하여 네트워크 비디오 디코더와 연결할 경우 네트워크 비디오 디코더의 성능에 문제가 생길 수 있습니다.
 - 네트워크 비디오 디코더 작동 보증 전압 : DC 12V±10%
 - 위의 표에 나타난 전선의 종류 및 제조사에 따라 편차가 있을 수 있습니다.

접지선 연결하기

전원 입력 단자 오른쪽에 있는 FG Screw에 드라이버를 사용하여 접지선을 연결하세요.



- 접지는 낙뢰로부터 제품을 보호하는 역할을 합니다.
- 연결 시에는 반드시 장치의 전원을 끈 상태에서 연결하세요.

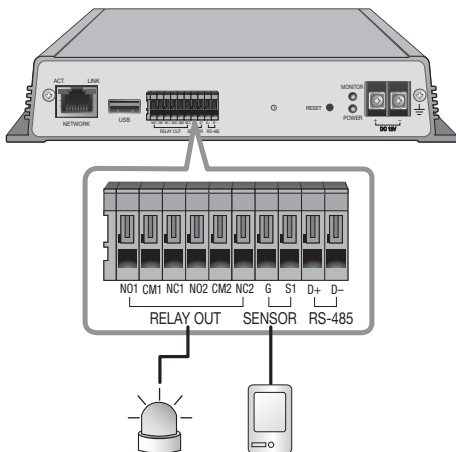
접지선 권장사양

- 길이 : 3M 이내
- 굵기 : 18AWG 이상
예) UL1007 AWG18/16, UL1015 AWG18/16/14/12, UL2468 AWG18/16/14

설치 및 연결

알람 입/출력 단자 연결하기

뒷면의 입/출력 단자를 통해 알람 입/출력을 연결하세요.



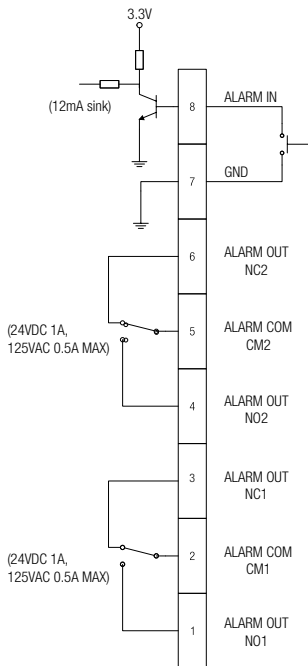
알람 입력 연결하기

각종 센서의 신호선(2선) 중 한 선은 [S1] 단자에 연결하고, 다른 한 선은 [G] 단자에 연결하세요.

알람 출력 연결하기

외부 기기의 신호선(2선) 중 한 선은 [알람 출력(NC, NO)] 단자중에서 선택하여 연결하고, 다른 한 선은 [CM] 단자에 연결하세요.

알람 입/출력 연결도



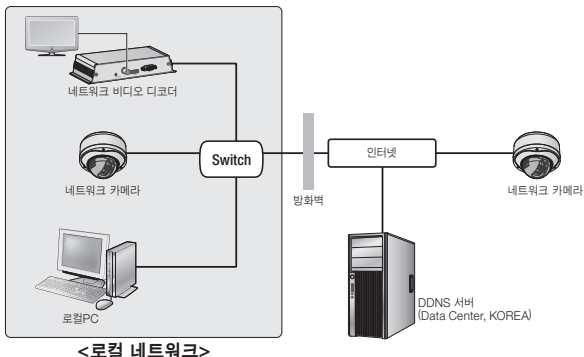
네트워크 연결 및 설정

사용자의 네트워크 연결 구성에 따라 네트워크 비디오 디코더의 네트워크 환경을 설정할 수 있습니다.

LAN 환경에서 직접 네트워크 비디오 디코더 설치하기

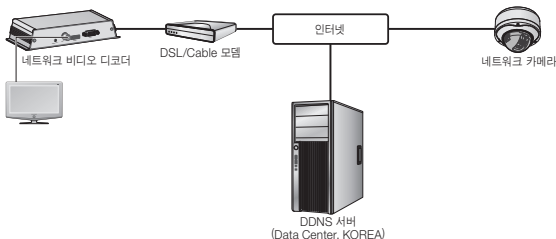
LAN 환경에 있는 로컬 PC에서 네트워크 비디오 디코더 접속하기

1. 로컬 PC의 인터넷 브라우저를 실행하세요.
2. 브라우저의 주소창에 접속하려는 네트워크 비디오 디코더의 IP 주소를 입력하세요.



- LAN 환경의 외부 인터넷에 있는 원격 PC에서 LAN 환경 안에 설치되어 있는 네트워크 비디오 디코더에 접속할 경우 방화벽이 설치되어 있으면 접속이 되지 않을 수 있습니다. 이때는 네트워크 관리자에게 문의하세요.
- 제품 출하시 IP 주소는 192.168.1.200 으로 설정됩니다.
IP 주소의 변경을 원하시면, IP 인스톨러를 이용하세요.
IP 인스톨러 사용방법은 “Static IP 설정하기”를 참고하세요.(22쪽)

DHCP 방식의 DSL/Cable 모뎀에 직접 네트워크 비디오 디코더 설치하기



1. 사용자 컴퓨터와 네트워크 비디오 디코더를 크로스 케이블을 사용하여 직접 연결하세요.
2. IP 인스톨러를 사용하여 해당 네트워크 비디오 디코더의 IP주소를 사용자 컴퓨터에서 인터넷 브라우저를 통하여 접속할 수 있는 IP 주소로 변경하세요.
3. 네트워크 비디오 디코더에 인터넷 브라우저를 이용하여 접속하세요.
4. [설정] 페이지로 이동하세요.
5. [네트워크] - [인터페이스] 설정페이지로 이동하여, IP 타입을 [DHCP]로 설정하세요.
6. 네트워크 비디오 디코더를 사용자 컴퓨터에서 분리하여, 모뎀에 직접 연결하세요.
7. 네트워크 비디오 디코더를 재부팅하세요.

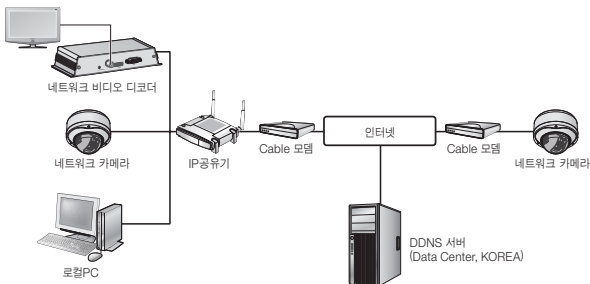


- IP 타입의 설정 방법은 “인터페이스”를 참고하세요. (38쪽)

네트워크 연결 및 설정

Cable 모뎀을 연결한 IP 공유기에 네트워크 비디오 디코더 설치하기

일반 가정집, 소규모 사무실, 상점 등 간단한 네트워크 환경에서 사용 가능한 구성입니다.



IP 공유기에 연결된 로컬 PC의 네트워크 설정하기

IP 공유기에 설치된 로컬 PC의 네트워크 설정을 다음과 같이 맞춰 주세요.

- 로컬 PC의 <네트워크 환경> → <속성> → <로컬영역 연결> → <속성> → <일반> → <인터넷 프로토콜(TCP/IP)선택> → <속성> → <자동으로 IP 주소 받기> 또는 <다음 IP 주소 사용>을 선택하세요.

- <다음 IP 주소 사용> 선택 시 다음과 같이 설정하세요.

예1) IP 공유기의 접속주소 (LAN IP)가 192.168.1.1 인 경우

IP 주소 : 192.168.1.200

서브넷 마스크 : 255.255.255.0

기본 게이트웨이 : 192.168.1.1

예2) IP 공유기의 접속주소 (LAN IP)가 192.168.0.1 인 경우

IP 주소 : 192.168.0.200

서브넷 마스크 : 255.255.255.0

기본 게이트웨이 : 192.168.0.1

예3) IP 공유기의 접속주소 (LAN IP)가 192.168.xxx.1 인 경우

IP 주소 : 192.168.xxx.200

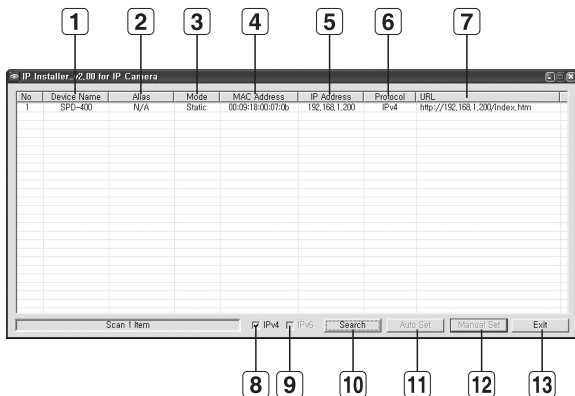
서브넷 마스크 : 255.255.255.0

기본 게이트웨이 : 192.168.xxx.1



- IP 공유기의 접속주소는 각 IP 공유기의 사용설명서를 참조하세요.

IP 인스톨러의 명칭 및 기능



명칭	기능
1 Device Name	연결된 네트워크 장치의 모델명입니다. 컬럼을 누르면 모델명 기준으로 정렬합니다. 단, 검색 도중 누르면 검색이 중단됩니다.
2 Alias	이 기능은 지원하지 않습니다.
3 Mode	<Static>, <Dynamic> 중 현재 연결된 네트워크의 상태를 나타냅니다.
4 MAC(Ethernet) Address	연결된 네트워크 장치의 이더넷 주소입니다. 컬럼을 누르면 이더넷 주소 기준으로 정렬합니다. 단, 검색 도중 누르면 검색이 중단됩니다.
5 IP Address	IP 주소입니다. 컬럼을 누르면 IP 주소 기준으로 정렬합니다. 단, 검색 도중 누르면 검색이 중단됩니다. 제품 출하 시 초기값은 "192.168.1.200"입니다.
6 Protocol	네트워크 장치의 네트워크 설정입니다. 제품 출하 시 초기값은 'IPv4' 입니다. IPv6로 설정된 네트워크 장치는 IPv6로 표시됩니다.

네트워크 연결 및 설정

명칭	기능
7 URL	URL 주소입니다.
8 IPv4	IPv4로 설정된 네트워크 장치를 검색합니다.
9 IPv6	IPv6로 설정된 네트워크 장치를 검색합니다. IPv6가 지원되는 환경에서 활성화됩니다.
10 Search	현재 네트워크 상에 연결된 네트워크 장치를 검색합니다. 단, IPv4와 IPv6 모두 체크되어 있지 않으면 버튼이 비활성화됩니다.
11 Auto Set	네트워크 설정을 IP 인스톨러가 자동으로 설정해줍니다.
12 Manual Set	네트워크 설정을 사용자가 직접 입력합니다.
13 Exit	IP 인스톨러 프로그램을 종료합니다.



- IP 인스톨러는 동봉된 CD에 포함되어 있는 버전을 사용하세요.

Static IP 설정하기

수동으로 네트워크 설정하기

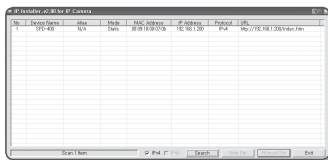
<IP Installer_vX.XX.exe> 프로그램을 실행하여 네트워크 장치 검색 목록이 나타나게 하세요.

초기 실행시에는 **[Auto Set]** 버튼과 **[Manual Set]** 버튼이 모두 비활성화되어 있습니다.



- IPv6로 검색된 네트워크 장치는 이 기능을 지원하지 않으므로 버튼이 비활성화 됩니다.

1. 검색목록에서 원하는 네트워크 장치를 선택하세요.
네트워크 장치 뒷면의 MAC(Ethernet) Address를 확인해주세요.
[Auto Set] 버튼과 **[Manual Set]** 버튼이 활성화됩니다.
2. **[Manual Set]** 버튼을 클릭하세요.
수동 설정 창이 나타납니다.
네트워크 장치의 <IP Address>, <Subnet Mask>, <Gateway>, <HTTP Port>, <VNP Port>가 초기값으로 표시됩니다.



3. <Address>에서 IP 관련 항목을 설정 하세요.

- MAC(Ethernet) Address : 네트워크 장치 뒷면의 MAC(Ethernet) Address가 자동으로 표시되므로 설정하지 않아도 됩니다.



- DHCP가 체크되지 않은 상태에서만, Static IP의 설정이 가능합니다.

IP 공유기를 사용하는 경우

- IP Address : IP 공유기가 제공하는 사실 IP 범위에 맞게 설정하세요.
예) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : IP 공유기의 <Subnet Mask>가 네트워크 비디오 디코더의 <Subnet Mask> 값이 됩니다.
- Gateway : IP 공유기의 <Local IP Address>가 네트워크 비디오 디코더의 <Gateway> 값이 됩니다.



- 연결된 IP 공유기 모델에 따라 설정 방법이 다를 수 있습니다. 해당 공유기의 사용설명서를 참조하세요.

IP 공유기를 사용하지 않는 경우

네트워크 관리자에게 <IP Address>, <Subnet Mask>, <Gateway> 설정값을 문의 하세요.

4. <Port>에서 포트 관련 항목을 설정 하세요.

- HTTP Port : 인터넷 브라우저를 사용하여 네트워크 장치에 접속할 때 사용되는 HTTP 포트이며, 기본값은 80 입니다.
HTTP 포트값은 직접 입력하여 변경할 수 있습니다.
- VNP Port : 네트워크 카메라나 인코더에서 영상전송을 제어하는 포트이며 네트워크 비디오 디코더의 VNP Port는 설정할 필요가 없습니다. 기본값은 1234로 표시되며 변경되지 않습니다.

네트워크 연결 및 설정

5. 패스워드를 입력하세요.

패스워드는 네트워크 장치에 접속시 사용하는 “admin” 사용자의 로그인 패스워드입니다.
패스워드 초기값은 “4321”입니다.



- 제품상에 초기 설정된 비밀번호는 노출의 위험이 있으므로, 제품 설치 후 즉시 새로운 비밀번호로 변경하세요.
변경되지 않은 초기 비밀번호로 인한 보안 및 기타 문제의 책임은 사용자에게 있으므로 각별히 주의하세요.

6. [OK] 버튼을 클릭하세요.

수동 네트워크 설정이 완료됩니다.

IP 공유기에 네트워크 비디오 디코더가 연결되어 있는 경우

네트워크 비디오 디코더의 IP 관련 항목, Port 관련 항목을 각각 다르게 설정해 주세요.

구분		1번 디코더	2번 디코더
IP 관련 항목	IP Address	192.168.1.200	192.168.1.201
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Port 관련 항목	HTTP Port	8080	8081



- <HTTP Port>가 80 이외의 번호로 설정되어 있는 경우 인터넷 브라우저의 주소 입력란에 <Port> 번호도 함께 입력을 해야 네트워크 비디오 디코더에 접속이 가능합니다.

예) http://IP주소 : HTTP Port
http://192.168.1.200:8080

자동으로 네트워크 설정하기

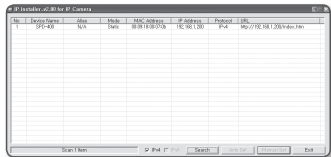
<IP Installer_vX.XX.exe> 프로그램을 실행하여 네트워크 장치 검색 목록이 나타나게 하세요.

초기 실행시에는 [Auto Set] 버튼과 [Manual Set] 버튼이 모두 비활성화되어 있습니다.



■ IPv6로 검색된 네트워크 장치는 이 기능을 지원하지 않으므로 버튼이 비활성화됩니다.

1. 검색목록에서 원하는 네트워크 장치를 선택하세요.
네트워크 장치 뒷면의 MAC(Ethernet) Address를 확인해주세요.
[Auto Set] 버튼과 [Manual Set] 버튼이 활성화됩니다.

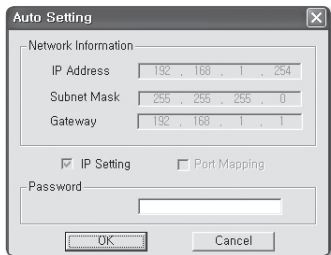


2. [Auto Set] 버튼을 클릭하세요.
자동 설정 창이 나타납니다.
자동으로 검색된 <IP Address>, <Subnet Mask>, <Gateway>를 표시합니다.

3. 패스워드를 입력하세요.
패스워드는 네트워크 비디오 디코더에 접속시 사용하는 “admin” 사용자의 로그인 패스워드입니다.
패스워드 초기값은 “4321”입니다.

■ 제품상에 초기 설정된 비밀번호는 노출의 위험이 있으므로, 제품 설치 후 즉시 새로운 비밀번호로 변경하세요.
변경되지 않은 초기 비밀번호로 인한 보안 및 기타 문제의 책임은 사용자에게 있으므로 각별히 주의하세요.

4. [OK] 버튼을 클릭하세요.
자동 네트워크 설정이 완료됩니다.



네트워크 연결 및 설정

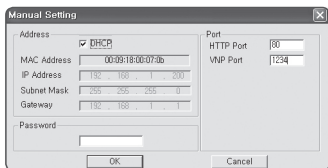
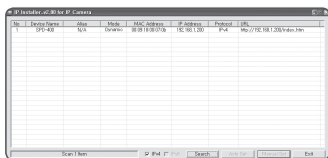
Dynamic IP 설정하기

Dynamic IP 환경 설정하기

- Dynamic IP 사용 환경 예
 - IP 공유기에 네트워크 장치를 설치한 경우, DHCP를 이용하여 IP를 할당 받을 때
 - DHCP 방식을 사용하는 모뎀에 네트워크 장치를 직접 설치한 경우
 - LAN 환경에서 내부 DHCP 서버로부터 IP를 할당 받는 경우

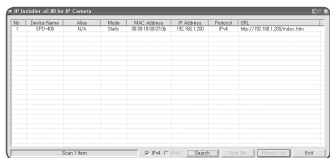
Dynamic IP 확인하기

1. 사용자의 로컬 PC에서 <IP Installer>를 실행하면 <Dynamic IP>를 할당 받은 네트워크 장치가 리스트에 보여집니다.
2. 검색된 네트워크 장치를 선택하고, [Manual Set] 버튼을 클릭하면 현재 네트워크 장치에 설정된 <Dynamic IP>를 확인할 수 있습니다. <DHCP>를 해제하면 <Static>으로 IP를 변경할 수 있습니다.



공유된 로컬 PC에서 네트워크 장치 접속하기

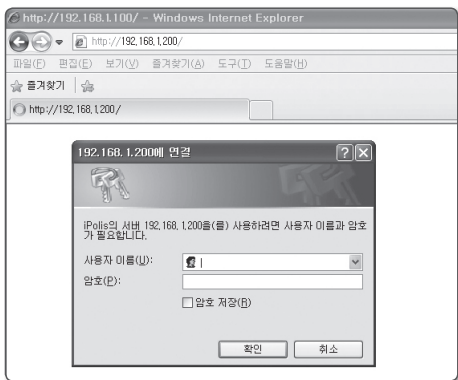
1. IP 인스톨러를 실행하세요.
연결된 네트워크 장치를 검색하여 리스트에 표시합니다.
2. 연결할 네트워크 장치를 더블 클릭하세요.
인터넷 브라우저가 시작되면서 네트워크 장치에 접속합니다.



- 사용자가 직접 인터넷 브라우저를 실행시켜, 주소 창에 검색된 네트워크 장치의 IP 주소를 입력하여 접속할 수 있습니다.

네트워크 비디오 디코더에 접속하기

일반적인 방법인 경우



1. 인터넷 브라우저를 실행하세요.
2. 주소 입력란에 네트워크 비디오 디코더의 IP주소를 입력하세요.
예) • IP주소 (IPv4) : 192.168.1.200인 경우
→ http://192.168.1.200 - 로그인 창이 나타납니다.
• IP주소 (IPv6) : 2001:0230:abcd:ffff:0000:0000:ffff:1111인 경우
→ http://[2001:230:abcd:ffff::ffff:1111] - 로그인 창이 나타납니다.

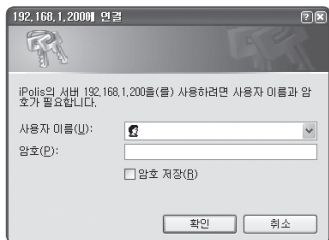
HTTP Port가 80이 아닌 경우

1. 인터넷 브라우저를 실행하세요.
2. 주소 입력란에 네트워크 비디오 디코더의 IP주소와 HTTP 포트번호를 입력하세요.
예) IP주소 : 192.168.1.200: HTTP 포트번호(8080)인 경우
→ http://192.168.1.200:8080 - 로그인 창이 나타납니다.

로그인하기

구입 후 처음 접속시 아이디는 “admin”, 암호는 “4321”입니다.

1. <사용자 이름(U)> 입력란에 “admin”을 입력하세요.
2. <암호(P)> 입력란에 “4321”을 입력하세요.
암호를 바꾼 경우에는 변경된 암호를 입력하세요.
3. [확인] 버튼을 클릭하세요.
로그인이 완료되면 네트워크 비디오 디코더 설정 화면이 나타납니다.



- 보안을 위해 암호는 설정 화면의 <시스템> - <사용자>에서 반드시 변경하여 사용하세요. 관리자의 아이디 “admin”은 고정이며 변경할 수 없습니다.
- 제품상에 초기 설정된 비밀번호는 노출의 위험이 있으므로, 제품 설치 후 즉시 새로운 비밀번호로 변경하세요.
변경되지 않은 초기 비밀번호로 인한 보안 및 기타 문제의 책임은 사용자에게 있으므로 각별히 주의하세요.
- 사용자 이름과 암호를 입력한 후 “암호 저장(R)”에 체크표시를 할 경우 다음 접속 시 사용자 이름과 암호가 자동으로 설정됩니다.



- 화면비율이 100% 일 때 가장 좋은 화면을 볼 수 있습니다. 화면비율을 줄일 경우 화면이 잘려져서 보일 수 있습니다.

설정 화면

설정하기

네트워크 상에서 네트워크 비디오 디코더의 오디오 & 비디오, 네트워크, 이벤트, 시스템 기본 설정을 실행할 수 있습니다.



- 네트워크 카메라나 네트워크 인코더의 펌웨어 버전에 따라 네트워크 비디오 디코더에 등록시 등록이 불가능하거나 오작동할 수 있습니다. www.samsungtechwin.co.kr에 방문하여 최신 펌웨어를 다운받아 업데이트 후 다시 시도하세요.

오디오 & 비디오 설정하기

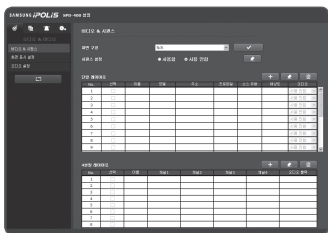
비디오 & 시퀀스

1. 설정 메뉴에서 <오디오 & 비디오 (🔊)> 탭을 선택하세요.

2. <비디오 & 시퀀스>를 클릭하세요.

3. 각 항목의 입력란을 클릭하여 원하는 값을 입력하거나 선택하세요.

- 화면 구성 : 단일 레이아웃 또는 4분할 레이아웃에 등록된 레이아웃 중 모니터 화면에 출력할 레이아웃을 선택합니다.
- 시퀀스 설정 : 시퀀스 사용 여부를 선택하고, 시퀀스 출력을 사용할 레이아웃과 출력시간을 설정합니다.



- 시퀀스 설정에 등록된 레이아웃을 설정된 시간에 따라 순차적으로 자동 전환하여 영상을 모니터에 출력합니다. 단일 레이아웃과 4분할 레이아웃에서 10개까지 선택하여 시퀀스 순서를 설정할 수 있습니다.
- 단일 레이아웃 : 네트워크 상에서 실행되고 있는 네트워크 카메라나 네트워크 인코더를 등록하거나 등록되어 있는 단일 레이아웃을 수정, 삭제합니다.
 - 네트워크 비디오 디코더에 연동할 네트워크 카메라나 인코더를 등록하는 기본단위입니다. 네트워크 카메라나 인코더를 단일 레이아웃에 등록한후 화면구성에서 단일 레이아웃에 등록된 카메라 이름을 선택하면 해당하는 네트워크 카메라나 인코더 영상이 모니터에 출력됩니다. 64개까지 네트워크 카메라나 인코더를 등록할 수 있습니다.
- 4분할 레이아웃 : 단일 레이아웃에 등록된 레이아웃을 선택해 4분할 레이아웃을 구성하거나 수정, 삭제합니다.
 - 모니터에서 네트워크 카메라나 인코더를 4분할 출력으로 보기 위해서 화면을 구성하는 것입니다. 단일 레이아웃에 등록되어 있는 각각의 네트워크 카메라나 인코더를 4분할 레이아웃에 할당하여 하나의 레이아웃으로 등록한후 화면구성에서 레이아웃 이름을 선택하면 해당하는 4분할 영상이 모니터에 출력됩니다. 8개까지 4분할 레이아웃을 등록할 수 있습니다.

단일 레이아웃을 추가하려면

1. [비디오 추가 (+)] 버튼을 클릭하세요.
2. 추가할 네트워크 카메라 또는 네트워크 인코더의 정보를 입력하세요.
3. 추가할 장치의 IP주소 또는 DDNS URL을 <주소>에 입력하세요.
 - 최대 64자까지 입력 가능하며, 레이아웃 리스트에는 9자까지만 표시되고 나머지 문자는 <...>로 표시됩니다.
4. 추가할 장치의 아이디와 비밀번호를 입력하세요.
5. [정보 가져오기 (📄)] 버튼을 클릭하여 연결할 장치 정보를 불러오세요.
 - 카메라에 프로파일이 설정되지 않았을 경우 등록할 수 없습니다.

비디오 추가

프로토콜

☐ 삼성
 ☒ AXIS

주소

VNP 포트

4520

HTTP 포트

80

이름

비밀번호

↻

모델 번호

카메라 이름

프로파일

N/A

소스 유형

해상도

📄

+

🗑

설정 화면

6. 불러온 정보가 아래 정보창에 표시되면
<카메라 이름>을 입력하세요.

- 카메라 이름은 여백 없이 입력하세요.
- 최대 15자까지 입력 가능하며, 레이아웃 리스트에는 7자까지만 표시되고 7자가 넘을 경우 나머지 문자는 <...>로 표시됩니다.

7. 프로파일을 선택하세요.



- 프로파일 선택 후 카메라의 프로파일 속성이 변경되면 영상 출력이 되지 않을 수 있습니다. 이럴 경우 모니터에 **"Not Decodable"** 이라고 표시됩니다.

8. [추가 (+)] 버튼을 클릭하세요.



- 총 64개 레이아웃을 추가할 수 있습니다.
- [카메라 설정 ()] 버튼을 클릭하면 추가된 카메라의 웹페이지로 접속하는 브라우저가 팝업됩니다.

비디오 추가

프로토콜

☐ 삼성
 ☒ AXIS

주소

192.168.1.201

VNP 포트

4520

HTTP 포트

80

이름

admin

비밀번호

....

↻

모델 번호

SNB-7000

카메라 이름

Gate1

프로파일

Profile1

소스 유형

MJPEG

해상도

320x240

☰

+

☒

단일 레이아웃 등록 가능한 해상도

코덱	H.264	MPEG-4	MJPEG
단일 레이아웃	1920x1080p ~ 320x240	4CIF ~ 320x240	1280x720p ~ 320x240 (800x600 제외)

등록된 단일 레이아웃을 수정하려면

1. 등록된 장치의 선택 박스를 클릭하여 선택하세요.
2. 수정할 정보를 입력하세요.
■ <프로토콜>과 <주소>는 수정할 수 없습니다.
3. [저장 ()] 버튼을 클릭하세요.
4. 취소하려면 [취소 ()] 버튼을 클릭하세요.

등록된 단일 레이아웃을 삭제하려면

1. 등록된 장치의 선택 박스를 클릭하여 선택하세요.
2. 레이아웃 목록 상단의 [삭제 ()] 버튼을 클릭하세요.
3. 삭제 확인창이 나타나면 [확인] 버튼을 클릭하세요.

비디오 추가

프로토콜 ☒ 삼성 ☐ AXIS

주소

VNP 포트

HTTP 포트

이름

비밀번호 

모델 번호

카메라 이름

프로파일

소스 유형

해상도



- 단일 레이아웃이 <4분할 레이아웃>, <시퀀스 설정>에 등록되어 있거나 화면구성에서 선택되어 화면으로 출력되고 있는 장치는 수정, 삭제할 수 없으며, 확인 메시지가 표시됩니다.

등록된 단일 레이아웃에서 오디오를 설정하려면

1. 등록된 단일 레이아웃의 리스트에서 오디오를 듣고자 하는 장치에 대해 <사용함> 또는 <사용 안함>으로 변경하세요.
 - 4분할 레이아웃 설정에서 오디오 출력으로 설정된 장치의 경우 <사용함>에서 <사용안함>으로 수정할 수 없으며 확인 메시지가 표시됩니다.
 - 단일 레이아웃에서 오디오를 <사용함>으로 설정해야 연결된 장치의 오디오를 출력할 수 있습니다.

단일 레이아웃

번호	이름	단종	모델	주소	프로파일	소스 유형	해상도	오디오
1	Gate1		SNB-7000	192.168.1.201	Profile1	MJPEG	320x240	사용함
2								사용 안함
3								사용 안함
4								사용 안함
5								사용 안함
6								사용 안함
7								사용 안함
8								사용 안함
9								사용 안함
10								사용 안함

설정 화면

4분할 레이아웃을 등록하려면

1. [4분할 레이아웃 추가 (+)] 버튼을 클릭하세요.
2. 각 채널에 할당할 단일 레이아웃에 등록되어 있는 장치를 선택하세요.
3. <레이아웃 이름>을 입력하세요.
 - 최대 15자까지 입력 가능하며, 레이아웃 리스트에는 7자까지만 표시되고 7자가 넘을 경우 나머지 문자는 <...>로 표시됩니다.
4. 4개의 채널중에서 4분할 화면에서 출력될 오디오 출력 채널을 선택하세요.
단일 레이아웃에서 오디오를 <사용함>으로 설정한 장치만 선택할 수 있습니다.
5. [추가 (+)] 버튼을 클릭하세요.



- 총 8개의 4분할 레이아웃을 등록할 수 있으며, 하나의 4분할 레이아웃에 동일한 단일 레이아웃은 중복 등록되지 않습니다.
단 다른 4분할 레이아웃에는 추가로 등록할 수 있습니다.

4분할 레이아웃 등록 가능한 해상도

네트워크 비디오 디코더의 4분할 레이아웃은 코덱에 따라 일부 해상도만 등록 지원합니다.
등록 불가능한 해상도를 등록할 경우 오류 메시지가 표시됩니다.
등록 전 아래의 해상도를 참고하세요.

코덱	H.264	MPEG-4	MJPEG
4분할 레이아웃	1280x720p ~ 320x240 (800X600 제외)	4CIF ~ 320X240	1280x720p ~ 320X240 (800X600 제외)



- 4분할 화면에서 등록된 해상도가 960x540 미만이고 동일하지 않은 해상도의 영상이 포함되어 있을 경우 각 영상은 해당 분할화면의 중앙에 출력됩니다. 이 때 320x240와 352x240 해상도는 각각 640x480, 704x480 해상도로 확대되어 표시됩니다.



- 4분할 화면에서 4개 카메라로부터의 총 데이터 수신량이 40Mbps를 초과하는 경우, 영상 출력에 원활하지 않을 수 있습니다.



<2번째 분할화면에 960x540미만의 영상이 입력될 경우>

4분할 레이아웃을 수정하려면

1. 목록에서 등록된 레이아웃의 선택 박스를 클릭하여 선택하세요.
2. 채널에 등록된 장치를 변경하거나 레이아웃 이름을 수정하세요.
3. [저장 (💾)] 버튼을 클릭하세요.
4. 수정을 취소하려면 [취소 (❌)] 버튼을 클릭하세요.

4분할 레이아웃을 삭제하려면

1. 목록에서 등록된 레이아웃의 선택 박스를 클릭하여 선택하세요.
2. [삭제 (🗑️)] 버튼을 클릭하세요.
3. 삭제 확인창이 나타나면 [확인] 버튼을 클릭하세요.



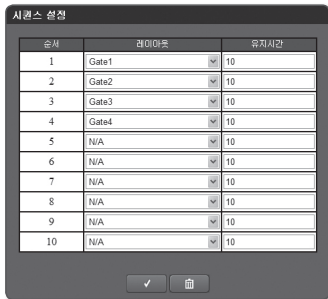
- 4분할 레이아웃이 <시퀀스 설정>에 등록되어 있거나 화면구성에서 선택되어 화면으로 출력되고 있는 레이아웃은 수정, 삭제할 수 없으며, 확인 메시지가 표시됩니다.



설정 화면

시퀀스를 설정하려면

1. [시퀀스 설정 ()] 버튼을 누르세요.
2. 시퀀스 동작시 자동으로 전환될 레이아웃을 순서대로 선택하세요.
3. 전환된 레이아웃의 화면 출력이 유지될 시간을 입력하세요.
4. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.
5. 시퀀스 설정을 <사용함>으로 선택하세요. 설정된 레이아웃들이 설정된 시간에 맞춰 자동 전환되며 출력됩니다.



모니터에 표시할 화면을 선택하려면

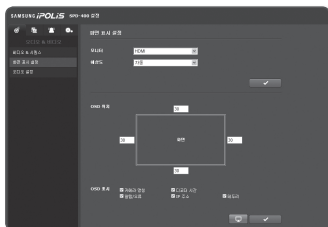
연결된 모니터에 표시하는 레이아웃을 설정할 수 있습니다.

1. 화면 구성 목록을 누르면 등록된 레이아웃이 표시됩니다.
화면에 표시할 레이아웃을 선택하세요.
2. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.
 - 시퀀스 설정이 <사용함>으로 선택되어 있으면 <화면 구성>이 비활성화 됩니다.



화면 표시 설정

1. 설정 메뉴에서 <오디오 & 비디오 ()> 탭을 선택하세요.
2. <화면 표시 설정>을 클릭하세요.
3. 각 항목의 입력란을 클릭하여 원하는 값을 입력하거나 선택하세요.
 - 모니터 : 영상을 출력할 모니터 타입을 선택합니다.
 - 해상도 : 모니터에 출력할 해상도를 선택합니다.
 - <CVBS>를 선택할 경우 방송 유형을 선택하는 <CVBS 유형> 메뉴로 변경됩니다.



- OSD 위치 : 모니터에 표시되는 OSD의 위치를 선택합니다.
위치를 변경할 경우 전체 모니터 화면을 기준으로 상/하/좌/우에 위치한 OSD의 위치를 변경합니다.
- OSD 표시 : 모니터에 표시할 OSD 종류를 선택합니다.
 - 1 카메라 명칭 : 레이아웃 등록시 입력한 카메라 명칭을 표시합니다.
 - 2 디코더 시간 : 디코더에 설정된 시간을 표시합니다.
 - 3 알람/오류 : 알람, 오류 발생시 해당 알람 또는 오류를 화면에 표시합니다.
 - 4 IP 주소 : 카메라 IP주소를 표시합니다.
 - 5 테두리 : 각 카메라 화면의 경계선을 표시합니다.
- 미리보기 () : 변경된 OSD 설정을 미리보기 하고 적용 확인 메시지가 나타나면 바로 적용합니다.
OSD 설정 적용을 하더라도 모니터 설정 내용은 저장되지 않습니다.

4. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.

오디오 설정

네트워크 비디오 디코더와 연결된 오디오의 입, 출력 값을 설정할 수 있습니다.

1. 설정 메뉴에서 <오디오 & 비디오 ()> 탭을 선택하세요.
2. <오디오 설정>을 클릭하세요.
3. 오디오 출력 레벨을 설정하세요.
 - 오디오 출력 : 오디오 사용 여부와 사용시 출력 방식을 선택합니다.
 - 게인 : <라인 출력> 선택시 활성화 되며, 입력값을 설정합니다.



- 
 - 등록된 장치에 오디오 입력이 가능하고 오디오 설정이 되어 있을 경우만 오디오가 출력됩니다.
 - 오디오 출력방식중 HDMI는 화면표시 설정의 모니터가 HDMI로 설정된 경우에만 설정이 가능합니다.
 - 오디오 입력이 큰 경우 디코더의 오디오 출력이 손상될 수 있으니, 오디오 입력의 크기를 조정하세요.
4. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.

설정 화면

네트워크 설정하기

인터페이스

1. 설정 메뉴에서 <네트워크 ()> 탭을 선택하세요.

2. <인터페이스>를 클릭하세요.

3. <연결 모드>와 <IPv6 설정>을 설정하세요.

- IP 타입 : IP 연결 방식을 선택합니다.
 - 수동 : IP주소, 서브넷마스크, 게이트웨이, DNS1, DNS2를 설정합니다.
 - DHCP : DNS1, DNS2를 설정합니다.
 - <수동>으로 설정하면 IP 주소, 서브넷마스크, 게이트웨이, DNS1,2 항목을 직접 입력해야 합니다.
- MAC 주소 : 네트워크 비디오 디코더의 MAC 주소를 보여줍니다.
- IP 주소 : 현재 설정된 IP 주소를 표시합니다.
- 서브넷마스크 : 설정된 IP 주소의 <서브넷마스크>를 표시합니다.
- 게이트웨이 : 설정된 IP 주소에 대한 <게이트웨이>를 표시합니다.
- DNS1/DNS2 : DNS(Domain Name Service) 서버의 주소를 표시합니다.
- HTTP 포트 : 웹 브라우저를 이용하여 네트워크 비디오 디코더에 접속할 때 사용되는 HTTP 포트입니다. 기본값은 80(TCP)입니다.
- IPv6 사용 : IPv6 사용 여부를 선택하세요.
- IPv6 주소 : IPv6망에서 접속 가능하도록 IPv6 주소를 얻습니다.

4. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.



SSL

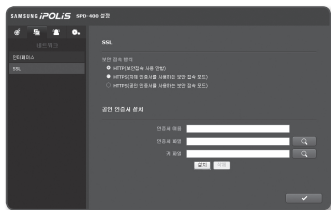
보안 접속 방식을 선택하거나 공인 인증서를 설치할 수 있습니다.

1. 설정 메뉴에서 <네트워크 ()> 탭을 선택하세요.

2. <SSL>을 클릭하세요.

3. 보안 접속 방식을 선택하세요.

- HTTPS 모드를 사용해 네트워크 비디오 디코더에 접속하려면 네트워크 비디오 디코더의 IP 주소를 `https://<Network Decoder_IP>`로 입력해야 합니다.



4. 네트워크 비디오 디코더에 설치할 공인 인증서를 검색하여 등록하세요.
네트워크 비디오 디코더에 공인인증서를 설치하려면 (사용자가 임의 지정 가능한) 인증서 이름, 인증기관에서 발행한 공인인증서 파일, 키 파일을 입력해야 합니다.

- <HTTPS(공인 인증서를 사용하는 보안 접속 모드)> 항목은 등록된 공인 인증서가 있을 경우만 선택할 수 있습니다.

5. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.

공인인증서 설치 방법

1. 공인인증서 이름을 입력하세요.
2. 설치할 공인인증서 파일 및 키 파일을 선택 후, [설치 ()] 버튼을 누르세요.

공인인증서 삭제 방법

1. [삭제 ()] 버튼을 누르세요.
2. 공인 인증서의 삭제는 <HTTP(보안접속을 사용안함)>이나, <HTTPS(자체인증서를 사용하는 보안 접속 모드)>로 접속한 경우에만 삭제가 가능합니다.

설정 화면

이벤트 설정하기

알람 입력

네트워크 비디오 디코더의 알람 입력 포트에 대한 알람 입력 방식과 동작 시간, 동작 형태를 설정할 수 있습니다.

1. 설정 메뉴에서 <이벤트 ()> 탭을 선택하세요.

2. <알람 입력>을 클릭하세요.

3. 입력 장치 유형을 선택하세요.

- 유형

- Normal open : 알람 센서가 일반적
으로 열린 상태이지만 닫힘 상태가
되면 알람이 발생합니다.
- Normal close : 알람 센서가 일반적
으로 닫힘 상태이지만 열림 상태가
되면 알람이 발생합니다.

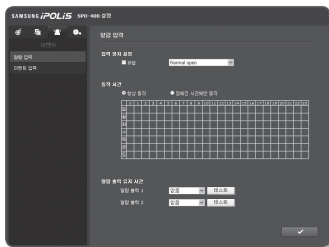
4. <동작 시간>을 설정하세요.

- 항상 동작 : 알람 발생 여부를 항상 확인합니다. 알람이 발생되면, 설정된 동작을 수행
합니다.
- 정해진 시간에만 동작 : 정해진 요일의 정해진 시간에만 알람 발생여부를 확인합니다.
알람이 발생되면, 설정된 동작을 수행합니다.

5. 알람 발생시 알람 출력 유지 시간을 설정하세요.

- 알람 출력 : 알람 입력시 알람 출력 시간을 설정합니다.
 - 알람출력 유지시간을 <항상동작>으로 설정할 경우 알람이 발생되면 오디오 & 비디오 페이지의
알람 해지 버튼을 클릭할때까지 알람출력이 유지됩니다.
- 테스트 : 연결된 알람 출력 장치에 설정된 알람 출력의 테스트를 실행합니다.

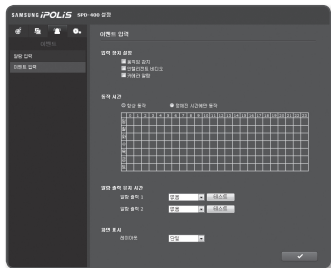
6. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.



이벤트 입력

네트워크 카메라 또는 인코더에서 발생한 알람에 대한 동작 시간, 동작 형태를 설정할 수 있습니다.

1. 설정 메뉴에서 <이벤트 ()> 탭을 선택하세요.
2. <이벤트 입력>을 클릭하세요.
3. 이벤트 입력 장치를 설정하세요.
 - 입력 장치 설정
 - 움직임 감지 : 연결된 장치의 움직임 감지 이벤트 발생시 알람으로 입력됩니다.
 - 인텔리전트 비디오 : 연결된 장치의 지능형 영상 분석 이벤트 발생시 알람으로 입력됩니다.
 - 카메라 알람 : 연결된 장치의 센서입력 이벤트 발생시 알람으로 입력됩니다



 ■ 레이아웃에 등록된 카메라가 각 기능을 지원하고 설정이 되었을 경우에만 동작합니다.

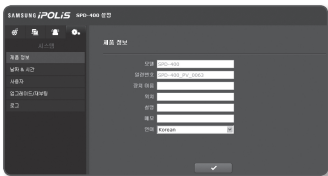
4. 동작 시간을 설정하세요.
 - <동작시간> 설정 방법은 “알람 입력”을 참조하세요. (40쪽)
5. 각 알람 별로 <알람 출력 유지 시간>을 선택하세요.
6. 이벤트 발생시 화면에 해당되는 장치의 영상을 출력할 <레이아웃 타입>을 선택하세요.
 <4분할>을 선택할 경우 두개의 4분할 레이아웃에 동일한 레이아웃이 중복되어 등록되어 있을 경우 상위 번호의 4분할 레이아웃이 선택되어 출력됩니다.
 이벤트가 발생되면 화면표시 설정에 따라서 이벤트가 발생한 레이아웃이 선택되고 알람 테두리와 알람메세지 표시가 오디오 & 비디오 페이지의 알람 해지 버튼을 클릭할 때까지 유지됩니다.
 알람 해지 버튼이 클릭되면 화면출력은 이벤트 발생하기 이전의 레이아웃으로 복귀됩니다.
7. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.

설정 화면

시스템 설정하기

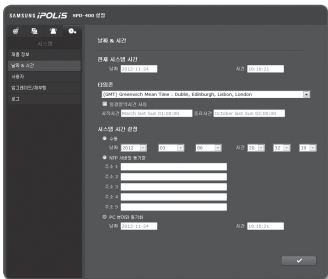
제품 정보

1. 설정 메뉴에서 <시스템 ()> 탭을 선택하세요.
2. <제품 정보>를 클릭하세요.
3. 네트워크 비디오 디코더의 정보를 확인하거나 설치 환경에 맞도록 상세사항을 입력하세요.
 - 장치 이름 : 네트워크 비디오 디코더의 이름을 입력합니다
 - 위치 : 네트워크 비디오 디코더가 설치된 위치를 입력합니다.
 - 설명 : 네트워크 비디오 디코더에 설치 위치에 대한 세부 정보를 입력합니다.
 - 메모 : 사용자가 쉽게 식별할 수 있도록 내용을 입력합니다.
 - 언어 : 웹뷰어에 표시될 언어를 선택합니다.
4. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.



날짜 & 시간

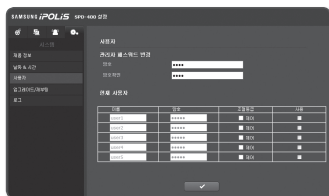
1. 설정 메뉴에서 <시스템 ()> 탭을 선택하세요.
2. <날짜 & 시간>을 클릭하세요.
3. 네트워크 비디오 디코더에 적용될 시간을 설정하세요.
 - 현재 시스템 시간 : 시스템 시간 설정의 설정 내용에 따른 시간을 표시합니다.
 - 타임존 : 표준시(GMT)를 기준으로 거주 지역의 시간대를 설정합니다.
 - 일광절약시간 사용 : 선택된 타임존이 일광절약시간이 적용되는 지역일 경우 일광절약시간 사용여부를 선택할 수 있습니다.



- 시스템 시간 설정 : 시스템에 적용될 시간을 설정합니다.
 - 수동 : 수동으로 시스템 시간을 설정합니다.
 - NTP 서버와 동기화 : 입력된 서버 주소의 시간과 동기화됩니다.
 - PC 웹뷰어 동기화 : 연결된 PC와 시간이 동기화됩니다.
4. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.
-  ■ <PC 웹뷰어와 동기화>를 선택하신 경우, 네트워크 비디오 디코더의 표준 시간대도 현재 PC에 설정되어 있는 표준 시간대와 동일하게 설정하셔야 합니다.

사용자

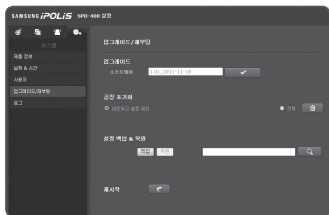
1. 설정 메뉴에서 <시스템 ()> 탭을 선택하세요.
2. <사용자>를 클릭하세요.
3. 사용자 정보를 설정하세요.
 - 관리자 패스워드 변경 : 현재 등록된 관리자의 패스워드를 변경합니다.
 - 제품상에 초기 설정된 비밀번호는 노출의 위험이 있으므로, 제품 설치 후 즉시 새로운 비밀번호로 변경하세요.
변경되지 않은 초기 비밀번호로 인한 보안 및 기타 문제의 책임은 사용자에게 있으므로 각별히 주의하세요.
 - 현재 사용자 : 접근을 허용할 사용자를 <사용함>으로 선택할 경우 사용자 정보 변경과 조절 등급 조정이 가능합니다.
 - 제어 : 설정할 경우 사용자 설정을 제외한 모든 메뉴를 제어할 수 있습니다.
 - 사용 : 사용자 아이디 사용 여부를 선택합니다.
4. 설정이 완료되면 [적용 ()] 버튼을 클릭하세요.



설정 화면

업그레이드/재부팅

1. 설정 메뉴에서 <시스템 ()> 탭을 선택하세요.
2. <업그레이드/재부팅>을 클릭하세요.
3. 원하는 설정 항목을 선택하세요.
 - 업그레이드 : 시스템 업그레이드를 실행합니다.
 - 공장초기화 : 시스템을 공장초기화 상태로 리셋합니다.
 - 네트워크 설정 제외 : 네트워크 설정을 제외한 나머지 설정정보를 초기화합니다.
 - 전체 : 네트워크 설정을 포함한 모든 설정 정보를 초기화합니다.
 - 설정 백업 & 복구 : 설정을 백업하고 복원을 실행합니다. 백업이나 복원후에는 자동으로 재시작합니다.
 - 재시작 : 시스템을 재시작합니다.

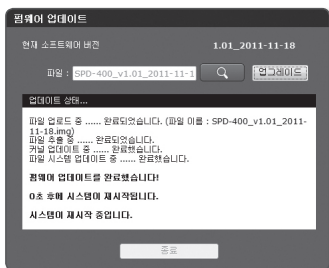


업그레이드를 실행하려면

1. [] 버튼을 클릭하세요.
2. [] 버튼을 클릭하여, PC에 존재하는 업그레이드 파일을 선택하세요.
3. [업그레이드] 버튼을 클릭하세요.
4. “업데이트 상태” 창이 나타나고 업그레이드 진행 상태를 보여줍니다.

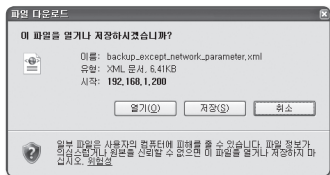


- 업그레이드 완료 전 강제로 종료할 경우 정상적으로 업그레이드 되지 않을 수 있습니다.



현재 설정 내용을 백업하고 백업한 설정을 복구하려면

1. [백업] 버튼을 클릭하세요.
파일 경로 설정창이 나타납니다.
2. 백업 경로를 선택하고 이름 입력 후 [저장(S)] 버튼을 클릭하세요.
현재 설정이 선택된 경로에 “.xml”파일 형태로 저장됩니다.
3. 백업된 설정을 복원하려면 복원할 파일을 선택하세요.
4. [복원] 버튼을 클릭하세요.
복원이 완료되면 자동으로 시스템이 재시작합니다.



설정 화면

로그

시스템 로그나 이벤트 로그를 확인할 수 있습니다.

1. 설정 메뉴에서 <시스템 ()> 탭을 선택하세요.

2. <로그>를 클릭하세요.

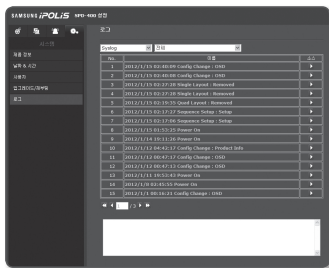
3. 원하는 로그 형태를 선택하세요.

- Syslog : 시스템 변동사항을 기록한 로그 정보를 시간과 함께 확인할 수 있습니다.
- Evtlog : 시스템에 발생한 이벤트 로그 정보를 시간과 함께 확인할 수 있습니다.

4. 로그 선택 우측의 항목 선택란에서 원하는 검색 항목을 선택하세요.

- 이벤트/시스템 로그에서 <All> 선택시 해당로그의 전체 항목을 보여줍니다.

5. 로그 목록이 많을 경우 하단의 이동 버튼으로 이전, 이후, 처음, 마지막 목록으로 이동하세요.



- 각각의 로그 메시지 우측의 [소스 ()] 버튼 클릭시 해당 로그 메시지의 세부 내용을 맨 아래 창에서 확인할 수 있습니다.
- 각 페이지 마다 15개씩 로그 메시지가 보이며 가장 최근에 발생한 로그 메시지부터 확인할 수 있습니다.
- 이벤트/시스템 로그마다 각각 최대 500개씩 기록이 되며, 이후에는 가장 오래된 메시지부터 하나씩 삭제됩니다.

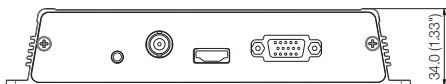
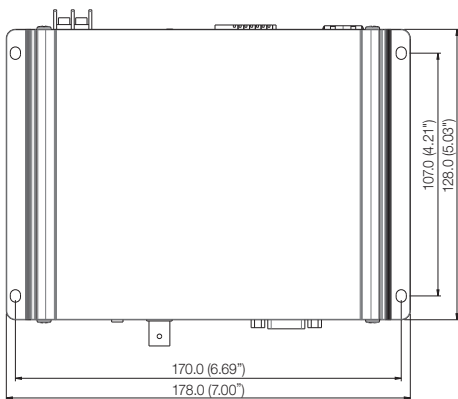
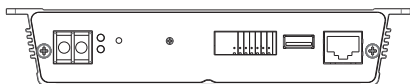
사양

항 목		내 용
영상 출력	영상 출력	1) HDMI / VGA : Max 1920x1080p (HDMI, VGA 동일 해상도 출력) 1920x1080p, 1680x1050, 1600x900, 1440x900, 1280x1024, 1280x720p, 1024 x 768 2) CVBS : 1.0 Vp-p / 75Ω composite 704x480 3) HDMI/VGA, CVBS 선택
	전송지연	1) H.264 : 최대 3.5초 2) MPEG-4 : 최대 2초 3) MJPEG : 최대 2초
	이벤트 검출	알람 입력, 네트워크 카메라 이벤트 입력
	알람	입력 1개 / 출력 2개 (Relay)
네트워크	이더넷	RJ-45 (10/100/1000BASE-T)
	비디오 압축 방식	H.264, MPEG-4, MJPEG
	해상도	1) H.264 - Single View : 1920x1080p ~ 320x240 - Quad View : 1280x720p ~ 320x240 (800x600 제외) 2) MPEG-4 : - Single View : 4CIF ~ 320x240 - Quad View : 4CIF ~ 320x240 3) MJPEG : - Single View : 1280x720p ~ 320x240 (800x600 제외) - Quad View : 1280x720p ~ 320x240 (800x600 제외) 1920x1080p, 1280x1024, 1280x720p, 704x576, 704x480, 640x480, 352x288, 352x240, 320x240
	최대 프레임레이트	최대 30fps at single view, 최대 120fps at 4x(640x480), 최대 100fps at 4X4CIF, 최대 60fps at 4x720p (Audio Disable 조건)
	디스플레이	단일 레이아웃, 4분할 레이아웃

항 목		내 용
네트워크	오디오 입/출력 단자	라인 출력 1개
	오디오 압축 방식	G.711, G.726
	IP	IPv4, IPv6
	프로토콜	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), NTP, HTTP, DHCP, ICMP, IGMP, ARP, SSL, DNS
	보안	HTTPS(SSL) 인증 방식 사용자 접속 로그 기록
	카메라 등록	64 카메라, 8 레이아웃, 10 시퀀스
	ONVIF 대응	지원 안함
	지원 장치	삼성 네트워크 카메라 (*) Axis : P3301, P3343, P3344, P1311, P1343, P1344, P1346, PTZ215, Q6032, Q7401, Q7404 (F/W ver : 5.x) 1) Stream(Live Video/Audio) : SVNP1.2 (AXIS : RTP/RTSP) 2) Control/Network alarm : SVNP1.2 (AXIS : 지원안함) * 최신 호환 모델에 대한 정보는 구입처에 문의하세요.
동작 환경	웹뷰어	지원 OS : Windows XP / VISTA / 7 지원 웹브라우저 : Internet Explorer 7.0 또는 8.0, Firefo x2.x, 3.x, Chrome, Safari
	동작 온/습도	+0°C ~ +40°C / 0% ~ 90% RH
전원	사용전원	DC 12V
	소비 전력	최대 10W
외관	색상 / 재질	은색 / 메탈
	외형 치수 (WxHxD)	W178.0 x H34.0 x D128.0mm (W7.00 x H1.33 x D5.03inch)
	무게	530g

외관도

단위 : mm (inch)



문제 해결하기

문제	해결
브라우저로 네트워크 비디오 디코더에 접속되지 않아요.	- 네트워크 비디오 디코더의 전원을 다시 인가하여도 동일할 경우에는 [RESET] 스위치를 5초간 눌러서 네트워크 비디오 디코더의 설정을 초기화하세요. - 네트워크 케이블은 연결이 올바르게 되어 있는지 확인하세요. - DHCP로 연결하는 경우 네트워크 비디오 디코더가 정상적으로 유동 IP를 획득했는지 확인하세요.
Internet Explorer 7.0 이상에서 탭 브라우저로는 접속이 되지 않아요.	탭으로 접속하는 경우 같은 쿠키 정보를 공유하기 때문에 탭으로 접속 시 오류가 납니다. 따라서, 탭을 사용하지 말고 새로운 창을 열어 사용하세요.
IP Installer 프로그램에서 네트워크에 연결된 네트워크 비디오 디코더가 검색되지 않아요.	PC의 방화벽 설정을 해제하신 후 다시 검색하시기 바랍니다.
모니터로 영상이 출력되지 않아요.	- 네트워크 비디오 디코더의 비디오 출력모드에 맞게 모니터가 연결되었는지 확인하세요. - 네트워크 비디오 디코더의 비디오 출력 해상도와 모니터의 지원되는 해상도를 확인하세요.
모니터에 로고만 출력되고 다른 화면으로 전환되지 않아요.	네트워크 비디오 디코더의 전원을 다시 인가하여도 동일할 경우에는 [RESET] 스위치를 5초간 눌러서 네트워크 비디오 디코더의 설정을 초기화하세요.

OPEN SOURCE ANNOUNCEMENT

Some software components of this product incorporate source code covered under the BSD license as follows.

Component Name	License	License URL
lighttpd 1.4.25	BSD 2.0	http://www.opensource.org/licenses/bsd-license.html
librtmp 1.20	BSD 1.0	
Live555	GPL 2.1	http://www.opensource.org/licenses/LGPL-2.1

lighttpd is a secure, fast, compliant, and very flexible web-server that has been optimized for high-performance environments. It has a very low memory footprint compared to other web servers and takes care of cpu-load. Its advanced feature-set (FastCGI, CGI, Auth, Output-Compression, URL-Rewriting and many more) make lighttpd the perfect webserver-software for every server that suffers load problems.

Simple Network Management Protocol (SNMP) is an Internet-standard protocol for managing devices on IP networks. It is used mostly in network management systems to monitor the devices attached to the network for conditions that need administrative attention. Net-SNMP is a suite of applications used to implement SNMP v1, SNMP v2c and SNMP v3 using both IPv4 and IPv6.

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

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Version 2.1, February 1999

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- 제품과 관련된 타기기의 설치, 설명 요청시

[3] 단순 분해조립, 간단조정, S/W 업그레이드 등으로 서비스 요청한 경우

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