

WISeNet

AĞ VIDEO KAYDEDİCİ

Ürün Özellikleri Kılavuzu

XRN-2010/2011/2010A/2011A
XRN-3010/3010A
XRN-1610/1610S/1610A/1610SA

CE

Ağ Video Kaydedici

Ürün Özellikleri Kılavuzu

Telif hakkı

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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.

En son sürümü Hanwha Techwin'un web sitesinden indirebilirsiniz. (www.hanwha-security.com)

❖ 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.

GÜVENLİK KURALLARI

Cihazı kullanmadan önce bu çalıştırma talimatlarını dikkatlice okuyun.

Aşağıda listelenen güvenlik talimatlarını izleyin.

Bu çalıştırma talimatlarını daha sonra kullanmak için saklayın.

- 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 yanına 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.



BAŞLAMADAN ÖNCE

Bu kılavuz, ürünün nasıl çalıştığına dair kullanım bilgilerini sağlar ve her bileşen parçası ve işleviyle birlikte menü veya ağ ayarları hakkında açıklama içerir.

Aşağıdaki duyuları dikkate almanız gerekecektir:

- Hanwha Techwin bu kılavuzun telif hakkını elinde tutar.
- Bu kılavuz Hanwha Techwin'in izni yazılı onayı olmadıkça kopyalanamaz.
- Standart dışı bir ürünün kullanımı ya da bu kılavuzda belirtilen talimatlara uyulmaması nedeniyle üründe meydana gelen herhangi ya da her türlü kayıptan sorumlu değiliz.
- Eğer olası sorunları kontrol etmek için sisteminizin kasasını açmak istiyorsanız lütfen ürünü aldığınız mağazada bulunan uzmana danışınız.
- Bir sabit disk sürücüsü veya harici depolama cihazı (USB bellek, USB HDD, vs) ilave etmeden önce cihazın bu ürünle uyumlu olup olmadığını kontrol edin. Uyumluluk listesi için satıcıyla irtibat kurun.

Uyari

Batarya

Ürünüze yanlış bir batarya takmanız bir patlamaya neden olabilir. Bu nedenle, üründe kullanılan bataryayla aynı tipte bir batarya kullanmalısınız.

Aşağıda belirtilenler şu anda kullandığınız bataryanın özellikleridir.

- Normal voltaj : 3V
- Normal kapasite : 210mAh
- Sürekli standart yükleme : 0,4mA
- İşletim sıcaklığı : -20°C ~ +60°C (-4°F ~ +140°F)

Dikkat

- Güç kablolarını topraklanmış bir prize bağlayın.
- Elektrik fişi cihaz bağlantısını kesmek için kullanılır, bu yüzden her zaman kullanıma müsait olmalıdır.
- Piller; güneş ışığı, ateş veya benzeri yüksek ısı kaynaklarına maruz bırakılmamalıdır.
- Pili Yanlış Türle değiştirildiği takdirde Patlama Riski. Kullanılan Pilleri Talimatlara Uygun Şekilde Atın.
- HDD'nin kullanım ömrü sona erdiğinde, depolanan video verileri hasar görebilir ve geri kurtarılamayabilir.
- Sistemin ön tarafındaki HDD durum LED ışığının sürekli yanıp sönməsi, sistemin HDD'ye bağlantısının normal olduğunu gösterir. Sürekli yanıp yanmadığını görmek için düzenli olarak HDD durum LED ışığını kontrol edin. HDD'de bir sorun olduğunda kayıt yapılamayabilir. Periyodik olarak kayıt durumunu kontrol edin ve önemli verilerinizi düzenli olarak yedekleyin.

Sistemin Kapanması

Ürünün çalışma esnasında gücün kapatılması durumunda ya da belirtilen eylemlerin uygulanmaması durumunda sabit diskte ya da üründe hasar oluşabilir.

Güvenli bir şekilde kapatmak için, menüden Çıkış seçeneğini seçin ve açılan ekranda <Tamam> seçeneğine tıklayın, ardından güç kablolarını çıkartın.

Beklenmedik bir elektrik kesintisi durumunda meydana gelebilecek olan bir hasarı önlemek ve güvenli bir çalışma sağlamak için bir UPS sistemi kurmak isteyebilirsiniz. (UPS ile ilgili her türlü sorularınız için UPS satıcısına danışınız.)



- Normal olmayan bir biçimde güç kesilirse, düzgün bir biçimde çalışabilmesi için sabit disk sürücüsündeki verilerin geri yüklenmesi gerekeceğinden yeniden başlatılması uzun zaman alabilir.

İşletim Sıcaklığı

Bu ürünün garanti edilen işletim sıcaklığı 0°C ~ 40°C (32°F ~ 104°F).

Eğer uzun bir depolama döneminden sonra garanti edilen işletim sıcaklığının altında bir sıcaklıkta çalıştırmayı denerseniz bu ürün doğru düzgün çalışmayabilir.

Düşük sıcaklıkta uzun bir depolama döneminden sonra cihazı kullandığınızda ürünü ilk önce oda sıcaklığındaki bir yerde bekletip daha sonra çalıştırınız.

Özellikle üründeki dahili HDD için, garanti edilen sıcaklık aralığı 5°C ~ 55°C'dir (41°F ~ 131°F).

Aynı şekilde, sabit sürücüde garanti edilen sıcaklığında altındaki bir ısıda çalışmayabilir.

Ethernet Portu

Bu cihaz iç mekanda kullanıma yöneliktir ve tüm iletişim kabloları binanın iç kısmında olmak üzere sınırlandırılmıştır.

Güvenlik Önlemleri

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.

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Her bir özelliği destekleyen NVR ürünleri

İşlev	Ürünler
Fan	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
RAID	XRN-2011, XRN-2011A
iSCSI	XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
PoE	XRN-1610S, XRN-1610SA
P2P	XRN-3010A, XRN-2010A, XRN-2011A, XRN-1610A, XRN-1610SA
Uzaktan kumanda	XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Kumanda kolu	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Uzatılmış monitör	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Yük Devri	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A
Dağıtık Kayıt	XRN-3010, XRN-3010A

İÇİNDEKİLER

GENEL BAKIŞ	3	Güvenlik Kuralları
	3	Başlamadan Önce
	5	İçindekiler
	6	Özellikler
	7	Parça Adları ve İşlevleri (Ön)
	8	Parça Adları ve İşlevleri (Arka)

KURULUM	9	Kurulum ortamının kontrol edilmesi
	9	Rakın Kurulumu
	10	HDD İlavesi

DIĞER CİHAZLARLA BAĞLANTI	13	Harici bir cihazla bağlantı kurma
	13	USB'yi bağlama
	13	Alarm Girişine/Çıkışına Bağlama
	14	Ağ Bağlantısının Yapılması

ÜRÜN TEKNİK ÖZELLİKLERİ	16	Ürün teknik Özellikleri
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ÜRÜN GENEL BİLGİLERİ	22	Ürün genel Bilgileri
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ÖZELLİKLER

Ürün ağ kameralarından alınan videoları ve sesleri bir sabit diske kaydeder ve sabit diskten oynatmayı sağlar. Ayrıca uzak bir bilgisayar kullanarak ağ üzerinden video ve ses için uzaktan izleme ortamı sağlar.

- Kullanıcı dostu UI
- 4K kamera çözünürlük aralığını destekler (3840X2160, 4096X2160, 4000X3000)
- HDMI kullanarak 4K yüksek çözünürlüklü görüntü sağlar
- Video kaydetme ve oynatma
- Ses kaydetme ve oynatma
- ONVIF Profile S standardını ve RTP / RTSP protokollerini destekler
- HDD SMART ile HDD çalışma durumunu gösterme
- HDD üzerine yazma etkin
- USB 2.0, 3.0 protokolleri ve harici HDD kullanılarak yedekleme
- 16 kanalı aynı anda oynatma
- Çeşitli Arama Modları (Zaman, Olay, Akıllı, Metin, Yedekleme, ARB)
- Çeşitli Kayıt Modları (Normal, Olay, Programlı Kayıt)
- Alarm Girişi / Çıkışı
- Windows Network Viewer ile Uzaktan İzleme fonksiyonu
- Ağ kamerası canlı izleme
- Kurulum Sihirbazı İşlevi (Kolay Kurulum, Hızlı Kurulum)
- P2P desteği ile akıllı telefon uzaktan izleme özelliğini destekler (XRN-2010A/2011A/3010A/1610A/1610SA)

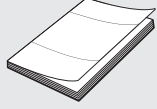
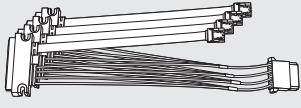
Paket İçeriği

Lütfen ürünün paketini açın ve ürünü düz bir konuma veya kurulacağı konuma yerleştirin. Ana üniteye ek olarak aşağıdakilerin de mevcut olduğunu lütfen kontrol edin.

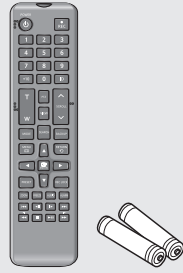
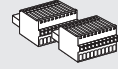
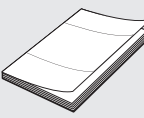
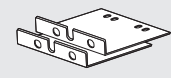
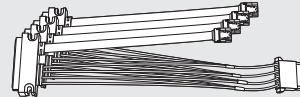
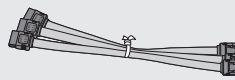


- Bileşenlerin görünümü, gösterilen resimden farklılık gösterebilir.
- Aksesuar kategorisi ve miktarı, satış bölgesine bağlı olarak farklılık gösterebilir.
- Bazı bölgelerde, HDD önceden yüklenmemiştir. HDD Sabitleme Vidası, SATA Güç Kablosu, SATA veri kablosu ve SATA güç/veri kablosu miktarı modele göre değişiklik gösterir.

XRN-2010/2011/2010A/2011A/3010/3010A

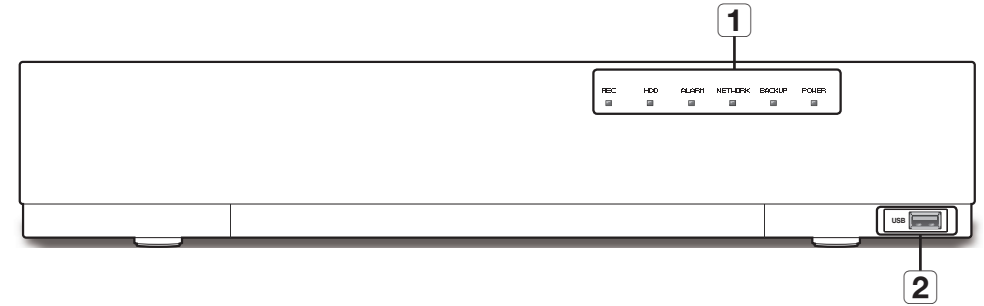
		
NVR	Fare	Güç Kablosu
		
Hızlı Kılavuz	Terminal bloğu	Raf Braketi
		
Kelepçe Sabitleme Vidası	HDD SATA/Güç Kablosu (XRN-2011/2011A modelinde mevcut değildir)	HDD Sabitleme Vidaları (XRN-2011/2011A modelinde mevcut değildir)

XRN-1610/1610S/1610A/1610SA

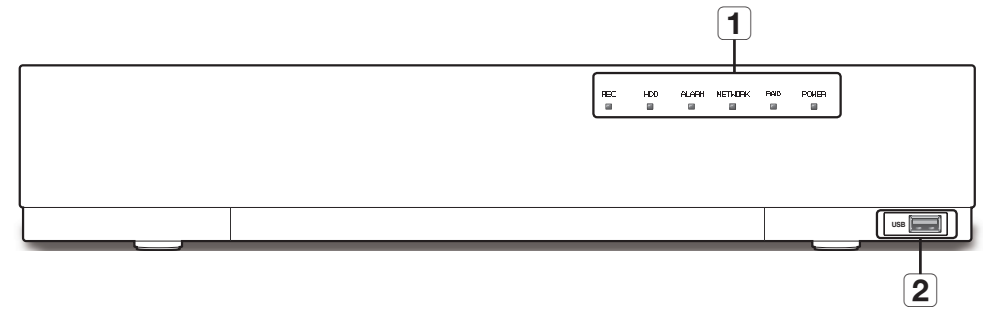
		
NVR	Fare	
		
Güç Kablosu	Terminal bloğu	
		
Hızlı Kılavuz	Raf Braketi	HDD Sabitleme Vidaları
		
Kelepçe Sabitleme Vidası	HDD SATA/Güç Kablosu (XRN-1610/1610A)	SATA Güç Kablosu (XRN-1610S/1610SA)
		
SATA Veri Kablosu (XRN-1610S/1610SA)		

PARÇA ADLARI VE İŞLEVLERİ (ÖN)

XRN-2010/2010A/3010/3010A/1610/1610S/1610A/1610SA



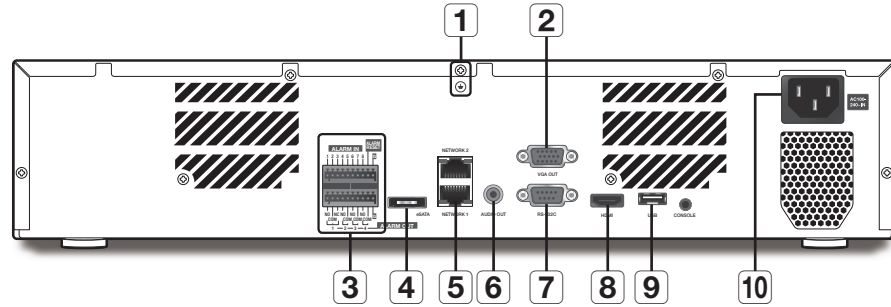
XRN-2011/2011A



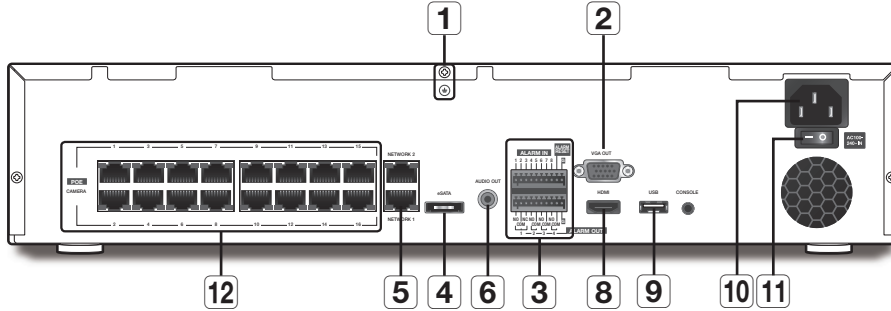
Parça Adları	İşlevler
1 LED Göstergesi	REC : Kaydetme devam ederken ışıklar yanar. HDD : HDD'ye normal erişimi gösterir. Sabit diske erişilirken LED yanar. ALARM : Bir olay olduğunda ışıklar açık. NETWORK : Ağ bağlantısının ve veri aktarımının durumunu gösterir. BACKUP : Yedekleme yapılırken AÇIK durumda kalır. (XRN-2010/2010A/3010/3010A/1610/1610S/1610A/1610SA) RAID : RAID kullanımdayken AÇIK durumda kalır. RAID kullanımdayken yedekleme etkinleştirilirse yanıp söner. RAID kullanımda değilse, sadece yedekleme işlemi yapılırken yanıp söner. (XRN-2011/2011A) POWER : Güç AÇIK/KAPALI durumunu gösterir.
2 USB	USB cihazlarını bağlar. (USB 2.0 desteklenir)

PARÇA ADLARI VE İŞLEVLERİ (ARKA)

XRN-2010/2011/2010A/2011A/3010/3010A/1610/1610A



XRN-1610S/1610SA



Parça Adları	İşlevler
1 Topraklama bağlantısı	Aynı bir topraklama kablosu takmak için terminal. ■ Cihazın güvenli bir şekilde kullanılmasını desteklemek için bir topraklama kablosu ekleyin.
2 VGA OUT	VGA Video Sinyali Çıkış Portu.
3 ALARM	- ALARM IN : Alarm giriş portları. (1~8 CH) - ALARM RESET : Alarm Sıfırlama portu - ALARM OUT : Alarm çıkış portları. (1~4 CH)
4 eSATA	Harici bir depolama cihazı bağlamak için terminal.
5 NETWORK1	Kameradan görüntü alan, kamera bağlantısı için önerilen port.
6 NETWORK2	Ağ, Web Viewer veya iSCSI ile bağlantı için önerilen port.
7 AUDIO OUT	Ses Sinyali Çıkışı Bağlantı Noktası (RCA jakı).
8 RS-232C	Seri bağlantı için kablo terminali (aynı).
9 HDMI	HDMI konektör portu.
10 USB	USB cihazlarını bağlar. (USB 3.0 desteklenir)
11 Güç	Gücün bağlanacağı terminal.
12 Güç Anahtarı	Güç açma/kapama düğmesi. (XRN-1610S/1610SA)
13 PoE (CAMERA)	Kameraya bağlamak için güç kaynağı portu. (XRN-1610S/1610SA)



■ [CONSOLE] yalnızca servis tamiri amacıyla tasarlanmıştır.

Ürünü kullanmadan önce lütfen aşağıdaki hususlara dikkat edin.

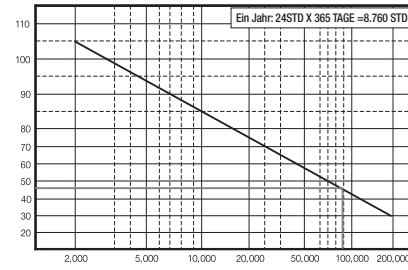
- Ürünü dış mekanda kullanmayın.
- Ürünün bağlantı parçasına su veya sıvı dökmeyin.
- Sistemi aşırı darbeye veya güce maruz bırakmayın.
- Elektrik fişini güç kullanarak çekmeyin.
- Ürünü kendi başınıza sökmeyin.
- Nominal giriş/çıkış aralığını aşmayın.
- Sadece onaylanmış bir güç kablosu kullanın.
- Giriş topraklamasına sahip ürünler için, topraklı elektrik fişi kullanın.

KURULUM ORTAMININ KONTROL EDİLMESİ

Bu ürün, yüksek kapasiteli bir HDD ve diğer kilit devre kartlarıyla donatılmış üstün kaliteli bir güvenlik cihazıdır.

Ürünün iç sıcaklığının aşırı yükselmesinin sistem arızasına yol açacağını veya ürün ömrünü kısaltacağını unutmayın (sağdaki şekle bakın). Ürün kurulumunu gerçekleştirmeden önce aşağıdaki talimatları aklınızda tutun.

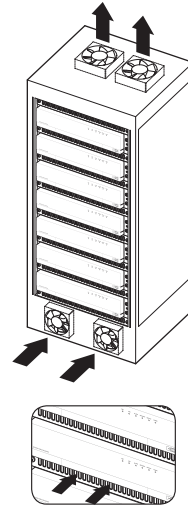
Sıcaklık
Birimi: °C



Ömür (Birim: SAAT)
[Şekil 1]

Bu ürünü bir rafa monte ederken aşağıdaki talimatlara uyun.

1. Rak içinin kapatılmasına dikkat edin.
2. Havanın giriş/çıkış aracılığıyla resimde gösterildiği şekilde dolaştığından emin olun.
3. Ürünleri veya diğer raf montaj cihazlarını şekil 2'de gösterildiği gibi üst üste dizerseniz havalandırma için alan bırakın veya bir havalandırma borusu takın.
4. Doğal hava yayımı için, girişi rakın alt kısmına, çıkışı da üst kısmına yerleştirin.
5. Hava dolaşımı için giriş ve çıkışa bir fan motorunun takılması şiddetle tavsiye edilir. (Toz veya yabancı maddeleri elemek için lütfen girişe bir filtre takın.)
6. Lütfen rak içindeki veya çevredeki sıcaklığı şekil 1'de gösterildiği gibi 0°C ~ 40°C (32°F ~ 104°F) arasında tutun.

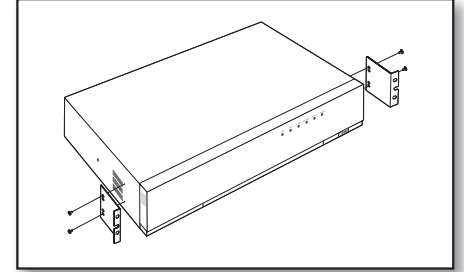


[Şekil 2]

RAKIN KURULUMU

Braket Rakı şekilde gösterildiği biçimde takın ve her iki yanındaki vidaları sıkın.

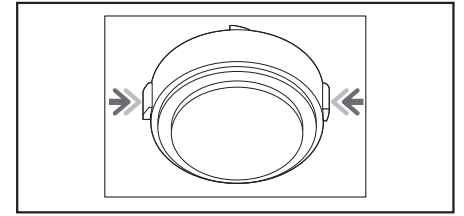
- Vidaları titreşimlerden ötürü gevşemeyecek şekilde sıkın.



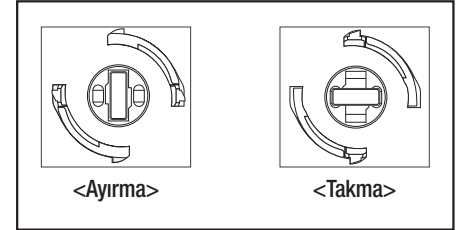
Rafa takma işlemi yaparken Dikkat Edilecekler

NVR'a birden çok raf takmak için her bir NVR'ın alt kısmında bulunan AYAK'ı ayırdığınızdan emin olun.

1. Bir NVR'ın alt kısmında dört adet "AYAK" bulunmaktadır. Her bir ayağın iki kenarında bulunan korumalı bölgeye bastırın ve saat yönünün aksi istikametinde döndürün.



2. "AYAK", bağlı olduğu oyuktan döndürüldüğünde ana gövdeden ayrılır.



HDD İLAVESİ

Olası elektrik çarpmalarını, yaralanmaları ve ürün hasarlarını önlemek için elektrik kablosunu duvar prizinden çıkarmayı unutmayın.
Yanlış montaj veya ayarlar ürüne zarar verebileceğinden, HDD montajı ile ilgili daha fazla bilgi almak için lütfen satıcınıza danışın.

- Desteklenen HDD sayısı : 8'e kadar HDD desteklenir
- Montaja devam etmeden önce güç kablosunu duvar prizinden sökmeyi unutmayın.



■ **Veri kaybı ile ilgili uyarılar (HDD bakımı)**

HDD içindeki verilerin hasar görmemesi konusunda dikkatli olun.
Bir HDD ilave etmeden önce, lütfen bu ürünle uyumluluğunu kontrol edin.
Özellikle çalışma sırasında elektrik şokuna karşı hassas niteliği dolayısıyla HDD arızalanmaya müsaittir.
Lütfen HDD'nin bu tür elektrik şoklarına maruz kalmamasına dikkat edin.
Kullanıcının dikkatsizliği veya yanlış kullanımı dolayısıyla HDD'ye gelebilecek hasarlarda sorumluluk kabul etmemektediriz.

■ **Bazı durumlarda HDD veya kaydedilmiş veriler hasar görebilir**

Hasar görmüş bir HDD'deki verilerin kaybedilmesi riskini en aza indirmek için, lütfen verileri olabildiğince sık yedekleyin.
Sökme veya kurma sırasında darbeye maruz kalırsa sabit diskte saklanan veriler zarar görebilir.
HDD çalışırken ani bir güç kesintisi meydana gelmesi veya ürünün kapatılması da sabit disk sürücüsüne zarar verebilir.
HDD çalışırken ana gövde taşınır veya çarparsa HDD veya içerisinde depolanan dosyalar hasar görebilir.

Bir HDD kurulumuyla ilgili uyarılar

- Sabit diske aşırı güç uygulamayın.
- Söküm vidalarını ve aksesuarlarını kaybetmemeye dikkat edin.
 - Vida veya aksesuarlar doğru şekilde birleştirilmezse ürün arızalanabilir ya da düzgün çalışmayabilir.
- Bir HDD eklemeyi önce lütfen HDD uyumluluğunu kontrol edin.
 - Uyumlu cihazların bir listesini edinmek için lütfen en yakın bayiye başvurun.

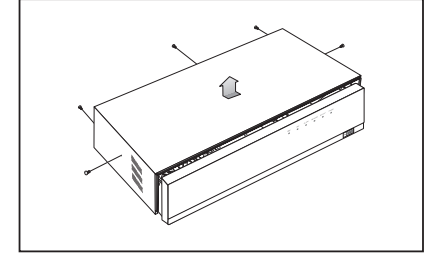
HDD'nin Kurulması



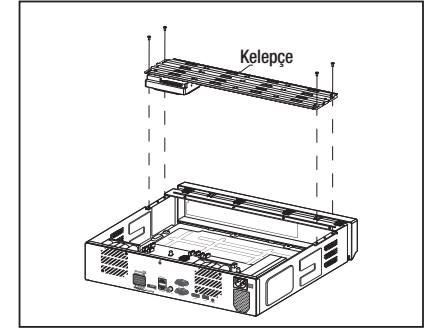
- Bu ürüne orijinal olarak kurulan HDD'ye ilave olarak yeni veya daha önce kullanılmış bir HDD ekliyorsanız, yeni HDD'yi kullanmadan önce manuel olarak biçimlendirin.
Nasıl biçimlendirme yapılacağını öğrenmek için, Wisenet NVR Kullanım Kılavuzu'nda "Cihaz/Biçim" kısmına bakın.

XRN-2010/2010A/3010/3010A/1610/1610A/1610S/1610SA modeline sabit disk takılması

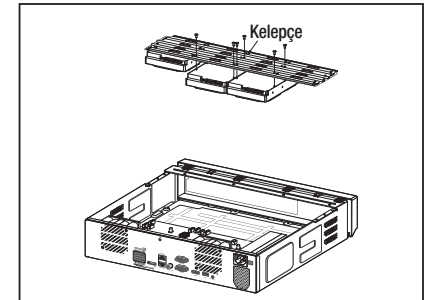
- Öncelikle sol/sağ ve arka taraftaki vidaları sökün ve ardından kapağı çıkartın.



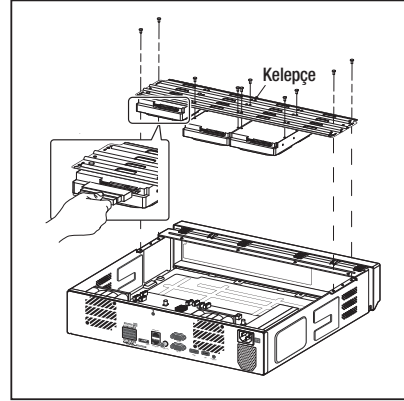
- Sol/sağ taraftaki vidaları (4 vida) sökün ve bağlantı aparatını çıkartın.



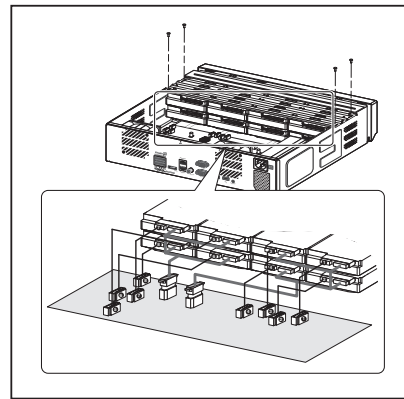
- HDD'yi bağlantı aparatına monte edin ve vidalarla sabitleyin.



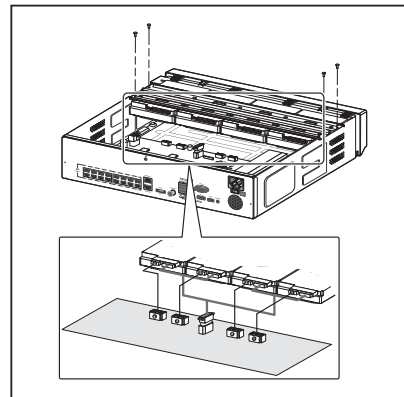
4. Bağlantı aparatı üzerindeki HDD konumu numarası ile HDD SATA/güç kablosu numarasını eşleştirerek, kabloyu HDD'ye takın.
- Bağlantı aparatı üzerindeki HDD konumu için lütfen aşağıdaki resme bakın.



5. Bağlantı aparatını ilave HDD'nin monte edildiği NVR'ye takın ve vidalarla tutturun ve ardından SATA/güç kablosunu, ana karttaki ilgili numaralı konektöre bağlayın.
- Konektör numaraları için, lütfen aşağıdaki resme bakın.

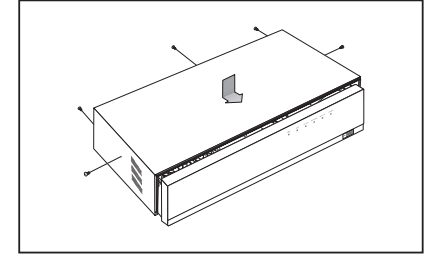


<XRN-2010/2010A/3010/3010A/1610/1610A>



<XRN-1610S/1610SA>

6. Herhangi bir sorun olup olmadığını görmek için ürünün bağlantı terminalini ve kablolarını kontrol edin, kapağı kapatın ve vidalarla sabitleyin.

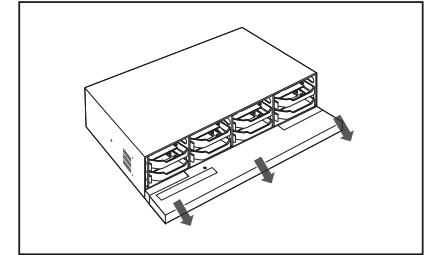


XRN-2011/2011A modeline sabit disk takılması

1. Ön kapağı açın ve sabit disk montaj desteğini kontrol edin.



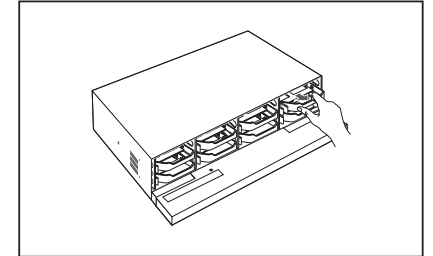
- USB portunun zarar görmesini önlemek için, ön kapağı açmadan önce USB bağlantısını serbest bırakın.



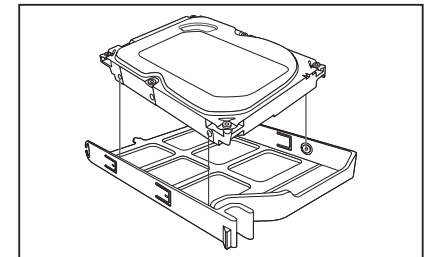
2. Sürgüyü sağa doğru itin ve sabit disk desteğini çıkarın.



- Sabit disk desteğini çıkarırken ellerinizi çizmemeye dikkat edin.



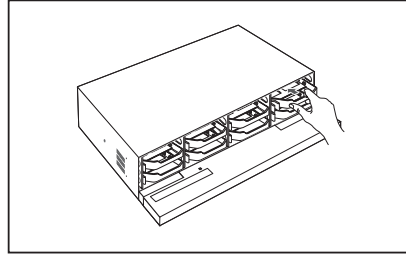
3. Sabit diski destek yuvasına hizalayıp takın. Bir tarafını taktıktan sonra, diğer tarafını hafifçe iterek takın.



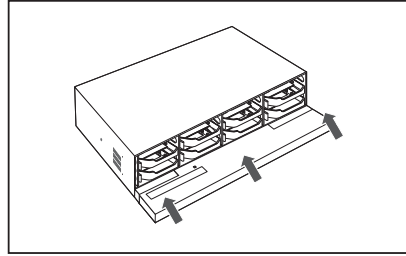
4. Sabit sürücü yerleştirilmiş olan desteği kapama sürgüsüyle hizalayın ve desteği panel yönünde itin.



- Sürgünün kilitlendiğini belirten sesi duyuncaya kadar itmeye devam edin. Sabit disk bağlantısının tam olarak yapılmadığı tespit edilebilir.



5. Ön kapağı yukarı doğru iterek kapatın.



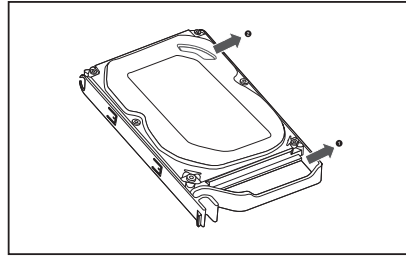
• Takılmış olan bir sabit diskin değiştirilmesi

1. Desteği ok yönünde açarak tutucuyu sabit diskten çıkarın.

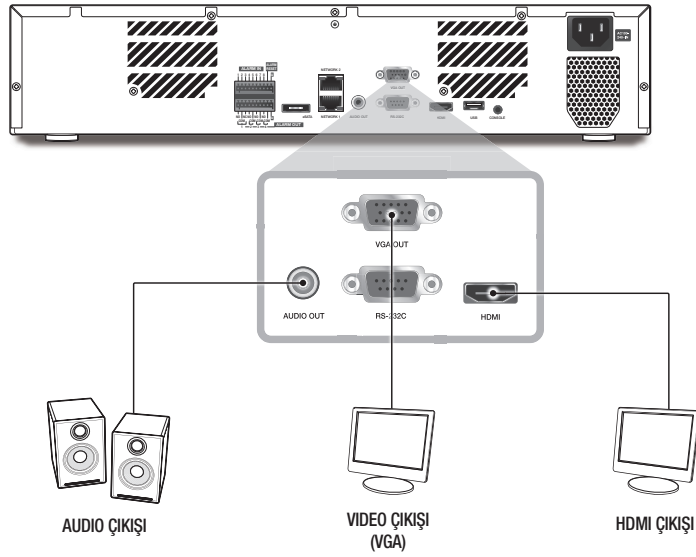
2. Diğer desteği açın ve tutucudan çıkarın.



- Bu aşamadan sonra sabit diskin değiştirilmesi için izlenecek prosedür "HDD'nin Kurulması" prosedürüyle aynıdır.



HARICI BİR CİHAZLA BAĞLANTI KURMA

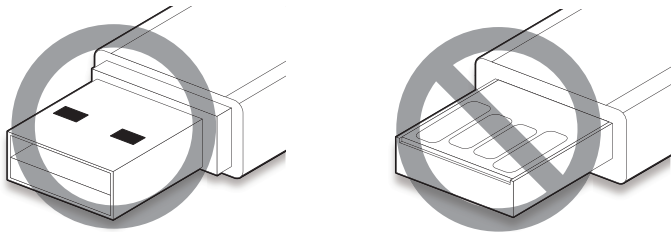


- ! Derecelendirilmemiş veya uygun olmayan güç kaynağı sisteme zarar verebilir. Güç düğmesine basmadan önce sadece derecelendirilmiş güç kaynağı kullandığınızdan emin olun.

USB'YI BAĞLAMA

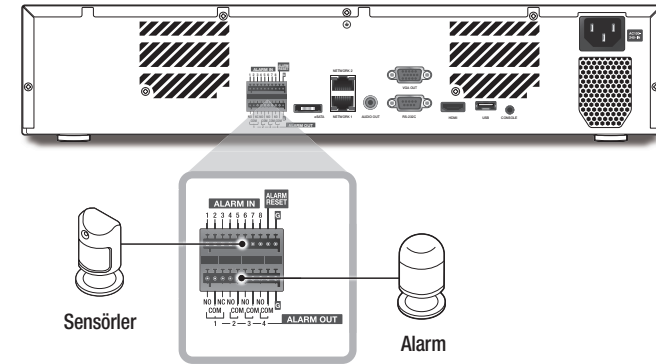
1. Ürünün ön kısmında bir USB portu vardır.
2. USB portuna USB HDD, USB bellek veya fareyi bağlayabilirsiniz.
3. USB HDD'niz sisteme bağlıysa algılanabilir ve Wisenet NVR Kullanım Kılavuzu'nun "Menü > Aygıt > Depolama Cihazı" kısmındaki adımlar izlenerek ayarlanabilir.
4. Ürün, sistem çalıştırılırken USB cihazların bağlanması/bağlantıların kesilmesini sağlayan çalışırken takıp çıkarma işlevini destekler.

- ! USB cihazını Yedekleme amaçları için kullanıyorsanız, NVR'de formatlanmadıysa bilgisayarda FAT32 ile formatlayın.
- Uyumluluk sorunları nedeniyle bazı USB cihazları düzgün çalışmayabilir, lütfen kullanmadan önce cihazı kontrol edin.
- Sadece standartlara uygun (metal kapaklı) USB saklama cihazları veri transferi için garantilidir.
- USB cihazın elektrik kontaktlarının yıpranması durumunda cihazlar arasındaki veri transferi düzgün çalışmayabilir.

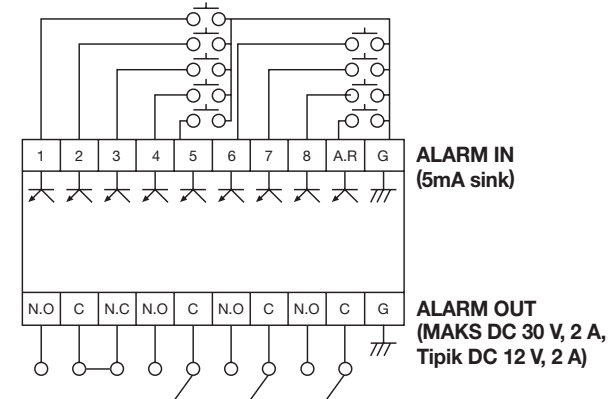


ALARM GİRİŞİNE/ÇIKIŞINA BAĞLAMA

Arkadaki Alarm Giriş/Çıkış portu şunlardan oluşmaktadır.



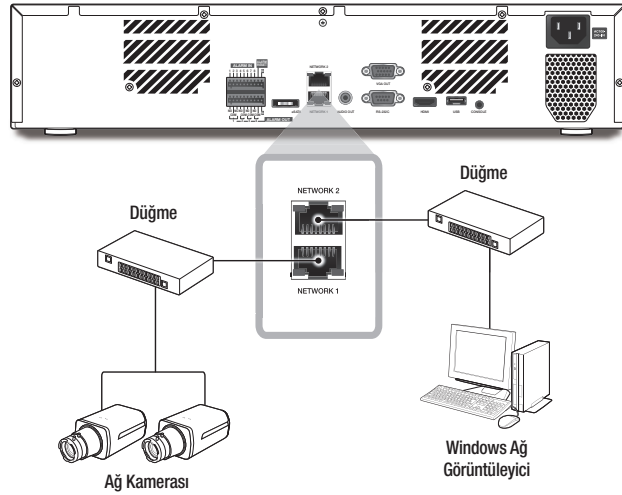
- ALARM IN 1 ~ 8 : Alarm Girişi Bağlantı Noktası
- ALARM RESET : Bir Alarm sıfırlama sinyali aldığı anda sistem mevcut Alarm Girişini iptal eder ve algılamayı sürdürür.
- ALARM OUT 1 ~ 4 : Alarm Çıkışı Bağlantı Noktası



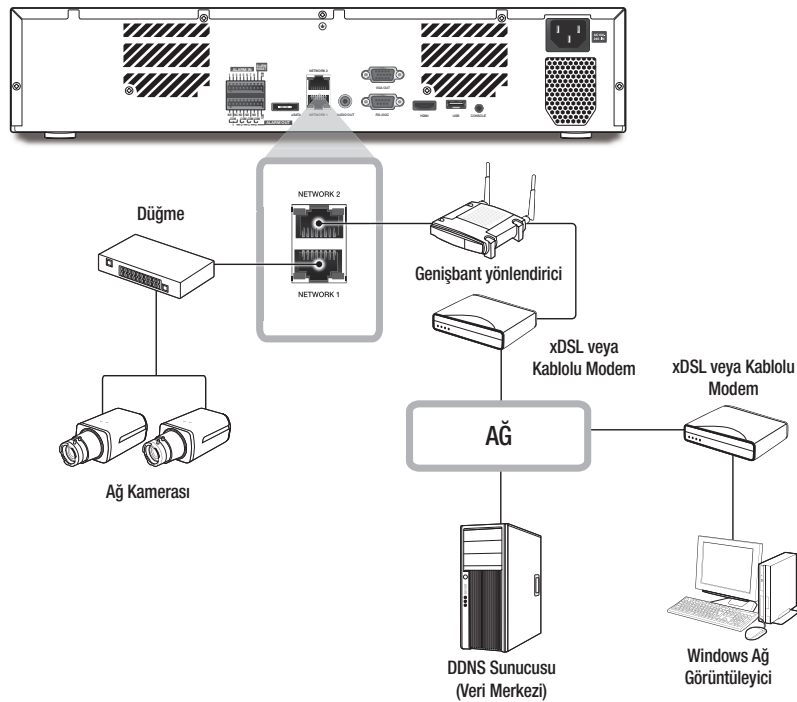
AĞ BAĞLANTISININ YAPILMASI

■ Ağ bağlantısı hakkında daha fazla bilgi için, Wisenet NVR Kullanım Kılavuzu'nda "Ağ Yapılandırma" kısmına bakın.

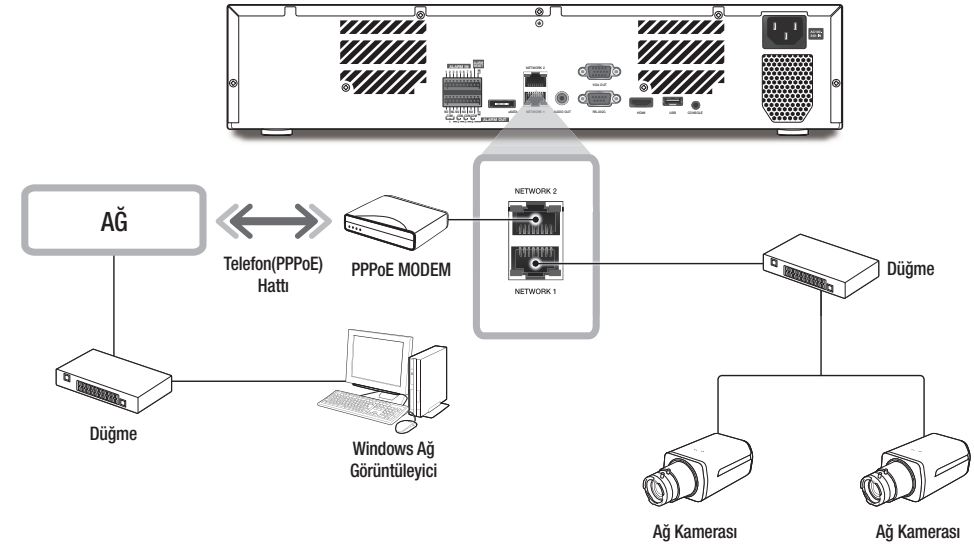
Ethernet (10/100/1000BaseT) aracılığıyla ağ bağlantısı



Yönlendirici aracılığıyla ağ bağlantısı

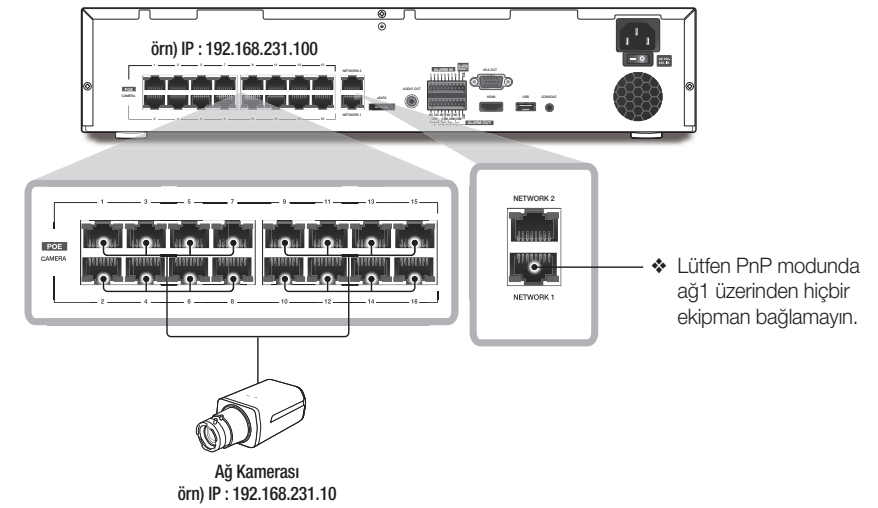


PPPoE üzerinden İnternete bağlanma



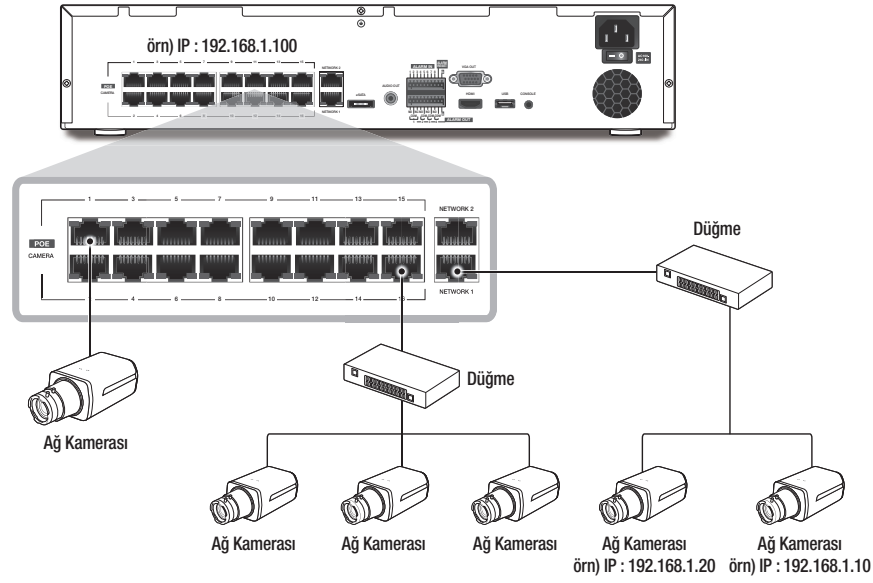
Ağ kamerasını bağlama (XRN-1610S/1610SA)

Örn. 1)

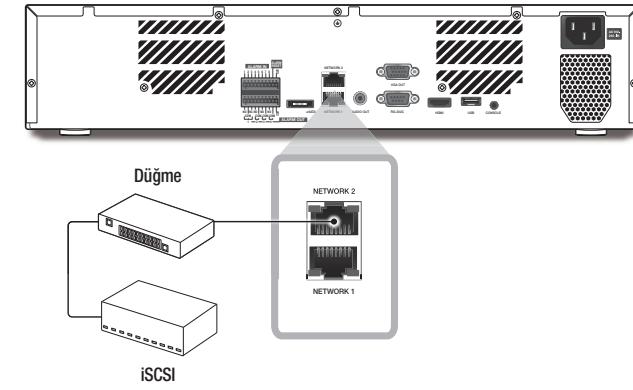


❖ Lütfen PnP modunda ağ1 üzerinden hiçbir ekipman bağlamayın.

Örn. 2)

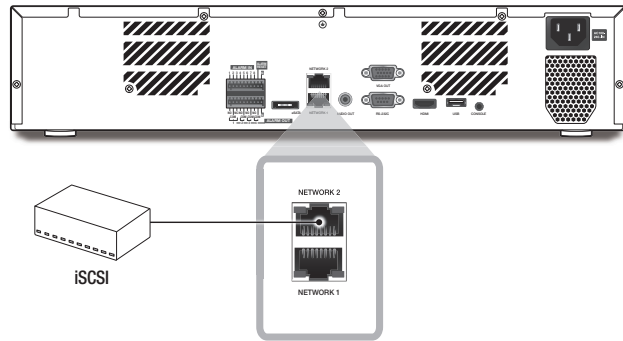


Bağlantı için bir anahtar kullanılabilir



ISCSI'NİN BAĞLANMASI

Doğrudan NVR'ye bağlama



• XRN-2010/2011/2010A/2011A

Öge		Ayrıntı	
		XRN-2010/2010A	XRN-2011/2011A
Ekran			
Ağ Kamerası	Girişler	Maks. 32KNL	
	Çözünürlük	CIF ~ 12MP	
	Protokoller	Wisenet, ONVIF	
Canlı	Yerel Ekran	1x HDMI / 1x VGA	
Performans			
İşletim Sistemi	Gömülü	Linux	
Kayıt	Sıkıştırma	H.265, H.264, MJPEG	
	Kayıt Bant Genişliği	Maks. 256Mbps(2MP 32 kamera gerçek zamanlı kayıt)	Maks. 100Mbps(RAID-5 Modu)
	Çözünürlük	CIF ~ 12MP	
Ara ve Oynat	Oynatma Bant Genişliği	32Mb/sn(16kn eşzamanlı)	
	Eşzamanlı oynatma	16 kanal(Yerel Monitör, CMS)	
	Çözünürlük	CIF ~ 12MP	
	Oynatma Kontrolü	Hızlı/Yavaş İleri/Geri, Bir adım yukarı git /Bir adım aşağı git	
Depolama	Dahili	1ADET	
	Dahili Sabit Disk	8 (RAID5 : Hot Swap) - Maks. 48TB(Non-RAID), Maks. 36TB(RAID-5)	
	Harici	iSCSI depolama (Maks. 384TB)	
	RAID	-	XRN-2011 : RAID-5 (Dizi Boyutu : 4-HDD x 2 Dizi)
Yedekleme	Dosya yedekleme (Web üzerinden)	BU/Exe(GUI), JPG/AVI(Ağ)	
	İşlev	Maks. 16KN Oynatma, Tarih-Saat/Başlık görüntüleme	

Öge		Ayrıntı	
		XRN-2010/2010A	XRN-2011/2011A
Sensör	G/Ç	8/4 (NO/NC Seçilebilir)	
Ses	Giriş	32 kanal (ağ)	
	Sıkıştırma	G.711 , G.726, AAC(16/48KHz)	
	Ses İletişimi	2 Yönlü	
Ağ			
Arabirim		RJ-45, Gigabit Ethernet x2	
Protokol		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Sunucu, İstemci), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Sunucu, İstemci)	
DDNS		Hanwha DDNS	
Toplam verim Bant Genişliği		512Mbps(iSCSI Kapalı), 256Mbps(iSCSI Açık)	
Maks. Uzak Kullanıcı		Arama(3) / Canlı tekli yayın(10) / Canlı çoklu yayın(20)	
IP Sürümü		IPv4/v6	
Güvenlik		Kullanıcı erişimi Günlüğü, IP Filtreleme, 802.1x, Şifreleme	
Dil		İngilizce, Fransızca, Almanca, İtalyanca, İspanyolca, Rusça, Türkçe, Lehçe, Flemenkçe, İsveççe, Çekçe, Portekizce, Danca, Rumence, Sırpça, Hırvatça, Macarca, Yunanca, Norveççe, Fince, Korece, Çince, Japonca, Tayca	
İşletim Sistemi		Windows 7, 8.1, 10, Mac OS X 10.9, 10.10, 10.11	
Web Tarayıcı		MS IE, Google Chrome, Mac Safari	
Görüntüleyici Yazılımı	Tür	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer	
	CMS Desteği	SDK/CGI	
Akıllı telefon	Destek Model	Android, iOS	
	Protokol Desteği	RTP, RTSP, HTTP, CGI	
	Kontrol	Canlı(16kn) / Oynatma(1kn)	
	Maks. Uzak Kullanıcı	Arama(3) / Canlı tekli yayın(10)	

Öge		Ayrıntı	
		XRN-2010/2010A	XRN-2011/2011A
İşlevler			
PTZ	Kontrol	GUI, Webviewer ile, SPC-2000	
	Önayar	300 Önayar	
Yedeklilik	Yük Devri	32 (Normal) + 1 (Bekleme)	
	ARB	Evet	
Sistem Kontrolü		Fare, Web, SPC-2000 (Denetçisi)	
Gösterge/Arabirim			
Ön	Gösterge	LED Durum göstergesi : Sabit Disk Eylemi(1), Alarm(1), Güç(1), Kayıt(1), Yedekleme(1), Ağ(1)	LED Durum göstergesi : Sabit Disk Eylemi(1), Alarm(1), Güç(1), Kayıt(1), RAID(1), Ağ(1)
	Anahtar	YOK	
Konektörler	VGA	1ADET (16'ya kadar bölünmüş ekran modu Canlı Desteği)	
	HDMI	1ADET (Canlı/PB/Kurulum desteği) - Maks. 4K desteği (3840 x 2160)	
Konektörler	Ses	Çıkış(1ADET, RCA, Hat)	
	Ethernet	RJ-45 2EA (LAN/WAN, 1Gbps)	
	Alarm	1) Giriş(8ADET, Terminal Bloğu) 2) Alarm Reset(1ADET) 3) Çıkış(4ADET, Terminal Bloğu) - Relay Out1(NO/NC/COM) - Relay Out2~4(NO/COM)	
	USB	2ADET (Ön1, Arka1(USB3.0))	
	Depolama	1 e-SATA	
	Seri No	RS-232C	
	Sıfırlama	-	
	Güç Kablosu	1ADET AC Girişi	

Öge		Ayrıntı	
		XRN-2010/2010A	XRN-2011/2011A
Sistem			
Günlük	Günlük Listesi	Maks. 20000 (her birinde Sistem Günlüğü, Olay Günlüğü)	
Çevresel			
Çalışma Sıcaklığı / Nemi		+0°C ila +40°C (+32°F ila +104°F)	
Nem		%20 ~ %85 RH	
Elektrik			
Güç		100 ila 240 VAC ±%10; 50/60 Hz, 4~1.5A	
Güç Tüketimi		99W (6TB HDD x 8ADET)	
Mekanik			
Renk / Malzeme		Siyah / Metal	
Boyutlar (GxYxD)		440x88x384.8 (17.32" x 3.46" x 15.15") (2U)	
Ağırlık		4.86 kg (HDD üzerindeki numaraya bağlıdır)	5.43 kg (HDD üzerindeki numaraya bağlıdır)
Standartlar			
Onaylar		UL, FCC, KC, CB, CE-EMC, CCC, EAC, PSE	

Sabit disk durumu için kayıt performansı özellikleri

No	Sabit disk durumu	Alma (Mb/sn)	Kayıt (Mb/sn)	
			Dahili	iSCSI
1	CE için sabit disk / RAID dışı	256	256	-
2	CE için sabit disk / RAID 5	100	100	-
3	Sunucu için sabit disk / Non RAID	256	256	256
4	Sunucu için sabit disk / RAID 5	100	100	100

• XRN-3010/3010A

Öge		Ayrıntı
Ekran		
Ağ Kamerası	Girişler	Maks. 64KNL
	Çözünürlük	CIF ~ 12MP
	Protokoller	Wisenet, ONVIF
Canlı	Yerel Ekran	1x HDMI / 1x VGA Çift Monitör
	Çok Kanallı Ekran	Yerel Monitör : 1 / 2V / 3V / 4 / 9 / 16 / 25 / 36 / Sırasıyla Web : 1 / 4 / 9 / 16 / 25 / 36 / 64 / Sırasıyla
	Performans	[Yerel Monitör] - 12M (30fps) - 8.3M (120fps) - 1080p (480fps) - 720P (960fps) - D1 (1560fps)
Performans		
İşletim Sistemi	Gömülü	Linux
Kayıt	Sıkıştırma	H.265, H.264, MJPEG, WiseStream(H.265, H.264)
	Kayıt Bant Genişliği	Maks. 300Mbps
	Çözünürlük	CIF ~ 12MP
Ara ve Oynat	Oynatma Bant Genişliği	32Mb/sn(16kn eşzamanlı)
	Kullanıcı	Maks. 4 Kullanıcı (Yerel 1, Uzak 3)
	Eşzamanlı oynatma	Maks. 16 kanal(Yerel Monitör, CMS)
	Çözünürlük	CIF ~ 12MP
	Balık gözü bozulma giderme	Web / CMS
	Oynatma Kontrolü	Hızlı/Yavaş İleri/Geri, Bir adım yukarı git /Bir adım aşağı git
Depolama	Dahili	0TB ~ 8TB
	Dahili Sabit Disk	8 (Maks. 64TB)
	Harici	-

Öge		Ayrıntı
Yedekleme	Dosya yedekleme (Web üzerinden)	BU/Exe(GUI), JPG/AVI(Ağ)
	İşlev	Çoklu Kanal (16 Knl'a Kadar) Oynatma, Tarih - Saat/Başlık görüntüleme
Sensör	G/Ç	8/4 (NO/NC Seçilebilir)
Ses	Giriş	64 kanal (ağ)
	Sıkıştırma	G.711, G.726, AAC(16/48KHz)
	Ses İletişimi	2 Yönlü
Ağ		
Arabirim		RJ-45, Gigabit Ethernet x2
Protokol		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Sunucu, İstemci), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Sunucu, İstemci)
DDNS		Hanwha DDNS
Toplam verim Bant Genişliği		XRN-3010 : 512Mbps XRN-3010A : 512Mbps(P2P Off), 256Mbps(P2P On)
Maks. Uzak Kullanıcı		Arama(3) / Canlı tekli yayın(10) / Çoğa Gönderim(20)
IP Sürümü		IPv4/v6
Güvenlik		Kullanıcı erişimi Günlüğü, IP Filtreleme, 802.1x, Şifreleme
Dil		İngilizce, Fransızca, Almanca, İtalyanca, İspanyolca, Rusça, Türkçe, Lehçe, Flemenkçe, İsveççe, Çekçe, Portekizce, Danca, Rumence, Sırpça, Hırvatça, Macarca, Yunanca, Norveççe, Fince, Korece, Çince, Japonca, Tayca
İşletim Sistemi		Window 7, 8, 10, Mac OS X(10.8 veya üstü)
Web Tarayıcı		MS IE, Google Chrome, Mac Safari
Görüntüleyici Yazılımı	Tür	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer
	CMS Desteği	SDK/CGI (SUNAPI)
İşlevler		
PTZ	Kontrol	GUI, Webviewer ile, SPC-2000
	Önayar	300 Önayar

Öge		Ayrıntı
Akıllı telefon	Destek Model	Android, iOS
	Protokol Desteği	RTP, RTSP, HTTP, CGI(SUNAPI)
	Kontrol	Canlı(16kn) : Çoklu Profil Desteği Oynatma(1kn)
	Maks. Uzak Kullanıcı	Arama(3) / Canlı tekli yayın(10) / Çoğa Gönderim(20)
Yedeklilik	Yük Devri	N+1 (Include Fail-Back)
	ARB	Evet
Sistem Kontrolü		Fare, Web, SPC-2000 (Denetçisi)
Gösterge/Arabirim		
Ön	Gösterge	LED Durum göstergesi : (6ADET) : Sabit Disk Eylemi(1), Alarm(1), Güç(1), Kayıt(1), Yedekleme(1), Ağ(1)
Konektörler	VGA	Alt : 1ADET (16 bölmeli moda kadar Canlı ekran desteği)
	HDMI	Ana: 1ADET (Canlı / PB Desteği / Kurulum) - 4K'ya kadar çözünürlük desteği (3840 x 2160, Tek Monitör Modu)
Konektörler	Ses	Çıkış(1ADET, RCA, Hat)
	Ethernet	RJ-45 2EA (LAN/WAN, 1Gbps)
	Alarm	1) Giriş(8ADET, Terminal Bloğu) 2) Alarm Reset(1ADET) 3) Çıkış(4ADET, Terminal Bloğu) - Relay Out1(NO/NC/COM) - Relay Out2~4(NO/COM)
	USB	2ADET (Ön1, Arka1)
	Depolama	1 e-SATA
	Seri No	RS-232C
	Sıfırlama	Anahtar(1ADET)
	Güç Kablosu	1ADET AC Girişi

Öge		Ayrıntı
Sistem		
Günlük	Günlük Listesi	Maks. 20000 (her birinde Sistem Günlüğü, Olay Günlüğü)
Çevresel		
Çalışma Sıcaklığı / Nemi		+0°C ila +40°C (+32°F ila +104°F)
Nem		%20 ~ %85 RH
Elektrik		
Güç		100 ila 240 VAC ±%10; 50/60 Hz, 4~1.5A
Güç Tüketimi		Maks. 99W (338BTU, 6TB HDD x 8ADET)
Mekanik		
Renk / Malzeme		Siyah / Metal
Boyutlar (GxYxD)		G 440x Y 88x D 384.8 (17.32" x 3.46" x 15.15") (2U)
Ağırlık		4.86Kg (10.71 lb, HDD hariç)

Sabit disk durumu için kayıt performansı özellikleri

Mod	HDD durumu	Kayıt
		Dahili
Genel mod	-	150
Dağıtık mod	1 HDD	150
	2 veya daha fazla HDD	300

ürün teknik özellikleri

WISeNET

• XRN-1610/1610S/1610A/1610SA

Öge		Ayrıntı	
		XRN-1610/1610A	XRN-1610S/1610SA
Ekran			
Ağ Kamerası	Girişler	Maks. 16KNL	
	Çözünürlük	CIF ~ 12MP	
	Protokoller	Wisenet, ONVIF	
Canlı	Yerel Ekran	1x HDMI / 1x VGA Çift Monitör	
	Çok Kanallı Ekran	Monitör : 1 / 2V / 3V / 4 / 6 / 8 / 9 / 13 / 16 / Otomatik Sıralama Web : 1 / 4 / 9 / 16 / Otomatik Sıralama	
	Performans	[Yerel Monitör] 12MP (30fps) 8MP(120fps) 5MP(180fps), 3MP(240fps), 2MP(480fps), 720p(480fps), D1(480fps) [Web] 5MP(30fps), 3MP(60fps), 2MP(120fps), 720p(240fps), D1(480fps)	
Performans			
İşletim Sistemi	Gömülü	Linux	
Kayıt	Sıkıştırma	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	Kayıt Bant Genişliği	180Mbps	
	Çözünürlük	CIF ~ 12MP	
Ara ve Oynat	Oynatma Bant Genişliği	32Mb/sn(16kn eşzamanlı)	
	Performans	Maks. 4 Kullanıcı (Set 1, Uzak 3)	
	Eşzamanlı oynatma	16 kanala kadar (Yerel, Ağ)	
	Çözünürlük	CIF ~ 12MP	
	Balık Gözü Bozulma Giderme	WEB / CMS	
	Oynatma Kontrolü	Hızlı/Yavaş İleri/Geri, Bir adım yukarı git /Bir adım aşağı git	
Depolama	Varsayılan Dahili	0TB ~ 6TB	
	Dahili	8 SATA (Maks. 48TB)	4 SATA (Maks. 24TB)
	Harici	1 e-SATA, iSCSI(Maks. 384TB)	
Yedekleme	Dosya biçimi	BU/Exe(GUI), JPG/AVI(Ağ)	
	İşlev	Maks. 16KN Oynatma, Tarih-Saat/Başlık görüntüleme	

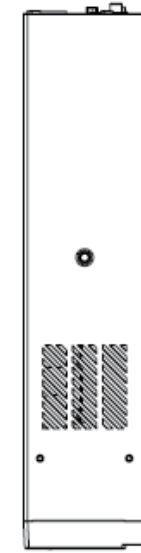
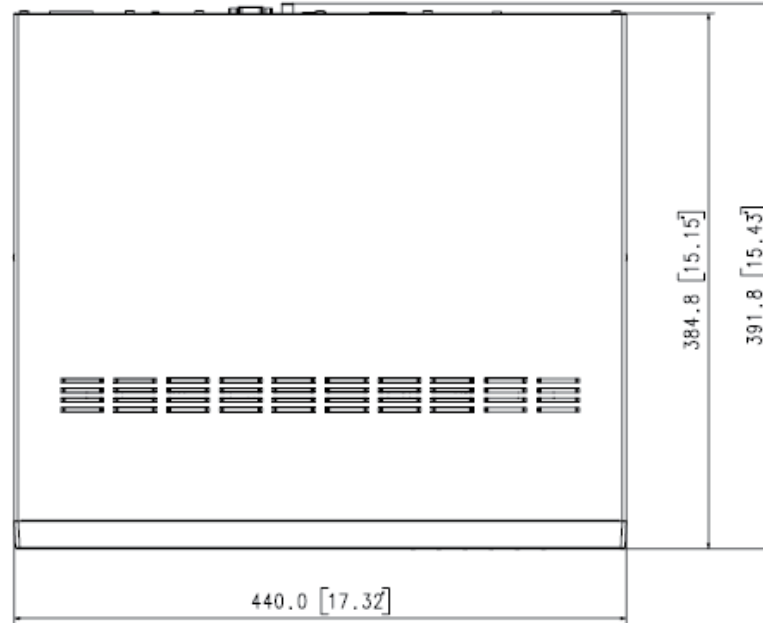
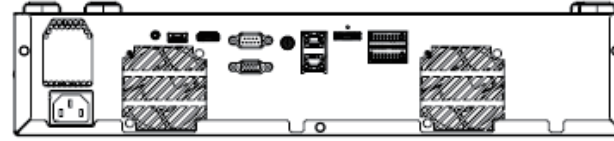
Öge		Ayrıntı	
		XRN-1610/1610A	XRN-1610S/1610SA
Sensör	G/Ç	8/4 (NO/NC Seçilebilir)	
Ses	Giriş	16 kanal (ağ)	
	Sıkıştırma	G.711, G.726, AAC(16/48KHz)	
	Ses İletişimi	2 Yönlü (kamera ile SSM arası geçiş)	
Ağ			
Protokol		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Sunucu, İstemci), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Sunucu, İstemci)	
DDNS		Hanwha DDNS	
Toplam verim Bant Genişliği		Maks. 256Mbps(iSCSI Kapalı), Maks. 128Mbps(iSCSI Açık)	
Maks. Uzak Kullanıcı		Arama(3) / Canlı tekli yayın(10) / Canlı çoklu yayın(20)	
IP Sürümü		IPv4/v6	
Güvenlik		Kullanıcı erişimi Günlüğü, IP Filtreleme, 802.1x, Şifreleme (Kim./Şifre, Kayıt, İletim, Yedekleme)	
Dil	GUI	İngilizce, Fransızca, Almanca, İtalyanca, İspanyolca, Rusça, Türkçe, Lehçe, Flemenkçe, İsveççe, Çekçe, Portekizce, Danca, Rumence, Sırpça, Hırvatça, Macarca, Yunanca, Norveççe, Fince, Korece, Çince, Japonca, Tayca	
	Web	İngilizce, Fransızca, Almanca, İtalyanca, İspanyolca, Rusça, Türkçe, Lehçe, Flemenkçe, İsveççe, Çekçe, Portekizce, Danca, Rumence, Sırpça, Hırvatça, Macarca, Yunanca, Norveççe, Fince, Korece, Çince, Japonca	
İşletim Sistemi		Windows XP (Service Pack 2 veya üstü), Vista, 7, 8, 10, Mac OS X (10.7 veya üstü)	
Web Tarayıcı		Eklentisiz Webviewer Desteklenen Tarayıcı: Google Chrome 47, MS Edge 20 WMF : 1CH LIVE(800X600), KURULUM Eklenti Webviewer Desteklenen Tarayıcı: MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * Mac OS X sadece	
Görüntüleyici Yazılımı	Tür	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer	
	CMS Desteği	SDK/CGI (SUNAPI)	

Öge		Ayrıntı	
		XRN-1610/1610A	XRN-1610S/1610SA
Akıllı telefon	Destek Model	Android, iOS	
	Protokol Desteği	RTP, RTSP, HTTP, CGI (SUNAPI)	
	Kontrol	Canlı(16Kanal) :Çoklu Profil Desteği / Oynatma(1Kanal, Maks 2MP)	
	Maks. Uzak Kullanıcı	Arama(3) / Canlı tekli yayın(10) / Canlı çoklu yayın(20)	
İşlevler			
Kamera Kontrolü	PoE	-	1) PoE Güç tüketimini izle 2) Her bir PoE kamera için Kontrolü Aç/Kapat 3) Her bir PoE kamera için Uzaktan Sıfırlama
	Zaman Eşitleme	-	PoE Kamera için NVR Zaman Protokolü (NVR zamanını baz alarak Zaman eşitleme)
Kolay Yapılandırma		Kurulum Sihirbazı (Dil, Tarih/Zaman, Ağ, Otomatik Kamera Yapılandırma)	Kurulum Sihirbazı (Dil, Tarih/Zaman, Ağ, Otomatik Kamera Yapılandırma) ※ PnP ve Manuel Modu arasında seçilebilir
ARB (Otomatik Geri Kurtarma Yedeklemesi)		Evet	
PTZ	Kontrol	GUI, Webviewer ile, SPC-2000 (USB)	
	Önayar	300 Önayar	
Sistem Kontrolü	Kontrol Uygulamaları	Fare, IR Remocon, Web, SPC-2000 (USB)	
Gösterge/Arabirim			
Ön	Gösterge	Güç Durum LED'i, 1 adet Sabit Disk Eylem LED'i, 1 adet Alarm Durum LED'i, 1 adet Kayıt Durum LED'i, 1 adet Ağ Eylem LED'i, 1 adet YEDEKLEME Durum LED'i, 1 adet	
Konektörler	VGA	Alt : 1ADET (16 bölmeli moda kadar Canlı ekran desteği)	
	HDMI	Ana: 1 Adet (İkisi de Canlı / PB / Kurulumu Destekler) - 4K'ya kadar destekler (3840 x 2160, Tek Monitör Modeli)	

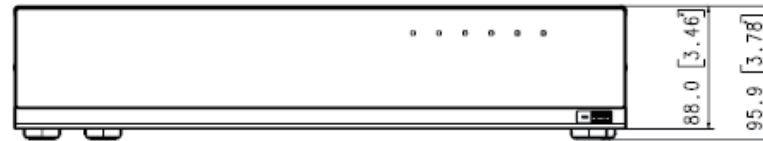
Öge		Ayrıntı	
		XRN-1610/1610A	XRN-1610S/1610SA
Konektörler	Ses	Çıkış 1ADET(RCA, Hat)	
	Ethernet	2Adet (LAN/WAN, 1Gbps) - LAN : Kamera/PoE(PoE+) Hub'a indirme bağlantısı - WAN : CMS'e yükleme bağlantısı	16Adet (PoE(PoE+), 100Mbps) 2Adet (LAN/WAN, 1Gbps) - LAN : Kamera/PoE(PoE+) Hub'a indirme bağlantısı - WAN : CMS'e yükleme bağlantısı
	Alarm	Giriş(8ADET, Terminal Bloğu) Çıkış(4ADET, Terminal Bloğu)	
	USB	2ADET (Ön1, Arka1)	
	Seri No	RS-232C 1 adet (Proje temeli olarak desteklenmesi planlanıyor)	-
	Sıfırlama	Evet (Fabrika Ayarlarına Dön, Alarm Sıfırlama)	
	Güç Kablosu	Dahil	
Sistem			
Günlük	Günlük Listesi	Maks. 20000 (her birinde Sistem Günlüğü, Olay Günlüğü)	
Çevresel			
Çalışma Sıcaklığı / Nemi		+0°C ila +40°C (+32°F ila +104°F)	
Nem		%20 ~ %85 RH	
Elektrik			
Güç Girişi		100 ~ 240V AC	
Güç Tüketimi		Maks 76.3W (8 HDDs)	Maks. 271,9 W (4 HDD, PoE(PoE+) açık), Maks. 51.9 W (4 HDD, PoE(PoE+) kapalı) ※ PoE(PoE+) Bütçe : Maks. 200W
Mekanik			
Renk / Malzeme		Siyah / Metal	
Boyutlar (GxYxD)		440x88x384.8mm (17.32" x 3.46" x 15.15") (2U)	
Ağırlık		5.44kg	5.1kg

- XRN-2010/2011/2010A/2011A

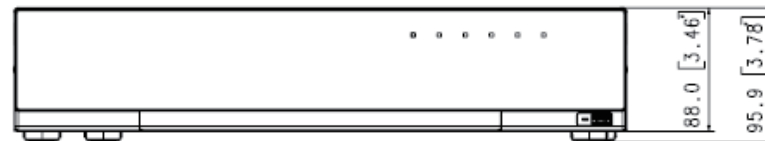
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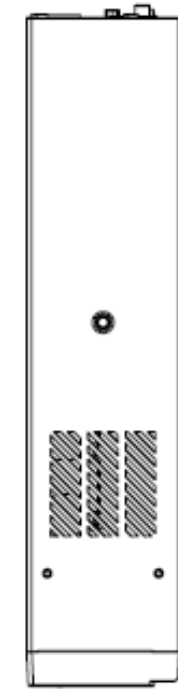
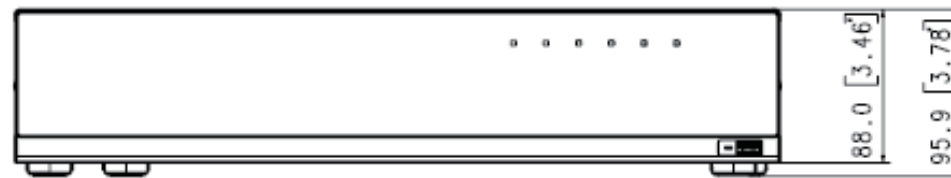
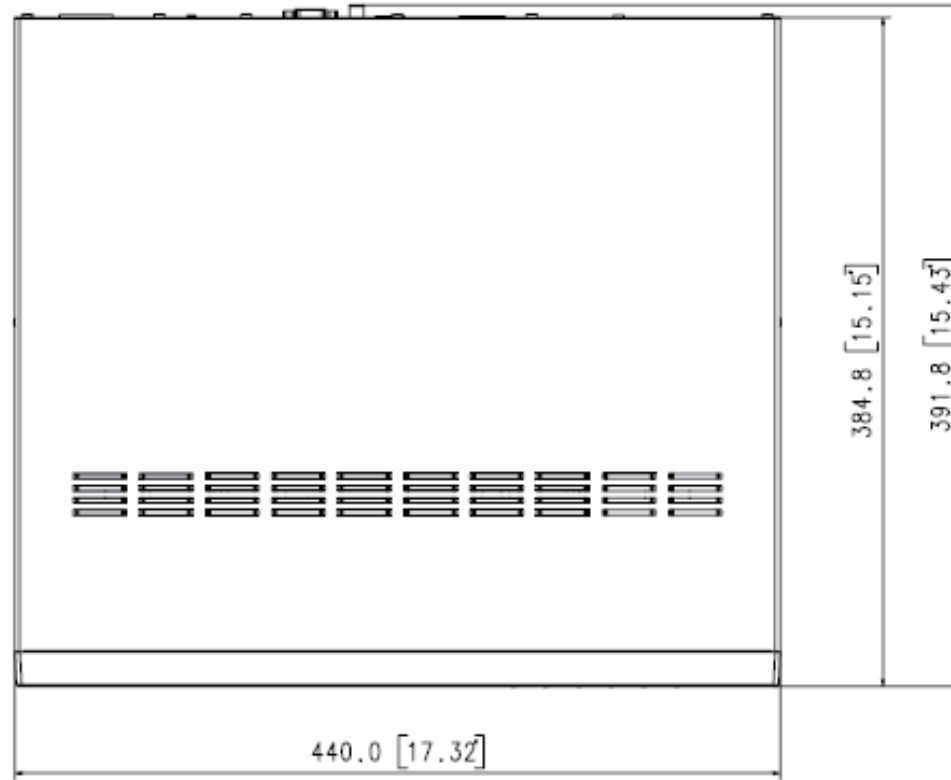
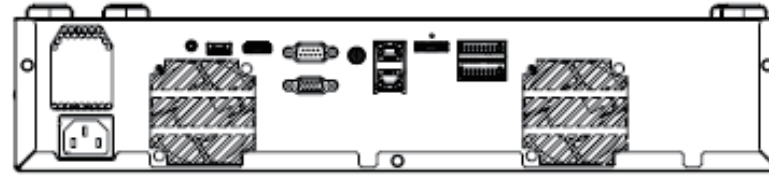


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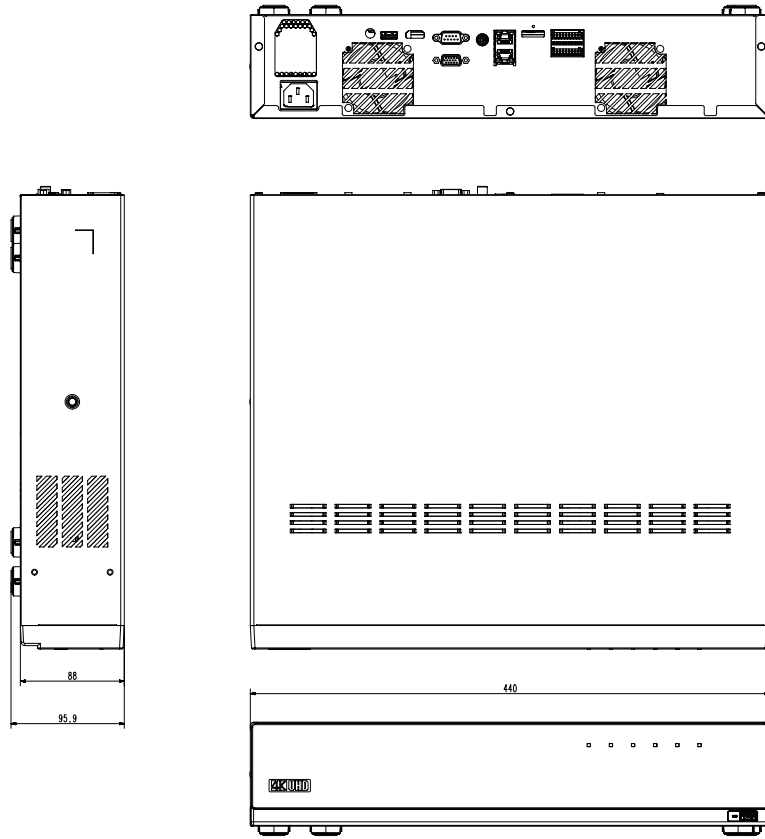
- XRN-3010/3010A

birim: mm (inç)



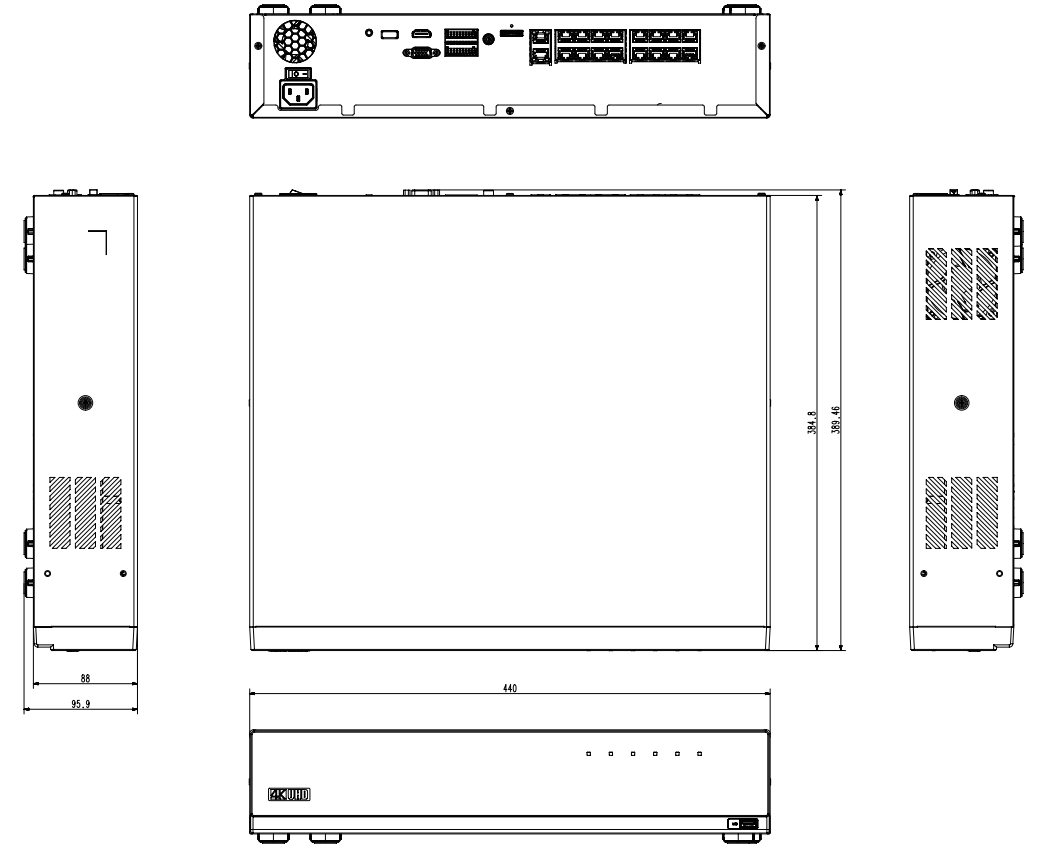
• XRN-1610/1610A

birim: mm (inç)



• XRN-1610S/1610SA

birim: mm (inç)



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- **LGPL Software:** ffmpeg-2.4.3, glibc 2.16, Live555, Qt 4.7.2
- **MPL 1.1:** npapi-sdk
- **BSD 2-Clause License:** FreeBSD
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- **MIT License:** aptechcmstv2, avropendous, cJSON, cJSON-Dave Gamble, dynatree, javascript-ipv6, jqGrid, jQuery UI, jquery-form, jquery-hashchange, jquery-json, jquery-numeric, jquery-throttle-debounce 1.1, JS-Browser-Driver, moon9, noty, Raphael JavaScript Library, wildflower 1.3.Beta
- **libxml2 License:** libxml2 v2.7.7
- **Apache 2.0 License:** RLLib
- **zlib/libpng Lisence:** cximage, HM NIS Edit, Nullsoft Scriptable Install System 2.46, PNG reference library, tinyxml 2.6.2, zlib v1.2.8
- **Boost Software License:** boost 1.57.0
- **Curl License:** curl v7.49.1
- **Microsoft Public License:** Minima, Text Designer Outline Text Library
- **Code Project Open 1.02 License:** CPPSQLite - C++ Wrapper for SQLite, A reusable, high performance, socket server class - Part3
- **JPEG License:** libjpeg-8b
- **RSA MD4 or MD5 Message-Digest Algorithm License:** JavaScript MD5 1.1, sipxtapi
- **PHP License 3.01:** HPHP-2.1.0, php v5.6.33
- **OpenSSL Combined License:** openssl v1.0.2n
- **PCRE 5 License:** pcre v8.39
- **NTP License:** ntp v4.2.8p10
- **CodeIgniter License:** CodeIgniter
- **GLUT for Win32 License:** GLUT for Win32
- **ISC License:** dhcp 4.3-2rc2
- **Brian Gladman Alternate License:** AES with the VIA ACE
- **Acknowledgement:** This product includes modified version of ffmpeg, Live555, Qt 4.7.2, and npapi-sdk.

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Version 2, June 1991

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```

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3. [3]Viraj Bais <vbais@mailman1.intel.com> and [4]Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5

4. [5]Michael Barone <michael.barone@lmco.com> GPSVME fixes

5. [6]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option

6. [7]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

7. [8]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver

8. [9]Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support

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10. [11]Steve Clift <clift@ml.csiro.au> OMEGA clock driver

11. [12]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration

12. [13]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.

13. [14]John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port

14. [15]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port

15. [16]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119

16. [17]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver

17. [18]Mike Iglesias <iglesias@uci.edu> DEC Alpha port

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23. [26]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications

24. [27]Dave Katz <dkatz@cisco.com> RS/6000 AIX port

25. [28]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver

26. [29]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port

27. [30]Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication

28. [31]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

29. [32]David L. Mills <mills@udel.edu> Version 4 foundation: clock discipline, authentication, precision kernel; clock drivers: Spectracom, Austron, Arbiter, Heath, ATOM, ACTS, KSI/Odetics; audio clock drivers: CHU, WWW/H, IRIG

30. [33]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port

31. [34]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility

32. [35]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port

33. [36]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port

34. [37]Derek Mulcahy <derek@toybox.demon.co.uk> and [38]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

35. [39]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

36. [40]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port

37. [41]Wilfredo Sánchez <wsanchez@apple.com> added support for NetInfo

38. [42]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules

39. [43]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

40. [44]Ray Schnitzler <schnitz@unipress.com> Unixware1 port

41. [45]Michael Shields <shields@tembel.org> USNO clock driver

42. [46]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

43. [47]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

44. [48]Kenneth Stone <ken@sdd.hp.com> HP-UX port

45. [49]Ajit Thyagarajan <ajit@ee.udel.edu> IP multicast/anycast support

46. [50]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver

47. [51]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

48. [52]Ulrich Windl <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

[53]gjf

[54]David L. Mills <mills@udel.edu>

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52. mailto:Ulrich.Windl@rz.uni-regensburg.de

53. file://localhost/backroom/ntp-stable/html/index.htm

54. mailto:mills@udel.edu

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