

AĞ KAMERASI

Kullanım Kılavuzu

XNP-6371RH



Ağ Kamerası

Kullanım Kılavuzu

Telif hakkı

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Ticari marka

Burada belirtilen her bir ticari marka tescillidir. Bu kılavuzda bahsi geçen ürünün adı ve ticari markalar ilgili şirketin tescilli ticari markalarıdır.

Kısıtlama

Bu dokümanın telif hakkı saklıdır. Resmi yetki olmadan, hiçbir koşul altında, bu doküman çoğaltılamaz, dağıtılamaz, kısmen veya tamamen değiştirilemez.

Sorumluluk Reddi

Hanwha Vision bu belgedeki içeriklerin bütünlüğünü ve doğruluğunu sağlamak için mümkün olan tüm çabayı göstermekle birlikte resmi bir garanti verilmemektedir. Bu belgenin kullanımı ve bundan kaynaklanan tüm sonuçların sorumluluğu tamamen kullanıcıya aittir. Hanwha Vision bu belgenin içeriklerini önceden bildirim yapmadan değiştirme hakkını saklı tutar.

❖ Tasarım ve spesifikasyonlar önceden bildirim yapılmadan değiştirilebilir.

❖ İlk yönetici kimliği “admin”dir ve ilk kez oturum açıldığında şifrenin ayarlanması gerekir.

Lütfen kişisel bilgilerinizi güvenli şekilde korumak ve bilgilerin çalınmasını önlemek için her üç ayda bir şifrenizi değiştirin.

Lütfen güvenlik ve şifrenin yanlış yönetilmesinden kaynaklanan diğer sorunların kullanıcının sorumluluğunda olduğunu unutmayın.

ÖNEMLİ GÜVENLİK YÖNERGELERİ

1. Bu yönergeleri okuyun.
2. Bu yönergeleri saklayın.
3. Uyarıları dikkate alın.
4. Yönergeyi takip edin.
5. Bu cihazı suyun yakınında kullanmayın.
6. Ürün yüzeyinde kirlenen alanı, yumuşak kuru veya nemli bir bezle silin.
(Ürünün şeklini bozabilecek veya hasar verebilecek, alkol, solventler veya surfaktanlar içeren deterjan veya kozmetik ürünler kullanmayın)
7. Havalandırma deliklerini kapatmayın. Üreticinin talimatlarına göre kurun.
8. Radyatör, ısı aygıtları gibi ısı kaynaklarının veya (amplifikatörler dahil) ısı üreten diğer cihazların yayına koymayın.
9. Güvenlik amaçlı polarize veya topraklamalı tip fişi bozmayın.
Polarize fiş, biri diğerinden daha geniş iki ağa sahiptir. Topraklama tipi fiş iki ağa ve üç topraklama dişine sahiptir. Geniş ağız veya üçüncü diş güvenliğinizi için sağlamıştır.
Verilen fiş prizinize uymuyorsa tam uyan bir prizle değiştirmek için elektrikçiyle görüşün.
10. Özellikle fişlerde, priz yuvalarında ve üründen çıkan uçlarda sıkışan veya yürüyüş yolu üzerinde olan güç kablolarını koruyun.
11. Yalnızca üretici tarafından belirtilen ekleri/ aksesuarları kullanın.
12. Yalnızca üretici tarafından belirtilen veya cihazla birlikte satılan tekerlekli taşıma sehpası, kamera ayağı, üç ayaklı sehpa, dirsek veya masa kullanın. Tekerlekli taşıma sehpası kullanıldığında, devrilmeden kaynaklanabilecek yaralanmalardan kaçınmak için sehpa/cihaz kombinasyonunu dikkatli taşıyın.
13. Fırtına sırasında veya uzun süre kullanılmadan bırakıldığında bu cihazı prizden çıkartın.
14. Bütün servis işlemlerini yetkili servis personeline bildirin. Güç kaynağı kordonu veya fişin zarar görmesi, sıvının dökülmesi veya cihazın içine nesne düşmesi, cihazın yağmura veya neme maruz kalması, normal çalışmaması veya düşmesi gibi herhangi bir şekilde cihaz hasar gördüğünde servis gereklidir.
15. Bu ürün "Sınıf 2" veya "LPS" işaretli ve 24 Vac(50/60 Hz), min. 4.2 A dereceli bir Güç Kaynağıyla birlikte kullanılmak üzere tasarlanmıştır.
16. Ürünü kurarken aşırı güç kullanırsanız, kamera hasar görebilir ve arıza yapabilir.
Uyumsuz aletler kullanarak ürünü zorla yüklerseniz, ürün hasar görebilir.
17. Ürünü kimyasal madde veya yağ buharı bulunan veya bunların oluşabileceği bir yere kurmayın. Soya yağı gibi yenilebilir yağlar ürüne hasar verebilir veya şeklini bozabilir; ürünü mutfakta veya mutfak masasına yakın bir yere kurmayın.
Bu, ürünün zarar görmesine neden olabilir.
18. Ürünü kurarken, ürün yüzeyinin kimyasal madde ile lekelenmesine izin vermemeye dikkat edin.
Temizleyici veya yapıştırıcı gibi bazı kimyasal solventler ürünün yüzeyine ciddi hasar verebilir.
19. Ürünü tavsiye edildiği şekilde kurmazsanız/kaldırmazsanız, üretim işlevleri/performans garanti edilemez.
Kullanıcı kılavuzundaki "Kurulum ve Bağlantı" bölümüne bakarak ürünü kurun.
20. Ürünün su içinde kurulması veya kullanılması ürüne ciddi zararlar verebilir.



UYARI

YANGIN VEYA ELEKTRİK ŞOKU RİSKİNİ AZALTMAK İÇİN, BU CİHAZI YAĞMUR VEYA NEME MARUZ BIRAKMAYIN. CİHAZDAKİ HAVALANDIRMA IZGARALARINA VEYA DİĞER DELİKLERE HİÇBİR METAL NESNE SOKMAYIN.

Cihaza sıvı damlatılmamalı veya dökülmemelidir; ayrıca vazo gibi sıvı dolu nesneler cihazın yakınında bulunmamalıdır.

Yaralanmaları önlemek için, bu cihaz montaj talimatlarına göre Duvara/tavana güvenli şekilde monte edilmelidir.

Kaydırma/Eğme/Yakınlaştırma motorları ve kayar halka sürekli çalışmaya karşı bir yıl garantilidir.

DİKKAT

	DİKKAT ELEKTRİK ÇARPMA RİSKİ VARDIR AÇMAYIN	
DİKKAT : ELEKTRİK ÇARPMA RİSKİNİ AZALTMAK İÇİN ARKA KAPAĞI KALDIRMAYIN (VEYA ARKASINI AÇMAYIN) KULLANICININ MÜDAHELE EDEBİLECEĞİ PARÇA BULUNMAMAKTADIR. YETKİLİ SERVİS PERSONELİNE BAŞVURUNUZ.		

GRAFİK SEMBOLLERİNİN AÇIKLAMASI



Eşkenar üçgen içindeki ok uçlu şimşek sembolü, ürün muhafazasında, kişiyi elektrik çarpmasına maruz bırakabilecek büyüklükte "tehlikeli gerilim" olduğunu kullanıcıya haber vermeyi amaçlar.



Eşkenar üçgen içindeki ünlem işareti, ürünle beraber verilen literatürde önemli çalışma ve bakım (servis) talimatlarının olduğunu kullanıcıya haber vermeyi amaçlar.

Sınıf yapısı

Sınıf I yapısındaki bir cihaz, koruyucu topraklama bağlantısı bulunan bir ELEKTRİK prizine bağlanmalıdır.

Pil

Piller (takılı pil takımı veya piller), güneş ışığı, ateş veya benzeri yüksek ısı kaynaklarına maruz bırakılmamalıdır.

Pil değiştirilemez.

CIHAZIN BAĞLANTISINI KESME

Anızalanması halinde elektrik fişini çekerek cihazdan çıkarın. Lütfen bölgenizdeki bir tamirciyi arayın.

ABD dışındaki bölgelerde, HAR koduyla onaylanan bir kuruluşun aksesuarlarıyla birlikte kullanılabilir.

DİKKAT

Bu servis talimatları yalnızca yetkili servis personeline yöneliktir. Elektrik çarpması riskini azaltmak için, gerekli yetkileriniz olmadığı sürece çalıştırma talimatlarında yer alan servis işlemlerinden başka bir işlem gerçekleştirmeyin.

Kolay kurulum için üründe CVBS çıkış terminali bulunur ve izleme amacı için önerilmez.

Lütfen güç girişini yalnızca bir kamera ile kullanın; diğer cihazlar bağlanmamalıdır.

ITE yalnızca PoE ağılarına bağlanabilir, harici bir tesise yöneltilemez.

Lütfen aşağıdaki önerilen güvenlik önlemlerini dikkatle okuyun.

- Bu cihazı düz olmayan bir yüzeye yerleştirmeyin.
- Doğrudan güneş ışığına maruz kalacağı bir yüzeye, ısıtma cihazlarının yakınına veya aşırı soğuk bir alana monte etmeyin.
- Bu cihazı iletken nesnelerin yakınına yerleştirmeyin.
- Bu cihazı kendiniz onarmaya çalışmayın.
- Ürünün üzerine su dolu bir bardak koymayın.
- Manyetik kaynakların yakınına monte etmeyin.
- Havalandırma açıklıklarını kapatmayın.
- Ürünün üzerine ağır nesneler koymayın.
- Kamerayı kurarken/sökerken lütfen koruyucu eldiven giyin. Ürünün yüksek sıcaklıktaki yüzeyi yanmaya neden olabilir.

Kullanım Kılavuzu, ürünlerin nasıl kullanılabileceğini gösteren bir kılavuz kitaptır.

Kitaptaki kullanım sembolü şu anlamlara gelmektedir.

- Referans : Ürünün kullanımına yardımcı olacak bilgiler sağlandığında
 - Uyarı : Talimata uyulmaması nedeniyle ürünün zarar görmesi veya yaralanma olasılığı söz konusuysa
- ✖ Lütfen bu kılavuzu ürünleri kullanmadan önce güvenliğinizi için okuyun ve güvenli bir yerde saklayın.

Özel kurulum ortamlarında telsiz iletişimde girişim olabilir.

Ürün ile radyo iletişim cihazı arasında elektromanyetik dalga girişimleri olduğunda, ikisi arasında belirli mesafeyi korumanız veya alıcı antenin yönünü değiştirmeniz önerilir.

İÇİNDEKİLER

GENEL BAKIŞ

3

- 3 Önemli Güvenlik Yönergeleri
- 6 Önerilen PC Özellikleri
- 6 Tavsiye Edilen SD/SDHC/SDXC Bellek Kartı Özellik
- 6 NAS için önerilen teknik özellikler
- 6 Dahil Olanlar
- 7 İlk Bakış

KURULUM VE BAĞLANTI

9

- 9 Diğer cihazlarla bağlantı
- 10 Montaj
- 14 SD Hafıza Kartını Takmak/Çıkartmak

AĞ BAĞLANTISI VE KURULUMU

15

- 15 Kamerayı Doğrudan Yerel Alan Ağına Bağlamak
- 15 Kameranin Doğrudan bir DHCP Tabanlı DSL/Kablolu Modeme Bağlanması
- 16 Kameranin Doğrudan PPPoE Modeme Bağlanması
- 16 Kameranin bir Geniş Bant Yönlendiriciye PPPoE/Kablo Modemle Bağlanması
- 17 Device Manager'ı Kullanma
- 17 Kamerayı otomatik olarak arama
- 17 IP adresini yapılandırma
- 18 Kamerayı manuel olarak kaydetme
- 18 IP'yi otomatik olarak yapılandırma
- 19 Bağlantı Noktası Aralığı Aktarım (Bağlantı Noktası Eşleme) Ayarı
- 20 Kameraya paylaşılan bir yerel bilgisayardan bağlanma
- 20 Kameraya İnternet aracılığıyla uzak bir bilgisayardan bağlanma

AĞ GÖRÜNTÜLEYİCİ

21

- 21 Kameraya Bağlama
- 22 Şifre ayarı
- 22 Oturum Açma
- 22 Her bir tarayıcı için eklenti desteği özellikleri
- 23 WebViewer Eklentisinin Kurulumu
- 23 Eklentisiz web görüntüleyici kullanma
- 23 Kamera Web Görüntüleyicisi Kurulumu

EK

24

- 24 DIP Anahtarı Ayarı
- 24 Kamera Kabloları
- 25 Teknik Özellikler
- 27 Ürün Genel Bilgileri
- 28 Sorun Giderme
- 29 Open Source Announcement

ÖNERİLEN PC ÖZELİKLERİ

- CPU : Intel(R) Core(TM) i7 3.4 GHz veya daha üstü
- RAM : 8 G veya üstü
- Desteklenen İşletim Sistemi : MS Windows, Mac OS X
- **Eklentisiz web görüntüleyicisi**
Desteklenen web tarayıcılar : Google Chrome, MS Edge, Mozilla Firefox (sadece Windows 64 bit), Apple Safari (sadece Mac OS X)
- **Web Görüntüleyicisi Eklentisi**
Desteklenen web tarayıcılar : MS Explorer 11, Apple Safari 10 (sadece Mac OS X)
Doğrulanmış işletim sistemi ve tarayıcı sürümleriyle ilgili ayrıntılı sürüm bilgileri için lütfen eke bakın.

TAVSİYE EDİLEN SD/SDHC/SDXC BELLEK KARTİ ÖZELLİK

- Önerilen kapasite : 4 GB ~ 128 GB (128GB SD bellek kartları için ext4 dosya sistemi önerilir.)
- Kameranız için aşağıdaki üreticilerden bir hafıza kartı kullanmanızı tavsiye ediyoruz : SD/SDHC/SDXC Bellek Kartı (MLC tipi) : Sandisk, Transcend
- 30 kare/sn altı kare hızlarında, Sınıf 6 veya üstü özellikteki bellek kartını kullanmak önerilir.
- 31 kare/sn üstündeki kare hızları için, Sınıf 10 veya üstü özellikte bellek kartı kullanmak önerilir.

NAS İÇİN ÖNERİLEN TEKNİK ÖZELLİKLER

- Önerilen kapasite : 200GB veya üstü önerilir.
- Eşzamanlı erişim : Tek bir NAS birimi en çok on altı kameranın erişimini kabul edebilir.
- Bu kamera için, aşağıdaki üretici teknik özelliklerine sahip bir NAS kullanmanız önerilir.

Önerilen ürünler	Mevcut boyutlar
QNAP NAS	Eşzamanlı olarak en fazla 16 kamera erişebilir.
Synology NAS	Eşzamanlı olarak en fazla 16 kamera erişebilir.



- NAS ekipmanını video kaydetmek dışında bir amaçla kullanıyorsanız, erişilebilir kamera sayısı düşürülebilir.

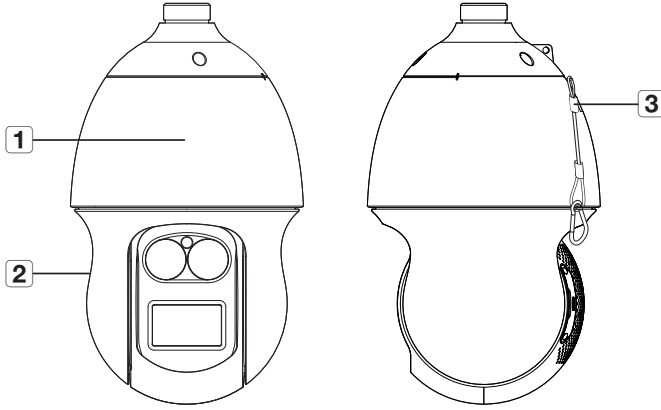
DAHİL OLANLAR

Kameranızın ve aksesuarlarınızın ürün ambalajında bulunup bulunmadığını lütfen kontrol edin.
(Satış yapılan her ülkede aksesuar aynı değildir.)

Görünüm	Öge Adı	Adet	Açıklama
	Ana Gövde	1	
	Hızlı Kullanma Kılavuzu (İsteğe bağlı)	1	
	Garanti kartı (İsteğe bağlı)	1	
	Monitör test kablosu	1	Kameranın taşınabilir bir görüntü cihazına bağlantısını test etmek için kullanılır
	Altıgen vida	3	Montaj tabanını kameraya takmak için kullanılır
	Allen Anahtarı	1	Montaj tabanını kameraya taktıktan sonra sabitlemek için kullanılır
	Montaj tabanı	1	Açık havada montaj braket
	Su geçirmezlik aksesuarı	1	Nemin yüksek olduğu yerlerde kurun ve kullanın.

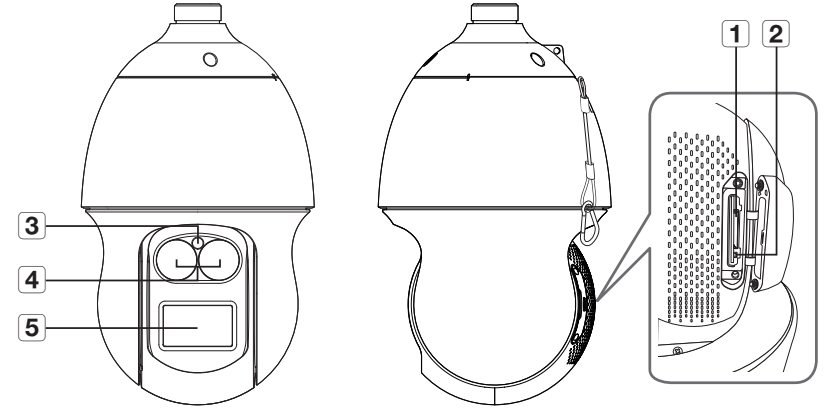
İLK BAKIŞ

Görünüm



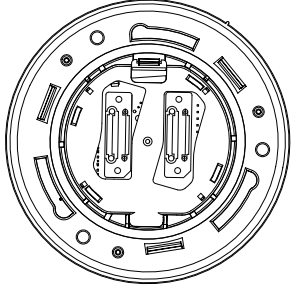
Madde	Açıklama
1 Ana ünite	Dahili PTZ mekanizmasını doğrudan gelen güneş ışığından, yağmurdan veya harici darbelerden korur.
2 Muhafaza Kapağı	Lens ve ünite koruması için muhafaza kapağı.
3 Güvenlik Kablosu	Kablo ürünün montaj sırasında düşmesini önler.

İç kısım

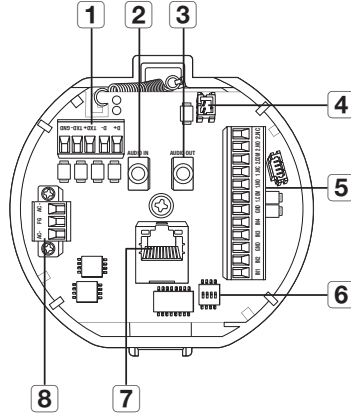


Madde	Açıklama
1 SD Bellek Kartı Bölmesi	SD bellek kartı için bölme. <input checked="" type="checkbox"/> SD bellek kartı yerleştirme konumu için <Inserting/Removing a SD Memory Card> bölümüne bakın. (sayfa 14)
2 Reset Düğmesi	Düğme, tüm kamera ayarlarını fabrika varsayılan ayarlarına geri döndürür. Sistemi yeniden başlatmak için yaklaşık 5 saniye basılı tutun. <input checked="" type="checkbox"/> Kamerayı sıfırlarsanız, DHCP'nin etkinleştirilmesi için ağ ayarları yapılır. Ağda DHCP sunucusu yoksa, ağa bağlanabilmeniz için önce IP adresi, Alt ağ maskesi, Ağ geçidi, vb. temel ağ ayarlarını değiştirmek için Device Manager programını çalıştırmanız gerekmektedir.
3 Aydınlatma Sensörü	IR LED'i kontrol etmek için gelen ışığı algılar.
4 IR LED'i	Bu kızılötesi LED'ler aydınlatma sensörü tarafından kontrol edilir.
5 Mercek	Kamera Lensi.

Montaj Tabanının Alttan Görünümü



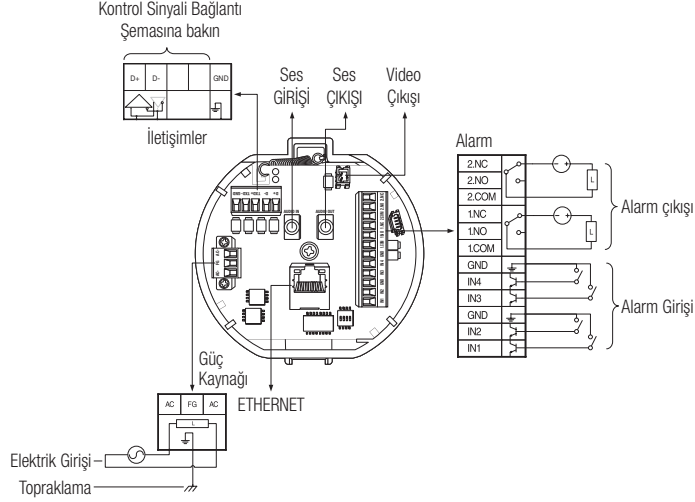
Montaj Tabanının İç Görünümü



Madde	Açıklama
1 İletişim Portları	RS-485 iletişimleri için kullanılır.
2 Ses Girişi Bağlantı Noktası	Ses giriş kablosunu bağlamak için kullanılır.
3 Ses Çıkışı Bağlantı Noktası	Ses çıkış kablosunu bağlamak için kullanılır.
4 Video Çıkış Bağlantı Noktası	Analog video çıkışı bağlantı noktası. (kurulum için)
5 Alarm I/O Bağlantı Noktası	Alarm I/O kablosunu bağlamak için kullanılır.
6 İletişim Ayarı Düğmesi	İletişim protokolünü (RS-485) ayarlayın ve sonlandırılıp sonlandırılmayacağını belirtir.
7 Ağ Bağlantıları	Ethernet kablosu kullanarak ağ ile bağlantı portu.
8 Güç Bağlantı Noktası	Gücü bağlamak için kullanılır.

Kamera Kablo Bağlantıları Arabirim Kartı

Kameranin kablo bağlantıları için lütfen aşağıdaki resme bakın.

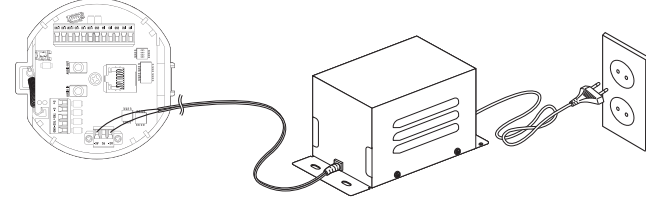


- Kurulum menüsünden Normal Aç ögesini seçin.
 - Sensör girişi kontak tipi için kısa bir süre etkinleştirilir veya aktif tip için "Düşük" seviyede ise etkinleştirilir.
- Kurulum menüsünden Normal Kapat seçeneğini belirleyin.
 - Kontak tipi için açıkken, sensör girişi etkinleştirilir veya aktif tip için yüksek iç direnç durumunda (açık kolektör) etkinleştirilir.
- Alarm çıkış terminalinin maksimum kapasitesi 30V DC/2A, 125V AC/0.5A ve 250V AC/0.25A'dır.
- Alarm giriş ve çıkış kablolarını bağlarken, sırayla her bir terminale bir kablo bağladığınızdan emin olun.
- Kameranin kapasitesinin üzerindeki ürünleri bağlamak için, lütfen ek bir röle cihazı kullanın.
- Güç ve GND kabloları NC/NO veya COM portuna yanlış biçimde bağlanırsa, yangın veya ekipman arızası meydana gelebilir.

Diğer Cihazlarla Bağlantı

Adaptör ve Kablonun Hazırlanması

- Kamerayı güç adaptörüne bağlayın. Sonra adaptörün güç kablolarını duvardaki prize takın.



Bağlantıları yapmadan önce nominal voltajı ve akımı kontrol edin.

Anma Gücü	İzin Verilen Giriş Voltajı	Akım Tüketimi
AC 24V	AC 22V ~ 26V	6A

- Ürün -50°C veya altındaki ortam sıcaklığında kullanılamaz.
- 50°C sıcaklıkta kurulum alanına bağlı olarak ürün donmayabilir.
- Düşük sıcaklık ortamında ürün tek başına bırakıldığında, normal çalışmaya başlaması 2 saati bulabilir.
- IR dimmer zoom yapma hızı at -40 °C veya altı ortam sıcaklığında düşebilir.
- -20 °C veya altı ortam sıcaklığına maruz kaldıktan sonra ürün açılırsa, saati sıfırlayın.

Bakır Telin Elektriksel Direnci [20°C (68°F)]

Bakır Tel Ölçüsü (AWG)	#24(0,22mm²)	#22(0,33mm²)	#20(0,52mm²)	#18(0,83mm²)
Direnç (Ω/m)	0,078	0,050	0,030	0,018
Voltaj Düşmesi (V/m)	0,028	0,018	0,011	0,006
Tavsiye Edilen Mesafe (m)	20 m'den az	30 m'den az	30 m'den az	30 m'den az

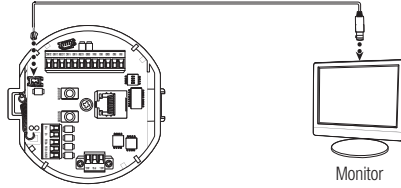
- Yukarıdaki tabloda gösterildiği gibi, kablo uzunluğuna bağlı olarak voltaj düşmesiyle karşılaşabilirsiniz. Kablo bağlantısı için aşırı uzun bir kablo kullanıyorsanız, kamera düzgün bir şekilde çalışmayabilir.
 - Kamera Çalışma Voltajı: AC 24V±%10
 - Yukarıdaki tabloda verilen voltaj düşmesi önlemleri, bakır kabloların türüne ve üretimine bağlı olarak farklılık gösterebilir.

Ethernet Bağlantısı

Ethernet kablolarını yerel ağa veya İnternete bağlayın.

Kurulum monitörünün bağlanması

Kabloyu kameranın arkasındaki video çıkış terminaline ve kurulum monitörünün video giriş terminaline bağlayın.



- Kablo, monitör türüne ve çevre aygıtlarına bağlı olarak farklılık gösterir, lütfen her aygıt için kullanım kılavuzuna bakın.
- Lütfen bağlamadan önce monitör ve kameranın kapalı olduğundan emin olun.

- ! ■ Bu ürün, ağ üzerinden video gönderen bir ağ kamerasıdır, video çıkış terminali kurulumda kameranın görüntüleme aralığını ayarlamak için kullanılır.
- Terminalin izleme amaçlarıyla kullanılması, video kalitesinde düşme gibi sorunlara neden olabilir.
- CRT monitörlerini veya TFT/LCD taşınabilir monitörler kullanarak 24 saat izleme yapmak için uygun değildir.
- 24 saatlik izleme ve depolama için ağ transferi ekranını kullanın.

MONTAJ

Kamera Kelepçesinin Hazırlanması ve Montajı

Kelepçe ve yuvaların montaj talimatları için kelepçe veya yuvayla birlikte verilen kullanım kılavuzuna başvurun.

■ Kullanılabilen Kelepçe Modelleri

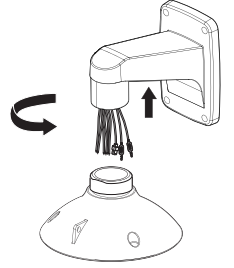
Model	Öge
SBP-300WM1	Duvara Montaj
SBP-300WM	
SBP-300CM	Tavana Montaj
SBP-300LM	Parmaklık Montajı
SBP-300KM	Köşeye Montaj
SBP-300PM	Direğe Montaj

- ! ■ Kelepçelerin (bağımsız) görünümü için "Kurulum için İsteğe Bağlı Aksesuarlar" bölümüne bakın. (sayfa 12)

Duvara montaj

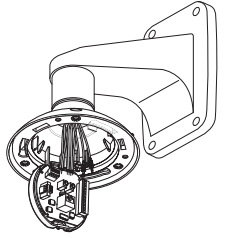
■ Montaj tabanını kelepçeyle sabitleyin

1. Tabanı saat yönünde çevirerek kelepçeyle sabitleyin.



2. Aşağıdaki resimde gösterildiği gibi montaj tabanının altındaki açılır kapanır kapağın tutacağına hafifçe bastırıp kaldırın. Lütfen sayfa 9'teki "Kamera Kablo Bağlantıları Arabirim Kartı" bölümüne bakın, kabloları bağlayın.

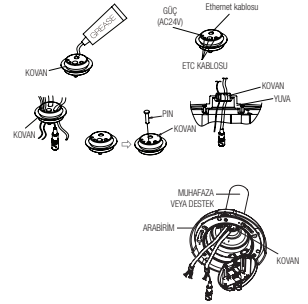
- ! ■ Montaj tamamlanana kadar kamerayı prize takmayın. Montaj devam ederken cihaza güç verilmesi yangına veya ürünün zarar görmesine neden olabilir.



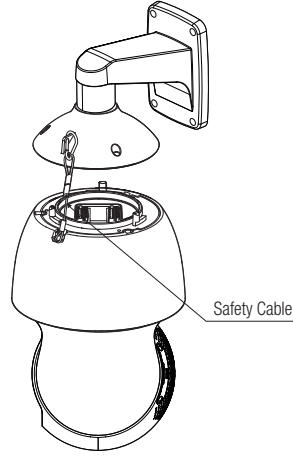
- ! Kablo bağlantı yöntemini kontrol edin ve kurun.

- KOVANLAR, BORU veya TABANDAN rutubete maruz kalınabilecek dış mekan kurulumları için verilir; rutubetin girmesini engellemek için YUVAYI KOVANI kullanarak kurun.

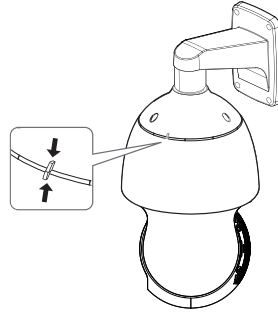
- Montaj öncesinde KOVANI uygun miktarda gres sürün ve kabloları kovanların her bir deliğinden geçirin. Kablo geçmeyen boş delikleri kapatmak için PİMLERİ kullanın.
- KOVANI, YUVANIN iç tarafının üst kısmına, aşağıdaki şekilde gösterilen şekilde monte edin. KOVANI YUVAYA sabitlemek için şekilde gösterilen biçimde eşit miktarda gres sürün.



3. Kamera güvenlik kablosunu montaj tabanına bağlayın.

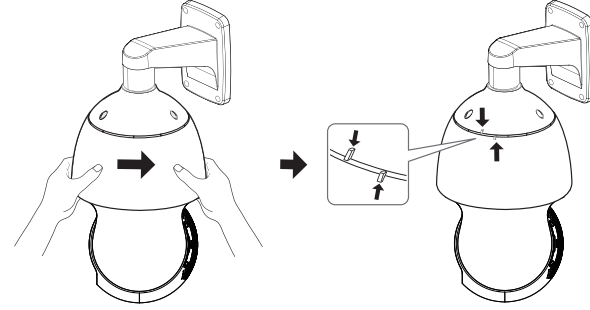


4. Kameranın ve Montaj Tabanının Birleştirilmesi
Montaj tabanını ve kamerayı, montaj yönü kılavuzlarını eşleştirerek birleştirin.



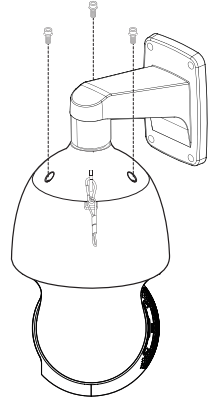
5. Kameranın Takılması

Üst bölümdeki ve alt bölümdeki referans işaretini şekilde gösterildiği gibi konumlandırmak için, ana gövdeyi saat yönünde döndürün.



6. Kamera ve Montaj Tabanını Sabitleyin

Aşağıdaki resimde gösterildiği gibi, kurulum tabanını ve kamerayı altıgen vidalar kullanarak sabitleyin.



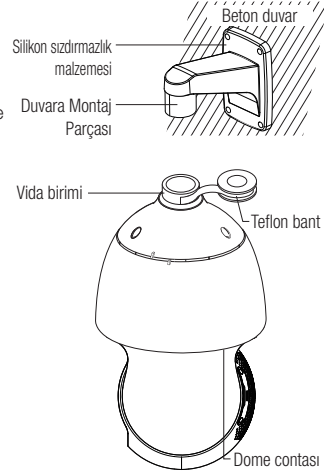
Su Yalıtımı Notları

Bu model, dış mekan kullanımı için entegre bir muhafaza ürünüdür.

■ Ana gövdeyle duvar montaj parçasını duvara montaj için birleştirirken

1. Duvar montajını düz duvara yapın. Eğimli bir duvara monte edildiğinde, nem harici kablo üzerinden ana gövdeye sızabilir.
2. Montaj için, muhafazanın vidalı bölümünü yeterli miktarda teflon bantla sarın.
3. Lütfen, muhafaza kapağı muhafaza gövdesine montajlıyken ve ayrıldığında contanın muhafaza kapağından sökülmediğinden emin olun.
4. Su yalıtımı için duvara montaj adaptörünü monte edin ve sızdırmazlık için duvar ve duvar montajı arasına ve etrafına silikon sızdırmazlık malzemesi uygulayın.

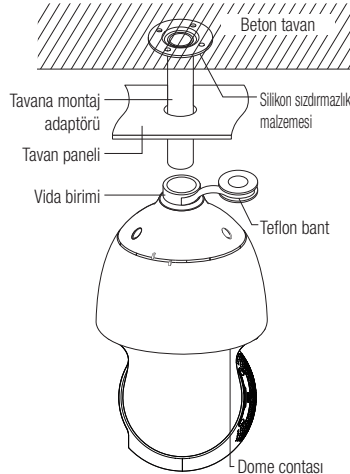
! ■ Monte edilen taraf düz değilse, uygun sızdırmazlık olduğundan emin olmak için gerekli önlemleri alın.



■ Duvara montaj için ana gövdeyi ve tavan montaj adaptörünü birleştirirken

1. Montaj için, muhafazanın vidalı bölümünü yeterli miktarda teflon bantla sarın.
2. Lütfen, muhafaza kapağı muhafaza gövdesine montajlıyken ve ayrıldığında contanın muhafaza kapağından sökülmediğinden emin olun.
3. Su yalıtımı için tavana montaj adaptörünü monte edin ve sızdırmazlık için duvar ve tavana montaj parçası arasına ve etrafına silikon sızdırmazlık malzemesi uygulayın.

! ■ Monte edilen taraf düz değilse, uygun sızdırmazlık olduğundan emin olmak için gerekli önlemleri alın.

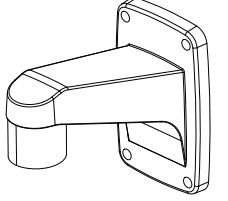


Kurulum için İsteğe Bağlı Aksesuarlar

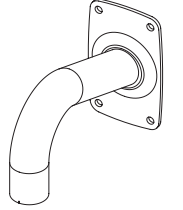
Kurulumu daha kolay gerçekleştirmek için, mevcut olan isteğe bağlı uygun aksesuarları satın alabilirsiniz.

1. Kamera duvara monte ediliyorsa

- Duvara Montaj (SBP-300WM1)

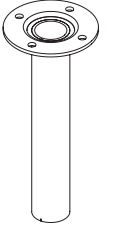


- Duvara Montaj (SBP-300WM)



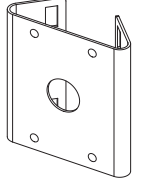
2. Kamera tavana monte ediliyorsa

- Tavana Montaj (SBP-300CM)



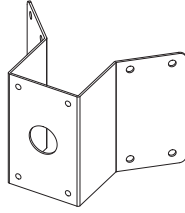
3. Duvara montaj (SBP-300WM/SBP-300WM1) en az 80 mm uzunluğunda bir silindire yapılıyorsa

- Direğe Montaj (SBP-300PM)



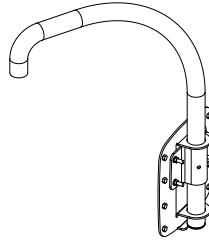
4. Duvara montaj (SBP-300WM/SBP-300WM1) bir duvarın köşesine yapılıyorsa

- Köşeye Montaj (SBP-300KM)

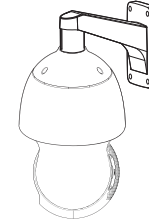


5. Bir binanın çatısına monte ediliyorsa

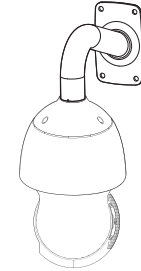
- Parmaklık Montajı (SBP-300LM)



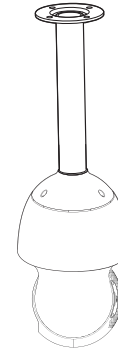
▪ Montaj Bağlantı Parçası



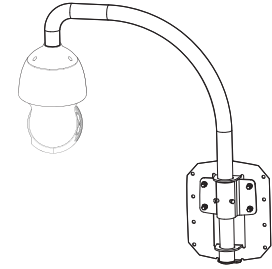
Duvara Montaj (SBP-300WM1)



Duvara Montaj (SBP-300WM)



Tavana Montaj (SBP-300CM)



Parmaklık Montajı (SBP-300LM)

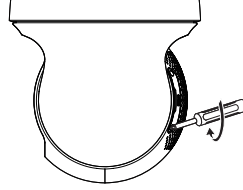
SD HAFIZA KARTINI TAKMAK/ÇIKARTMAK

- SD bellek kartını takmadan önce güç kablosunu kameradan çıkarın.
- Yağmurlu veya nemli hava koşullarında SD bellek kartının çıkartılması önerilmez.
- Kamera gövdesini, muhafaza kapağını ve SD tutma braketini monte ederken, nem sızmasını önlemek için vidaları sıkıştırın.
- SD bellek kartını monte ederken veya sökarken, parça kaybetmeyi ve düşme kazasını önlemek için yerdeki ana gövdeyi önce yerleştirin.

SD Hafıza Kartını Takmak

1. Tornavidayla saat yönünün tersine çevirerek SD tutma braketindeki iki vidayı gevşetin.

- Vidaları sökmeyin.

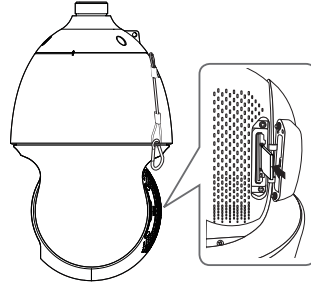


2. SD tutucu braketini kaldırın ve SD kartını şekilde gösterildiği gibi ok yönünde itin.

- SD bellek kartını ters tutarak ve zorlayarak takmayın. Aksi takdirde SD bellek kartı zarar görebilir.

3. SD bellek kartı yerleştirildikten sonra kamerayı sökme sırasının ters sırasıyla monte edin.

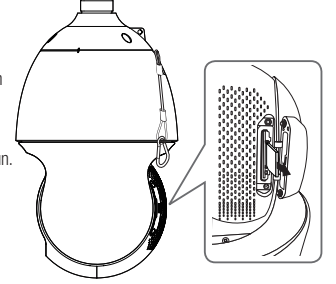
- Nem sızmasını önlemek için kamerayı monte ederken vidaları sıkıştırın.



SD Hafıza Kartını Çıkartmak

Hafıza kartını yuvasından çıkartmak için şemada gösterildiği gibi hafıza kartının açık tarafından yavaşça basın.

- SD hafıza kartına çok fazla bastırmak, kart serbest bırakıldığında yuvadan fırlamasına neden olabilir.
- SD hafıza kartını çıkarmadan önce, cihazı **<Depolama>** menüsünde **<Kapalı>** duruma getirin, **[Uygula]** düğmesine basın ve kamerayı kapatın.
- Fotoğraf makinesini kapatırsanız veya üründen veriler içeren SD bellek kartını çıkarırsanız, veriler kaybolabilir veya hasar görebilir.

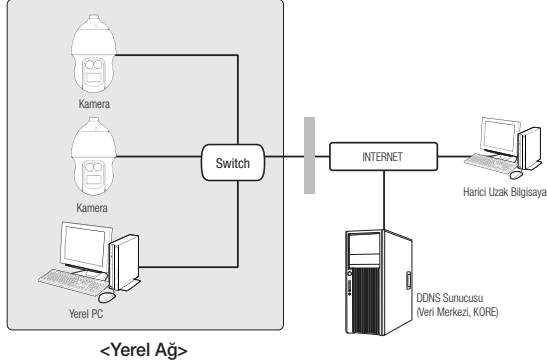


Ağ ayarlarınızı ağ yapılandırmanıza göre ayarlayabilirsiniz.

KAMERAYI DOĞRUDAN YEREL ALAN AĞINA BAĞLAMAK

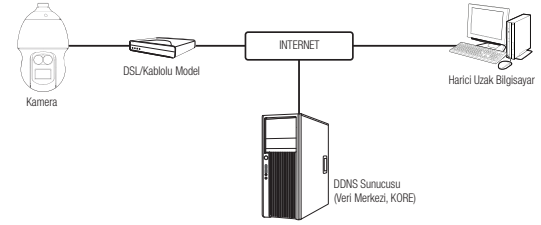
Kameraya Lan Üzerinde Yerel Bir Pc'den Bağlanmak

1. Yerel Pc'de Bir İnternet Tarayıcı Çalıştırın.
2. Tarayıcının Adres Çubuğuna Kameranın İp Adresini Girin.



- Eğer Port Yönlendirme Doğru Ayarlanmamışsa Ya Da Bir Güvenlik Duvar Ayarlıysa, Lan Ağı Dışından Harici Bir Pc İnternet Üzerinden Kamera'ya Bağlanamayabilir. Bu Durumda, Sorunu Çözmek İçin, Ağ Yöneticisi İle Temas Kurun.
- Device Manager'da, İp Adresi, Alt Ağ Maskesi, Ağ Geçidi, HTTP Portu, VNP Portu, İp türü ayarlarını yapmak için ilk parola olan "4321"i kullanabilirsiniz. Ağ arabirimini değiştirdikten sonra, güvenliğin daha iyi olmasını sağlamak için web viewer'a erişip şifreyi değiştirin.
- İp adresi fabrika ayarlarına göre otomatik olarak DHCP sunucusundan atanır. Kullanılabilen DHCP sunucusu yoksa, İp adresi 192.168.1.100 olarak ayarlanır. İp adresini değiştirmek için Device Manager'ı kullanın. Device Manager'ın kullanımı hakkında daha fazla bilgi için, "Device Manager'ı Kullanma" kısmına bakın. (Sayfa 17)

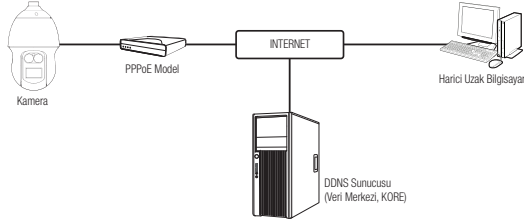
KAMERANIN DOĞRUDAN BİR DHCP TABANLI DSL/KABLOLU MODEME BAĞLANMASI



1. Kullanıcı bilgisayarı doğrudan ağ kamerasıyla bağlayın.
2. Device Manager'ı çalıştırın ve İnternet'e bağlanmak için masaüstünüzdeki web tarayıcısını kullanabilmek amacıyla kameranın İp adresini değiştirin.
3. İnternet tarayıcısını kullanarak web görüntüleyiciye bağlanın.
4. [Ayarlar] sayfasına gidin.
5. [Ağ] – [DDNS] sayfasına gidin ve DDNS ayarlarını yapılandırın.
6. [Basic] – [İP & Bağlantı Noktası] ögesine gidin ve İp türünü [DHCP] olarak ayarlayın.
7. Bilgisayarınızdan kaldırılan kamerayı doğrudan modeme bağlayın.
8. Kamerayı yeniden başlatın.

- DDNS ayarı hakkında bilgi almak için Web Viewer'ın çevrimiçi yardım bölümüne bakın.
- İp biçimi ayarlama hakkında bilgi için, Web Viewer'ın çevrimiçi yardım bölümüne bakın.

KAMERANIN DOĞRUDAN PPPoE MODEME BAĞLANMASI

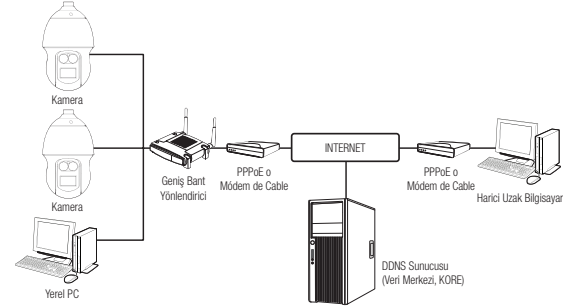


1. Kullanıcı bilgisayarı doğrudan ağ kamerasıyla bağlayın.
2. Device Manager'ı çalıştırın ve İnternet'e bağlanmak için masaüstünüzdeki web tarayıcısını kullanabilmek amacıyla kameranın IP adresini değiştirin.
3. İnternet tarayıcısını kullanarak web görüntüleyiciye bağlanın.
4. [Ayarlar] sayfasına gidin.
5. [Ağ] – [DDNS] sayfasına gidin ve DDNS ayarlarını yapılandırın.
6. [Basic] – [IP & Bağlantı Noktası] Ayar Sayfasına gidin, IP türünü [PPPoE] olarak ayarlayın ve ağ hizmeti kimliğini ve şifresini girin.
7. Bilgisayarınızdan kaldırılan kamerayı doğrudan modeme bağlayın.
8. Kamerayı yeniden başlatın.

- DDNS ayarı hakkında bilgi almak için Web Viewer'ın çevrimiçi yardım bölümüne bakın.
- IP biçimi ayarlama hakkında bilgi için, Web Viewer'ın çevrimiçi yardım bölümüne bakın.

KAMERANIN BİR GENİŞ BANT YÖNLENDİRİCİYE PPPoE/KABLO MODEMLE BAĞLANMASI

Evlər, SOHO ve ufak dükkanlar gibi küçük ağ ortamları içindir.



Bir Geniş Bant yönlendiriciye bağlı yerel bilgisayarın ağ ayarlarının yapılandırılması

Bir Geniş Bant yönlendiriciye bağlı yerel PC'nin ağ ayarlarının yapılandırılması için aşağıdaki talimatları takip edin.

- Seçin : <Network> → <Properties> → <Local Area Connection> → <General> → <Properties> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> ya da <Use the following IP address>.
- Eğer <Use the following IP address> seçtiyseniz aşağıdaki talimatları takip edin:
 - örn1) Eğer Geniş Bant yönlendiricinin adresi (LAN IP) 192.168.1.1 ise
IP address : 192.168.1.100
Alt Ağ Maskesi : 255.255.255.0
Varsayılan Ağ Geçidi : 192.168.1.1
 - örn2) Eğer Geniş Bant yönlendiricinin adresi (LAN IP) 192.168.0.1 ise
IP address : 192.168.0.100
Alt Ağ Maskesi : 255.255.255.0
Varsayılan Ağ Geçidi : 192.168.0.1
 - örn3) Eğer Geniş Bant yönlendiricinin adresi (LAN IP) 192.168.xxx.1 ise
IP address : 192.168.xxx.100
Alt Ağ Maskesi : 255.255.255.0
Varsayılan Ağ Geçidi : 192.168.xxx.1
- Geniş Bant yönlendiricinin adresi için ürün belgelerine bakınız.
- Geniş bant yönlendiricinin bağlantı noktası iletimi hakkında daha fazla bilgi için bkz. "Bağlantı Noktası Aralığı Aktarım (Bağlantı Noktası Eşleme) Ayarı". (sayfa 19)

DEVICE MANAGER'I KULLANMA



- Device Manager programı, Hanwha Vision web sitesindeki <Support> – <Online Tool> menüsünden indirilebilir (<https://www.hanwhavision.com>).
- Device Manager hakkında daha fazla talimatı, ana sayfanın <Yardım> menüsünde bulabilirsiniz.

KAMERAYI OTOMATİK OLARAK ARAMA

Kamera, Device Manager'ın kurulu olduğu PC ile aynı ağa bağlıysa, arama fonksiyonunu kullanarak ağ kamerasını bulabilirsiniz.

- Device Manager'ın ana sayfasındaki <Ara> seçeneğine tıklayın.
- Listeden kamerayı kontrol edin.
 - Kameraya yapıştırılmış etiketeki MAC adresini kontrol edin.

IP ADRESİNİ YAPILANDIRMA

Kamera ağ ayarını değiştirmek istiyorsanız, <Durum> kısmında <Oturum Açma Tamam> işareti gösteriliyor olmalıdır. Oturum açmak için ana sayfadaki <Kimlik Doğrulama> seçeneğine tıklayın.

Statik IP'yi yapılandırma

IP adresi ve port bilgilerini manuel olarak ekleyin ve yapılandırın.

- Listeden IP ayarını değiştirmek istediğiniz kameraya tıklayın.
- Device Manager'ın ana sayfasındaki <IP Assign (IP Atama)> seçeneğine tıklayın.
- <Takip eden IP adresi ata> seçimini yapın.
 - Kameranın IP bilgileri önceden ayarlandığı gibi görüntülenecektir.
- IP ve Port ile ilgili kategorileri doldurun.

Bir Geniş Bant yönlendirici kullanılmıyorsa

Ağ yöneticisinden <IP Adres>, <Altağ Maskesi>, <Ağ Geçidi> değerlerini ayarlamasını isteyin.

- HTTP Port : Kameraya İnternet tarayıcı kullanılarak erişmek için kullanılır; varsayılan değer 80'dir.
- VNP Port : Video sinyal aktarımını kontrol etmek için kullanılır, varsayılan değer 4520'dir.
- RTSP Port : Gerçek zamanlı akışı kontrol eden bir porttur. İlk değeri 554'tür.

Bir Geniş Bant yönlendirici kullanılıyorsa

- IP Address : IP aralığında kalan ve Geniş Bant yönlendirici tarafından verilen bir adres girin.
örn) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : Geniş Bant yönlendiricinin <Subnet Mask>'i, kameranın <Subnet Mask>'i olacaktır.
- Gateway : Geniş Bant yönlendiricinin <Local IP Address>'i, kameranın <Gateway>'i olacaktır.



- Ayarlar, bağlı Geniş Bant yönlendiricisinin modeline göre farklılık gösterebilir. Daha ayrıntılı bilgi için, geçerli yönlendiricinin kullanım kılavuzuna bakın.
- Geniş bant yönlendiricinin bağlantı noktası iletimi hakkında daha fazla bilgi için bkz. "Bağlantı Noktası Aralığı Aktarım (Bağlantı Noktası Eşleme) Ayarı". (sayfa 19)

Geniş Bant yönlendiriciye bağlı birden fazla kamera varsa

IP ile ilgili ayarları ve Bağlantı Noktası ile ilgili ayarları birbirinden ayrı şekilde yapılandırın.
örn)

	Kategori	Kamera No. 1	Kamera No. 2
IP ile ilgili ayarlar	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Bağlantı noktası ile ilgili ayarlar	HTTP Port	8080	8081
	VNP Port	4520	4521
	RTSP Port	554	555



- <HTTP Port> 80 dışında bir değere ayarlanmışsa, kameraya erişebilmek için öncelikle İnternet tarayıcısının adres çubuğuna <Port> numarasını girmeniz gerekir.
örn) http://IP adresi : HTTP bağlantı noktası
http://192.168.1.100:8080

5. [Uygula] Düğmesine tıklayın.

6. Başarılı mesajı görüntülenirse, [Tamam] seçeneğine tıklayın.

Dinamik IP'yi Yapılandırma

DHCP'den IP adresini alın

- Dinamik IP ortamı örneği
 - Kameraların bağlı olduğu bir Geniş Bant yönlendiricisine DHCP sunucusu tarafından bir IP adresi atanmışsa
 - Kamera, DHCP protokolleri kullanılarak doğrudan modeme bağlanıyorsa
 - IP'ler LAN aracılığıyla dahili DHCP sunucusu tarafından atanmışsa

1. Listedeki IP ayarını değiştirmek istediğiniz kameraya tıklayın.
2. Device Manager'ın ana sayfasındaki <IP Assign (IP Atama)> seçeneğine tıklayın.
3. <IP adresi otomatik olarak belirle (DHCP)> seçimini yapın.
4. [Uygula] düğmesine tıklayın.
5. Başarılı mesajı görüntülenirse, [Tamam] seçeneğine tıklayın.

IP'YI OTOMATİK OLARAK YAPILANDIRMA

1. Listedeki IP'sini otomatik olarak yapılandırmak istediğiniz kameraya tıklayın.
2. Device Manager'ın ana sayfasındaki < + > seçeneğine tıklayın.
 - Ekipman Ayarı menüsü görünür.
3. Menüde <Auto IP Configure (Oto IP Yapılandır)> seçeneğine tıklayın.
4. [Kapa] düğmesine tıklayın.

KAMERAYI MANUEL OLARAK KAYDETME

Kameranın arama fonksiyonu kullanılarak bulunamaması durumunda, kamera harici ağa bağlıysa, IP bilgileri manuel şekilde eklenerek kamera uzaktan kaydedilebilir.

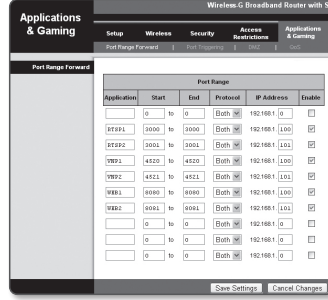
1. Device Manager'ın ana sayfasındaki <Cihaz Ekle> – <Cihazı Manuel Ekle> seçeneğine tıklayın.
2. Aradığınız IP adresi aralığını ekleyin.
3. Kaydettiğiniz kameranın <Model adı> seçin ve HTTP portu, VNP portu, kimlik ve şifre bilgilerini ekleyin.
4. [Kayıt] düğmesine tıklayın.
5. Kameranın kayıtlı olup olmadığını kontrol edin.
 - Kameraya yapıştırılmış etiketteki MAC adresini kontrol edin.

BAĞLANTI NOKTASI ARALIĞI AKTARIM (BAĞLANTI NOKTASI EŞLEME) AYARI

Bir kameranın bağlı olduğu bir Geniş Bant yönlendiriciyi kurarken, uzak bir bilgisayarın yönlendiricideki kameraya erişebilmesi için, Geniş Bant yönlendiricide bağlantı noktası aralığı aktarımını ayarlamamız gerekir.

Manuel Bağlantı Noktası Aralığı Aktarımı

1. Geniş Bant yönlendiricinin Ayarlar menüsünden, **<Applications & Gaming>** - **<Port Range Forward>** öğelerini seçin.
Bir üçüncü şahıs Geniş Bant yönlendiricisi için bağlantı noktası aralığı aktarımını ayarlamak için, ilgili Geniş Bant yönlendiricinin kullanıcı kılavuzuna başvurun.
2. Geniş Bant yönlendiriciye bağlı her bir kamera için **<TCP>** ve **<UDP Port>** ayarlarını yapın.
IP yönlendirici ile yapılandırılacak her bir bağlantı noktasının sayısı, kamera web görüntüleyicisinde **<Ayarlar>** - **<Basic>** - **<IP & Bağlantı Noktası>** bölümünde belirlenen port sayısına göre ayarlanmalıdır.
3. İşlem tamamlandığında **[Save Settings]** düğmesini tıklayın.
Ayarlarınız kaydedilir.

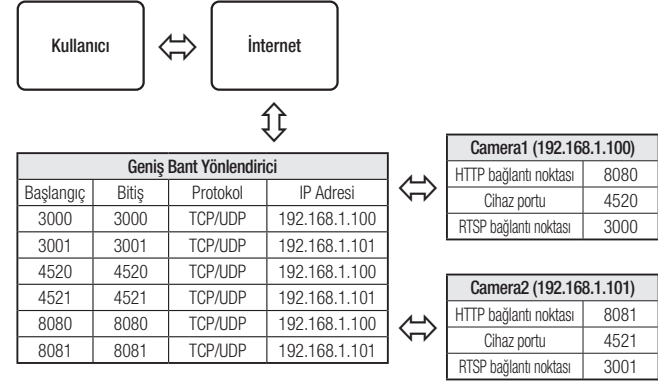


- Port yönlendirme ayarı, CISCO IP yönlendirici ayarına bir örnektir.
- Ayarlar, bağlı Geniş Bant yönlendiricisinin modeline göre farklılık gösterebilir.
Daha ayrıntılı bilgi için, geçerli yönlendiricinin kullanım kılavuzuna bakın.

Faklı Ağ Kameraları için Bağlantı Noktası Aralığı Aktarım Ayarı

- Geniş Bant yönlendirici cihazda, yapılandırma web sayfası ile Bağlantı Noktası İletme kuralı belirleyebilirsiniz.
- Kullanıcı kamera ayar ekranını kullanarak herhangi bir portu değiştirebilir.

Kamera 1 ve Kamera 2 bir yönlendiriciye bağlandığında :



- Yönlendiricinin UPnP (Evrensel Tak ve Çalıştır) özelliğini desteklemesi halinde, port yönlendirme ek yönlendirici kurulumu olmadan yapılabilir.
Ağ kablosunu bağladıktan sonra, **"Ayarlar -> Ağ -> DDNS"** içinde **<DDNS>** altında **<Hızlı Bağlantı>** menüsündeki onay kutusunu işaretleyin.

KAMERAYA PAYLAŞILAN BİR YEREL BILGISAYARDAN BAĞLANMA

1. Device Manager'ı çalıştırın.
Bağlı kameralar taranır ve kameraların bir listesi görüntülenir.
2. Bir kameraya erişmek için üzerine çift tıklanır.
İnternet tarayıcı başlatılır ve kameraya bağlanır.



■ Kameraya, bulunan kameranın IP adresini İnternet tarayıcının adres çubuğuna yazarak da erişebilirsiniz.

KAMERAYA İNTERNET ARACILIĞIYLA UZAK BİR BILGISAYARDAN BAĞLANMA

Kullanıcılar, Geniş Bant Yönlendiricisinin ağ kümesinde bulunmayan bir uzak bilgisayarda, kameranın DDNS URL'sini kullanarak bir Geniş Bant Yönlendiricisi ağı içindeki kameralara erişebilirler.

1. Geniş Bant yönlendirici ağındaki bir kameraya erişebilmek için, öncelikle Geniş Bant yönlendirici için bağlantı noktası aralığı aktarımını ayarlamış olmanız gerekir.
2. Uzak bilgisayardan İnternet tarayıcıyı başlatın ve kameranın DDNS URL adresini veya Geniş Bant yönlendiricinin IP adresini adres çubuğuna yazın.
örn) <http://ddns.hanwha-security.com/ID>

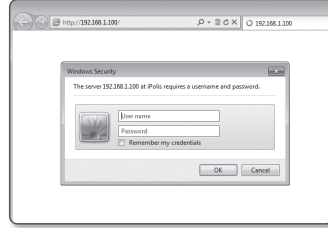


■ DDNS kullanmak için, DDNS ana sayfasında (<http://ddns.hanwha-security.com>) kaydolun ve ürünü **[DDNS Ayarlarını]>[Ürün Kaydı]** seçeneği altında kaydedin.

KAMERAYA BAĞLAMA

Normal koşullar altında aşağıdakileri yapmanız gerekir

1. İnternet tarayıcıyı başlatın.
2. Kameranın IP adresini adres çubuğuna yazın.
 örn) • IP adresi (IPv4) : 192.168.1.100 → http://192.168.1.100
 - Oturum Açma iletişim kutusu açılır.
 • IP adresi (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111
 → http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - Oturum
 Açma iletişim kutusu açılır.



HTTP bağlantı noktası 80 dışında bir değer ise

1. İnternet tarayıcıyı başlatın.
2. Kameranın IP adresini ve HTTP bağlantı noktası numarasını adres çubuğuna yazın.
 örn) IP adresi: 192.168.1.100: HTTP bağlantı noktası numarası (8080)
 → http://192.168.1.100:8080 - Oturum Açma iletişim kutusu açılır.

URL adresinin kullanılması

1. İnternet tarayıcıyı başlatın.
2. Kameranın DDNS URL adresini adres çubuğuna yazın.
 örn) URL adresi : http://ddns.hanwha-security.com/ID
 - Oturum Açma iletişim kutusu açılır



■ Yalnızca LAN ortamında ağ bağlantısı devre dışı bırakılır.

UPnP üzerinden bağlanma

1. UPnP protokolünü destekleyen istemciyi veya işletim sistemini çalıştırın.
2. Arama yapmak için kamera adına tıklayın.
 Windows işletim sisteminde, ağ menüsünden aranan kamera adına tıklayın.
 - Oturum açma penceresi görüntülenir.

Bonjour üzerinden Bağlanma

1. Bonjour protokolünü destekleyen istemciyi veya işletim sistemini çalıştırın.
2. Arama yapmak için kamera adına tıklayın.
 Mac işletim sisteminde, Safari'nin Bonjour sekmesinden aranan kamera adına tıklayın.
 - Oturum açma penceresi görüntülenir.

DDNS adresinin kontrol edilmesi

Kamera doğrudan DHCP kablolu modeme, DSL modeme veya PPPoE modeme bağlıysa, her ISP (İnternet Hizmet Sağlayıcısı) sunucusuna bağlanmaya çalıştığınızda ağınızın IP adresi değişecektir. Böyle bir durumda DDNS tarafından değiştirilen IP adresi size bildirilmez.

DDNS sunucusuyla dinamik IP bazlı bir aygıt kaydettiğinizde aygıtı erişmeye çalıştığınızda değişen IP'yi kolayca kontrol edebilirsiniz.

Cihazınızı <DDNS> sunucusuna kaydetmek için <http://ddns.hanwha-security.com> adresini ziyaret edin ve öncelikle cihazınızın kaydını yapın ve sonra Ağ Görüntüleyici'yi <Ağ> - <DDNS> <DDNS> olarak ayarlayın ve DDNS kaydı için kullanılan <Ürün Kimliği> girin.

ŞİFRE AYARI

Ürüne ilk kez erişim sağladığınızda, oturum açma şifresini yaratmanız gerekir.

“Şifre değiştirme” penceresi görüntülediğinde, yeni şifreyi girin.



- 8 ile 9 haneli yeni bir şifrede, şunlardan en az üçünü kullanmanız gerekir: büyük/küçük harfler, sayılar ve özel karakterler. 10 ile 15 haneli bir şifrede, yukarıda belirtilen türlerden en az ikisini kullanmanız gerekir.
 - İzin verilen özel karakterler: ~!@#\$%^&*()_-=+[]{}?/
- Daha üst seviyede güvenlik için şifrelerinizde aynı karakterlerin veya ardışık klavye girişlerinin tekrarlanmaması önerilir.
- Şifrenizi kaybettiyerseniz, ürünü sıfırlamak için **[RESET]** düğmesine basabilirsiniz. Bir deftere not ederek ya da ezberleyerek şifrenizi kaybetmeyin.

Administrator password change

New password

Confirm new password

. If the password is 8 to 9 letters long, then it should be a combination of at least three types upper/lower case alphabets, numbers and special characters.
 . If the password is 10 to 15 letters long, then it should be a combination of at least two types upper/lower case alphabets, numbers and special characters.
 . User name should be different from password.
 . The following special characters are available for use: ~!@#\$%^&*()_-=+[]{}?/
 . Don't use 4 or more characters consecutive together. (examples: 1234, abcd)
 . Don't use 4 or more characters repeated. (examples: III, 1111, aaaa)

OTURUM AÇMA

Kameraya her erişiminiz sırasında oturum açma penceresi görünür. Kameraya erişmek için Kullanıcı Kimliği'ni ve şifrenizi girin.

1. <User name> giriş kutusuna “admin” yazın.
Yönetici kimliği olan “admin” sabittir ve değiştirilemez.
2. Şifreyi <Password> giriş alanına girin.
3. **[OK]** ögesine tıklayın.
Oturum Açma başarılı olduğunda, Live Viewer ekranı açılır.



- Kameranın web görüntüleyicisine eriştiğinizde, görüntü verilerinin şifrelenip şifrelenmediğini kontrol ederek güvenliğe çok dikkat edin.



- Giriş işleminiz tamamlandığında “Remember my credentials” seçeneğini işaretlediğinizde, bir sonraki girişinizde oturum açma bilgilerinizi girmenize gerek kalmadan, otomatik olarak oturum açabilirsiniz.
- Ekrana boyutu %100 olduğunda en iyi video kalitesine sahip olursunuz. Oran düşürüldüğünde, görüntü kenarlardan kesilebilir.

Windows Security

The server 192.168.1.100 at iPolis requires a username and password.

User name

Password

☐ Remember my credentials

OK Cancel

HER BİR TARAYICI İÇİN EKLENTİ DESTEĞİ ÖZELLİKLERİ

Web görüntüleyici, mevcut eklenti web görüntüleyicisi ile birlikte, yeni eklenti içermeyen web görüntüleyicisini içerir. Bu sebepten dolayı, web görüntüleyicisi, eklentilerin desteklenmediği Chrome, EDGE, Firefox (sadece Windows 64-bit) gibi en yeni tarayıcı ortamlarında bile kullanılabilir. Eklentiler için, eklentilerin kurulabileceği IE ve Safari tarayıcıları önerilir. Tarayıcı ortamına bağlı olarak, aşağıdaki farklılıklar ortaya çıkabilir.

- **Chrome, FireFox (sadece Windows 64-bit), EDGE ve Safari tarayıcıları** : Tarayıcı ortamı herhangi bir eklentiye desteklemese de, eklenti içermeyen web görüntüleyicimiz, web görüntüleyicinin kullanılmasına imkan tanır.
- **Eklenti içermeyen web görüntüleyicisinin performansı**, video codecine ve çözünürlüğe bağlı olarak eklenti web görüntüleyicisinin performansından daha düşük olabilir.
 - Canlı videoda herhangi bir gecikme olursa, otomatik olarak eklenti içermeyen bir profil (H.264's HD (1280x720) 20 FPS) oluşturulur.
 - Oynatma için, codec ve çözünürlüğe bağlı olarak gecikme olabilir.
- Eklenti içermeyen özellik, Chrome tarayıcısı için optimize edilmiştir.
- **IE ve Safari tarayıcıları** : Mevcut web görüntüleyicisi eklentisini yüklemesizseniz bile bir web görüntüleyicisi kullanabilirsiniz.
- Kaydedilen videoları sorunsuz olarak izlemek/oynatmak için bir eklenti kurmanız gerekir.

WebView EKLENTİSİNİN KURULUMU

Eklenti içermeyen web görüntüleyicisine IE tarayıcı kullanarak erişir ve canlı video talep etmek veya kaydedilmiş bir videoyu oynatmak gibi özellikleri kullanmaya çalışırsanız, bir kurulum mesajı gösterilecektir. Bu görüldüğü zaman, özellikleri kullanabilmek için web görüntüleyici eklentisini yüklemeniz gerekir.

1. İzleme sayfasına ilk erişimde, kurulum sayfası görüntülenir. Kurulumla başlamak için **[Click Here]** düğmesine tıklayın.

■ Eklenti kurulum dosyası indirme durumu Internet Explorer dosyasında %99'da durdurulduysa "Araçlar → SmartScreen filtresi" bölümünde "SmartScreen filtresini kapat" seçimini belirledikten sonra yeniden deneyin.

2. Mesaj penceresinde **[Run]** düğmesine tıklayın.
3. Tüm tarayıcı pencerelerinin kapatılacağını belirtilen uyarı penceresi görüntülendiğinde **[Yes]** düğmesine tıklayın.

■ Önceden kurulmuş bir Web Görüntüleyici Eklentisi yoksa, adım 4 ve 5 atlanır.

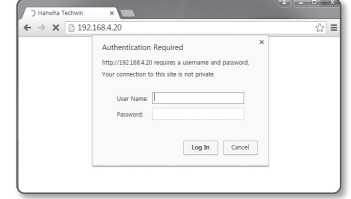
4. Web Görüntüleyici Eklentisinin eski sürümü kuruluysa, eski sürümün silindiğini gösteren bir uyarı penceresi görüntülenir. Uyarı penceresi görüntülendiğinde **[Yes]** düğmesine tıklayın.
5. **[OK]** düğmesine tıklayın. Web Görüntüleyici Eklentisinin eski sürümü silinir.
6. Web Görüntüleyici Eklentisinin kurulumuna başlamak için **[Install]** düğmesine tıklayın.
7. **[Finish]** düğmesine tıklayın. Web Görüntüleyici Eklentisinin kurulumu tamamlanmıştır.

■ Internet Explorer'ınızda, webviewer eklentisini kurduktan sonra kurulum ekranına gitmek istiyorsanız, "Araç → Ek İşlev Yönetimi" menüsünde webviewer_activeplugin_lib.control öğesinin "Etkin" olup olmadığını kontrol edin. Etkin değilse ve devam eden bir sorun varsa, "Araçlar → İnternet Seçenekleri → Genel" öğesini seçin ve arama kayıtlarının tümünü silin. Hala çalışmıyorsa, "Araçlar → İnternet Seçenekleri → Güvenlik → Güvenilir Siteler" seçeneğine gidin ve kameranızın IP adresini veya etki alanını kaydedin.

EKLENTİSİZ WEB GÖRÜNTÜLEYİCİ KULLANMA

Kameraya Google Chrome, Mozilla Firefox veya MS Edge web tarayıcısı üzerinden erişiyorsanız hiçbir eklenti kurulmayacaktır, ancak herhangi bir eklenti yüklemeyen de canlı kamera videosunu izleyebilirsiniz.

1. Oturum açmak için kullanıcı adınızı ve parolayı girin.
2. Oturum açtığınızda, kameranın canlı görüntü ekranı görünür.



KAMERA WEB GÖRÜNTÜLEYİCİSİ KURULUMU

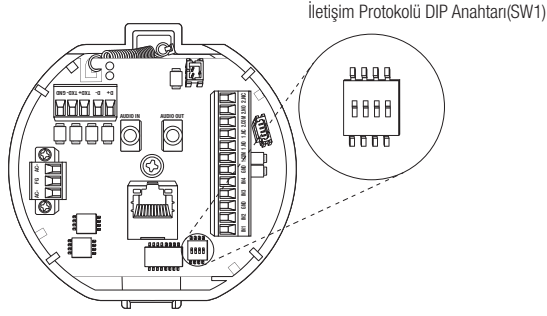
1. **[Kurulum (⚙)]** simgesine tıklayın.
2. Ayarlar penceresi görüntülenir.
3. Kameranın temel bilgi, PTZ, video ve ses, ağ, olay, analiz, sistem ve açık platform ayarları ağ üzerinden yönetilebilir.
4. Her işlevin detaylı tanımına bakmak için **<Yardım (?)>** düğmesine tıklayın.

DIP ANAHTARI AYARI

Protokollerin ve Kimlik DIP Anahtarlarının Ayarlanması

İletişim ve Kimlik DIP anahtarlarını kullanarak kamera sisteminin çeşitli ayarlarını kontrol edebilirsiniz. Ürünü monte etmeden önce, lütfen DIP anahtarlarını montaj ortamına göre ayarlayın.

1. Anahtarları montaj ortamınıza göre ayarlayın. Daha detaylı kurulum bilgileri için lütfen bir sonraki sayfada bulunan tabloya bakın.
2. Anahtarlar tamamen Açık/Kapalı değilse kamera arızalanabilir; kurulumu tamamlamadan önce lütfen anahtarları iki kez kontrol edin.
3. Anahtarın sert bir aletle çalıştırıldığında zarar görebileceğini dikkate alın.
4. Aşırı güç kullanarak çalıştırıldığında anahtarın zarar görebileceğini dikkate alın.



İletişim Protokolü DIP Anahtarı Ayarları (SW1)



SW1 Pim No.	Amaç
1	Ayrılmış
2	Sonlandırma ayarı 1
3	Sonlandırma ayarı 2
4	Ayrılmış

• Sonlandırma Ayarları

Kamera ve kumanda arasındaki iletişim sinyallerinin zayıflamasını önlemek için, hattın sonundaki öğeler sonlandırma ayarlarıyla yapılandırılmalıdır.

Kameranın Giriş Konumu	SW1- #2	SW1- #3
En Uzun Yolu Sonlandırılması	ON	ON
Yol Üzerinde	OFF	OFF



- Varsayılan değer her ayar tablosunda gölgeli olarak gösterilir.
- Bu ürünle birlikte bir üçüncü taraf üretimi kumanda kullanmak için, lütfen Satış Sonrası Servisimize veya Teknoloji Departmanımıza başvurun.

KAMERA KABLOLARI

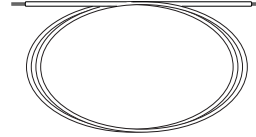
Kontrol Sinyali Bağlantısı

- RS-485 İletişimleri



İletişim Kablosu

Kameranın kumanda ile iletişim kurması için, RS-485 iletişim hattı gerekir.



- Bağlantı için 30m veya daha kısa bir uzunluk önerilir.
- İletişim kablosu kamerayla birlikte verilmez.

TEKNİK ÖZELLİKLER

	Parçalar	Açıklama
Video	Görüntüleme Cihazı	1/2" 2,17M CMOS
	Toplam Piksel Sayısı	1952(Y) x 1113(D), 2.17M
	Etkin Piksel	1937(Y) x 1097(D), 2.12M
	Tarama Sistemi	Gelişmiş
	Min. Aydınlatma	Renkli: 0,01 lüks (1/30 san, F1,5) S-B: 0 Lüks (IR LED açık)
	S / N Oranı	50dB
	Video Çıkışı	CVBS : 1,0 Vp-p / 75Ω kompozit, 720x480(N), 720x576(P), kurulum için
Mercek	Odak Uzunluğu (Zoom Oranı)	6 ~ 222 mm (Optik 37X)
	Maks. Diyafram Açıklığı Oranı	F1,5(Geniş) / F4,6(Tele)
	Açısal Görüş Alanı	Y : 59,3°(Geniş) ~ 1,9°(Tele) / D : 35,8°(Geniş) ~ 1,1°(Tele)
	Min. Nesne Mesafesi	Wide 1,5 m, Tele 2 m
	Odak Kontrolü	Oto / Manuel / Tek çekim AF
	Mercek Tipi	DC Otomatik İris
	Montaj Tipi	Yuvaya montaj
Pan / Eğim / Döndürme	Pan Aralığı	360° Sınırsız
	Pan Hızı	Ön Ayar : 400°/sec, Manuel : 0.024°/sec ~250°/sec
	Eğim Aralığı	190°(-5° ~185°)
	Eğim Hızı	Ön Ayar : 300°/sec, Manuel : 0.024°/sec ~250°/sec
	Sekans	Önayar (300 adet), Döndürme, Grup (6 adet), İzleme, Tur, Otomatik Çalıştırma, Program
	Ön Ayar Doğruluğu	±0.2°
	Yön Açısı	Evet (D/B/G/K/KD/KB/GD/GB OSD)
	Otomatik izleme	Kapalı / Açık

	Parçalar	Açıklama
Çalışma	Kamera Başlığı	Kapalı / Açık (En fazla 85 karakter görüntülenir) - W/W : İngilizce/Nümerik/Özel Karakterler - Genel: Çok satırlı (Maks 5), Renk (Gri/Yeşil/Kırmızı/Mavi/Siyah/Beyaz), Şeffaflık, Çözünürlüğe göre Otomatik Ölçek
	Gündüz ve Gec	Otomatik (ICR) / Renkli / BW / Program
	Arka Işık Telifisi	Kapalı / BLC / HLC / WDR
	Geniş Dinamik Aralık	150dB
	Kontrast iyileştirme	SSDR (Kapalı / Açık)
	Dijital Parazit Azaltma	SSNR5 (2D+3D Parazit Filtresi) (Kapalı / Açık)
	Dijital Görüntü Sabitleme	Kapalı/Açık (Yerleşik Jiro)
	Bulanıklık giderme (Optical)	OTO / MANUEL / Kapalı
	Hareket Algılama	Kapalı / Açık (Bea, Dikdörtgen)
	Mahremiyet Maskesi	Kapalı / Açık (Dikdörtgen bölgesinde 24 Bölge) - Renk: Gri/Yeşil/Kırmızı/Mavi/Siyah/Beyaz - Maske modu için zoom oranı seçeneği - Mozaik seçeneği
	Kazanç Kontrolü	Kapalı / Düşük / Orta / Yüksek
	Beyaz Ayarı	ATW / AWC / MANUEL / İÇ MEKAN / DIŞ MEKAN (CIVA VE SODYUM DAHİL)
	Elektronik Obtüratör Hızı	Minimum / Maksimum / Titreşim önleyici (2 ~ 1/12.000sn)
	Dijital Zoom	32x
	Görüntü Döndürme	Ters Çevir / Ayna : Açık/Kapalı
	Video ve Ses Analizi	Kurcalama, Gezinme, Yön Algılama, Sanal Hat, Giriş/Çıkış, Görün/Kaybol, Ses Algılama, Yüz Algılama, Hareket Algılama, Sis Algılama, Ses Sınıflandırması
	Seri Arayüz	RS-485 - Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell
	Alarm I/O	Giriş 4ea / Çıkış 2ea (Röle türü)
	Alarm Tetikleyiciler	Alarm Girişi, Hareket Algılama, Video ve Ses Analizi, Ağ Bağlantısı Kesilmesi

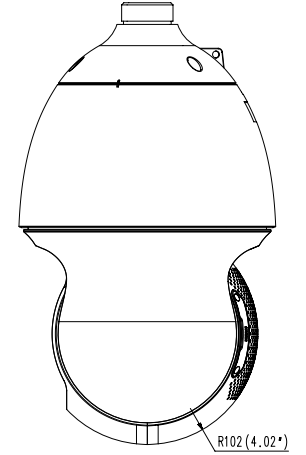
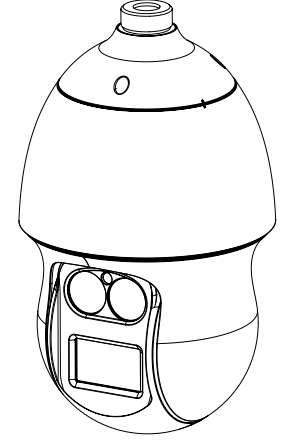
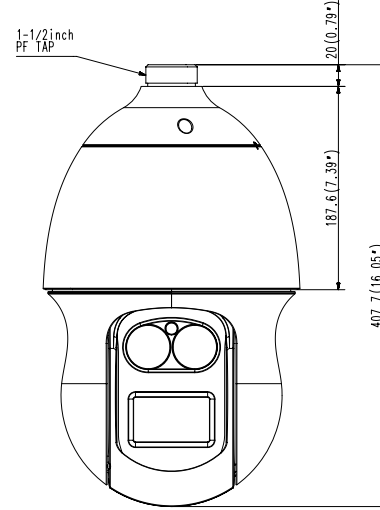
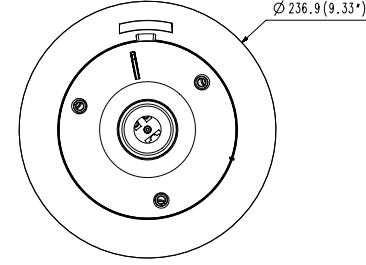
	Parçalar	Açıklama
Çalışma	Alarm olayları	<ul style="list-style-type: none"> FTP, E-posta yoluyla dosya yükleme E-posta, TCP ve HTTP aracılığıyla bildirim Yerel depolama (SD/SDHC/SDXC) veya NAS kaydı (Alarm Tetikleyicileri) Harici çıkış PTZ önayarı
	Ses Girişi	Seçilebilir (Mik Girişi / Hat Girişi), Besleme gerilimi: 2,5 V DC (4mA), Giriş empedansı : yaklaşık 2K Ohm
	Ses çıkışı	Hat çıkışı (3,5 mm mono jak), Maks. çıkış Seviyesi: 1Vrms
	Piksel sayacı	destek
Ağ	Ethernet	RJ-45 (10/100BASE-T)
	Video Sıkıştırma Biçimi	H.264 (MPEG-4 Bolum 10/AVC), H.265, Hareketli JPEG
	Çözünürlük	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
	Maks. Kare Hızı	H.265/H.264 : Maks. 60kare/sn tüm çözünürlüklerde Hareketli JPEG : Maks. 30kare/sn tüm çözünürlüklerde
	Akıllı Codec	Manuel Mod (alan bazlı: 5 ADET)
	Video Kalite Ayanı	H.264/H.265/MJPEG : Bit hızı seviye kontrolü
	Bit Hızı Kontrol Yöntemi	H.264/H.265 : CBR veya VBR, WiseStream ile Hareketli JPEG : VBR
	Akış Kapasitesi	Çoklu Akış (En fazla 10 Profil)
	Ses Sıkıştırma Biçimi	G.711 u-law /G.726 Seçilebilir G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kb/sn, 24Kb/sn, 32Kb/sn, 40Kb/sn AAC-LC : 16KHz'de 48Kbps
	Ses İletişimi	İki yönlü

	Parçalar	Açıklama
Ağ	IP	IPv4, IPv6
	Protokol	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
	Güvenlik	HTTPS(SSL) Oturum Açma Kimlik Doğrulama Özet Oturum Açma Kimlik Doğrulama IP Adresi Filtreleme Kullanıcı Erişimi Günlüğü 802.1x kimlik doğrulama yöntemi (EAP-TLS, EAP-LEAP)
	Akış Yöntemi	Unicast / Multicast
	Maks. Kullanıcı Erişimi	Unicast Modunda 20 kullanıcı
	Edge depolama	SD/SDHC/SDXC (128 GB'a kadar) - SD/SDHC/SDXC bellek kartı içine kaydedilen hareket görüntüleri indirilebilir. - kamera, bellek bağlandığında otomatik olarak algılayabilir - bellek durumu ekranı (Hazır/Hata/Kaydediliyor/Formatlanıyor/Kilit) NAS (Ağa Bağlı Depolama) Anlık Kaydetme için yerel bilgisayar (sadece görüntüleyici eklentisi)
	Uygulama Programlama Arayüzü	ONVIF Profile S/G SUNAPI 2.0(HTTP API) WiseNet Açık Platform
	Web Sayfası Dili	İngilizce, Fransızca, Almanca, İspanyolca, İtalyanca, Çince, Korece, Rusça, Japonca, İsveççe, Portekizce, Çekçe, Lehçe, Türkçe, Felemenkçe, Macarca, Yunanca
	Web Görüntüleyici	Desteklenen İşletim Sistemi : Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 Eklentisiz web görüntüleyicisi Desteklenen Tarayıcılar: Google Chrome, MS Edge, Mozilla Firefox (sadece Windows 64 bit), Apple Safari 10 (sadece Mac OS X) Web Görüntüleyicisi Eklentisi Desteklenen Tarayıcılar: MS Explorer 11, Apple Safari 10 (sadece Mac OS X)
	Merkezi Yönetim Yazılımı	SmartViewer

	Parçalar	Açıklama
Çevresel	Çalışma Sıcaklığı / Nem	-50°C ~ +55°C (-58°F ~ +131°F) / %90'in altında bağıl nem
	Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / %90'in altında bağıl nem
	Su geçirmezlik/sarsıntıya dayanıklılık	IP66
	Saldınlara Karşı Dayanıklılık	IK10
Elektrik	Giriş Voltajı / Akım	AC 24 V +/- %10
	Güç Tüketimi	90W(Isıtıcı Açık, IR AÇIK), 60W(Isıtıcı Kapalı, IR AÇIK)
Mekanik	Renk / Malzeme	Siyah (baş) + Fildişi (gövde) / Plastik + Metal
	Boyutlar (Ø x Y)	Ø236,9 x Y407,7 mm
	Ağırlık	7,1kg

ÜRÜN GENEL BİLGİLERİ

Birim : mm (inç)



● EK

SORUN GİDERME

SORUN	ÇÖZÜM
Mikrofonun ses seviyesi, Windows 10'daki web görüntüleyicisine Chrome veya Firefox aracılığıyla erişildiğinde düzenli aralıklarla değişiyor.	<ul style="list-style-type: none"> Bu, mikrofon sürücüsü Realtek olarak ayarlandığında meydana gelir. Tanım Odaklı Ses cihazı sürücüsünü (Windows varsayılan sürücüsü) veya üçüncü taraf ürünü bir sürücüyü yükleyerek bunu değiştirin.
Safari tarayıcıda eklentisiz web görüntüleyiciye HTTPS aracılığıyla erişildiğinde hiçbir video görüntülenmez.	<ul style="list-style-type: none"> HTTPS'e ilk olarak erişildiğinde, görüntülenen kimlik doğrulama açılır penceresinde, "Kimlik Doğrulama Sertifikasını Görüntüle" seçeneğine ve "Belirlenen webviewer IP adresine bağlanırken daima güven" seçim kutusuna tıklayın. Aşağıdaki mesaj penceresinde "İleri" seçeneğini seçtikten sonra web görüntüleyici halen video görüntülemeye devam ederse, Safari tarayıcıdan çıkmak için komut tuşu + Q tuşuna basın, sayfaya yeniden erişin ve yukarıda belirtilen işlemleri uygulayın.
Kameraya ağ tarayıcısından erişemiyorum.	<ul style="list-style-type: none"> Kameranın Ağ ayarlarının uygun olduğuna emin olmak için kontrol edin. Bütün ağ kablolarının düzgün olarak bağlandığına emin olmak için kontrol edin. Eğer DHCP ile bağlanılmışsa, kameranın problemsiz olarak dinamik IP adresi alabildiğini kontrol edin. Eğer kamera bir Geniş Bant yönlendiriciye bağlıysa, port yönlendirmenin doğru yapılandırıldığını kontrol edin.
İzleme sırasında İzleyici bağlantısı kopuyor.	<ul style="list-style-type: none"> Bağlı İzleyicilerin bağlantısı, kamerada ya da ağ yapılandırmasında yapılan değişikliklerle kopar. Bütün ağ bağlantılarını kontrol ediniz. Eğer kamera bir PPPoE ağa bağlıysa, İzleyicinin bağlantısının kopması kötü ağ koşullarından kaynaklanıyor olabilir.
Ağa bağlı kamera, Device Manager programında algılanmaz.	<ul style="list-style-type: none"> PC'nizdeki güvenlik duvarını kapatın ve kamerayı tekrar aratın.
Görüntüler üstüste biniyor.	<ul style="list-style-type: none"> İki ya da daha fazla kameranın farklı adresler yerine tek bir multicast adrese ayarlanıp ayarlanmadığını kontrol edin. Eğer birden çok kamera için tek bir adres kullanılmışsa, görüntüler üstüste binebilir.
Görüntü belirmiyor.	<ul style="list-style-type: none"> Eğer iletim yöntemi multicast olarak ayarlanmışsa, kameranın bağlandığı LAN üzerinde multicast destekleyen yönlendirici olup olmadığını kontrol edin.

SORUN	ÇÖZÜM
Ses Girişi ayarlanmış olsa bile, ses kaydı çalışmıyor.	<ul style="list-style-type: none"> <Temel>-<Video profili> seçeneğine gidin ve <Ses Girişi> kutusunu kontrol edin.
<Analiz> kısmında <Hareket Algılama> seçeneği <Etkin> olarak ayarlandıktan sonra, kamerada bir video analiz olayı gerçekleşse de, e-posta yoluyla hiçbir dosya gönderilmez.	<ul style="list-style-type: none"> Ayarları şu sırayla doğrulayın: <ol style="list-style-type: none"> <Tarih ve Saat> ayarlarını kontrol edin. <Hareket Algılama> ögesi <Etkin> seçeneğine ayarlanmalıdır. <Olay Ayarı> menüsünün <E-posta> seçeneğinin kullanımı için işaretlenip işaretlenmediğini kontrol edin.
Bir akıllı video analizi olayı üretildiğinde bile Alarm Çıkışı bağlantı noktasında sinyal bulunmaz.	<ul style="list-style-type: none"> Alarm çıkışı bağlantı noktası ayarlarını kontrol edin.
SD bellek kartına kayıt yapılamıyor.	<ul style="list-style-type: none"> Bellek kartının hasarlı olup olduğunu kontrol edin.
SD bellek kartı takılı ama kamera düzgün çalışmıyor.	<ul style="list-style-type: none"> Bellek kartının doğru yönde takılıp takılmadığını kontrol edin. Başka cihazlarda biçimlendirilen bir bellek kartı bu kamera biriminde çalışmayabilir <Ayarları> → <Olay> → <Depolama> menüsünde bellek kartını tekrar biçimlendirin.
NAS'a kaydedilemiyor.	<ul style="list-style-type: none"> NAS'a kaydedilen bilginin doğru olduğunu doğrulayın.
NAS ayarının başansız olduğu bildiriliyor.	<ul style="list-style-type: none"> NAS IP adresinin geçerli olduğunu doğrulayın. NAS kimlik/şifre bilgilerinin geçerli olduğunu doğrulayın. NAS kimliğini kullanarak temel klasör olarak atanan klasöre erişebildiğinizi doğrulayın. NAS SMB/CIFS öğelerinin işaretli olmadığını doğrulayın. NAS IP adresi ile kamera IP adresi biçiminin aynı olduğunu doğrulayın. Örn.) NAS ve kamera alt ağ maskesi varsayılan değeri 255.255.255.0'dır. IP adresi 192.168.20.32 olduğunda NAS IP adresinin 192.168.20.1~192.168.20.255 aralığında olması gerekir. Kaydedilen veya kullanılan temel klasörü biçimlendirmeden başka bir kullanıcı olarak erişim sağlamaya çalışarak kontrol edin. Önerilen NAS ekipmanını kullandığınızı doğrulayın.

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GPL SW

Component Name	License	URL
Base Kernel	GPL 2.0	
Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-4.2	GPL 2.0	
mtdd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdd-utils
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
zerocoinf	GPL 2.0	

LGPL SW

Component Name	License	URL
glibc	LGPL 2.0	
inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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

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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).



Hanwha Vision üretimin tüm aşamalarında çevreye özen gösterir ve müşterilerine daha çevre dostu ürünler sağlayabilmek için gerekli tedbirleri alır.
Eco işareti, Hanwha Vision in çevre dostu ürünler yaratma isteğini temsil eder ve ürünlerin AB RoHS Talimatlarını uygun olduğunu gösterir.



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