

네트워크 카메라

제품 사용 설명서

XNP-6550RH

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네트워크 카메라

제품 사용 설명서

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- 시스템 운용과 관련 없는 프로그램을 실행하여 시스템이 잘못된 동작을 한 경우
- 시간 경과에 따른 제품의 변화 또는 사용 중 자연적 마모에 의한 이상

※ 제품의 외관, 사양등은 성능 개선을 위해 예고 없이 변경될 수 있습니다.

※ 최초 관리자 ID는 “admin”이며, 비밀번호는 최초 로그인 시 설정해야 합니다.

안전하게 개인정보를 보호하고, 개인정보도용 피해를 예방하기 위해 3개월 마다 주기적으로 비밀번호를 변경하세요.

부주의한 비밀번호 관리로 인한 보안 및 기타 문제의 책임은 사용자에게 있으므로 각별히 주의하세요.

안전을 위한 주의사항

제품을 올바르게 사용하여 위험이나 재산상의 피해를 미리 막기 위한 내용입니다. 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.
--	--------------------------------------	---	--

전원 관련		
 경고		
전원 및 신호선 연결 시 외부 연결 단자를 확인하고 연결하세요. 알람 단자에는 알람 신호선을 연결하고, AC 전원 입력 단자에 AC 어댑터를 올바르게 연결하세요. 전원을 잘못 연결하면 화재, 감전, 고장의 원인이 됩니다.	연기가 나거나 이상한 냄새가 날 때는 사용을 중단하세요. 이때는 곧바로 전원을 분리 후 서비스 센터에 연락 해주세요. 그대로 계속 사용하면 화재, 감전의 원인이 됩니다.	
 주의		
전원 연결단자에 전원선을 확실히 고정 후 사용하세요. 접속이 불완전한 경우는 화재의 원인이 됩니다.	어댑터 출력 케이블을 연장하여 사용하지 마세요. 전원 케이블 연장 설치가 필요한 경우 서비스 센터에 문의하세요.	
설치 관련		
 경고		
반드시 본 제품 구입 시 제공된 어댑터를 사용하세요. 화재, 감전, 고장의 원인이 됩니다.	천동, 번개가 치면 카메라에 문제가 생길 수 있습니다. 설치 시 접지 등 낙뢰에 의한 파손이 최소화될 수 있도록 주의하세요.	카메라와 인스톨베이스 구성품은 동일 모델의 제품으로 체결하여 설치해 주세요. 두 부품 체결전 반드시 제품 모델명을 확인해 주세요. 다른 모델의 구성품과 혼용시 제품 파손의 위험이 있습니다.
 주의		
카메라를 벽이나 천장 등에 설치 시 안전하고 확실하게 고정하세요. 낙하로 인한 부상의 원인이 됩니다.	카메라 위에 전도성 물질(드라이버, 동전, 쇠붙이 등) 및 물이 차있는 용기 등을 놓지 마세요. 화재, 감전, 낙하로 인한 상해의 원인이 됩니다.	하나의 어댑터에 여러대의 카메라를 연결해서 사용하지 마세요. 용량 초과 시 이상 발열 및 화재의 원인이 됩니다.
카메라 설치/분리시 보호용 장갑을 착용하세요. 제품 표면의 고온에 의한 화상의 원인이 됩니다.	무리한 힘을 가하여 역지로 제품을 설치할 경우 오동작으로 인해 카메라에 손상을 줄 수 있습니다. 규격에 맞지 않는 도구를 사용하여 강제로 조립할 경우 제품이 파손될 수 있습니다.	제품이 설치되는 장소에 화학 물질 또는 유증기가 있거나 발생될 수 있을 경우 제품을 설치하지 마세요. 곰팡이와 같은 식용 기를 성분도 제품의 파손 및 변형을 유발할 수 있으므로, 주방 또는 조리대 근처에는 설치하지 마세요. 제품 손상의 원인이 될 수 있습니다.

제품 설치시 화학 물질이 제품 표면에 묻지 않도록 주의하세요. 일부 세척제나 접착 성분과 같은 화학 용제는 제품 표면에 치명적인 손상을 줄 수 있습니다.	당사에서 권장하지 않는 방법으로 제품을 설치/분해하는 경우 제품의 기능/성능을 보장할수 없습니다. 제품 사용 설명서의 '설치 및 연결'을 참조하여 설치하세요.	제품을 물 속에서 설치 또는 사용할 경우 제품의 심각한 고장을 일으킬 수 있습니다.
Pan / Tilt / Zoom 모터 및 Slip ring은 연속 동작할 경우 부품수명은 1년을 보증합니다.		
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(55℃ 이상) 이나 낮은 곳, 습도가 높은 곳에 설치하지 마세요. 화재, 감전의 원인이 됩니다.
직사광선이 들어오는 곳이나 난방기구 등 열이 나는 곳을 피해주세요. 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 깨끗하고 부드러운 마른 헝겊으로 오염 부위를 닦거나 부드러운 마른 헝겊에 물을 적서 물이 흐르지 않도록 꼭 짰 후에 오염 부분을 닦으세요. 알코올, 솔벤트가 함유되거나, 계면활성제가 함유된 세제, 화장품류, 기름 성분등은 제품의 파손 및 변형을 유발할수 있으니 사용하지 마세요.	

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Open Source Announcement

설치 및 사용상의 주의

- 배터리(배터리 팩 또는 장착된 배터리)가 햇빛, 불 등과 같은 과도한 열에 노출되어서는 안됩니다.
- 배터리는 교체가 불가능합니다.
- 사용자 임의로 카메라를 분해하지 마세요.
- 카메라 취급 시 항상 주의하세요.
- 카메라를 주먹으로 치거나 흔들지 않도록 하고 부주의한 보관이나 오동작으로 카메라에 손상을 입히지 않도록 주의하세요.
- 카메라를 비가 오는 장소나 습기가 많은 장소에 설치하지 않도록 주의하고 젖은 장소에 두고 동작하지 마세요.
- 제품 표면은 깨끗하고 부드러운 마른 헝겊으로 오염 부위를 닦거나 부드러운 마른 헝겊에 물을 적서 물이 흐르지 않도록 꼭 째 후에 오염 부분을 닦으세요.
(알코올, 솔벤트가 함유되거나, 계면활성제가 함유된 세제, 화장품류, 기름 성분등은 제품의 파손 및 변형을 유발할 수 있으니 사용하지 마세요.)
- 카메라를 직사광선이 비치지 않는 서늘한 곳에 설치하세요.
직사광선이 비치는 곳에 두면 제품에 좋지 않은 영향을 줄 수 있습니다.
- 무리한 힘을 가하여 억지로 제품을 설치 할 경우 오동작으로 인해 카메라에 손상을 줄 수 있습니다.
규격에 맞지 않는 도구를 사용하여 강제로 조립할 경우 제품이 파손될 수 있습니다.
- 제품이 설치되는 장소에 화학 물질 또는 유증기가 있거나 발생할 수 있을 경우 제품을 설치하지 마세요.
공기청와 같은 식용 기름 성분도 제품의 파손 및 변형을 유발할 수 있으므로, 주방 또는 조리대 근처에는 설치하지 마세요. 제품 손상의 원인이 될 수 있습니다.
- 제품 설치시 화학 물질이 제품 표면에 묻지 않도록 주의하세요.
일부 세척제나 접착 성분과 같은 화학 용제는 제품 표면에 치명적인 손상을 줄 수 있습니다.
- 제품을 물 속에서 설치 또는 사용할 경우 제품의 심각한 고장을 일으킬 수 있습니다.
- Micro SD 메모리 카드를 구부리거나 던지지 마세요.
- 온도가 높은 곳, 습기가 많은 곳, 먼지가 많은 곳에 Micro SD 메모리 카드를 보관하거나 사용하지 마세요.
- Micro SD 메모리 카드 단자에 이물질이 묻지 않도록 주의하세요.
이물질이 묻은 경우에는 부드러운 헝겊으로 닦아주세요.
- Micro SD 메모리 카드를 빼기 전 <자장>에서 장치를 <사용 안 함>으로 설정하고 [적용] 버튼을 누른 후 카메라 전원을 끄세요.
- Micro SD 메모리 카드의 수명이 다하면 데이터가 저장되지 않습니다.
이러한 경우에는 Micro SD 메모리 카드를 새로 구입하세요.
- 본 제품을 설치하기 전 또는 사용 중에 한화비전 웹 사이트 <https://www.HanwhaVision.com> 을 방문하셔서 최신 S/W 버전을 확인하시고 다운로드하여 업데이트하세요.
- 제품 CVBS 출력단자는 카메라 설치 편의성을 위한 단자이며 감시용으로 부적합합니다.
- 제품에 강한 충격을 가할 경우, 카메라 파손 또는 우천시 침수의 원인이 될 수 있습니다.
- 렌즈 커버 및 조광기 커버가 이물질로 인해 오염된 경우에는 화상 및 화질에 영향을 미치므로 정기적으로 청소를 하여 주십시오.
- 렌즈 전면부의 보호시트는 설치공사 완료 후에 제거하세요.
- 주위온도가 -50°C 이하의 환경에서는 사용할 수 없습니다.
- 50°C 환경에서 제품 설치 장소에 따라 해동되지 않을 수 있습니다.
- 저온 환경에 제품이 방치된 경우, 정상 동작하는데 최대 2시간이 소요됩니다.
- 20°C 이하 환경에 제품 방치 후 전원을 켜 경우, 필요에 따라 시간을 재설정하세요.
- 제품이 정상 동작시 프리셋의 정밀도는 0.2°입니다. 정전, 펄웨어 업그레이드 등으로 인한 재부팅시에는 프리셋 설정이 변경되었는지 확인 후 오차 조정이 필요할 수 있습니다.
- 보안강화를 위하여 특수문자, 숫자, 영문 대문자, 소문자 중 다양한 조합으로 비밀번호를 설정하여 사용하시기를 권장합니다.
- 당사에서 권장하지 않는 방법으로 제품을 설치/분해하는 경우 제품의 기능/성능을 보장할 수 없습니다.
제품 사용 설명서의 “설치 및 연결”을 참조하여 설치하세요.
- 특정한 설치 환경에서 무선 통신에 간섭이 발생할 수 있습니다. 제품과 주변 무선통신 장비 간 전자파 간섭이 발생하는 경우, 무선통신 장비와 거리를 넓히거나 통신용 안테나 방향을 조정하는 것을 권장합니다.

PC 시스템 권장 사양

- CPU : Intel(R) Core(TM) i7 3.4 GHz 이상
 - RAM : 8G 이상
 - 지원 OS : MS Windows, Mac OS X
 - 권장 브라우저 : Google Chrome
지원 브라우저: MS Explorer, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OSX only)
- ※ 검증된 OS 및 브라우저 상세 버전 정보는 부록을 참고하세요.

Micro SD/SDHC/SDXC 메모리 카드 권장 사양

- 권장 용량 : 16GB ~ 256GB (MLC타입)
- 본 카메라는 다음과 같은 제조사 제품군의 메모리 카드 사용을 권장합니다.
- 제조사 : Sandisk, Transcend
- 제품군 : High endurance

NAS 권장 사양

- 권장 용량 : 200GB 이상을 권장합니다.
- 동시접속 : NAS 1대당 최대 16대의 카메라 접속이 가능합니다.
- 본 카메라는 다음과 같은 제조사의 NAS 사용을 권장합니다.

권장 제품	가능 크기
Netgear NAS	최대 16대 카메라 접속 가능
Synology NAS	최대 16대 카메라 접속 가능



- Netgear사의 NAS 장비 사용 시 할당용량을 설정하여 사용하지 마세요.
- NAS 장비를 영상 저장 이외의 용도로 사용할 경우 접속 가능한 카메라 최대 대수가 줄어들 수 있습니다.

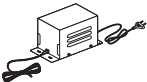


한화비전은 지구환경보전을 위하여 제품과 관련된 전 과정에서 환경을 고려하고 있으며, 고객에게 보다 친환경적인 제품을 제공하기 위하여 다양한 활동을 추진하고 있습니다.
에코(Eco)마크는 친 환경제품을 만들기 위한 한화비전의 의지이며, 유럽의 환경규제(RoHS)에 만족하는 제품임을 의미합니다.

개요

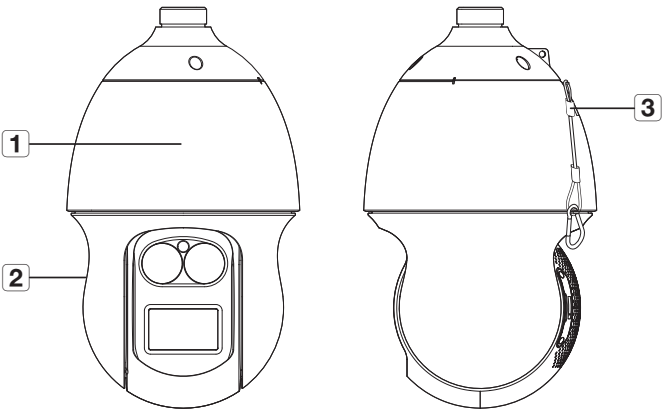
구성품 확인하기

다음의 구성품이 모두 포함되어 있는지 확인하세요.
(부속 액세스러리는 판매국에 따라 다를 수 있습니다.)

외관	품명	수량	용도
	본체	1	
	퀵가이드	1	
	전원 어댑터 (AC 24V, 6A)	1	전원 연결시 사용
	BNC 케이블	1	휴대용 디스플레이에 연결하여 카메라 테스트
	오디오/RS-485 케이블	1	오디오 및 RS-485 단자 연결시 사용
	육각나사	3	인스톨 베이스와 카메라 본체 결합에 사용
	L 렌치	1	인스톨 베이스와 카메라 본체 결합 후 고정시 사용
	인스톨 베이스	1	제품 설치를 위한 브라켓
	방수 약세서리	1	습기가 많은 곳에 설치시 사용

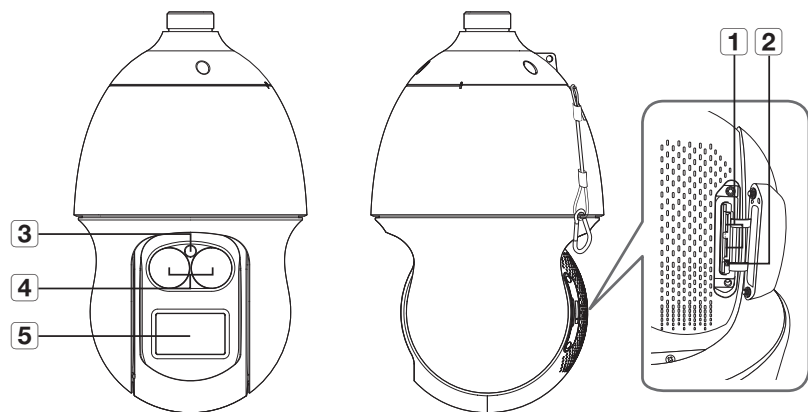
각 부분의 명칭 및 기능

외부



명칭	기능설명
1 본체	내부 PTZ 메커니즘을 직사광선과 빔, 외부 충격으로부터 보호합니다.
2 렌즈 커버	렌즈 및 본체를 보호하기 위해 씌우는 뚜껑입니다.
3 안전케이블	설치시 제품의 추락을 방지하는 케이블입니다.

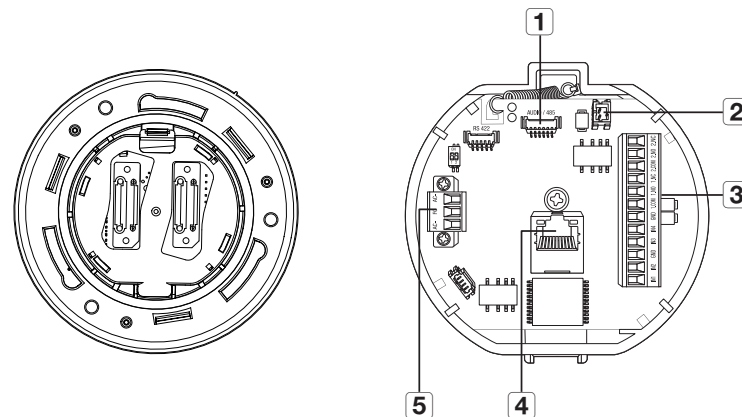
내부 구성



명칭	기능설명
1 Micro SD 메모리 카드 삽입구	Micro SD 메모리 카드를 삽입하기 위한 단자입니다. Micro SD 메모리 카드 삽입구의 위치는 <Micro SD 메모리 카드 넣기/빼기>를 참고하세요. (8쪽)
2 초기화 버튼	카메라의 설정을 공장 값으로 초기화하는 버튼입니다. 약 5초간 누르면 재부팅됩니다. 카메라를 초기화하면 네트워크 설정은 DHCP를 사용하도록 변경됩니다. 네트워크 내에 DHCP 서버가 없는 경우는, 디바이스 매니저 프로그램을 이용해 기본적인 네트워크 설정(IP Address, Subnet Mask, Gateway 등)을 다시 해야 접속이 가능합니다.
3 조도 센서	수신되는 빛을 감지하여 IR LED를 제어합니다.
4 IR LED	조도 센서에 의해 제어되는 적외선 LED입니다.
5 렌즈	카메라 렌즈입니다.

설치면

인스톨 베이스 내부



명칭	기능설명
1 오디오/RS-485 연결 단자	오디오 및 RS-485 케이블을 연결하는 단자입니다.
2 비디오 출력 단자	아날로그 비디오 신호 출력 단자입니다. (설치용)
3 알람 입출력 단자	알람 입출력 케이블을 연결하는 단자입니다.
4 네트워크 연결부	이더넷 케이블을 통하여 네트워크와 연결하는 단자입니다.
5 전원 연결 단자	전원을 연결하는 단자입니다.

설치 및 연결

설치하기

- 본 카메라는 IP66 규격으로 방수제품이지만, 외부 케이블에 연결되는 잭 부분은 방수가 되지 않습니다. 본 제품 설치 시 케이블 외부 노출 방지를 위하여 지붕 처마 밑 설치를 권장합니다.

설치 전 유의사항

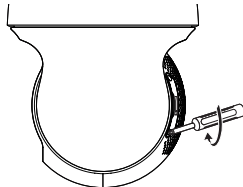
카메라를 설치하기 전, 아래의 주의 사항들을 반드시 숙지하세요.

- 카메라 무게의 5배를 견딜 수 있는 장소에 설치하셔야 합니다.
- 케이블이 부적절한 곳에 끼이거나 전선의 피복이 손상될 경우 제품의 손상이나 화재로 이어질 수 있으므로 주의하세요.
- 카메라를 설치할 때, 다른 사람이 설치 장소에 접근하는 일이 없도록 해야 합니다.
그리고 귀중품이 아래에 놓여 있다면 즉시 치우세요.
- 무리한 힘을 가하여 억지로 제품을 설치할 경우 오동작으로 인해 카메라에 손상을 줄 수 있습니다.
규격에 맞지 않는 도구를 사용하여 강제로 조립할 경우 제품이 파손될 수 있습니다.

Micro SD 메모리 카드 넣기

1. 드라이버를 이용하여 SD 홀더 브라켓에 있는 2개의 나사를 반시계 방향으로 풀어주세요.

- 카메라를 설치하기 전에 전원을 본체를 분리한 후 Micro SD 메모리 카드를 넣으세요.
- 비가 오거나 습도가 높은 날씨에는 Micro SD 메모리 카드 탈착을 권장하지 않습니다.
- Micro SD 메모리 카드 장착/제거 시에는 부품 유실 및 낙하사고를 방지하기 위해 반드시 제품 본체를 평지에 내려놓으신 후 작업하세요.
- 나사를 완전히 제거하지 마세요.

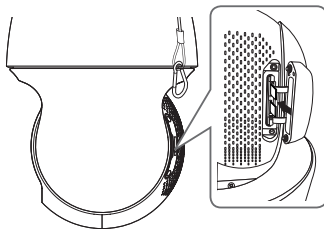


2. SD 홀더 브라켓을 위쪽으로 빼낸 후 그림과 같이 Micro SD 메모리 카드를 화살표 방향으로 밀어 넣으세요.

- 역방향으로無理하게 삽입하지 마세요. Micro SD 메모리 카드와 제품이 파손될 수 있습니다.

3. Micro SD 메모리 카드를 넣은 후 분리한 순서의 역순으로 조립하세요.

- 방수에 문제가 없도록 카메라 본체, 쉴드 커버, SD 홀더 브라켓 조립 시 나사를 단단히 조이세요.

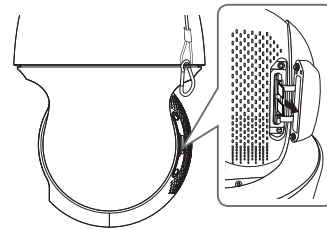


Micro SD 메모리 카드 빼기

그림과 같이 화살표 방향으로 끼워진 Micro SD 메모리 카드의 끝을 살짝 누르면 자동으로 조금 나옵니다.

- Micro SD 메모리 카드를 뺄 때 세게 눌렀다가 놓을 경우 Micro SD 메모리 카드가 튀어 나올 수 있으므로 주의하세요.

- Micro SD 메모리 카드를 빼기 전 <저장>에서 장치를 <사용 안 함>으로 설정하고 [적용] 버튼을 누른 후 카메라 전원을 끄세요.
- Micro SD 메모리 카드에 데이터를 저장하고 있을 때 Micro SD 메모리 카드를 빼거나 전원을 끄면 Micro SD 메모리 카드에 저장된 데이터가 손상될 수 있습니다.



카메라 브라켓 준비 및 설치하기

브라켓 및 하우징 설치 방법에 관한 사항은 각 브라켓, 하우징에 동봉된 설치매뉴얼을 참고하세요.

■ 설치 가능한 브라켓 모델 및 기능

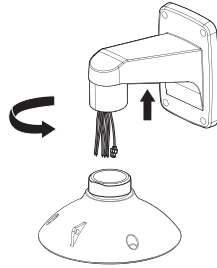
모델	명칭
SBP-300WM1	벽부형 마운트
SBP-300WM	
SBP-300CM	천장형 마운트
SBP-300LM	파라펫 마운트
SBP-300KM	코너 마운트
SBP-300PM	폴 마운트

- 각 별매 브라켓의 외관은 “설치 관련 별매 제품”을 참고하세요. (11쪽)

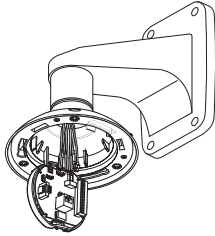
벽부 부착 방식으로 설치하기

■ 브라켓에 인스톨 베이스 고정

1. 브라켓에 인스톨 베이스를 시계방향으로 회전하면서 결합하세요.



2. 그림과 같이 인스톨 베이스의 하단부에 있는 힌지도어의 손잡이 부분을 가볍게 누르고 아래로 내려주세요. 12쪽의 “**카메라 배선부**”를 참고하여 배선을 연결하세요.

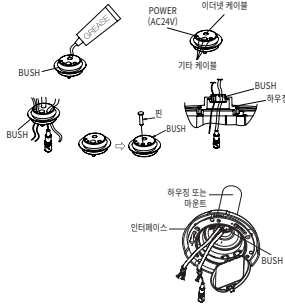


❗ ■ 제품의 전원은 최종 단계에서 인가하세요. 설치 도중에 전원을 투입할 경우 제품의 파손 및 화재의 위험이 있습니다.

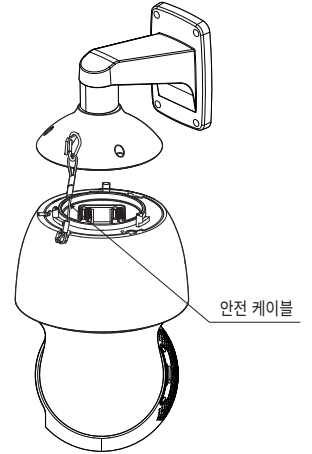
☑ 케이블 연결방법을 확인하고 장착하세요.

■ “**파이프 또는 마운트**”들을 통해서 외부의 습기가 유입될 수 있는 장소에 “**하우징**”을 설치할 때에는 악세서리로 포함된 BUSH를 사용하여, 외부 습기의 유입을 차단해주세요.

- BUSH에 그리스를 적당량 도포한후, 케이블들을 BUSH의 각홀에 맞추어 체결합니다. 케이블이 체결되지 않는 홀에는 PIN을 사용하여 홀을 막습니다.
- BUSH를 아래 그림처럼 하우징 내측 상단에 체결해 줍니다. 이때, BUSH를 전체적으로 눌러주어서 BUSH가 단면도에서 같이 “**하우징**”에 정확히 체결되도록 합니다.



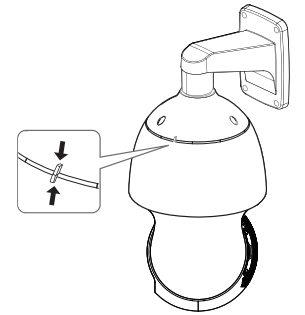
3. 카메라 본체의 안전케이블을 인스톨 베이스에 장착하세요.



4. 카메라와 인스톨 베이스 결합

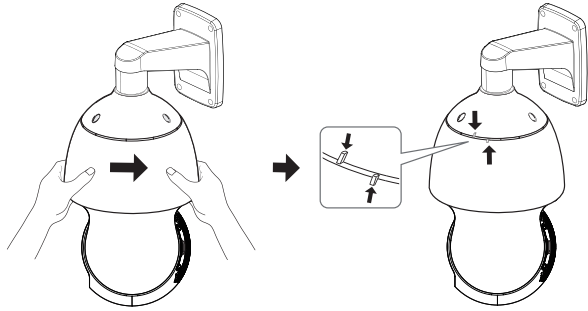
인스톨 베이스와 카메라 본체의 방향 참고 표시가 들어맞도록 결합하세요.

5. 카메라 장착

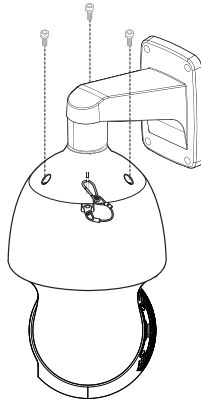


설치 및 연결

카메라 본체를 시계 방향으로 돌려서 위, 아래의 참고 표시부가 그림과 같이 되도록 회전시키세요.



6. 카메라와 인스톨 베이스 고정
그림과 같이 육각나사 3개를 이용하여 인스톨 베이스와 카메라를 고정시키세요.



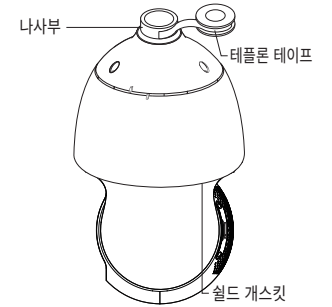
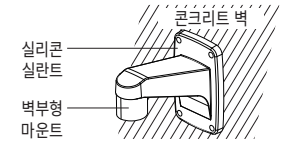
방수를 위한 유의사항

본 모델은 실외 설치용 하우징 일체형 제품입니다.

■ 본체와 벽부형 마운트를 조합하여 벽에 설치할 경우

1. 수직인 벽에 벽부형 마운트를 설치하세요. 경사가 있는 벽면에 설치할 경우, 외부 케이블을 통해서 습기가 본체 내부로 유입될 수 있습니다.
2. 하우징 몸체의 나사부에 테플론 테이프를 충분히 감아 조립하세요.
3. 실드 커버를 분리하여 하우징 몸체에 체결시 실드 커버에서 개스킷이 빠지지 않도록 주의하세요.
4. 방수를 위하여 벽부형 마운트 어댑터를 설치한 후 벽과 벽부형 마운트 사이 및 테두리에 실리콘 실란트로 밀폐 처리를 하세요.

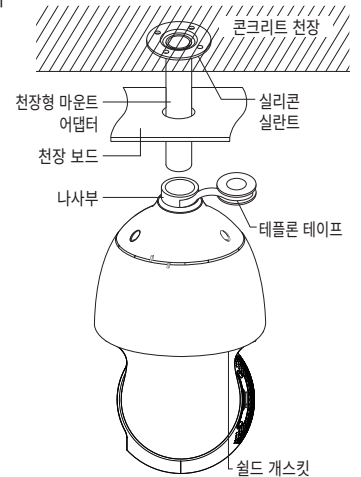
! ■ 설치면이 평탄하지 않을 경우 모든 틈이 밀폐될 수 있도록 특히 주의하세요.



■ 본체와 천장형 마운트 어댑터를 조합하여 벽에 설치할 경우

1. 하우징 몸체의 나사부에 테플론 테이프를 충분히 감아 조립하세요.
2. 실드 커버를 분리하여 하우징 몸체에 체결시 실드 커버에서 개스킷이 빠지지 않도록 주의하세요.
3. 방수를 위하여 천장형 마운트 어댑터를 설치한 후 벽과 천장형 마운트 사이 및 테두리에 실리콘 실란트로 밀폐 처리를 하세요.

! ■ 설치면이 평탄하지 않을 경우 모든 틈이 밀폐될 수 있도록 특히 주의하세요.

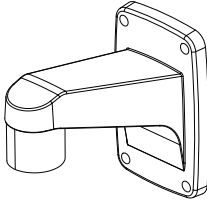


설치 관련 별매 제품

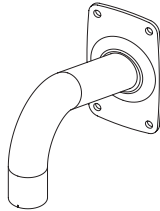
설치의 편리성 및 설치장소에 따라 다음의 별매 제품을 구입하여 설치하면 편리합니다.

1. 카메라를 벽에 설치할 경우

- 벽부형 마운트 (SBP-300WM1)

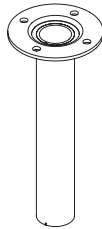


- 벽부형 마운트 (SBP-300WM)



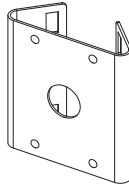
2. 카메라를 천장에 설치할 경우

- 천장형 마운트 (SBP-300CM)



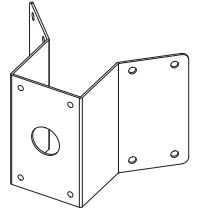
3. 80mm이상의 원기둥에 벽부형 마운트 (SBP-300WM/SBP-300WM1)를 설치할 경우

- 폴 마운트 (SBP-300PM)



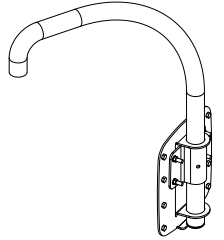
4. 벽의 모서리부에 벽부형 마운트 (SBP-300WM/SBP-300WM1)를 설치할 경우

- 코너 마운트 (SBP-300KM)



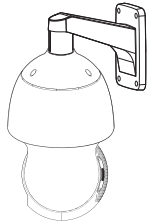
5. 건물 옥상에 설치할 경우

- 파라펫 마운트 (SBP-300LM)

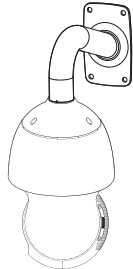


설치 및 연결

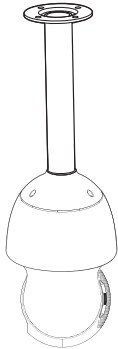
■ 마운트 결합



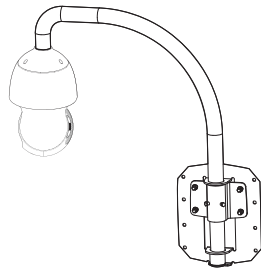
벽부형 마운트 (SBP-300WM1)



벽부형 마운트 (SBP-300WM)



천장형 마운트 (SBP-300CM)

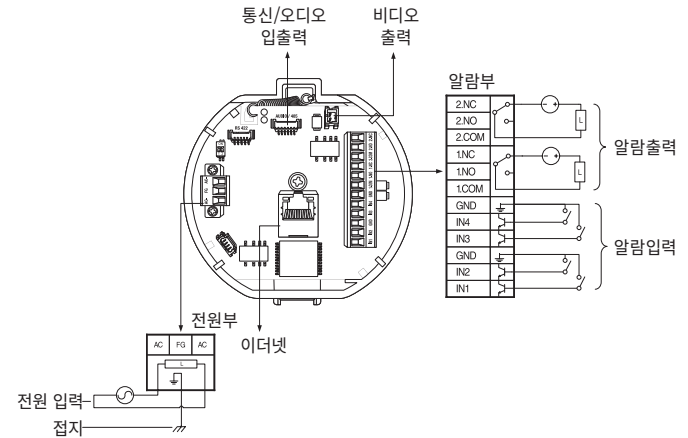


파라펫 마운트 (SBP-300LM)

다른 기기와 연결하기

카메라 배선부

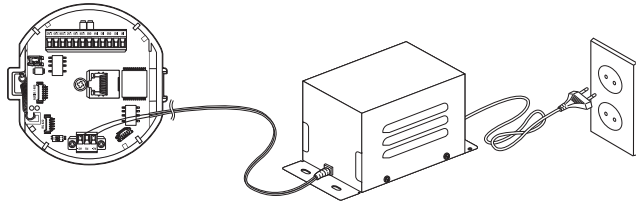
제품의 배선은 아래의 그림을 참고하세요.



- **!** 셋업 메뉴에서 Normal Open을 선택
 - 점점 방식인 경우 쇼트, 능동 방식인 경우 “LOW” 레벨일 때 센서 입력이 동작합니다.
- 셋업 메뉴에서 Normal Close를 선택
 - 점점 방식인 경우 오픈, 능동 방식인 경우 하이임피던스 상태(오픈 콜렉터)일 때 센서 입력이 동작합니다.
- 알람출력 단자의 최대용량은 30V DC/2A, 125V AC/0.5A, 250V AC/0.25A 입니다.
- 알람 입출력 케이블은 단자별로 반드시 하나씩 연결해주세요.
- 정격을 초과하는 제품을 연결하여 사용할 때에는 별도의 릴레이 구동 장치를 사용하세요.
- 전원과 GND를 NC/NO 포트와 COM 포트에 잘못 연결할 경우 화재 및 제품 파손이 발생할 수 있습니다.

어댑터 및 케이블 준비하기

- ! ■ 카메라와 전원 어댑터를 연결한 후 전원 어댑터의 플러그를 콘센트에 연결하세요.



정격 전압 및 전류를 정확히 확인하세요.

정격 전력	입력 전압 범위	전류 소비
AC 24V	AC 22V ~ 26V	6 A

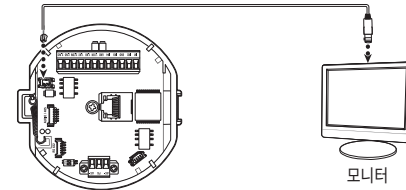
- ! ■ 주위온도가 -50°C 이하의 환경에서는 사용할 수 없습니다.
- -50°C 환경에서 제품 설치 장소에 따라 해동되지 않을 수 있습니다.
 - 저온 환경에 제품이 방치된 경우, 정상 동작하는데 최대 2시간이 소요됩니다.
 - -40°C 이하 환경에서 IR 조광기의 줌 연동속도가 느려질 수 있습니다.
 - -20°C 이하 환경에 제품 방치 후 전원을 켜 경우, 시간을 재설정하세요.
 - 외부기기 연결시에는 반드시 연결되는 장치의 전원을 끈 상태에서 연결하세요.
 - 세트와 어댑터 전원선을 먼저 연결한 후 전원 220V를 꽂습니다.
 - 어댑터 출력 케이블을 연장하여 사용하지 마세요.
전원 케이블 연장 설치가 필요한 경우 서비스 센터에 문의하세요.

이더넷 연결하기

이더넷 케이블을 연결하여 로컬 네트워크나 인터넷에 연결하세요.

설치용 모니터 연결하기

본 제품 뒷면의 영상출력단자를 설치용 모니터 영상입력단자에 연결합니다.

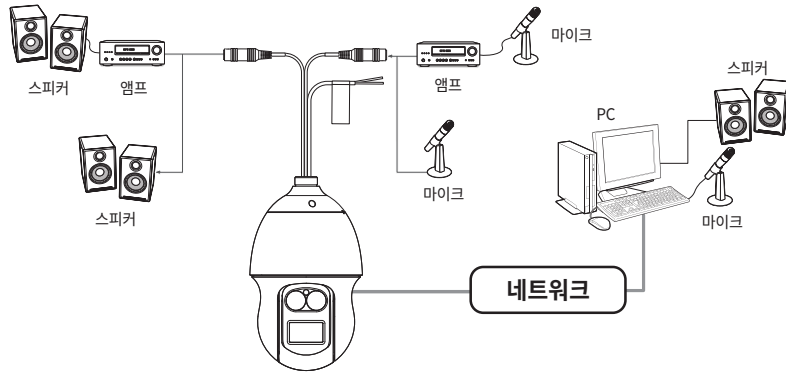


- 사용되는 모니터와 주변기에 따라 접속 방법이 다르므로 각 기기의 사용 설명서를 참고하세요.
- 반드시 연결되는 기기의 전원을 끈 상태에서 연결하세요.

- ! ■ 본 제품은 네트워크를 통해 영상을 전송하는 네트워크 카메라로서, 영상출력단자는 제품 설치 시 카메라의 촬영범위를 정하는데 사용되는 설치용 단자입니다.
- 모니터링 용으로 사용 시 화질 저하 등의 문제가 발생할 수 있습니다.
 - TFT/LCD 휴대모니터 외 전문 CRT 등을 이용한 24시간 감시용에는 부적합합니다.
 - 24시간 감시 및 저장은 네트워크를 통한 전송화면을 이용하세요.

설치 및 연결

오디오 입력/출력 연결하기



1. 카메라의 AUDIO IN 단자에 마이크가 연결된 앰프의 LINE OUT 단자 또는 마이크를 연결하세요.
2. 카메라의 AUDIO OUT 단자에 스피커가 연결된 앰프의 LINE IN 단자 또는 스피커를 연결하세요.
3. 오디오 입력 사양을 확인하세요.
 - 오디오 코덱
 - 오디오 입력 : G.711 PCM (Bit Rate: 64kbps / Sampling Frequency: 8kHz), G.726 ADPCM (Bit Rate: 16Kbps, 24Kbps, 32Kbps, 40Kbps / Sampling Frequency: 8kHz), AAC (Bit Rate: 48Kbps / Sampling Frequency: 16kHz)
 - 오디오 출력 : G.711 PCM (Bit Rate: 64kbps / Sampling Frequency: 8kHz)
 - Full duplex 오디오
 - 오디오 입력 : 선택가능 (마이크/라인입력), 지원 전압 : 2.5VDC(4mA) 입력 임피던스 : 2K Ohm
 - 오디오 출력 : 라인 출력 (3.5mm mono jack), 최대출력 : 1Vrms
 - 임피던스 : 600Ω

카메라 배선하기

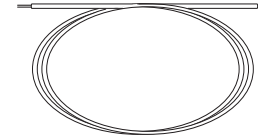
제어신호 연결도

- RS-485 통신



통신용 케이블

카메라와 컨트롤러가 통신하기 위해서는 RS-485 통신선로가 필요합니다.



- ! 연결된 길이는 30M이내를 권장합니다.
- 통신용 케이블은 당사에서 제공하지 않습니다.

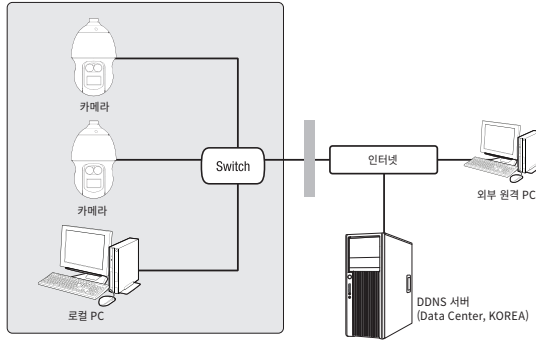
네트워크 연결 및 설정

사용자의 네트워크 연결 구성에 따라 카메라의 네트워크 환경을 설정할 수 있습니다.

LAN 환경에서 직접 카메라 설치하기

LAN 환경에 있는 로컬 PC에서 카메라 접속하기

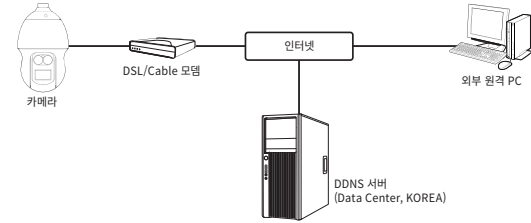
1. 로컬 PC의 인터넷 브라우저를 실행하세요.
2. 브라우저의 주소창에 접속하려는 카메라의 IP 주소를 입력하세요.



<로컬 네트워크>

- LAN 환경의 외부 인터넷에 있는 원격 PC에서 LAN 환경 안에 설치되어 있는 카메라에 접속할 경우 포트 포워딩이 되어 있지 않거나 방화벽이 설치되어 있으면 접속이 되지 않을 수 있습니다.
이때는 네트워크 관리자에게 문의하세요.
- 디바이스 매니저에서 초기 비밀번호인 "4321"로 IP Address, Subnet Mask, Gateway, HTTP Port, VNP Port, IP type이 설정 가능합니다. 네트워크 인터페이스 변경 후 보안강화를 위하여 웹뷰어에 접속하여 비밀번호를 반드시 변경하세요.
- 제품 출하 시 IP 주소는 DHCP 서버로부터 자동으로 할당받도록 설정되어 있습니다.
DHCP 서버가 없는 경우, IP 주소는 192.168.1.100으로 설정됩니다.
IP 주소를 변경하려면, 디바이스 매니저를 이용하세요.
디바이스 매니저 사용방법은 "디바이스 매니저 사용하기"를 참고하세요. (16쪽)

DHCP 방식의 DSL/Cable 모뎀에 직접 카메라 설치하기



1. 사용자 컴퓨터와 네트워크 카메라를 직접 연결하세요.
2. 디바이스 매니저를 사용하여 해당 카메라의 IP 주소를 사용자 컴퓨터에서 인터넷 브라우저를 통하여 접속할 수 있는 IP 주소로 변경하세요.
3. 인터넷 브라우저를 이용하여 웹뷰어에 접속하세요.
4. [설정] 페이지로 이동하세요.
5. [네트워크] - [DDNS] 설정 페이지로 이동하여 DDNS를 설정하세요.
6. [Basic] - [IP 및 포트] 설정 페이지로 이동하여 IP 형식을 [DHCP]로 설정하세요.
7. 카메라를 사용자 컴퓨터에서 분리하여 모뎀에 직접 연결하세요.
8. 카메라를 재부팅하세요.

- DDNS 설정 방법은 웹뷰어의 온라인 도움말을 참고하세요.
- IP 형식의 설정 방법은 웹뷰어의 온라인 도움말을 참고하세요.

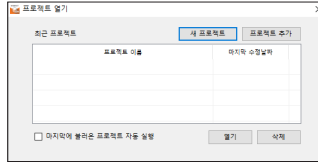
네트워크 연결 및 설정

디바이스 매니저 사용하기

- 디바이스 매니저 프로그램은 한화비전 웹 사이트(<https://www.HanwhaVision.com>)로 접속하여 <지원> - <Tool>에서 다운로드 받을 수 있습니다.
- 디바이스 매니저의 자세한 사용 방법은 메인화면의 <도움말> 메뉴에서 확인할 수 있습니다.

프로젝트 설정하기

카메라들을 프로젝트 별로 저장하고 불러올 수 있습니다.
새 프로젝트를 생성하려면 프로젝트 이름 및 비밀번호를 설정해 주세요.
생성된 프로젝트를 실행하려면 비밀번호 입력이 필요합니다.



자동으로 카메라 검색하기

디바이스 매니저가 설치된 PC와 동일한 네트워크에 카메라가 연결된 경우 검색 기능을 이용해 네트워크 카메라를 찾을 수 있습니다.

1. 디바이스 매니저의 메인화면에서 <검색>을 클릭하세요.
2. 검색목록에서 원하는 카메라가 검색되었는지 확인하세요.
 - 카메라에 부착된 스티커에서 MAC 주소를 확인하세요.

IP주소 설정하기

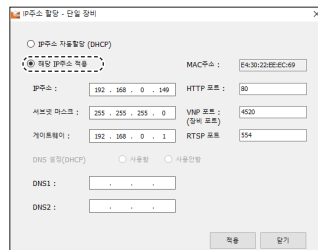
카메라의 네트워크 설정을 변경하려면 <상태> 항목에 <Login OK>로 표시되어 있어야 합니다. 디바이스 매니저의 메인화면에서 <인증>을 클릭하면 로그인 할 수 있습니다.

Static IP 설정하기

IP 주소 및 포트정보를 수동으로 입력하여 설정합니다.

한 대의 카메라를 설정할 경우

1. 검색목록에서 IP 설정을 변경하려는 카메라를 클릭하세요.
2. 디바이스 매니저의 메인화면에서 <IP 할당>을 클릭하세요.
3. <해당 IP 주소 적용>을 선택하세요.
 - 카메라의 IP 정보가 기존에 설정되어 있는 값으로 표시됩니다.
4. IP 관련 항목 및 Port 관련 항목을 입력하세요.



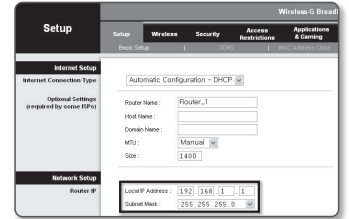
IP 공유기를 사용하지 않는 경우

네트워크 관리자에게 <IP주소>, <서브넷 마스크>, <게이트웨이> 설정값을 문의하세요.

- HTTP Port : 인터넷 브라우저를 사용하여 카메라에 접속할 때 사용되는 HTTP 포트이며, 초기값은 80입니다.
- RTSP Port : 실시간 스트리밍을 제어하는 포트이며, 초기값은 554입니다.

IP 공유기를 사용하는 경우

- IP Address : IP 공유기가 제공하는 사설 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 카메라의 <서브넷 마스크> 값이 됩니다.
- Gateway : IP 공유기의 <Local IP Address>가 카메라의 <게이트웨이> 값이 됩니다.



- 연결된 IP 공유기 모델에 따라 설정 방법이 다를 수 있습니다.
해당 공유기의 사용설명서를 참고하세요.
- IP 공유기의 포트 포워딩 설정 방법은 “포트 포워딩 (포트 맵핑) 설정하기”를 참고하세요. (18쪽)

IP 공유기에 카메라가 2대 이상 연결되어 있는 경우

카메라의 IP 관련 항목, Port 관련 항목을 각각 다르게 설정해 주세요.

예)

구분		1번 카메라	2번 카메라
IP 관련 항목	IP 주소	192.168.1.100	192.168.1.101
	서브넷 마스크	255.255.255.0	255.255.255.0
	게이트웨이	192.168.1.1	192.168.1.1
Port 관련 항목	HTTP 포트	8080	8081
	RTSP 포트	554	555

- <HTTP 포트>가 80 이외의 번호로 설정되어 있는 경우 인터넷 브라우저의 주소 입력란에 <Port> 번호도 함께 입력을 해야 카메라에 접속이 가능합니다.
예) http://IP주소 : HTTP Port
http://192.168.1.100:8080

5. [적용] 버튼을 클릭하세요.
6. 성공 확인 메시지가 표시되면 [확인] 버튼을 클릭하세요.

여러 대의 카메라를 설정할 경우

모델	MAC 주소	IP(자동 할당)	IP(수동 할당)	서브넷(자동 할당)	게이트웨이(자동 할당)	DNS1(자동 할당)	DNS2(자동 할당)	HTTP	RTSP	결과
XW-490...	E4:30:22:EE:EC:69	192.168.0.149						80	4530	554
QF-C90...	E4:30:22:EF:29:DA	192.168.0.150						80	4530	554

1. 검색목록에서 IP 설정을 변경하려는 카메라를 선택하세요.
2. 디바이스 매니저의 메인화면에서 <IP 할당>을 클릭하세요.
3. <해당 IP 주소 적용>을 선택하세요.
4. 할당할 IP 주소 범위의 시작 주소를 입력하세요.
5. [시뮬레이션] 버튼을 클릭하여, 각 장비별 할당될 IP주소를 확인합니다.
 - IP 주소 항목을 더블 클릭하면 각각의 주소를 수정할 수 있습니다.
6. [적용] 버튼을 클릭하면 IP 할당을 시작합니다.
7. IP 할당 성공 여부는 <결과> 항목을 확인하세요.

Dynamic IP 설정하기

IP 주소를 DHCP를 통해 자동으로 할당받습니다

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

한 대의 카메라를 설정할 경우

1. 검색목록에서 IP 설정을 변경하려는 카메라를 클릭하세요.
2. 디바이스 매니저의 메인화면에서 <IP 할당>을 클릭하세요.
3. <IP주소 자동할당 (DHCP)>를 선택하세요.
4. [적용] 버튼을 클릭하세요.
5. 성공 확인 메시지가 표시되면 [확인] 버튼을 클릭하세요.

모델	MAC 주소	IP(자동 할당)	IP(수동 할당)	서브넷(자동 할당)	게이트웨이(자동 할당)	DNS1(자동 할당)	DNS2(자동 할당)	HTTP	RTSP	결과
XW-490...	E4:30:22:EE:EC:69	192.168.0.149						80	4530	554
QF-C90...	E4:30:22:EF:29:DA	192.168.0.150						80	4530	554

여러 대의 카메라를 설정할 경우

모델	MAC 주소	IP(자동 할당)	IP(수동 할당)	서브넷(자동 할당)	게이트웨이(자동 할당)	DNS1(자동 할당)	DNS2(자동 할당)	HTTP	RTSP	결과
XW-490...	E4:30:22:EE:EC:69	192.168.0.149						80	4530	554
QF-C90...	E4:30:22:EF:29:DA	192.168.0.150						80	4530	554

1. 검색목록에서 IP 설정을 변경하려는 카메라를 선택하세요.
2. 디바이스 매니저의 메인화면에서 <IP 할당>을 클릭하세요.
3. <IP주소 자동할당 (DHCP)>를 선택하세요.
4. [적용] 버튼을 클릭하면 IP 할당을 시작합니다.
5. IP 할당 성공 여부는 <결과> 항목을 확인하세요.

네트워크 연결 및 설정

수동으로 카메라 등록하기

검색 기능으로 카메라를 찾지 못하거나, 외부 네트워크에 카메라가 연결된 경우 IP 정보를 수동으로 입력하여 원격으로 카메라를 찾아 등록할 수 있습니다.

1. 디바이스 매니저의 메인화면에서 <장비 추가> - <장비 수동 등록>을 클릭하세요.
2. 검색할 IP 주소의 범위를 입력하세요.
3. 등록할 카메라의 <모델 이름>을 선택하고 HTTP 포트, HTTPS 포트, 아이디, 비밀번호를 입력하세요.
4. [등록] 버튼을 클릭하세요.
5. 목록에서 원하는 카메라가 등록되었는지 확인하세요.
 - 카메라에 부착된 스티커에서 MAC 주소를 확인하세요.

IP 자동 설정하기

1. 검색목록에서 IP를 자동으로 설정하려는 카메라를 클릭하세요.
2. 디바이스 매니저의 메인화면에서 <+>를 클릭하세요.
 - 장비 설정 메뉴가 나타납니다.
3. 장비 설정 메뉴에서 <IP 자동 설정>을 클릭하세요.
4. <UPnP> 또는 <Bonjour> 프로토콜을 사용하려면 <사용함>을 선택한 후 [적용] 버튼을 클릭하세요.

포트 포워딩 (포트 맵핑) 설정하기

IP 공유기에 카메라가 설치된 경우, IP 공유기 외부 원격 PC에서 IP 공유기 내부의 카메라에 접속하기 위해서는 IP 공유기에 포트 포워딩을 설정해 주어야 합니다.

수동으로 포트 포워딩 설정하기

1. IP 공유기의 설정 메뉴에서 <Applications & Gaming> - <Port Range Forward>를 클릭하세요.
타사 IP 공유기의 포트 포워딩 메뉴 위치 및 설정 방법은 각 IP 공유기의 사용설명서를 참고하세요.
2. IP 공유기에 연결되어 있는 각 카메라에 대해 <TCP>와 <UDP Port>를 선택하세요.
IP 공유기에 설정할 각 포트 번호는 카메라 웹뷰어의 <설정> - <Basic> - <IP 및 포트>에서 지정한 포트 번호에 맞게 설정해야 합니다.
3. 설정이 완료되면 [Save Settings] 버튼을 클릭하세요.
설정이 저장됩니다.

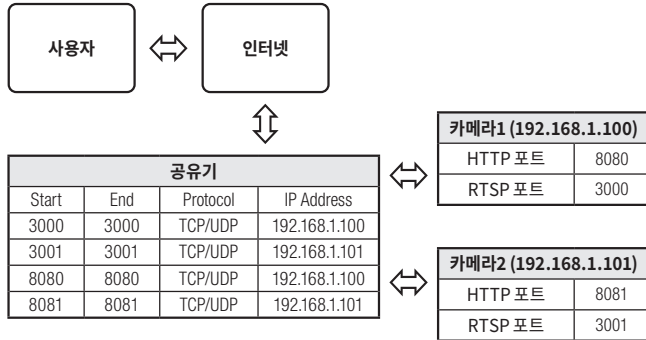


- 포트 포워딩 설정하기 설명은 CISCO IP 공유기로 설정한 예시입니다.
- 연결된 IP 공유기 모델에 따라 설정 방법이 다를 수 있습니다.
해당 공유기의 사용설명서를 참고하세요.

여러대의 카메라를 포트 포워딩 설정하기

- 공유기의 포트 포워딩 설정은 공유기의 설정 페이지를 통해서 변경할 수 있습니다.
- 각 포트는 사용자가 카메라의 설정 페이지에서 변경할 수 있습니다.

예) 공유기에 카메라1과 카메라2가 연결되어 있는 경우 :



- UPnP(Universal Plug and Play) 기능을 지원하는 공유기를 사용하면 공유기 설정 없이 포트 포워딩을 할 수 있습니다. 네트워크 카메라 접속 후 “**설정 → 네트워크 → DDNS**” 메뉴에서 <DDNS>의 <클릭 커넥트>의 체크박스를 선택하세요.

공유된 로컬 PC에서 카메라 접속하기

- 디바이스 매니저를 실행하세요.
- 원하는 프로젝트를 선택한 후 [열기] 버튼을 클릭하세요.
- 비밀번호를 입력하면 프로젝트의 카메라 목록을 표시합니다.
- 연결할 카메라를 더블 클릭하세요.
인터넷 브라우저가 시작되면서 카메라에 접속합니다.

- 사용자가 직접 인터넷 브라우저를 실행시켜, 주소 창에 검색된 카메라의 IP 주소를 입력하여 접속할 수도 있습니다.

외부의 원격 PC에서 인터넷으로 카메라에 접속하기

IP 공유기 외부의 원격 PC에서 사용자는 카메라의 DDNS URL을 이용하여 IP 공유기 내부의 카메라에 접속할 수 있습니다.

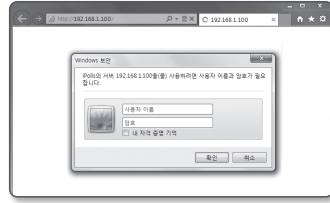
- IP 공유기 내부에 설치되어 있는 카메라를 외부에서 접속하기 위해서는 반드시 IP 공유기에 포트 포워딩 설정을 하세요.
- 외부 원격 PC에서 인터넷 브라우저를 실행하여 주소창에 카메라에 접속하기 위한 DDNS URL 주소, 또는 IP 공유기의 인터넷 IP 주소를 입력하세요.
예) <http://ddns.hanwha-security.com/ID>

- DDNS를 사용하려면 DDNS 홈페이지(<http://ddns.hanwha-security.com>)에서 회원가입을 한 후, [My DDNS]>[제품등록]에서 제품을 먼저 등록해야 합니다.

카메라에 접속하기

일반적인 방법인 경우

1. 인터넷 브라우저를 실행하세요.
2. 주소 입력란에 카메라의 IP주소를 입력 하세요.
예) • IP주소 (IPv4) : 192.168.1.100인 경우 →
http://192.168.1.100
- 로그인 창이 나타납니다.
• IP주소 (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111인 경우
→ http://[2001:230:abcd:ffff:0000:0000:ffff:1111]
- 로그인 창이 나타납니다.



HTTP Port가 80이 아닌 경우

1. 인터넷 브라우저를 실행하세요.
2. 주소 입력란에 카메라의 IP주소와 HTTP 포트번호를 입력하세요.
예) IP 주소 : 192.168.1.100:HTTP 포트번호(8080)인 경우
→ http://192.168.1.100:8080 - 로그인 창이 나타납니다.

URL로 접속하기

1. 인터넷 브라우저를 실행하세요.
2. 주소 입력란에 카메라의 DDNS URL을 입력하세요.
예) URL 주소 : http://ddns.hanwha-security.com/ID
- 로그인 창이 나타납니다.

! ■ Local 망으로만 구성된 환경에서는 접속할 수 없습니다.

UPnP를 이용하여 접속하기

1. UPnP 프로토콜을 지원하는 클라이언트나 운영체제를 실행하세요.
2. 검색되는 카메라의 이름을 클릭하세요.
Windows 운영체제 컴퓨터에서는 네트워크 메뉴에 검색되는 카메라 이름을 클릭하세요.
- 로그인 창이 나타납니다.

Bonjour를 이용하여 접속하기

1. Bonjour 프로토콜을 지원하는 클라이언트나 운영체제를 실행하세요.
2. 검색되는 카메라의 이름을 클릭하세요.
Mac 운영체제 컴퓨터에서는 Safari의 Bonjour 탭에 검색되는 카메라의 이름을 클릭하세요.
- 로그인 창이 나타납니다.

✍ ■ UPnP 또는 Bonjour 프로토콜을 사용하려면 “IP 자동 설정하기”를 참고하세요.

DDNS 주소를 확인하려면

카메라가 DHCP 방식의 케이블 모뎀이나 DSL 모뎀 혹은 PPPoE 모뎀에 직접 연결되어 있는 경우, ISP(사용자가 가입한 통신회사 서버)에 연결을 시도할 때마다 IP 주소가 변경됩니다.
이 경우 사용자는 변경된 IP 주소를 알 수 없습니다.

유동 IP를 사용하는 제품을 DDNS 서버에 등록해 놓으면 제품에 접속하고자 할 때 변경된 IP 주소를 쉽게 알 수 있습니다.
IP 주소를 <DDNS> 서버에 등록하기 위해서는 먼저 http://ddns.hanwha-security.com 페이지에서 제품을 등록한 후 카메라 웹뷰어의 <네트워크> - <DDNS> 항목을 <DDNS>로 설정하고, <제품 ID>에 DDNS 서버에서 등록한 제품 아이디를 입력하세요.

비밀번호 설정하기

최초 제품 접속 시 반드시 로그인 비밀번호를 등록해야 합니다.
“비밀번호 변경” 창이 나타나면 새로운 암호를 입력하세요.



- 새로운 비밀번호는 8자 이상 9자리 이하는 영 대/소문자, 숫자 특수 문자 중 3종류 이상을 사용해야 하며, 10자 이상 15자리 이하는 2종류 이상을 사용해야 합니다.
- 사용 가능한 특수문자 : ~`!@#\$%^&*()_+=~[]{}?/
- 보안강화를 위하여 동일한 문자 반복 사용이나 연속된 키보드 배열을 비밀번호로 사용하지 않는 것을 권장합니다.
- 비밀번호 분실 시 카메라에 있는 [RESET] 버튼을 눌러 제품 초기화를 해야 하므로 반드시 메모 또는 기억하시길 바랍니다.

관리자 비밀번호 변경

새 비밀번호

새 비밀번호 확인

비밀번호 길이가 8자 이상 9자 이하일 경우 영문자 대문자 및 소문자, 숫자, 특수 문자 중 3가지 이상의 조합이어야 합니다.
비밀번호 길이가 10자 이상 15자 이하일 경우 영문자 대문자 및 소문자, 숫자, 특수 문자 중 2가지 이상의 조합이어야 합니다.
사용자 이름과 비밀번호가 동일해서는 안 됩니다.
허용 가능한 특수 문자는 다음과 같습니다. ~`!@#\$%^&*()_+=~[]{}?/

4개 이상 반복되는 문자열은 사용할 수 없습니다.(예 : 1111, 1111, aaaa)

4개 이상 반복되는 문자열은 사용할 수 없습니다.(예 : 1111, 1111, aaaa)

로그인하기

카메라에 접속할때마다 로그인 창이 뜹니다.
설정된 사용자 이름과 암호를 입력해야 카메라에 접속할 수 있습니다.

1. <사용자 이름> 입력란에 “admin”을 입력하세요.
관리자의 아이디 “admin”은 고정이며 변경할 수 없습니다.
2. <암호> 입력란에 설정한 암호를 입력하세요.
3. [확인] 버튼을 클릭하세요.
로그인이 완료되면 카메라 라이브 뷰어 화면이 나타납니다.



- 카메라 웹뷰어 접속시 영상정보가 암호화 되어있지 않으니 보안에 각별히 주의하시길 바랍니다.



- 사용자 이름과 암호를 입력한 후 “내 자격 증명 기억”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.

Windows 보안

IPollis의 서버 192.168.1.100(폴) 사용하려면 사용자 이름과 암호가 필요합니다.

사용자 이름

암호

☐ 내 자격 증명 기억

확인 취소

카메라 웹뷰어 설정하기

1. [설정 (⚙️)] 아이콘을 클릭하세요.
2. 설정 화면이 나타납니다.
3. 네트워크 상에서 카메라의 기본 정보, 비디오 및 오디오, 네트워크, 이벤트, 분석, 시스템 설정을 실행할 수 있습니다.
4. <도움말 (📖)>을 클릭하면 각 기능에 대한 상세한 설명을 확인할 수 있습니다.

사양

항 목		내용
영상	촬상 소자	1/2.8" 2.16M CMOS
	총 화소수	1945(H) X 1109(V) approx 2.16M pixels
	유효 화소수	1945(H) X 1097(V) approx 2.13M pixels
	주사 방식	프로그레시브
	최저조도	컬러 : 0.02 lux (1/30sec, F1.6), 0.0003 lux(2sec, F1.6) 흑백 : 0.002 lux (1/30sec, F1.6) 0 Lux (IR LED On)
	S / N 비	50dB
	영상 출력	CVBS : 1.0 Vp-p / 75Ω composite, 720x480(N) (설치용)
렌즈	초점거리	4.75mm ~ 261.4mm (55x)
	구경비	F1.6 (Wide) ~ F6.5 (Tele)
	화각	H : 58.6°(Wide) ~ 1.23°(Tele) / V : 34.8°(Wide) ~ 0.71°(Tele)
	최소 지근 거리	5m
	포커스 제어	AF / One-Shot AF / Manual
	렌즈 타입	DC Auto Iris
	마운트 타입	Board-in type
팬/틸트/회전	줌 속도	최대 5초 (1배 ~ 55배)
	팬 범위	360° Endless
	팬 속도	프리셋 : 400°/초, 수동 : 0.024°/초 ~ 250°/초
	틸트 범위	95°(-5° ~ 90°)
	틸트 속도	프리셋 : 250°/초, 수동 : 0.024°/초 ~ 250°/초
	시퀀스	프리셋 (300개), 스윙, 그룹 (6개), 추적, 투어, 오토런, 스케줄
	프리셋 정확도	±0.2°
	방위각	지원 (동/서/남/북/북서/남서/북동/남동 OSD)
	자동 추적	Off / On

항 목		내용
카메라 기능	야간 가시거리	500m
	카메라 타이틀	Off / On (영/한/숫자/기호, 최대 85 자) - 최대 5행, 색상 (회색/녹색/빨강/파랑/검정/흰색), 투명도, 해상도별 자동크기조정
	Day & Night	Auto (ICR) / Color / B/W
	역광보정	Off / BLC / HLC / WDR
	Wide Dynamic Range	120dB
	콘트라스트 개선	SSDR (Off / On)
	노이즈 제거	SSNR5 (2D+3D Noise Filter) (Off / On)
	영상 흔들림 보정	Off / On (built-in Gyro)
	안개보정 (광학식)	Auto / Manual / Off
	동작탐지	지원 (8개, 사각형 영역 설정 가능)
	프라이버시 기능	Off / On (4개의 점으로 24개 사각형 프라이버시 영역설정 가능) - 색상 : 검정/파랑/빨강/회색/흰색/초록 - 줌 배율 제한 설정 모드 가능 - 모자이크 옵션
	Gain Control	Off / Low / Medium / High
	화이트밸런스	ATW / AWC / Manual / Indoor / Outdoor / Mercury / Sodium
	전자셔터	Minimum / Maximum / Anti flicker (2 ~ 1/12,000sec)
	디지털줌	32x, 에어리어 줌 기능 2배 디지털 줌까지 지원
	이미지 로테이션	상하/좌우 반전 : Off / On
	지능형 영상 분석	템퍼링, 배회, 방향감지, 안개 감지, 가상선, 출/입감지, 발생/소멸감지, 오디오감지, 얼굴 감지, 움직임 감지, 음원분류
	알람	입력 4개 / 출력 2개 (Relay)
	원격제어	RS-485
	RS-485 프로토콜	Samsung-T, Pelco-D/P, Panasonic, Honeywell, AD, Vicon, GE, BOSCH
	알람 트리거	알람 입력, 동작 탐지, 비디오 분석, 오디오 검출, 네트워크 단절

항 목		내용
카메라 기능	이벤트 대응 동작	- FTP와 E-Mail을 통해서 파일 전송 및 업로드 - E-Mail을 통한 알림 - 알람트리거 발생 시 SD/SDHC 메모리 카드 또는 NAS에 녹화 - 외부 알람 출력 - PTZ 프리셋
	오디오 입력	선택가능 (마이크/라인 입력) 지원 전압 : 2.5VDC(4mA) 입력, 임피던스 : 2K Ohm
	오디오 출력	라인 출력 (3.5mm mono jack) 최대 출력 (1Vrms)
	픽셀 카운터	지원
네트워크	이더넷	RJ-45 (10/100BASE-T) SFP (*only using SBP-303HF)
	비디오 압축 방식	H.265/H.264 (MPEG-4 Part 10/AVC) : Main/Baseline/High, Motion JPEG
	해상도	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
	최대 프레임레이트	H.265/H.264 : Max. 60fps at all resolutions Motion JPEG : Max. 30fps at all resolutions
	스마트압축	수동 모드 (영역 : 5개)
	WiseStream II	지원
	화질 제어	H.264/H.265/MJPEG : 비트레이트 레벨 제어
	비트레이트 제어	H.264/H.265 : CBR 또는 VBR Motion JPEG : VBR
	동시 전송 능력	멀티 스트리밍 (10개 프로파일)
	오디오 압축 방식	G.711 μ -law /G.726 Selectable G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC : 48Kbps at 16KHz
	오디오 통신	양방향

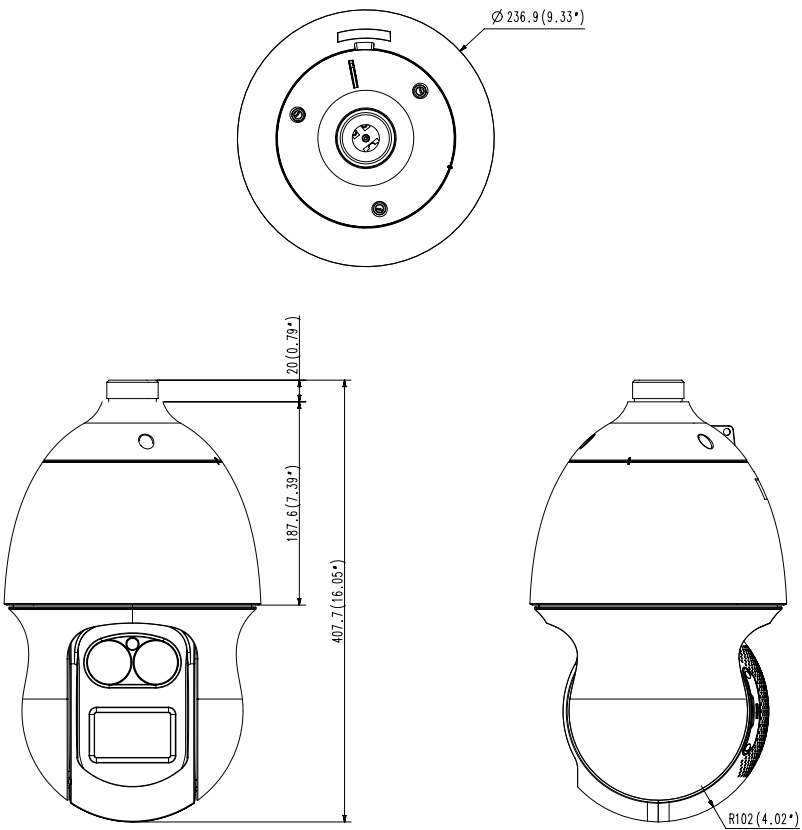
항 목		내용
네트워크	IP	IPv4, IPv6
	프로토콜	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
	보안	HTTPS(SSL) 인증 방식 다이제스트 인증 방식 IP 주소 필터링 사용자 접속 로그 기록 802.1x 인증 방식 (EAP-TLS, EAP-LEAP)
	전송 방식	유니캐스트 / 멀티캐스트
	최대 동시접속자	20명 (유니캐스트 모드)
	메모리 슬롯	Micro SD/SDHC/SDXC 2slot (up to 512 GB) - 연속 녹화 (1'st slot to 2'nd slot) - 저장된 영상/이미지 다운로드 가능 NAS(Network Attached Storage) Local PC에 수동 영상 저장 지원
	S/W 응용 인터페이스	ONVIF Profile S/G SUNAPI 2.0(HTTP API) WiseNet Open Platform
	웹페이지 언어	한국어
	웹뷰어	지원 OS : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 권장 브라우저 : Google Chrome 지원 브라우저 : IE11, MS Edge, Mozilla Firefox (Window 64bit only), Apple Safari 10 (Mac OS X only)
	통합 관리 소프트웨어	SmartViewer

부록

	항 목	내 용
동작 환경	동작 온/습도	AC24V : -50°C ~ +55°C / 90% RH 이하
	보관 온/습도	-50°C ~ +60°C / 90% RH 이하
	방진/방수 대응	IP66
	충격 대응	IK10
전원	사용전원/소비전류	AC24V
	소비 전력	AC24V : 92W
외관	색상 / 재질	검정(head) + 아이보리(body) / 알루미늄, 플라스틱
	외형 치수 (ØxH)	Ø236.9 x H407.7 mm
	무게	7.1 Kg

외관도

단위: mm (인치)



문제 해결하기

문제	해결
Safari에서 https로 플러그인 프리 웹뷰어 접속 시 영상이 나오지 않아요.	- https 처음 접속 시 발생하는 웹사이트 신원 팝업에서 "인증서 보기" 클릭 후 "웹뷰어 설정 IP에 연결할 때 항상 신뢰" 항목의 체크박스를 선택하세요. - 만일 아래 메시지에서 "계속" 선택 후 로그인하여 영상이 나오지 않는 경우, command+Q 를 눌러 Safari 브라우저 종료 후 재접속하여 위의 절차를 따르세요.
브라우저로 카메라에 접속되지 않아요.	- 카메라의 네트워크 설정값들이 올바르게 되어 있는지 확인하세요. - 네트워크 케이블은 연결이 올바르게 되어 있는지 확인하세요. - DHCP로 연결하는 경우 카메라가 정상적으로 유동 IP를 획득했는지 확인하세요. - 카메라가 공유기에 설치되어 있는 경우, 포트 포워딩 설정이 올바르게 되어 있는지 확인하세요.
영상을 모니터링 하고 있던 웹뷰어의 접속이 끊어졌어요.	- 다른 접속자가 카메라 설정값을 변경하거나, 네트워크 설정을 바꾸거나 하게 되면 접속되어 있던 웹뷰어는 접속이 끊어집니다. - 네트워크 연결이 잘 되어있는지 확인하세요. - 카메라가 PPPoE 네트워크에 연결된 경우, 네트워크 상황이 나빠지면 웹뷰어의 접속이 끊어질 수 있습니다.
디바이스 매니저 프로그램에서 네트워크에 연결된 카메라가 검색되지 않아요.	PC의 방화벽 설정을 해제하신 후 다시 검색하시기 바랍니다.
영상이 겹쳐져 보여요.	- 두 대 이상의 카메라가 동일한 멀티캐스트 주소를 사용하지 않고 서로 다른 주소로 설정되어 있는지 확인하시기 바랍니다. - 동일한 주소를 사용하면 영상이 겹쳐져 보일 수 있습니다.
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문제	해결
<분석>에서 <움직임 감지>를 <사용>으로 설정한 후, 카메라에서 영상 분석 이벤트가 발생해도 이메일로 파일이 전달되지 않아요.	다음과 같은 순서로 설정값을 확인하세요. 가. <날짜 및 시간> 설정을 확인하세요. 나. <움직임 감지>를 <사용>으로 설정해야 합니다. 다. <이벤트 설정>에서 <이메일>을 사용한다고 체크해야 합니다.
영상 분석 이벤트가 발생했는데 알람 출력으로 출력이 발생하지 않아요.	알람 출력 포트를 올바르게 설정했는지 확인하세요.
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iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-4.2	GPL 2.0	
mtdev-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdev-utlis
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
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LGPL SW

Component Name	License	URL
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neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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on January 23, 2004
revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

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2. to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.

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

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2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.

2. Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.

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2. The member shall provide T-Engine Forum with a complete set of operational environment for the object hardware and T-Kernel free of charge when requesting the distribution.
3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.

4. In the event that T-Engine Forum accepts the request mentioned in Article 6.2, T-Engine Forum shall register and distribute the Ported Source Code as the Source Code for T-Kernel. Provided, however, that the Ported Source Code may be treated in the same way as the Modified Source Code until the time of registration hereunder.

5. The provision set forth in Article 3 shall apply to the Ported Source Code registered in accordance with this Article.

Article 7. Use for Other Purpose

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Component Name	License	URL
zlib-1.2.8	zlib / libpng	http://zlib.net/

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

CCTV 설치 유의사항

공개된 장소에 CCTV 설치 운영시 이것만은 꼭 알아 두세요

[1] 범죄예방, 시설안전, 화재예방 목적으로만 설치 가능

- 목욕실, 화장실, 발한실(發汗室), 탈의실 등 사생활 침해 장소에는 설치 금지

[2] CCTV 안내판을 알아보기 쉬운 장소에 부착

- 설치목적, 촬영장소 · 범위 관리책임자 연락처 안내

[3] 녹음 금지 및 임의조작 금지

- 당초 설치 목적을 벗어나 함부로 조작하거나 다른 곳을 비추는 행위 금지

[4] CCTV 영상정보의 무단 유출 · 공개금지

- 개인영상정보를 제공하는 경우 본인 확인 후 필요 최소한으로 제공, 타인영상은 모자이크 처리

[5] CCTV 운영관리 방침수립 · 공개

- 개인 영상정보관리책임자 지정, CCTV 운영관리 방침을 홈페이지 등에 공개

[6] CCTV 영상정보의 안전성 확보조치

- 관리자 외 접근 통제, 관리자별 개별 ID 발급, 잠금장치 마련 등

※ 법 위반 내용과 정도에 따라 과태료 또는 벌금 등이 부과될 수 있습니다.

