

WISeNeT

AĞ KAMERASI

Kullanım Kılavuzu

LND-6010R/LND-6020R/LND-6030R/LND-6070R
LNO-6010R/LNO-6020R/LNO-6030R/LNO-6070R
LNV-6010R/LNV-6020R/LNV-6030R/LNV-6070R



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 Techwin 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 Techwin 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 ağıza sahiptir. Topraklama tipi fiş iki ağıza ve üç topraklama dişine sahiptir. Geniş ağız veya üçüncü diş güvenliğinizi için sağlanmıştır.
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 sehpa, kamera ayağı, üç ayaklı sehpa, dirsek veya masa kullanın. Tekerlekli taşıma sehpa 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, güç kaynağı olarak "Class 2" veya "LPS" olarak işaretlenen ve her bir ürün için minimum PoE, 0.18A, Listelenen Güç Kaynağı Ünitelerini kullanacak şekilde 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.

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 I 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.

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

Pil, yanlış pil tipiyle değiştirilirse, patlama riski oluşur. Kullanılan pilleri talimatlara göre tasfiye edin.

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.

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

ITE yalnızca PoE ağlarına 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.

UYARI

IR LED'i tarafından oluşabilecek hasarı önlemek için, çalışma lambasına doğrudan bakmayın.

Sadece aşağıdaki modeller için.

LND-6010R/LND-6020R/LND-6030R/LND-6070R

LNO-6010R/LNO-6020R/LNO-6030R/LNO-6070R

LNV-6010R/LNV-6020R/LNV-6030R/LNV-6070R

Risk Grubu 1

**UYARI Bu üründen IR yayılımı yapılır.
Çalışma lambasına doğrudan bakmayın**

Ürün, IEC 62471 kurallarına karşı test edilmiştir.

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ÖNERİLEN PC ÖZELİKLERİ

- CPU : Intel(R) Core(TM) i7 3.4 GHz veya daha üstü
 - Desteklenen İşletim Sistemi : Windows, Mac OS X
 - **Eklentisiz web görüntüleyicisi**
Desteklenen web tarayıcılar : Google Chrome, MS Edge, Mozilla Firefox (sadece Window 64 bit), Apple Safari (sadece Mac OS X)
 - **Web Görüntüleyicisi Eklentisi**
Desteklenen web tarayıcılar : MS Explorer
 - VGA : PCIe 256MB GDDR3 video grafik kart veya daha üstü
- ※ İşletim sistemi ve tarayıcı ile ilgili daha ayrıntılı sürüm bilgileri için, lütfen eklere bakın.

TAVSİYE EDİLEN MICRO SD/SDHC BELLEK KARTI ÖZELLİK

- Önerilen kapasite : 16 GB ~ 32 GB (MLC Tip)
- Kameranız için aşağıdaki üreticilerden bir hafıza kartı kullanmanızı tavsiye ediyoruz :
Micro SD/SDHC Bellek Kartı : Sandisk, Transcend

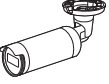
DAHİL OLANLAR (LND-6010R/6020R/6030R/6070R)

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

Görünüm	Öge Adı	Adet	Açıklama
	Kamera	1	
	Hızlı Kullanma Kılavuzu (İsteğe bağlı)	1	
	Garanti kartı (İsteğe bağlı)	1	
	Şablon	1	Ürün montaj rehberi
	Kılavuz Vida	2	Duvara ya da tavana montaj için kullanılır

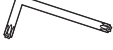
DAHİL OLANLAR (LNO-6010R/6020R/6030R/6070R)

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

Görünüm	Öge Adı	Adet	Açıklama	Model Adı
	Kamera	1		LNO-6010R/6020R/ 6030R/6070R
	Hızlı Kullanma Kılavuzu (İsteğe bağlı)	1		Tüm modeller için kullanın
	Garanti kartı (İsteğe bağlı)	1		
	Şablon	1	Ürün montaj rehberi	
	Kılavuz Vida	3	Duvara ya da tavana montaj için kullanılır	
	RJ45 su geçirmezlik aksesuarı	1	Nemli yerlerde kurulum yapmak için kullanılır	
	Kart tipi nem emici	1	Kurulduğunda takılıdır.	LNO-6070R

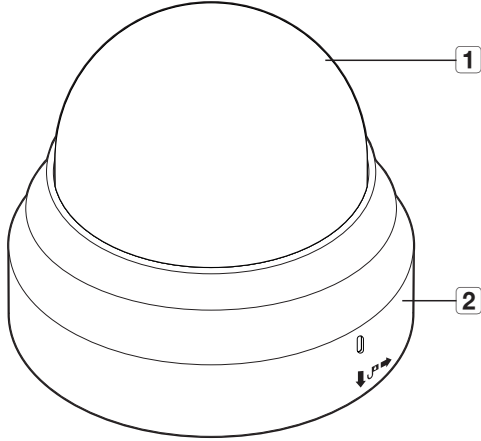
DAHİL OLANLAR (LNV-6010R/6020R/6030R/6070R)

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

Görünüm	Öge Adı	Adet	Açıklama	Model Adı
	Kamera	1		LNV-6010R/6020R/ 6030R/6070R
	Hızlı Kullanma Kılavuzu (İsteğe bağlı)	1		Tüm modeller için kullanın
	Garanti kartı (İsteğe bağlı)	1		
	Şablon	1	Ürün montaj rehberi	
	Yıldız anahtar	1	Dom kapaklarının sökülüp takılması için kullanılır	
	Kart tipi nem emici	1	Kurulduğunda takılıdır.	
	Kablo burcu	1	Ø7~8.5 çapında LAN kablosu bağlamak için kullanılır.	
	Kılavuz Vida	2	Duvara ya da tavana montaj için kullanılır	LNV-6010R/ 6020R/6030R
		3		LNV-6070R

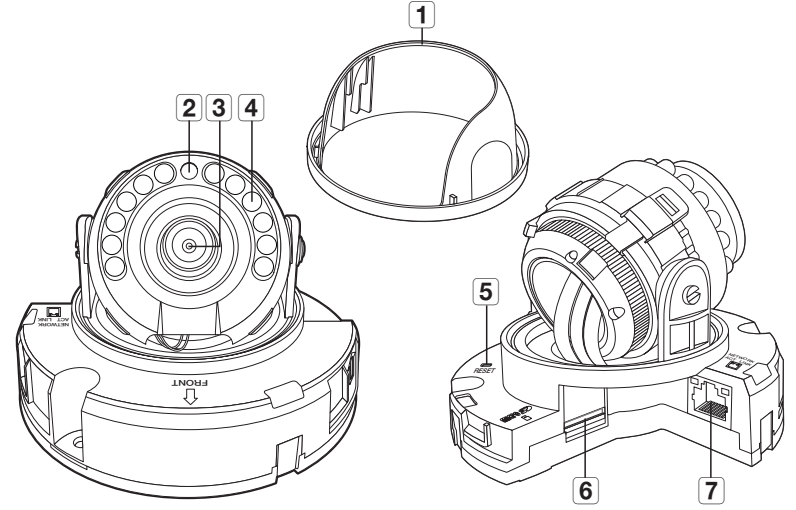
İLK BAKIŞ (LND-6010R/6020R/6030R)

Görünüm



Madde	Açıklama
1 Dome Kapağı	Mercek ve ana birimi korumakta kullanılan muhafaza kapağı.
2 Kamera Muhafazası	Kamera gövdesini kapatan yuva bölümü.

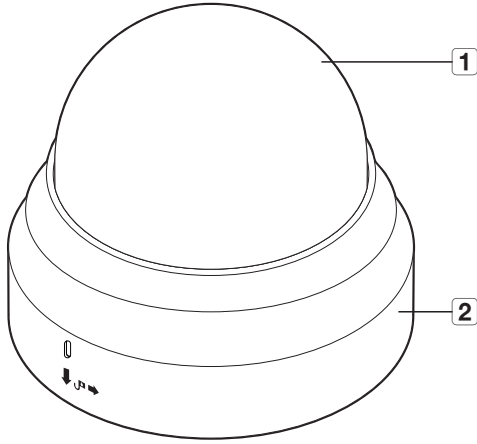
Ek Cihazlar



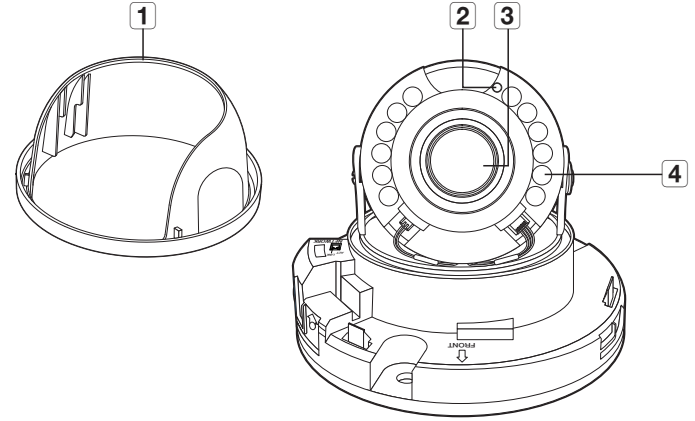
Madde	Açıklama
1 İç kapak	Ana gövde için koruyucu kapak.
2 Aydınlatma Sensörü	IR LED'i kontrol etmek için gelen ışığı algılar.
3 Mercek	Kamera Lensi.
4 IR LED'i	Bu kızılötesi LED'ler aydınlatma sensörü tarafından kontrol edilir.
5 Reset Düğmesi	Düğme, tüm kamera ayarlarını fabrika varsayılan ayarlarına geri döndürür. Sistemi yeniden başlatmak için yaklaşık 5 saniye basılı tutun. Kamerayı sıfırlarsanız, DHCP'nin etkinleştirilmesi için ağ ayarları yapılır. Ağda DHCP sunucusu yoksa, ağa bağlanabilmek için IP adresi, Alt ağ maskesi, Ağ geçidi gibi temel ağ ayarlarını değiştirmek için IP Installer programını çalıştırmanız gerekir.
6 Micro SD Bellek Kartı Bölmesi	Micro SD bellek kartı için bölme.
7 PoE konektörü	Ethernet kablosu üzerinden güç verin ve ağa bağlayın.

İLK BAKIŞ (LND-6070R)

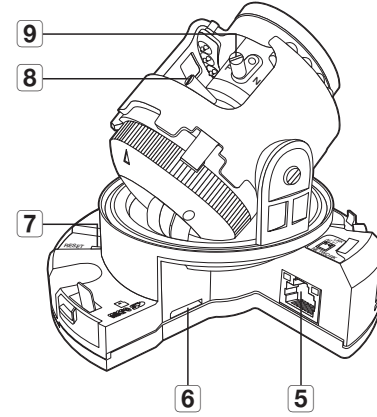
Görünüm



Ek Cihazlar



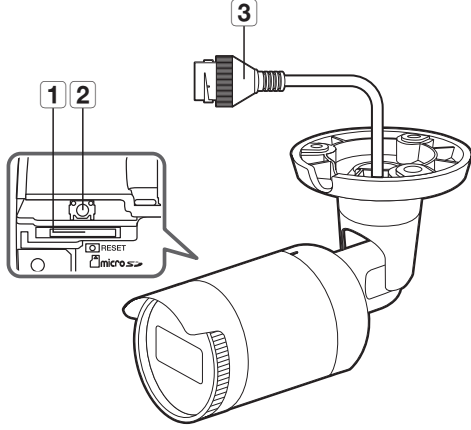
Madde	Açıklama
1 Dome Kapağı	Mercek ve ana birimi korumakta kullanılan muhafaza kapağı.
2 Kamera Muhafazası	Kamera gövdesini kapatan yuva bölümü.



Madde	Açıklama
1 İç kapak	Ana gövde için koruyucu kapak.
2 Aydınlatma Sensörü	IR LED'i kontrol etmek için gelen ışığı algılar.
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8 Zoom kumanda kolu	T Yakınlaştır (Tele)
	W Uzaklaştır (Geniş)
	Kolu serbest bırakın ve lensi yakınlaştırmak veya uzaklaştırmak için kolu sola veya sağa doğru hareket ettirin. Ayarlanan konumun hareket etmesini önlemek için, kolu saat istikametinde döndürün.
9 Odak kumanda kolu	N Yakındaki bir nesneye odaklanma (Yakın)
	F Uzak bir nesneye odaklanma (Uzak)
	Kolu serbest bırakın ve lensin odağını ayarlamak için kolu sola veya sağa doğru hareket ettirin. Ayarlanan konumun hareket etmesini önlemek için, kolu saat istikametinde döndürün.

İLK BAKIŞ (LNO-6010R/6020R/6030R)

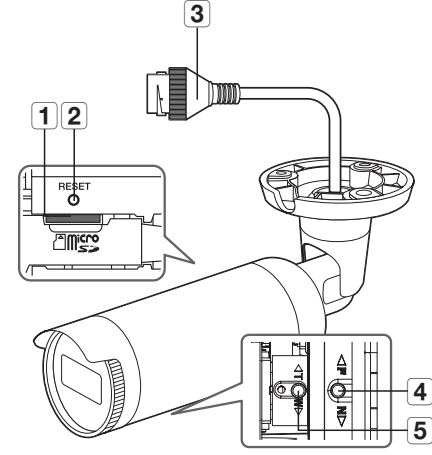
Görünüm



Madde	Açıklama
1 Micro SD kart yuvası	(Ürünün içindeki boşluk) Bu, bir Micro SD kart takabileceğiniz bir yuvadır.
2 Reset Düğmesi	Düğme, tüm kamera ayarlarını fabrika varsayılan ayarlarına geri döndürür. Sistemi yeniden başlatmak için yaklaşık 5 saniye basılı tutun. Kamerayı sıfırlarsanız, DHCP'nin etkinleştirilmesi için ağ ayarları yapılır. Ağda DHCP sunucusu yoksa, ağa bağlanabilmek için IP adresi, Alt ağ maskesi, Ağ geçidi gibi temel ağ ayarlarını değiştirmek için IP Installer programını çalıştırmanız gerekir.
3 PoE konektörü	Ethernet kablosu üzerinden güç verin ve ağa bağlayın.

İLK BAKIŞ (LNO-6070R)

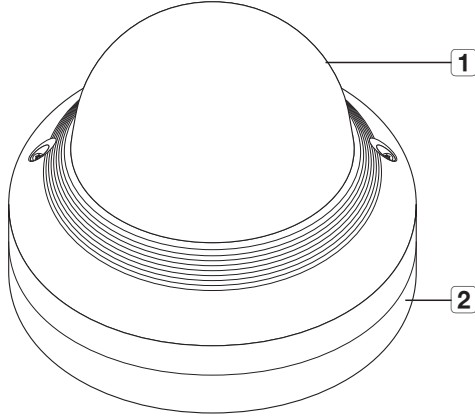
Görünüm



Madde	Açıklama
1 Micro SD kart yuvası	(Ürünün içindeki boşluk) Bu, bir Micro SD kart takabileceğiniz bir yuvadır.
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3 PoE konektörü	Ethernet kablosu üzerinden güç verin ve ağa bağlayın.
4 Odak kumanda kolu	N Yakındaki bir nesneye odaklanma (Yakın) F Uzak bir nesneye odaklanma (Uzak) Kolu serbest bırakın ve lensin odağını ayarlamak için kolu sola veya sağa doğru hareket ettirin. Ayarlanan konumun hareket etmesini önlemek için, kolu saat istikametinde döndürün.
5 Zoom kumanda kolu	T Yakınlaştır (Tele) W Uzaklaştır (Geniş) Kolu serbest bırakın ve lensi yakınlaştırmak veya uzaklaştırmak için kolu sola veya sağa doğru hareket ettirin. Ayarlanan konumun hareket etmesini önlemek için, kolu saat istikametinde döndürün.

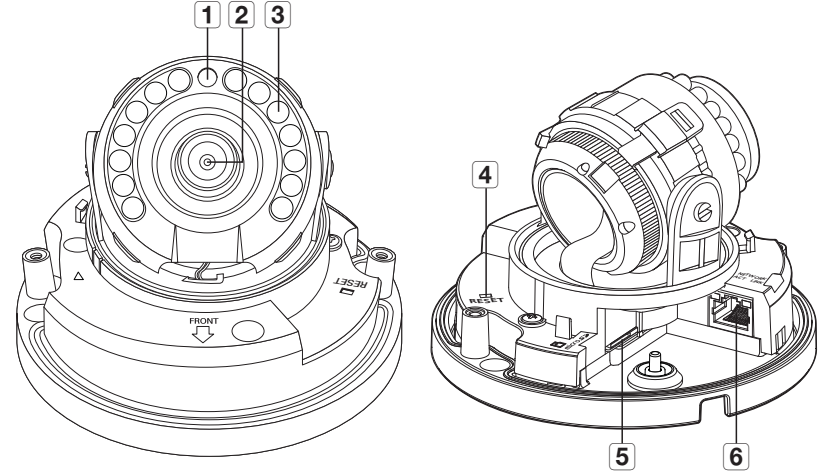
İLK BAKIŞ (LNV-6010R/6020R/6030R)

Görünüm



Madde	Açıklama
1 Dome Kapağı	Mercek ve ana birimi korumakta kullanılan muhafaza kapağı.
2 Kamera Muhafazası	Kamera gövdesini kapatan yuva bölümü.

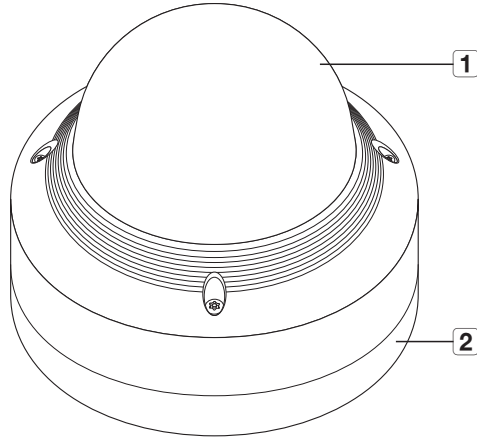
Ek Cihazlar



Madde	Açıklama
1 Aydınlatma Sensörü	IR LED'i kontrol etmek için gelen ışığı algılar.
2 Mercek	Kamera Lensi.
3 IR LED'i	Bu kızılötesi LED'ler aydınlatma sensörü tarafından kontrol edilir.
4 Reset Düğmesi	Düğme, tüm kamera ayarlarını fabrika varsayılan ayarlarına geri döndürür. Sistemi yeniden başlatmak için yaklaşık 5 saniye basılı tutun. Kamerayı sıfırlarsanız, DHCP'nin etkinleştirilmesi için ağ ayarları yapılır. Ağda DHCP sunucusu yoksa, ağa bağlanabilmek için IP adresi, Alt ağ maskesi, Ağ geçidi gibi temel ağ ayarlarını değiştirmek için IP Installer programını çalıştırmanız gerekir.
5 Micro SD Bellek Kartı Bölmesi	Micro SD bellek kartı için bölme.
6 PoE konektörü	Ethernet kablosu üzerinden güç verin ve ağa bağlayın.

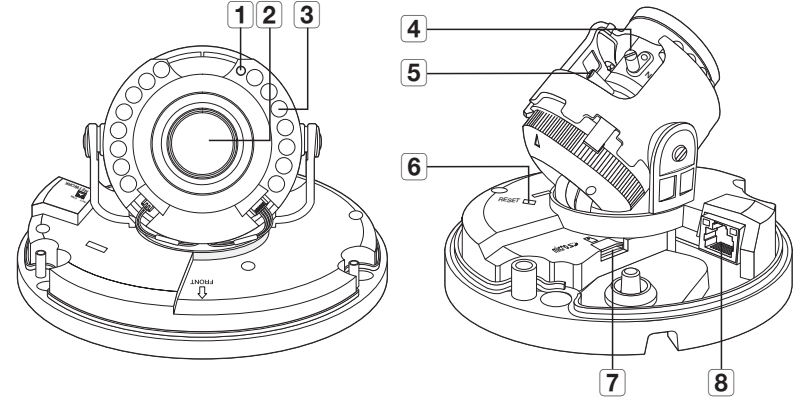
İLK BAKIŞ (LNV-6070R)

Görünüm



Madde	Açıklama
1 Dome Kapağı	Mercek ve ana birimi korumakta kullanılan muhafaza kapağı.
2 Kamera Muhafazası	Kamera gövdesini kapatan yuva bölümü.

Ek Cihazlar



Madde	Açıklama	
1 Aydınlatma Sensörü	IR LED'i kontrol etmek için gelen ışığı algılar.	
2 Mercek	Kamera Lensi.	
3 IR LED'i	Bu kızılötesi LED'ler aydınlatma sensörü tarafından kontrol edilir.	
4 Odak kumanda kolu	N	Yakındaki bir nesneye odaklanma (Yakın)
	F	Uzak bir nesneye odaklanma (Uzak)
5 Zoom kumanda kolu	Kolu serbest bırakın ve lensin odağını ayarlamak için kolu sola veya sağa doğru hareket ettirin. Ayarlanan konumun hareket etmesini önlemek için, kolu saat istikametinde döndürün.	
	T	Yakınlaştır (Tele)
	W	Uzaklaştır (Geniş)
6 Reset Düğmesi	Düğme, tüm kamera ayarlarını fabrika varsayılan ayarlarına geri döndürür. Sistemi yeniden başlatmak için yaklaşık 5 saniye basılı tutun.	
	Kamerayı sıfırlarsanız, DHCP'nin etkinleştirilmesi için ağ ayarları yapılır. Ağda DHCP sunucusu yoksa, ağa bağlanabilmek için IP adresi, Alt ağ maskesi, Ağ geçidi gibi temel ağ ayarlarını değiştirmek için IP Installer programını çalıştırmanız gerekir.	
7 Micro SD Bellek Kartı Bölmesi	Micro SD bellek kartı için bölme.	
8 PoE konektörü	Ethernet kablosu üzerinden güç verin ve ağa bağlayın.	

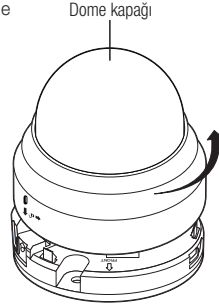
KURULUM (LND-6010R/6020R/6030R/6070R)**Kurulumdan Önce Alınması Gereken Önlemler**

Kamerayı kurmadan önce aşağıdaki talimatları mutlaka okuyun:

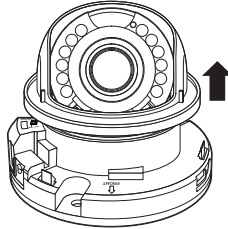
- Montaj braketi de dahil olmak üzere kameranın ağırlığının 5 katı ağırlığa dayanabilecek bir alana (tavan veya duvar) monte edilmelidir.
- Sıkıştırılmış veya soyulmuş kablolar hasara neden olabilir veya yangın çıkarabilir.
- Güvenlik açısından, kurulum alanında kimsenin bulunmamasını sağlayın. Her ihtimale karşı özel eşyalarınızı kurulum alanından uzak tutun.
- Odak ayarı elle yapılan bir objektifin kullanıldığı kameralarda odak ve yakınlaştırma gibi ayarlar kurulumdan önce yapılmalıdır. Bunları ayarlarken, objektife yabancı madde yapışmaması için dikkatli olun.

Sökme

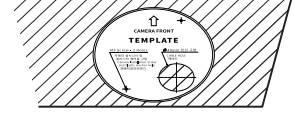
1. Kameranın alt kısmını tutmak için bir elinizi kullanın ve sökmek için diğer elinizle kapağı saat yönünün tersine çevirin.



2. Çıkarmak için iç kapağı kaldırın.

**Kurulum**

1. Kurulum şablonunu istenilen yere takın ve aşağıdaki şablona göre delikleri delin.

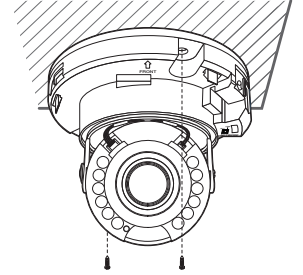


2. Şablon üzerinden delinen deliklere kamerayı sabitlemek için, ürünle verilen klavuz civataları kullanın.

- Kamerayla izleme yönünü öne getirmek için kamerada yazılı < ↑ > işaretini ayarlayın.

3. Kamera dahili terminalini ilgili kabloya bağlayın.

4. Merceği "**Kameranın izleme yönünün ayarlanması**" bölümüne bakarak istediğiniz yönde ayarlayın. (sayfa 19)

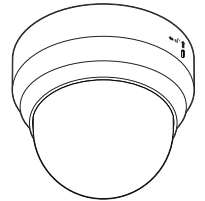
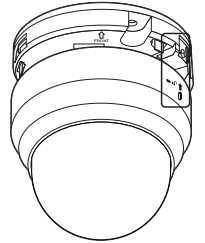


- ! ■ Lensler, fabrikada denetimleri tamamlandıktan sonra doğru bir şekilde ayarlanarak gönderildiği için, lenslere ayrı olarak dokunmamanız önerilir. Lenslere dokunulması, odağın bozulmasına veya lensin kirlenmesine neden olabilir. (LND-6010R/6020R/6030R)
- Odak ayarı elle yapılan bir objektifin kullanıldığı kameralarda odak ve yakınlaştırma gibi ayarlar kurulumdan önce yapılmalıdır. Bunları ayarlarken, objektife yabancı madde yapışmaması için dikkatli olun. (LND-6070R)

5. Lütfen iç kapağı ana gövdeye bağlayın.

6. Elinizle kameranın alt kısmını tutarken, lütfen iki ok işaretini hizalamak için şekilde gösterildiği gibi diğer elinizle kapağı tutup itin.

- ! ■ Dome kapağını takmak için okların birbiriyle eşleşmesini sağlayın ve kapağı sıkıca bastırın. Montaj esnasında dom kapağı döndürülürse veya yanlış takılırsa dağınık yansıma oluşabilir veya çekim aralığının değişmesine neden olacak şekilde lens bölümü dönebilir.
- Dom kapağının, aşağıdaki şekilde gösterildiği gibi alt parçaya doğru bir şekilde bağlandığından emin olun. Kilitler doğru şekilde takılmazsa, dom kapağı düşebilir ve yaralanmaya neden olabilir.



KURULUM (LNO-6010R/6020R/6030R/6070R)



- Bu fotoğraf makinesi, su geçirmezdir ve IP66 şartnamesine uygundur, ancak harici kabloya bağlanan jak uygun değildir. Kablounun tamamen açıkta kalmasını önlemek için bu ürünü saçak kenarlarının altına yüklemeniz önerilir.

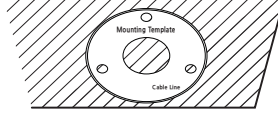
Kurulumdan Önce Alınması Gereken Önlemler

Kamerayı kurmadan önce aşağıdaki talimatları mutlaka okuyun:

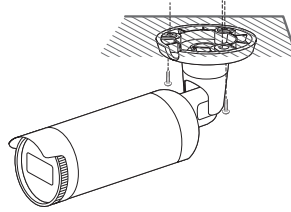
- Montaj braketi de dahil olmak üzere kameranın ağırlığının 5 katı ağırlığa dayanabilecek bir alana (tavan veya duvar) monte edilmelidir.
- Sıkıştırılmış veya soyulmuş kablolar hasara neden olabilir veya yangın çıkarabilir.
- Güvenlik açısından, kurulum alanında kimsenin bulunmamasını sağlayın. Her ihtimale karşı özel eşyalarınızı kurulum alanından uzak tutun.
- Odak ayarı elle yapılan bir objektifin kullanıldığı kameralarda odak ve yakınlaştırma gibi ayarlar kurulumdan önce yapılmalıdır. Bunları ayarlarken, objekte yabancı madde yapışmaması için dikkatli olun.

Kurulum

1. Kurulum şablonunu istenilen yere takın ve aşağıdaki şablona göre delikleri delin.



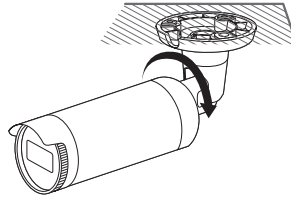
2. Şablon üzerinden delinen deliklere kamerayı sabitlemek için, ürüne verilen kılavuz civataları kullanın.
3. İlgili kablolar kamera terminallerine bağlayın.



4. Philips tornavida kullanarak kameranın yönünü ayarlayın.

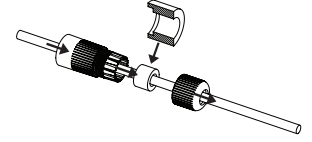


- Kamera konumunu bir destek kullanarak ayarlarken, destek vidasını gevşetin, kamerayı ayarlayın ve vidayı sıkın. Vida sıkılmış durumdayken güç uygulayarak ayarlamaya kalkışmanız durumunda, çizilme veya başka sorunlar oluşabilir.

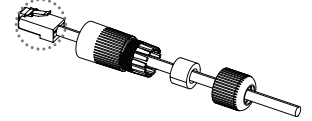


RJ45 su geçirmez kabloyu LAN kablosuna bağlama

1. Ok yönünde yerleştirin.



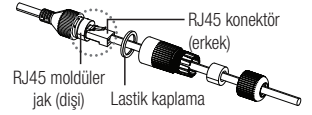
2. LAN konektörünü (erkek) kabloya bağlayın.



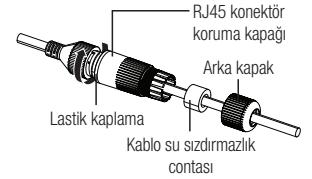
3. RJ45 modüler jakı (dişi) RJ45 konektöre (erkek) bağlayın.



- Lütfen parçaları birbirinden ayrı tutun.



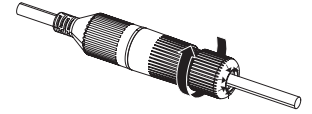
4. RJ45 modüler jakı (dişi) ve RJ45 koruma kapağını saat yönünde döndürerek monte edin (Oku izleyin).



5. RJ45 koruma kapağını ve arka kapağı saat yönünde döndürerek monte edin (Oku izleyin). Arka kapak monte edildiğinde, kablo su sızdırmazlık contası su sızdırmazlık özelliği sağlamak üzere kabloya sıkıca takılır.



- Arka kapağı RJ45 konektörün vida dişlerinin sonuna kadar döndürmek için tamamen monte etmeniz gerekir.



Dış mekan montajı

Cihazı binanın dışına monte ettiğinizde, lütfen butil plastik bantla (mağazalardan alınabilir) su yalıtımı sağlayın, böylece dışarıya bağlanan kablo açıklığından sıvı sızıntısı olmaz.

1. PoE kablосunu bağlayın.

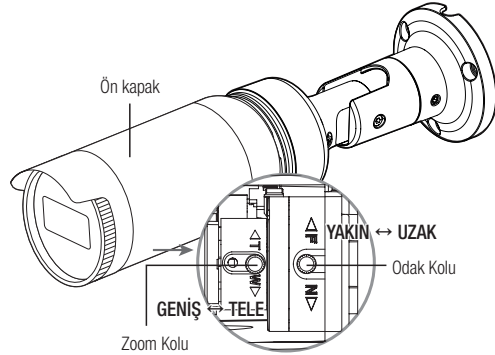
2. Siyah kablo kaplamasını (Alan A) ve kablo bağlantı alanını butil plastik bantın yarısından fazlası üst üste gelecek şekilde su geçirmez (butil plastik) bantla sarın.



- ! Kablo kaplamasının su geçirmezliği düzgün sağlanmadığında bu durum doğrudan sızıntıya neden olabilir. Kabloyu yoğun bir bant katmanıyla koruduğunuzdan emin olun.
- Su geçirmez butil bant, normal uzunluğunun iki katına kadar esnetilebilen butil plastikten yapılmıştır.

Zum Faktörünü Veya Odağı Ayarlamak İçin (LNO-6070R)

- Ön kapağı şekildeki gibi gevşetin.
- Zom/odak kolunu hafifçe gevşetin.
- Zum/odak kolunu GENİŞ (YAKIN) veya TELE (UZAK) konumlarından uygun olanına getirin.
- Ardından zum/odak kolunu sıkıştırarak ayarlanmış konumu sabitleyin.
- Ön kapağı çevirerek sıkın.

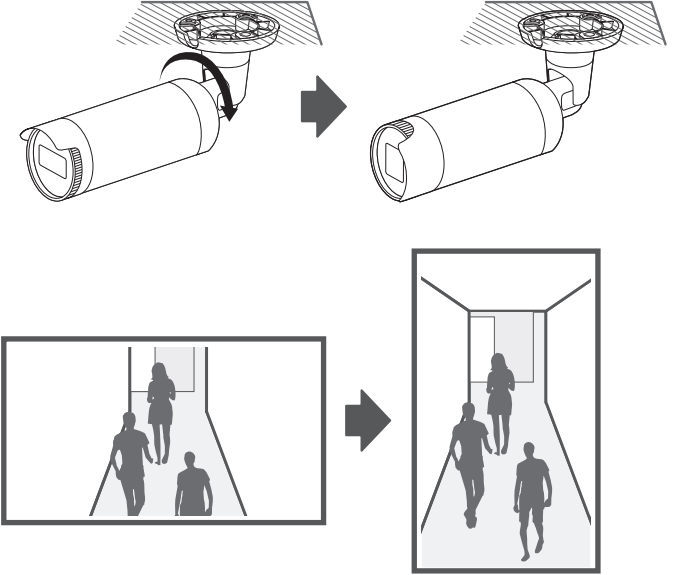


- ! Dikişsiz sızdırmazlık sağlamak için ön kapağı sonuna kadar çevirerek sıkın. Ön kapağı birleştirirken lütfen ana gövde ve ön kapağı LOCK göstergesi kilitlenecek şekilde birleştirin.
- Kolun yardımıyla zum faktörü veya odağı ayarlayın ve kolu saat yönünde çevirerek sabitleyin.
- Lensin zum faktörünü/odağını ayarlamadan önce ön kapağı gevşetip çıkarın.

Koridor görünümü

Kamera, izlenen alanın dikey olarak büyütülebilmesi için, 9:16 oranında bir en boy oranı elde edecek şekilde döndürülebilir ve bu durum kamerayı dar koridorlar ve geçiş alanları için uygun hale getirir.

- ! Hem kamera gövdesini hem de ön kapağı döndürün.



KURULUM (LNV-6010R/6020R/6030R/6070R)



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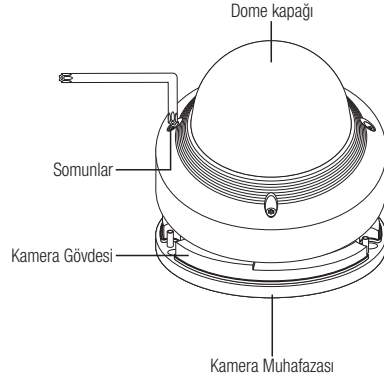
Kurulumdan Önce Alınması Gereken Önlemler

Kamerayı kurmadan önce aşağıdaki talimatları mutlaka okuyun:

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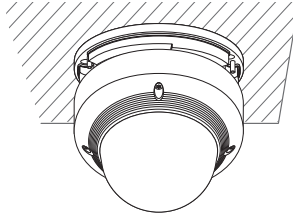
Sökme

1. Sabitleme cıvatalarını saat yönünün tersinde, yıldız şeklinde bir anahtar kullanarak gevşetin ve dome kapağını gevşetin .



Kurulum

1. Kurulum şablonunu istenilen yere takın ve aşağıdaki şablona göre delikleri delin.
2. Şablon üzerinden delinen deliklere kamerayı sabitlemek için, ürüne verilen kılavuz cıvataları kullanın.
3. Gerekli kabloları bağlayın ve kamera montajı sırasında zarar görmemeleri veya sıkışmaması için gerekli şekilde düzenleyin.
4. Merceği "**Kameranın izleme yönünün ayarlanması**" bölümüne bakarak istediğiniz yönde ayarlayın. (sayfa 19)
5. Dome kapağını kapatın.
 - Su sızdırmayı önlemek için, yıldız anahtar kullanarak tespit cıvatalarını sıkıştırın.

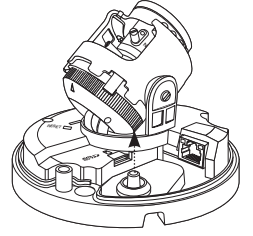


LAN kablusunun bağlanması

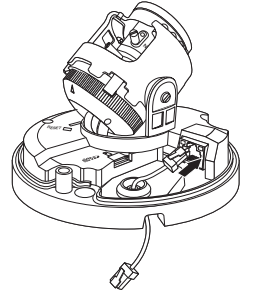
1. Dome kapağını ve muhafazayı sökün.
2. Tabandaki sünger tapanın uzun çıkıntılı kısmını çekin ve şekilde gösterildiği gibi çıkarın.



- Bağlanacak LAN kablosu için uygun bir kablo burcu kullanın.
 - Temel kamera: Ø5~6.5 çapında kablo kullanın.
 - Verilen bileşenler: Ø7~8.5 çapında kablo kullanın.



3. LAN kablusunu, ikinci adımda çıkıntılı parça çıkartıldığından oluşturulan delikten içeri sokun.
4. Kablo kesicisiyle kılıfı sökün ve kabloları hizalayın.
5. LAN kablusunu bir LAN konektörüne bağlayın ve LAN aracına takın.
6. Tamamlanan kabloyu Ethernet girişine bağlayın.



Bağımsız adaptöre bağlama

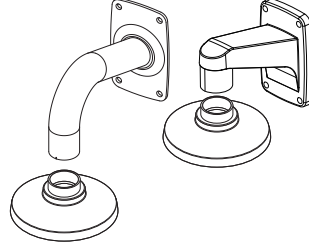
Aşağıdaki seçeneklerden (bağımsız) montaj alanına veya rahatınıza uygun, gerekli bir tanesini seçip satın alın.

1. Dome kapağını "**Sökme**" bölümünde belirtildiği şekilde muhafazadan çıkarın. (sayfa 17)
2. Cihazla beraber verilen makine vidasını, kamera gövdesinin bağımsız adaptöre bağlanmasında kullanın.
3. Gerekli kabloları bağlayın ve kamera montajı sırasında zarar görmemeleri veya sıkışmaması için gerekli şekilde düzenleyin.
4. Kamera gövdesini "**Sökme**" sondan başa izleyerek monte edin.
5. Merceği "**Kameranın izleme yönünün ayarlanması**" bölümüne bakarak istediğiniz yönde ayarlayın. (sayfa 19)
6. Dome kapağını kapatın.
 - Su sızdırmayı önlemek için, sabitleme cıvatalarını bir L anahtar ile iyice sıkın.

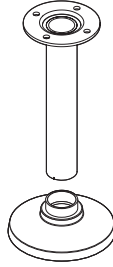
Kurulum için İsteğe Bağlı Aksesuarlar

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

1. DUVARA MONTAJ ADAPTÖRÜ (SBP-300WMW1)/ ASMA TİPİ MONTAJ PARÇASI (SBP-122HWM : LND-6070R, LNV-6010R/6020R/6030R, SBP-301HWM2 : LNV-6070R, SBP-300HWM7 : LND-6010R/6020R/6030R)
Bu adaptör dome kamerayı bir duvara kurarken kullanılır.

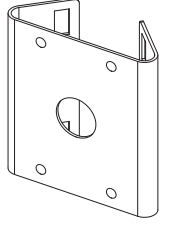


2. TAVANA MONTAJ ADAPTÖRÜ (SBP-300CM) / ASMA TİPİ MONTAJ PARÇASI (SBP-122HWM : LND-6070R, LNV-6010R/6020R/6030R, SBP-301HWM2 : LNV-6070R, SBP-300HWM7 : LND-6010R/6020R/6030R)
Bu adaptör dome kamerayı bir beton tavana kurarken kullanılır.



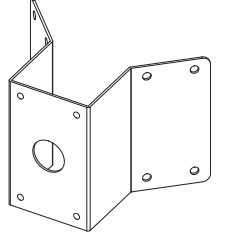
3. DİREĞE MONTAJ ADAPTÖRÜ (SBP-300PM)

Bu aksesuar, çapı 80 mm.den büyük olan bir direğe DUVARA MONTAJ ADAPTÖRÜ (SBP-300WM veya SBP-300WM1) ile kurulum için kullanılan bir adaptördür.

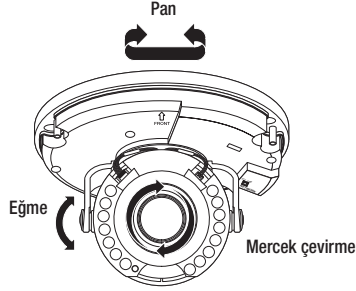


4. KÖŞEYE MONTAJ ADAPTÖRÜ (SBP-300KM)

Bu aksesuar, duvar derzinin köşesine DUVARA MONTAJ ADAPTÖRÜ (SBP-300WM veya SBP-300WM1) ile kurulum için kullanılan bir adaptördür.



Kameranın izleme yönünün ayarlanması (LND-6010R/6020R/6030R/6070R, LNV-6010R/6020R/6030R/6070R)



■ İzleme yönünün ayarlanması

Kamera yönünü sadece kamera tavanda sabitken ayarlayabilirsiniz.

Burada kameranın sağ veya sola çevrilmesine Pan, eğimin ayarlanmasına Eğim ve merceğin eksenine Döndürme adı verilir.

- Etkili pan aralığı toplam 350 derecedir.
- Etkili döndürme aralığı toplam 355 derecedir.
- Etkili eğim aralığı toplam 67 derecedir.



- Açığı bağılı olarak görüntü kamera kasası tarafından kapatılabilir.
- Odak/zoom lensini dome kasası söküldükten sonra zorlayarak çevirmeyin. Aksi halde motor arızası nedeniyle hatalı odağa yol açabilir.

■ Ayarlama yöntemleri

1. Kameranın kurulmasından sonra pan açısını izleme yönünü dikkate alarak ayarlayın.
2. Görüntü ters olmayacak şekilde yatak açısı ayarlayın.
3. Eğim açısını, kamera izlenen nesneye dönecek şekilde ayarlayın.

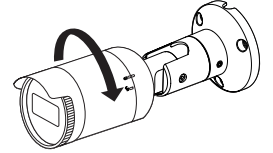
MİCRO SD BELLEK KARTININ TAKILMASI/ÇIKARILMASI



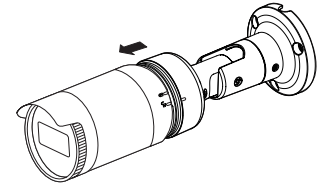
- Micro SD bellek kartını takmadan önce güç kablosunu kameradan çıkartın.
- Micro SD bellek kartını ters tutarak ve zorlayarak takmayın. Aksi takdirde Micro SD bellek kartı zarar görebilir.
- Micro SD kartın yağmur yağarken ya da nem yüksek olduğunda takılması veya çıkarılması önerilmez.
- Ürün kapağını sökme işleminin 5 dakika içinde tamamlanması gerekir; aksi takdirde çiy yoğunlaşma riski bulunmaktadır.

Micro SD Bellek Kartının Takılması (LNO-6010R/6020R/6030R/6070R)

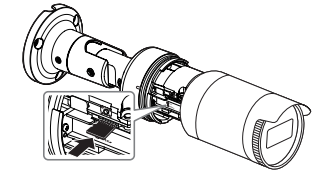
1. Ön kapağı KİLİT AÇ [🔓] yönünde döndürün.



2. Ön kapağı çekerek ayırın.

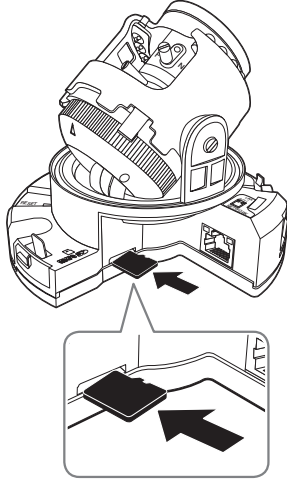


3. Micro SD kartı, şekilde gösterildiği gibi ok yönünde takın.

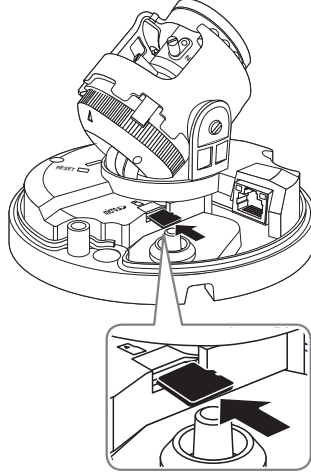


Micro SD Bellek Kartının Takılması (LND-6010R/6020R/6030R/6070R, LNV-6010R/6020R/6030R/6070R)

1. Kameranın Dome kapağını ayırın.
2. Micro SD kartı, şekilde gösterildiği gibi ok yönünde takın.



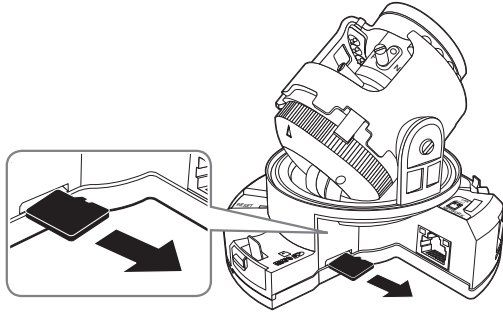
<LND-6010R/6020R/6030R/6070R>



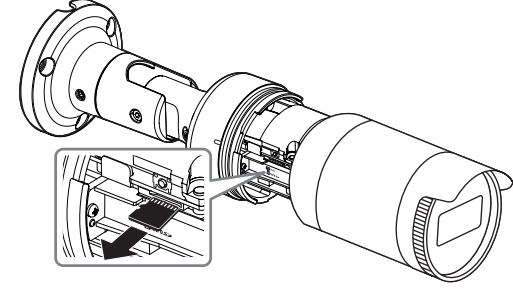
<LNV-6010R/6020R/6030R/6070R>

Micro SD Bellek Kartının Çıkarılması

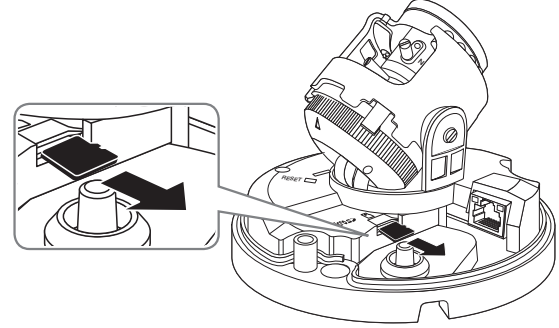
Hafıza kartını yuvasından çıkartmak için şemada gösterildiği gibi hafıza kartının açık tarafından yavaşça basın.



<LND-6010R/6020R/6030R/6070R>



<LNO-6010R/6020R/6030R/6070R>



<LNV-6010R/6020R/6030R/6070R>



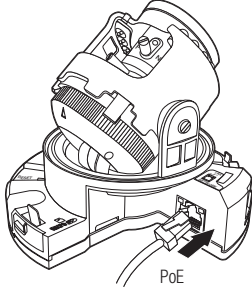
- Micro SD bellek kartı çıkık haldeyken sertçe itip bırakırsanız dışarı fırlayabileceğini lütfen unutmayın.
- Micro SD bellek kartını çıkartmadan önce, <Depolama> alanında, cihazı <Kapalı> duruma getirin ve [Uygula] düğmesine basarak kamerayı kapatın.
- Fotoğraf makinesini kapatırsanız veya üründen veriler içeren Micro SD bellek kartını çıkarırsanız, veriler kaybolabilir veya hasar görebilir.

GÜÇ VERME VE AĞ İLETİŞİMİ

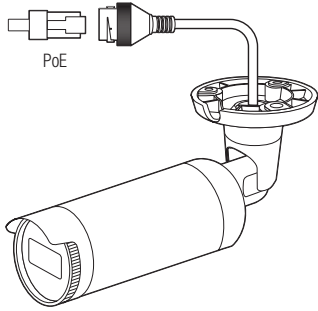
PoE cihazınızı kameraya bağlayın.



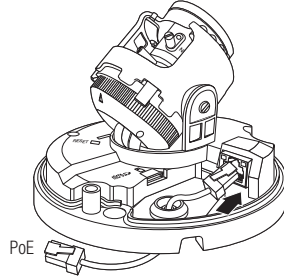
- PoE (Power over Ethernet) etkinleştirilmiş bir yönlendiricinin PoE konektörüne bağlayın.
- IEEE802.3af standardını kullanan PoE (PoE) ekipman kullanın.



<LND-6010R/6020R/6030R/6070R>



<LND-6010R/6020R/6030R/6070R>



<LNV-6010R/6020R/6030R/6070R>

Ağ Kablosu Özellikleri

Öge	İçindekiler	İşaret
Konektör	RJ45	
Ethernet	10/100BASE-T	10/100 Mbps
Kablo	UTP Kategori 5e	
Maks Mesafe	100M	DC Direnci $\leq 0,188 \Omega/m$
PoE Desteği	IEEE 802.3af	

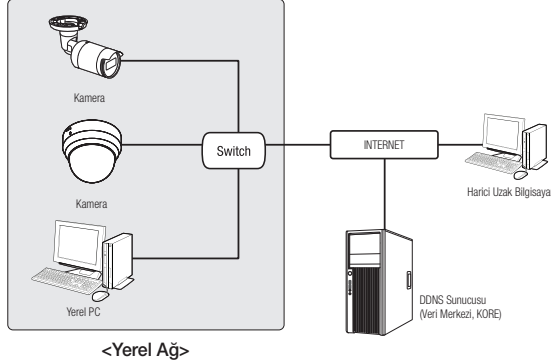
ağ bağlantısı ve kurulumu

Ağ ayarlarınızı ağ yapılandırmanıza göre ayarlayabilirsiniz.

KAMERAYI DOĞRUDAN YEREL ALAN AĞINA BAĞLAMAK

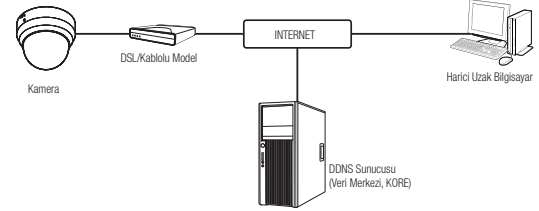
Kameraya Lan Üzerinde Yerel Bir Pc'den Bağlanmak

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 Kameraya Bağlanamayabilir. Bu Durumda, Sorunu Çözmek İçin, Ağ Yöneticisi İle Temas Kurun.
- IP installer'da IP Adresini, Alt Ağ Maskesini, Ağ Geçidini, HTTP Portunu, VNP Portunu ve IP türünü ayarlamak için başlangıç şifresi olan "4321" i kullanabilirsiniz. Ağ arabirimini değiştirdikten sonra, güvenliğin daha iyi olmasını sağlamak için web viewer'a erişip şifreyi değiştirin.
- IP adresi fabrika ayarlarına göre otomatik olarak DHCP sunucusundan atanır. Kullanılabilen DHCP sunucusu yoksa, IP adresi 192.168.1.100 olarak ayarlanır. İp Adresini Değiştirmek İçin İp Installer'ı Kullanın. İp Installer'ın Kullanılması Hakkında Daha Fazla Bilgi İçin "Statik İp Ayarı" Bölümüne Bakın. (Sayfa 24)

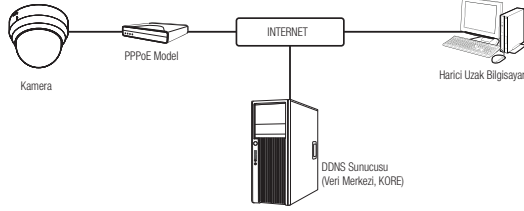
KAMERANIN DOĞRUDAN BİR DHCP TABANLI DSL/KABLOLU MODEME BAĞLANMASI



1. Kullanıcı bilgisayarı doğrudan ağ kamerasıyla bağlayın.
2. IP Installer uygulamasını çalıştırın ve kameranın IP adresini masaüstünüzdeki web tarayıcısını kullanarak İnternet'e bağlanabilecek şekilde 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] ögesine gidin ve IP 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.
- IP biçimi ayarlama hakkında bilgi için, Web Viewer'ın çevrimiçi yardım bölümüne bakın.

KAMERANIN DOĞRUDAN PPPoE MODEME BAĞLANMASI

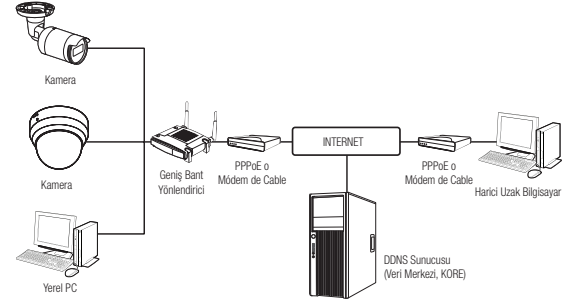


1. Kullanıcı bilgisayarını doğrudan ağ kamerasıyla bağlayın.
2. IP Installer uygulamasını çalıştırın ve kameranın IP adresini masaüstünüzdeki web tarayıcısını kullanarak İnternet'e bağlanabilecek şekilde değiştirin.
3. İnternet tarayıcısını kullanarak web görüntüleyiciye bağlanın.
4. [Ayarlar] sayfasına 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

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

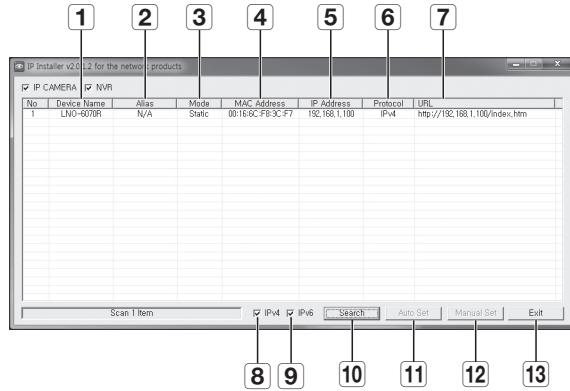


Bir Geniş Bant yönlendiriciye bağlı yerel bilgisayarın ağ ayarlarının yapılandırılması

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 26)

IP INSTALLER'DA KULLANILAN DÜĞMELER



Madde	Açıklama
1 Device Name	Bağlı kameranın model adı. Listeyi model adına göre sıralamak için sütunu tıklatın. Ancak arama sırasında tıklarsanız arama duracaktır.
2 Alias	Bu işlev henüz uygulanmamaktadır.
3 Mode	Mevcut ağ bağlantısı durumu için <Static>, <Dynamic> veya <PPPoE> modunu görüntüler.
4 MAC(Ethernet) Address	Bağlı kameranın Ethernet adresi. Listeyi Ethernet adresine göre sıralamak için sütunu tıklatın. Ancak arama sırasında tıklarsanız arama duracaktır.
5 IP Address	IP adresi. Listeyi IP adresine göre sıralamak için sütunu tıklatın. Ancak arama sırasında tıklarsanız arama duracaktır.
6 Protocol	Kamera için ağ ayarı. Fabrika varsayılan ayarı "IPV4"tır. IPv6 ayarı bulunan kameralar "IPV6" olarak görüntülenir.
7 URL	Harici İnternette erişimi sağlayan DDNS URL adresi. Ancak DDNS kaydının başarısız olması durumunda, bu adres yerine kamera <IP Address> kullanılır.
8 IPV4	IPV4 ayarı bulunan kameraları tarar.

Madde	Açıklama
9 IPv6	IPv6 ayarı bulunan kameraları tarar. Yalnızca IPv6 uyumlu bir ortamda etkinleştirilir.
10 Search	Ağa bağlı mevcut kameraları tarar. Ancak IPV4 veya IPV6'nın kontrol edilmediği durumlarda bu düğme aktif durumda olmaz.
11 Auto Set	IP Installer ağ ayarlarını otomatik olarak yapar.
12 Manual Set	Ağ ayarlarını manuel olarak yapılandırmanızı gerekir.
13 Exit	IP Installer programından çıkış yapılmasını sağlar.

- IP installer için yalnızca kurulum CD'sinde verilen installer sürümünü veya mevcutsa en son sürümü kullanın. En son sürümü Hanwha Techwin'un web sitesinden indirebilirsiniz.

STATİK IP AYARI

Manuel Ağ Ayarı

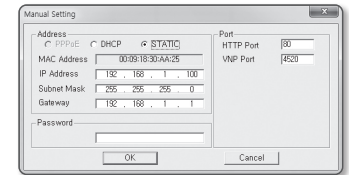
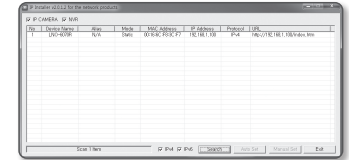
Kamera arama listesini görüntülemek için <IP Installer_v2.XX.exe>'yi çalıştırın.
İlk çalıştırmada, hem [Auto Set] hem de [Manual Set] gri renkli ve devre dışı olur.

- Bulunan kameralardan IPv6 ayarı mevcut olanlar için, kameraların bu işlevi desteklememesinden dolayı bu düğmeler gri renkte ve devre dışı konumda olurlar.

- Arama listesinden bir kamera seçin.
Kamera etiketinden kameranın MAC adresini kontrol edin.
Hem [Auto Set] hem de [Manual Set] düğmeleri etkinleşir.
- [Manual Set] düğmesini tıklatın.
Manual Setting iletişim kutusu açılır.
Kameranın <IP Address>, <Subnet Mask>, <Gateway>, <HTTP Port> ve <VNP Port> özellikleri, ön ayarlı değerlerinde görüntülenir.
- <Address> alanına gerekli bilgileri girin.

- MAC (Ethernet) Address : Kamera etiketinde basılı olan MAC adresi otomatik olarak görüntülenir ve bunun için kullanıcı ayarı gerekmez.

- IP ile ilgili parametreler yalnızca DHCP işaretli değilse ayarlanabilir.



Bir Geniş Bant yönlendirici kullanılmıyorsa

<IP Address>, <Subnet Mask> ve <Gateway> ayarlarını yapmak için ağ yöneticinizle görüşün.

4. <Port> alanına gerekli bilgileri girin.

- 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.

5. Parolayı girin.

Kameraya erişim için kullanılan "admin" hesabı şifresini girin.

- Güvenlik nedeniyle, şifre için sayı, küçük ve büyük harf ve özel karakter kombinasyonu kullanmanız önerilir.
- Parolanızı değiştirme hakkında bilgi için, Web Viewer'ın çevrimiçi yardım bölümüne bakın.

6. [OK] düğmesini tıklayın.

Manuel ağ ayarları tamamlanır.

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 26)

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

- <HTTP Port> 80 dışında bir değere ayarlanmıyorsa, 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

Otomatik Ağ Ayarı

Kamera arama listesini görüntülemek için <IP Installer_v2.XX.exe>'yi çalıştırın.
İlk çalıştırmada, hem [Auto Set] hem de [Manual Set] gri renkli ve devre dışı olur.

- Bulunan kameralardan IPv6 ayarı mevcut olanlar için, kameraların bu işlevi desteklememesinden dolayı bu düğmeler gri renkte ve devre dışı konumda olur.

1. Arama listesinden bir kamera seçin.
Kamera etiketinden kameranın MAC adresini kontrol edin.
Hem [Auto Set] hem de [Manual Set] düğmeleri etkinleşir.
2. [Auto Set] düğmesini tıklayın.
Auto Setting iletişim kutusu açılır.
<IP Address>, <Subnet Mask> ve <Gateway> otomatik olarak ayarlanır.

3. Parolayı girin.
Kameraya erişim için kullanılan "admin" hesabı şifresini girin.

- Güvenlik nedeniyle, şifre için sayı, küçük ve büyük harf ve özel karakter kombinasyonu kullanmanız önerilir.
- Parolanızı değiştirme hakkında bilgi için, Web Viewer'ın çevrimiçi yardım bölümüne bakın.

4. [OK] düğmesini tıklayın.
Otomatik ağ ayarı tamamlanır.

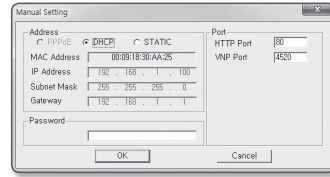
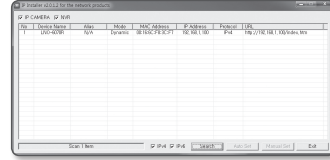
DINAMİK IP AYARI

Dinamik IP Ortamı Ayarı

- 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

Dinamik IP'nin kontrol edilmesi

- Kullanıcının yerel bilgisayarında IP Installer'ı çalıştırın.
<Dynamic IP> adresi tahsis edilen kameralar listede gösterilir.
- Arama sonucundan bir kamera seçin.
- [Manual Set] düğmesine tıklayın ve kameranın <Dynamic IP> adresini kontrol edin.
<DHCP> öğesinin işaretini kaldırırsanız, IP'yi <Static> olarak değiştirebilirsiniz.

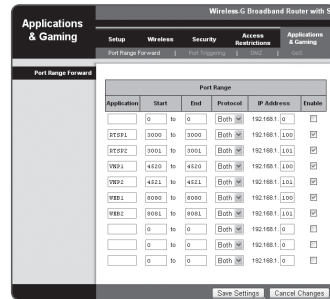


BAĞLANTI NOKTASI ARALIĞI AKTARIM (BAĞLANTI NOKTASI EŞLEME) AYARI

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

- 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.
- 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.



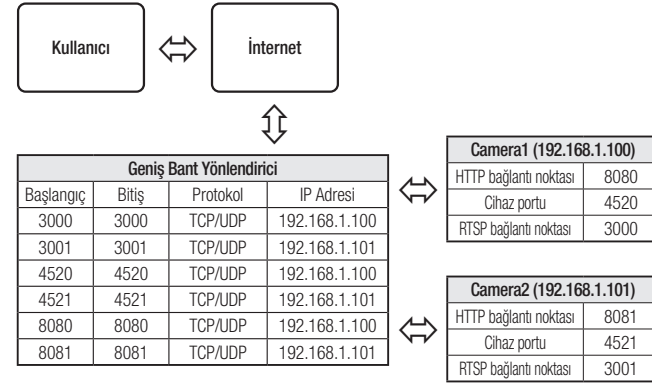
- İşlem tamamlandığında [Save Settings] düğmesini tıklayın.
Ayarlarınız kaydedilir.

- Yukardaki örnek talimatlar CISCO'nun Geniş Bant Yönlendiricisini temel alır.
- 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 :

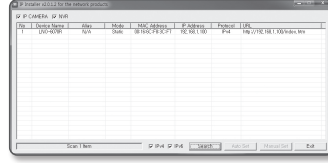


- Yönlendiricinin UPnP (Evrensel Tak ve Çalıştır) özelliğini desteklemesi halinde, port yönlendirme ek yönlendirici kurulumu olmadan yapılabilir.
Ağ kablosunu bağladıktan sonra, "Ayarlar → Ağ → DDNS" içinde <Wisenet DDNS> altında <Hızlı Bağlantı> menüsündeki onay kutusunu işaretleyin.

KAMERAYA PAYLAŞILAN BİR YEREL BILGISAYARDAN BAĞLANMA

1. IP Installer'ı çalıştırın.
Bağlı kameralar taranır ve kameraların bir listesi görüntülenir.
2. Bir kameraya erişmek için üzerine çift tıklayın.
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

Geniş Bant Yönlendiricinin ağ grubunda olmayan uzak bir bilgisayarda IP Installer'ın kullanılmasına izin verilmediği için kullanıcılar kameranın DDNS URL'sini kullanarak Geniş Bant Yönlendiricinin ağındaki kameralara erişebilir.

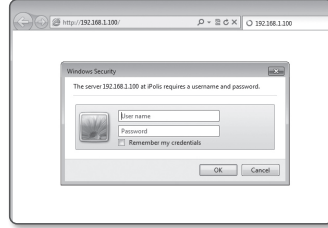
1. Geniş Bant yönlendirici ağındaki bir kameraya erişebilmek için, öncelikle Geniş Bant yönlendirici için bağlantı noktası aralığı aktarımını ayarlamış olmanız gerekir.
2. Uzak bilgisayardan İnternet tarayıcıyı başlatın ve kameranın DDNS URL adresini veya Geniş Bant yönlendiricinin IP adresini adres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

- DDNS kaydı hakkında bilgi almak için ağ kurulumu kılavuzuna bakın.

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> <Wisenet 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: 111, 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 bilgilerini girmenize gerek kalmadan, otomatik olarak oturum açabilirsiniz.
- Ekrana boyutu %100 olduğunda en iyi video kalitesine sahip olursunuz. Oran düşürüldüğünde, görüntü kenarlarından 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 görüntüleyicide, entegre bir web viewer eklentisi ve yeni eklentisiz web viewer birlikte bulunmaktadır. Bu, web görüntüleyicisinin Chrome, EDGE ve Firefox (sadece Windows 64 bit) gibi eklentileri desteklemeyen modern tarayıcı ortamlarında bile kullanılabileceği anlamına gelmektedir. Eklenti yüklemelerine izin veren IE tarayıcıda eklenti yüklenmesi önerilir.

Tarayıcı ortamlarınıza bağlı olarak aşağıdaki farklılıklar oluşacaktır:

- **Chrome, FireFox(sadece Window 64 bit), EDGE, Safari** : Bu tarayıcıların eklenti desteği olmamasına rağmen, bir web görüntüleyicisini eklentisiz ve tümleşik olarak kullanabilirsiniz.



- Eklentisiz webviewer, eklenti webviewer'a oranla daha düşük performansla sahip olduğu için, yüksek kaliteli profillerin izlenmesi ve kaydedilen videoların oynatılması konularında limitler vardır.
Yüksek kaliteli profillerin izlenmesi ve kaydedilen videoların oynatılması için eklenti webviewer veya SmartViewer kullanın.
 - Canlı videoda bir gecikme olduğunda, eklentisiz bir profil otomatik olarak oluşturulur.
 - Kodex ve çözünürlüğe bağlı olarak oynatma, gecikmelere neden olabilir.
- Eklentisiz özelliği Chrome tarayıcısı için optimize edilmiştir.

- **IE browser** : Mevcut web görüntüleyicisi eklentisini yüklemeyerseniz bile bir web görüntüleyicisi kullanabilirsiniz.



- Kaydedilen videoları sorunsuz olarak izlemek/oynatmak için bir eklenti kurmanız gerekir.

WebView EKLENTİSİNİN KURULUMU

IE tarayıcıdan, eklentisiz bir web viewer'a erişmeye çalışırsanız ve o anda kullandığınız farklı bir kodak ile canlı görüntü talebinde bulunursanız veya kaydedilen videoyu oynatma işlevini kullanmayı talep ederseniz bir yükleme mesajı belirir. O anda, işlevleri normal olarak kullanmak için web viewer eklentisinin yüklenmesi gerekir.

1. İzleme sayfasına ilk erişimde, kurulum sayfası görüntülenir. Kurulumu 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.

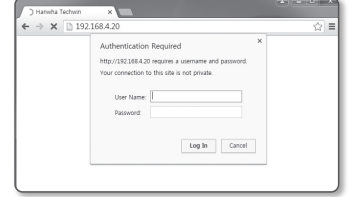
4. Web Görüntüleyici Eklentisinin eski sürümü kuruluysa, eski sürümün silindiğini gösteren bir uyarı penceresi görüntülenir. Uyarı penceresi görüntülendiğinde **[Yes]** düğmesine tıklayın.
5. **[OK]** düğmesine tıklayın. Web Görüntüleyici Eklentisinin eski sürümü silinir.
6. Web Görüntüleyici Eklentisinin 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. Sorun devam ederse, lütfen "Araçlar → İnternet Seçenekleri → Güvenlik → Güvenilen siteler" bölümüne gidip kameranızın IP veya Etki Alanını kaydedin.

EKLENTİSİZ WEB GÖRÜNTÜLEYİCİ KULLANMA

Bir kameraya, Google Chrome, Mozilla Firefox, MS Edge veya Safari web tarayıcısından bir kameraya bağlanırsanız, aynı bir eklenti yükleyemezsiniz ancak herhangi bir eklenti olmadan gerçek zamanlı olarak kamera videolarını görüntüleyebilir ve kontrol edebilirsiniz.

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



Kamerayı ayarlamak için

1. **[Kurulum (⚙️)]** simgesine tıklayın.
2. Ayarlar penceresi görüntülenir.
3. Kameranın temel bilgileri, video, ağ, olay, analiz ve sistem ayarlarını ağ üzerinden yapılandırabilirsiniz.
4. Her işlevin detaylı tanımına bakmak için **<Yardım (❓)>** düğmesine tıklayın.

SORUN GİDERME

SORUN	ÇÖZÜM
Safari tarayıcıda eklentisiz web görüntüleyiciye HTTPS aracılığıyla erişildiğinde hiçbir video görüntülenmez.	- 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 görüntülenemeye devam ederse, Safari tarayıcıdan çıkmak için komut tuşu + Q tuşuna basın, sayfaya yeniden erişin ve yukarıda belirtilen işlemleri uygulayın.
Kameraya ağ tarayıcısından erişemiyorum.	- 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.	- 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.
Webviewer'a yeni erişildiğinde veya istemciye akış bağlantısı yapıldığında video görüntülenmez.	Kullanılabilir maksimum profil sayısı 3'tür. 4 veya daha fazla profil kullanırsanız bağlantı kesilebilir. Örnek) MJPEG, H.264 ve H.264 (Farklı Ayarları olan Profiller) profillerine erişir ve ardından farklı bir profil ile erişerseniz, bağlantı kaybedilir.
Ağa bağlanan kamera IP kurma programı tarafından belirlenmedi.	PC'nizdeki güvenlik duvarını kapatın ve kamerayı tekrar aratın.
Görüntüler üstüste biniyor.	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.	Eğer iletim yöntemi multicast olarak ayarlanmışsa, kameranın bağlandığı LAN üzerinde multicast destekleyen yönlendirici olup olmadığını kontrol edin.

SORUN	ÇÖZÜM
<Hareket Algılama> özelliği, <Olay> sayfasında <Etkinleştirin> olarak ayarlanmışken bir hareket algılama olayı oluşturulsa bile dosya e-posta ile aktarılmaz.	- Ayarları şu sırayla doğrulayın: <Tarih ve Saat> ayarlarını kontrol edin. <Hareket Algılama> ögesi <Etkinleştir> seçeneğine ayarlanmalıdır. <Olay Ayarı> menüsünün <E-posta> seçeneğinin kullanım için işaretlenip işaretlenmediğini kontrol edin.
Micro SD bellek kartına kayıt yapılamıyor.	Bellek kartının hasarlı olup olduğunu kontrol edin.
Micro SD bellek kartı takılı ama kamera düzgün çalışmıyor.	- Bellek kartının doğru yönde takılıp takılmadığını kontrol edin. Başka cihazlarda biçimlendirilen bir bellek kartı bu kamera biriminde çalışmayabilir <Ayarlar> → <Olay> → <Depolama> menüsünde bellek kartını tekrar biçimlendirin.

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2. "Source Code" means a source program, including related comments and documentations, for the T-Kernel and the Ported Source Code defined in Article 2.8 which is registered with T-Engine Forum.
3. "Hardware-dependent Part" means the part of the Source Code which depends on hardware and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.
4. "Compiler-dependent Part" means the part of the Source Code which depends on compiler and needs to be changed when the Source Code is ported and operated on the target hardware, and is designated and separated as such part.
5. "Header File" means the part of the Source Code which contains definitions necessary to develop application programs.
6. "T-Engine Hardware" means the hardware which is manufactured in accordance with the T-Engine Hardware specifications or the μ T-Engine Hardware specifications issued by T-Engine Forum, and registered with T-Engine Forum.
7. "Similar Hardware to T-Engine Hardware" means any hardware (including software which emulates hardware) other than that defined in Article 2.6 above, on which the T-Kernel can be operated.
8. "Ported Source Code" means a source program produced from the Source Code by modifying only its Hardwaredependent Part and/or Compiler-dependent Part to enable it to be operated on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware. The Ported Source Code which is registered with T-Engine Forum shall be included in the Source Code.
9. "Modified Source Code" means a source program modified from the Source Code for the purpose of improving its performance, increasing or decreasing its function, and the like. The Ported Source Code shall not be included in the Modified Source Code.
10. "Binary Code" means an executable code form which is created by compiling programs, which include all or part of the Source Code or the Modified Source Code.
11. "Derivative Work" means the Modified Source Code or the Binary Code.
12. "Embedded Product" means any product which operates with executable code form of the Source Code, the Modified Source Code or the Binary Code loaded on its hardware.
13. "End User" means a consumer who uses the Embedded Product.
14. "System Developer" means any person who develops the Embedded Product by itself or has a third party develop the same, and provides, whether with or without payment, the End User with the Embedded Product.
15. "Distributor of Modification" means any person who produces the Modified Source Code and, whether with or without payment, distributes the same to any third party.

16. "Patch for Modification" means a difference, program, system, or the like in order to create the Modified Source Code from the Source Code or the Binary Code thereof.

17. "Vicarious Execution of Patch Processing" means vicarious execution service to create the Modified Source Code applying the Patch for Modification to the Source Code or the Binary Code thereof.

18. "Source Code User" means a person who uses the Source Code.

19. "Distribution" means any of the following acts:

1. to transmit a work to a large number of specific persons through the Internet communication, broadcasting, and the like;
2. to transmit a work to the general public through the Internet communication, broadcasting, and the like automatically in response to a request from the public; and
3. to distribute a copy of a work to the general public or a large number of specific persons.

Article 3. Copyright

1. The copyrights of the Source Code shall be owned by Ken Sakamura.

Article 4. License of Source Code

1. As provided for in this Article, T-Engine Forum shall provide, and grant a license to use, the Source Code free of charge to any person who has taken the necessary procedure for registration as prescribed by T-Engine Forum and agreed to the T-License.
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 4. to distribute the Binary Code created from the Source Code provided by T-Engine Forum hereunder or from the Source Code modified in accordance with the provision of Article 4.3 (1) above.
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 1. to perform any and all acts set forth in the Article 4.3 above.
 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.
5. The Source Code User and the System Developer shall be obligated to give a notice that the Source Code is used, in such a way as separately specified by T-Engine Forum, when they use the Source Code or the Binary Code, or make the Binary Code available for the End User on the Embedded Product.

Article 5. Distribution of Modified Source Code

1. Any of A- members of T-Engine Forum may become the Distributor of Modification by obtaining the approval of T-Engine Forum through the registration procedure as prescribed by the Forum provided that only the department of the A- member which has taken the registration procedure may distribute the Modified Source Code in such a way as provided for in this Article as long as it holds the Amembership.
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5. The Distributor of Modification may distribute the Modified Source Code to a third party, whether with or without payment, provided that the Distributor of Modification shall take the necessary measures to prohibit the third party from making the re-Distribution of the Modified Source Code.
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7. The Distributor of Modification may perform the Vicarious Execution of Patch Processing for the System Developer.
8. The System Developer shall not distribute the Modified Source Code in further modified form to any third party as a stand-alone software product.
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Article 6. Distribution and Registration of the Ported Source Code

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

Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware:

1. The Hardware-dependent Part and/or Compiler-dependent Part; provided that the Source Code User and the System Developer shall inform T-Engine Forum of, and T-Engine Forum may publish, a method for distributing said Part(s) to third parties.
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.
3. Any member of T-Engine Forum who requests the distribution mentioned in the preceding paragraph shall accede to the following conditions:
 1. The member shall confirm that the object hardware is the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.
 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

1. Any use of the Source Code, the Modified Source Code or the Ported Source Code other than those stipulated in Articles 4, 5 and 6 shall be subject to the prior approval of T-Engine Forum.

Article 8. Limited Warranty

1. T-Engine Forum and the copyright holder of the Source Code warrant that the Source Code does not infringe third party's copyrights. Provided, however, that T-Engine Forum and the copyright holder of the Source Code make no warranty as to the Hardware-dependent Part and/or Compiler- dependent Part set forth in Article 6.2 in the Ported Source Code by any third party.
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3. Any legal dispute which may arise in relation to any breach of this License Agreement shall be subject to the exclusive jurisdiction of the Tokyo District Court.

Article 11. Governing Law and Language

1. This License Agreement shall be governed by and interpreted under the laws of Japan.
2. This License Agreement is executed in both Japanese text and English text provided that the Japanese text shall govern the interpretation and performance of this License Agreement.

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.5 of 10 December 2007

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iperf performance test

Mark Gates

Ajay Tirumala

Jim Ferguson

Jon Dugan

Feng Qin

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

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 Techwin üretimin tüm aşamalarında çevreye özen gösterir ve müşterilerine daha çevre dostu ürünler sağlayabilmek için gerekli tedbirleri alır.
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Ramazanoğlu Mah. Transtek Cad. No: 2 Pendik / İstanbul / Türkiye

Tel +90.216.999.49.49 Faks +90.212.381.61.02

ENTES ELEKTRONİK CİHAZLAR İMALAT VE TİC. A.Ş.

Dudullu Org.San.Bölg. 1. Cad. No:23 34776 Ümraniye - İstanbul / Türkiye

Tel +90.216.313.01.10 Faks +90.216.314.16.15

Cihazın Ticaret Bakanlığınca önerilen ortalama ömrü

Cihazın EEE yönetmeliklerine uygun olduğuna benzer beyan