

WISeNeT

AĞ VİDEO KAYDEDİCİ

Ürün Özellikleri Kılavuzu

PRN-4011

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.

Sistem kapatma açılır penceresinde <Tamam> seçeneğine basın ve ardından güvenli kapatmayı sağlamak için 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 verileri 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 ürünlerdeki 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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Şekilsel sembollerin kullanılması

Ekipman üzerinde bulunan şekilsel semboller, bu standart tarafından gerekli olsun veya olmasın, mümkünse IEC 60417 veya ISO 3864-2 veya ISO 7000 ile uyumlu olmalıdır. Uygun sembolün bulunmaması durumunda, üretici özel şekilsel sembol tasarlayabilir.

Ekipman üzerinde bulunan semboller, kullanıcı kılavuzunda açıklanmalıdır.

Sembol	Yayımlama	Açıklama
	IEC60417, No.5032	Alternatif Akım

Her bir özelliği destekleyen NVR ürünleri

İşlev	Ürünler
Fan	PRN-4011
RAID	PRN-4011
iSCSI	PRN-4011
Kumanda kolu	PRN-4011
Uzatılmış monitör	PRN-4011
Güç kaynağı yedekliliği	PRN-4011
Yük Devri	PRN-4011

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	5	İçindekiler
	6	Özellikler
	7	Parça Adları ve İşlevleri (Ön)
	7	Parça Adları ve İşlevleri (Arka)

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	8	Rakın Kurulumu
	8	HDD İlavesi

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DIĞER CİHAZLARLA BAĞLANTI	10	Harici bir cihazla bağlantı kurma
	10	Optik modülün takılması
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	11	Alarm Girişine/Çıkışına Bağlama
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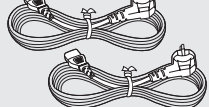
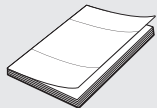
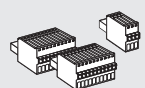
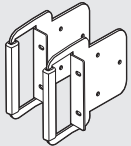
ÖZELLİKLER

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.

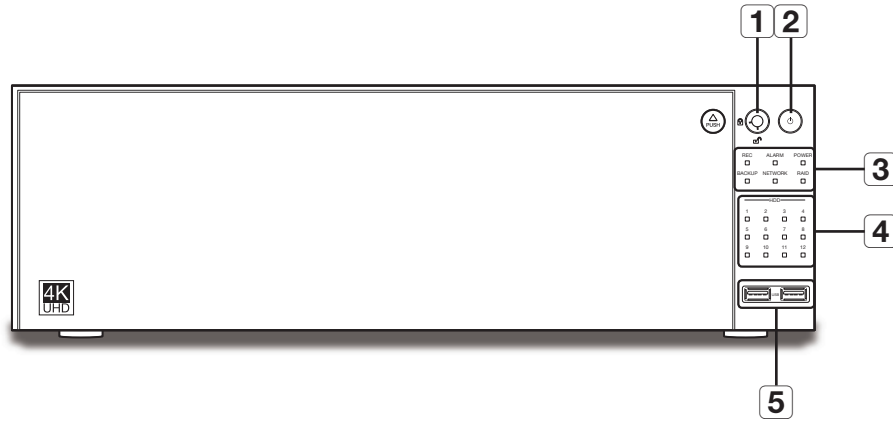
- Kullanıcı dostu UI
- 4K kamera çözünürlük aralığını destekler (3840X2160, 4096X2160, 4000X3000)
- HDMI kullanarak 4K yüksek çözünürlüklü görüntü sağlar
- 64 bölünmüş ekran kod çözme
- Çift monitör çıkışını destekler (genişletme, yinleme)
- Çoklu parolayı destekler
- Video kaydetme ve oynatma
- Ses 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 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)
- Uzak görüntüleyici çoklu profili destekler
- ARB'yi destekler
- Yük Devretmeyi destekler
- Her kanal için depolama periyodunu ayarlamak için kullanılan işlev

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.

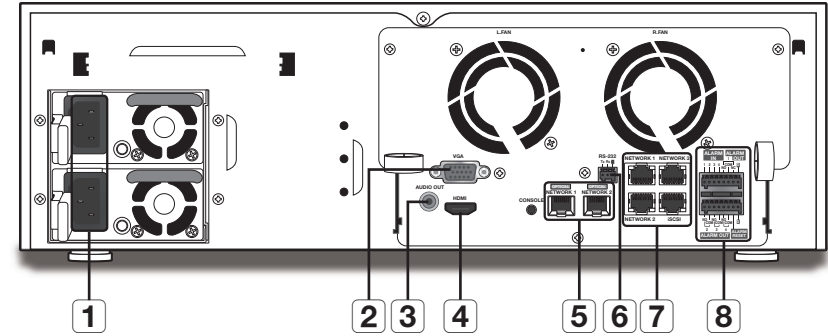
		
NVR	Fare	Güç Kablosu
		
Hızlı Kılavuz	Terminal bloğu	Raf desteği
		
Raf montaj vidası	HDD Sabitleme Vidaları	Sabit disk kilidi

PARÇA ADLARI VE İŞLEVLERİ (ÖN)



Parça Adları	İşlevler
1 Sabit disk kilidi	Sabit diske erişimi kısıtlamak için kullanılan bir kilitleme cihazıdır. Ürünü satın aldığınızda verilen ürün anahtarını kullanın.
2 Güç	AÇMAK/KAPATMAK için kullanılır.
3 LED Göstergesi	REC : Kaydetme devam ederken ışıklar yanar. ALARM : Bir olay olduğunda ışıklar açık. POWER : Güç AÇIK/KAPALI durumunu gösterir. BACKUP : Yedeklemenin sürmekte olduğunu gösterir. NETWORK : Ağ bağlantısının ve veri aktarımının durumunu gösterir. RAID : Devam eden RAID işlemini gösterir.
4 HDD	HDD'ye normal erişimi gösterir. Sabit diske erişilirken LED yanar.
5 USB	USB cihazlarını bağlar.

PARÇA ADLARI VE İŞLEVLERİ (ARKA)



Parça Adları	İşlevler
1 Güç	Gücün bağlanacağı terminal. - Çift güç kaynağıyla olmasına rağmen; yalnızca tek bir güç kaynağı bağlamanız durumunda bile düzgün çalışabilir. Bununla birlikte, cihazın güvenilir şekilde çalışması için ayrı güç kaynakları kullanmanız önerilir. - Hareket esnasında bir sorun ortaya çıkarsa SMPS alarmı duyulur. (yuvarlak yeşil düğmeye basarak alarmı kapatabilirsiniz) - Güç kaynağı bağlı olmasa bile, ilgili SMPS düğmesi LED'i ve SMPS fanı çalıştırılabilir.
2 VGA	VGA Video Sinyali Çıkış Portu.
3 AUDIO OUT	Ses Sinyali Çıkışı Bağlantı Noktası (RCA jakı).
4 HDMI	HDMI konektör portu.
5 OPTICAL NETWORK 1/2	I/F portu optik iletişimler.
6 RS-232C	Seri bağlantı için kablo terminali.
7 NETWORK 1	Kamera bağlantıları için port; kameradan video alır.
7 NETWORK 2	Kamera bağlantıları için port; kameradan video alır.
7 NETWORK 3	Web viewer'a video göndermek için kullanılan port.
7 iSCSI	Harici iSCSI'ye bağlantı yapmak için port.
8 ALARM	- ALARM IN : Alarm giriş portları. (1~4 CH) - ALARM RESET : Alarm Sıfırlama portu - ALARM OUT : Alarm çıkış portları. (1~4 CH)

■ [CONSOLE] yalnızca servis tamiri amacıyla tasarlanmıştır.

Ürünü kullanmadan önce lütfen aşağıdaki hususlara dikkat edin.

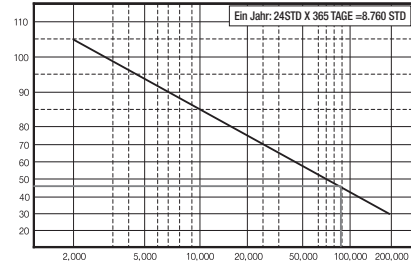
- Ürünü dış mekanda kullanmayın.
- Ürünün bağlantı parçasına su veya sıvı dökmeyin.
- Sistemi aşırı darbeye veya güce maruz bırakmayın.
- Elektrik fişini güç kullanarak çekmeyin.
- Ürünü kendi başınıza sökmeyin.
- Nominal giriş/çıkış aralığını aşmayın.
- Sadece onaylanmış bir güç kablosu kullanın.
- 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 ömrünün kısaltacağını unutmayın (sağdaki şekle bakın). Ürün kurulumunu gerçekleştirmeden önce aşağıdaki talimatları aklınızda tutun.

**Sıcaklık
Birimi: °C**

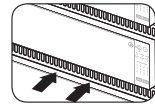
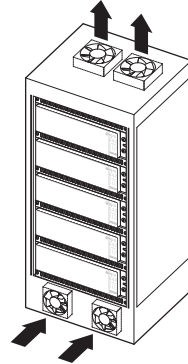


Ömür (Birim: SAAT)

[Şekil 1]

Bu ürünü bir rafa monte ederken aşağıdaki talimatlara uyun.

1. Rak içinin kapatılmamasına 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.

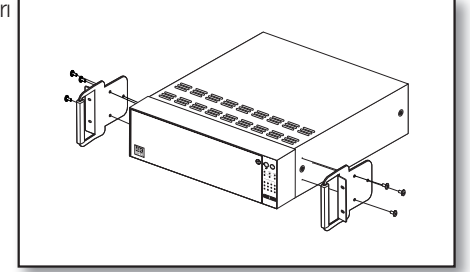


[Şekil 2]

RAKIN KURULUMU

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

- Vidaları titreşimlerden ötürü gevşemeyecek şekilde sıkın.



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 : 12'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 anızalanmaya müsaittir. Lütfen HDD'nin bu tür elektrik şoklarına maruz kalmamasına dikkat edin. Kullanıcının dikkatsizliği veya yanlış kullanımı dolayısıyla HDD'ye gelebilecek hasarlarda sorumluluk kabul etmemekteyiz.

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.

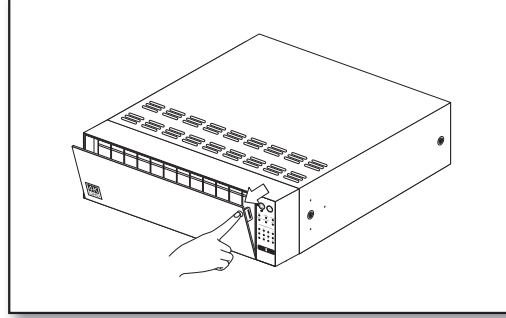
Bir HDD kurulumuyla ilgili uyarılar

1. Sabit diske aşırı güç uygulamayın.
2. Söküm vidalarını ve aksesuarlarını kaybetmemeye dikkat edin.
 - Vida veya aksesuarlar doğru şekilde birleştirilmezse ürün anızalanabilir ya da düzgün çalışmayabilir.
3. Bir HDD eklemekten önce lütfen HDD uyumluluğunu kontrol edin.
 - Uyumlu cihazların bir listesini edinmek için lütfen en yakın bayiye başvurun.
4. Bir HDD'yi değiştirmek veya yeni bir tane eklemek isterseniz, ilk olarak bayiniz veya müşteri hizmetleri ile iletişime geçin.
 - Sadece ürün yöneticisi ön taraftaki HDD kapağını açabilir.

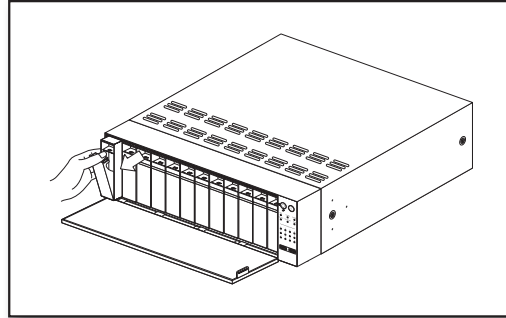
HDD'nin Kurulması

- ! 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.
- İlave bir HDD'nin değiştirilmesi veya kurulması için bayiniz veya müşteri hizmetleri ile iletişime geçin.

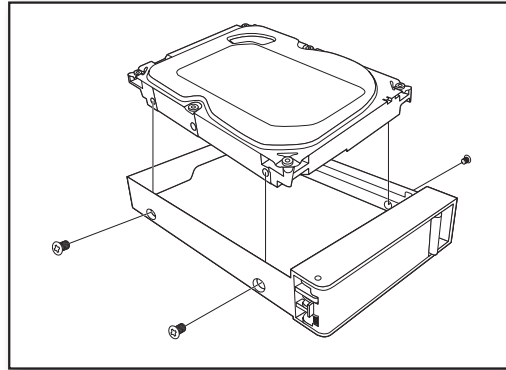
1. Ön kapağı açmak için önde bulunan <PUSH> düğmesine basın.



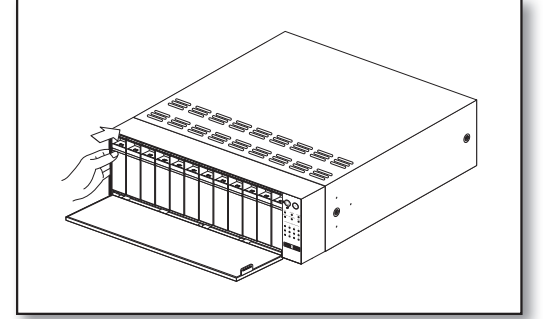
2. Sabit disk desteğindeki mavi düğmeye bastıktan sonra, sabit disk desteğini ana gövdeden ayırmak için desteği elinizle çekin.



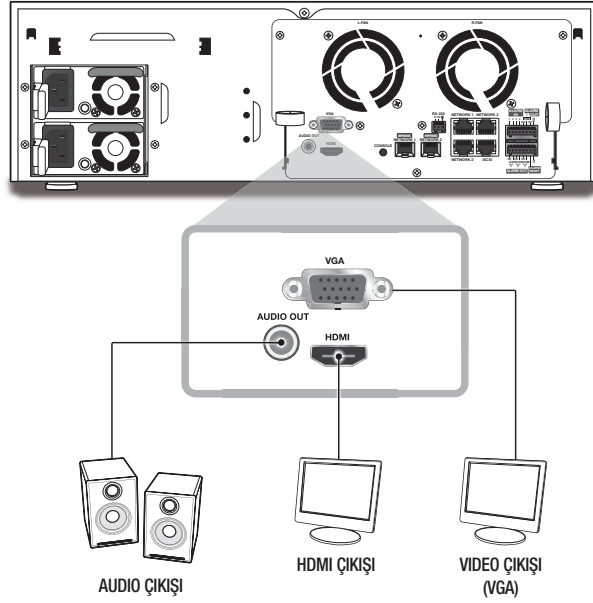
3. Sabit disk desteğine bir sabit disk yerleştirin ve verilen vidaları kullanarak vidalayın.



4. Sabit disk desteğe yerleştirdikten sonra, desteği ana gövdeye itin ve ön kapağı kapatın.



HARICI BİR CİHAZLA BAĞLANTI KURMA

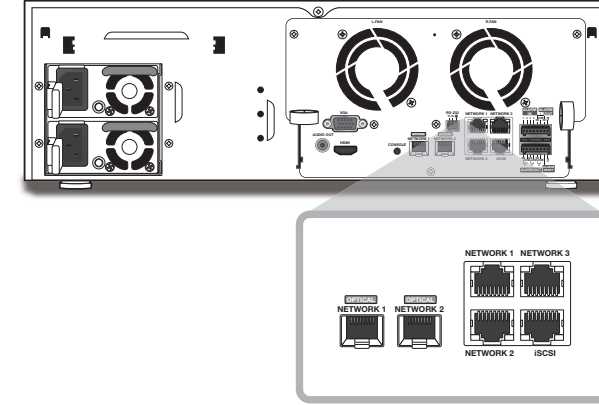


- ! ■ Derecelendirilmemiş veya uygun olmayan güç kaynağı sisteme zarar verebilir. Güç düğmesine basmadan önce sadece derecelendirilmiş güç kaynağı kullandığınızdan emin olun.

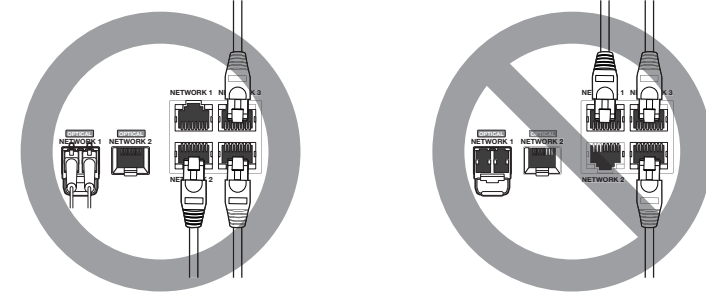
OPTİK MODÜLÜN TAKILMASI

Optik modül için belirlenen güç değeri DC 3,3V, 0,25A'dır.

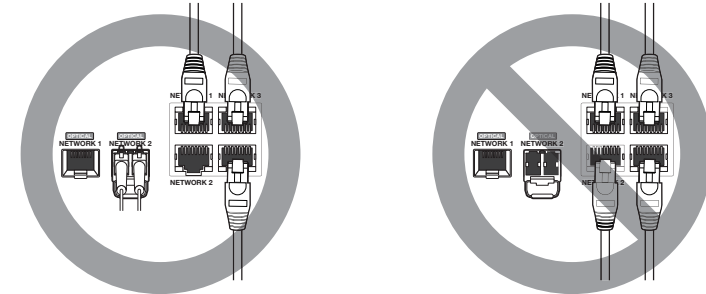
- Optik modül kurulduğunda, UTP port kullanımı kısıtlanır.
■ Sadece gerekli olduğunda optik modülü kullanın.



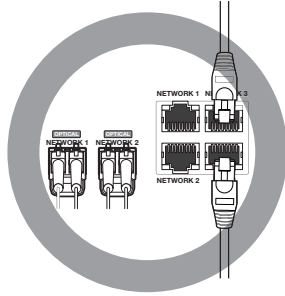
1. [OPTICAL NETWORK1], [NETWORK1] ile paylaşılan bir bağlantı noktasıdır.



2. [OPTICAL NETWORK2], [NETWORK2] ile paylaşılan bir bağlantı noktasıdır.



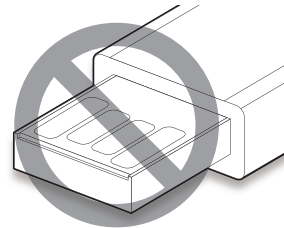
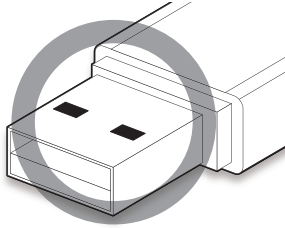
3. [OPTICAL NETWORK1/2], [NETWORK1/2] ile paylaşılan bir bağlantı noktasıdır.



USB'YI BAĞLAMA

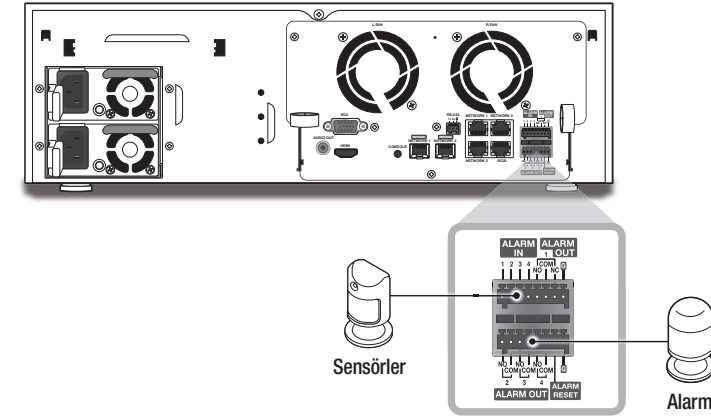
1. Ürünün ön kısmında bir USB portu vardır.
2. USB portuna USB HDD, USB bellek veya fareyi bağlayabilirsiniz.
3. USB HDD'niz sisteme bağlıysa algılanabilir ve Wisenet NVR Kullanım Kılavuzu'nun "Menü > Aygıt > Depolama Cihazı" kısmındaki adımlar izlenerek ayarlanabilir.
4. Ürün, sistem çalışırken USB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

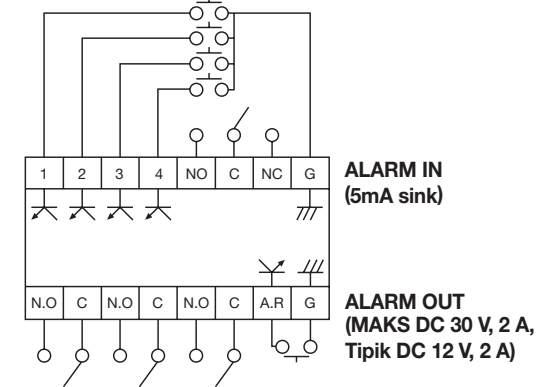


ALARM GİRİŞİNE/ÇIKIŞINA BAĞLAMA

Arkadaki Alarm Giriş/Çıkış portu şunlardan oluşmaktadır.



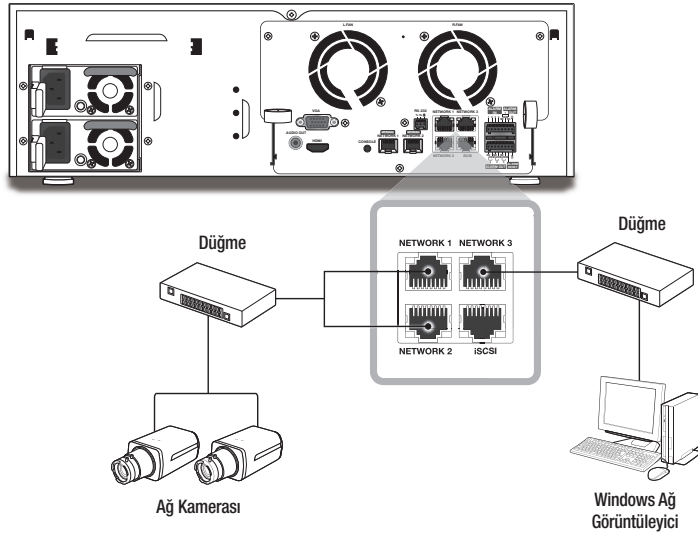
- ALARM IN 1 ~ 4 : Alarm Girişi Bağlantı Noktası
- ALARM RESET : Bir Alarm sıfırlama sinyali aldığı anda sistem mevcut Alarm Girişini iptal eder ve algılamayı sürdürür.
- ALARM OUT 1 ~ 4 : Alarm Çıkışı Bağlantı Noktası



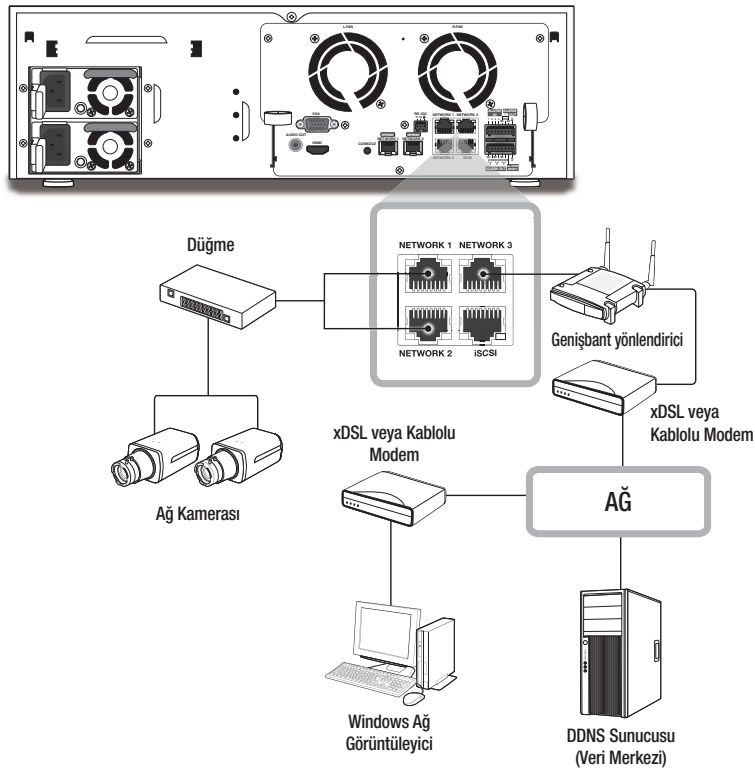
AĞ BAĞLANTISININ YAPILMASI

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

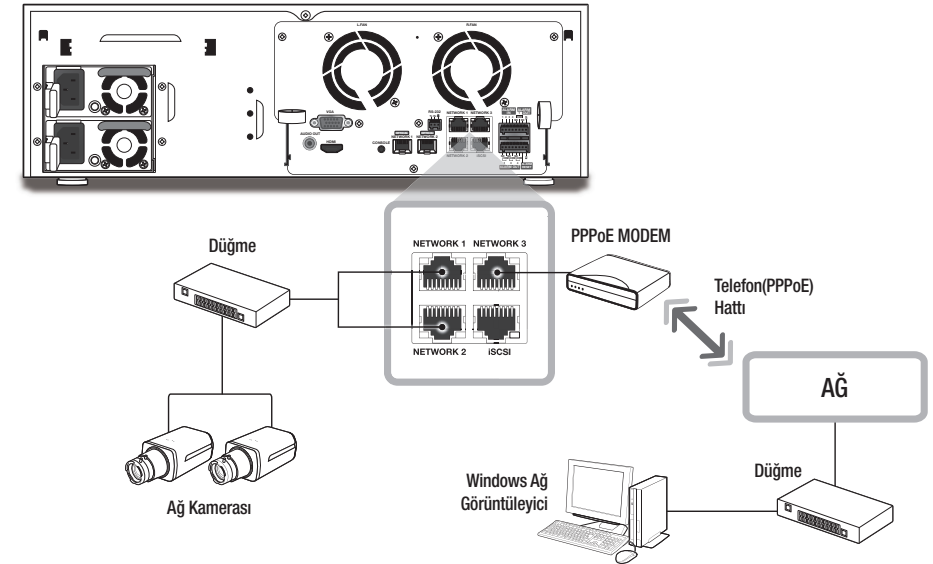
Ethernet (10/100/1000BaseT) aracılığıyla ağ bağlantısı



Yönlendirici aracılığıyla ağ bağlantısı

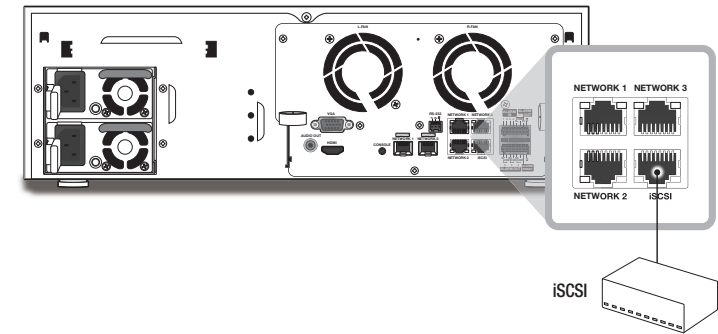


PPPoE üzerinden İnternete bağlanma

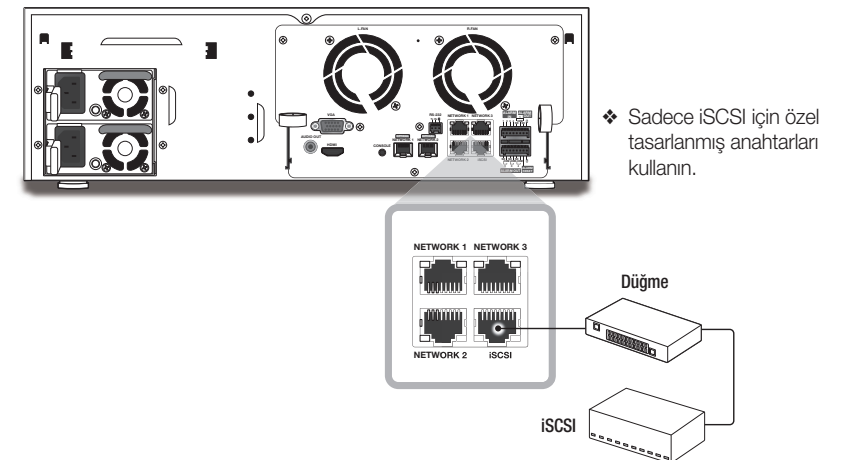


ISCSI'NİN BAĞLANMASI

Doğrudan NVR'ye bağlama



Bağlantı için bir anahtar kullanılabilir



Öge		Ayrıntı
Ekran		
Ağ Kamerası	Girişler	Maks. 64KNL
	Çözünürlük	CIF ~ 12MP
	Protokoller	Wisenet, ONVIF
Canlı	Yerel Ekran	1x HDMI / 1x VGA Çift Monitör
	Performans	[Yerel Monitör] - 12M(30fps) - 8.3M(120fps) - 1080p(480fps) - 720P(960fps) - D1(1920fps)
Performans		
İşletim Sistemi	Gömülü	Linux
Kayıt	Sıkıştırma	H.265, H.264, MJPEG, WiseStream(H.265, H.264)
	Kayıt Bant Genişliği	Maks. 250Mbps (RAID olmayan) Maks. 400Mbps (RAID-5/6)
	Çözünürlük	CIF ~ 12MP
Ara ve Oynat	Oynatma Bant Genişliği	Maks. 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	12 (Maks. 96TB, RAID Modu dışında)
	Harici	iSCSI depolama (Maks. 192TB)
	RAID	RAID-5/6(Dizi Boyutu : 6-HDD x 2 Dizi)
Yedekleme	Dosya yedekleme	BU/Exe(GUI), JPG/AVI(Ağ)
	İşlev	Çoklu Kanal (16 Knl'a Kadar) Oynatma, Tarih - Saat/Başlık görüntüleme

Öge		Ayrıntı
Sensör	G/Ç	4/4 (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) x4, SFP 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
Aktarım Bant Genişliği		Maks. 400Mbps
Maks. Uzak Kullanıcı		Arama(3) / Canlı tekli yayın(10) / Çoğa Gönderim(20)
IP Sürümü		IPv4/v6
Güvenlik		IP adres filtreleme, Kullanıcı erişim logu, 802.1x, Şifreleme, 2 Adam Kuralı
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	3'üncü taraf VMS entegrasyonu için SDK/CGI(SUNAPI) desteği
İşlevler		
PTZ	Kontrol	GUI, Webviewer ile, SPC-2000
	Önayar	300 Önayar
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)

Öge		Ayrıntı
Yedeklilik	Yük Devri	N+1
	ARB	Evet
Sistem Kontrolü		Fare, Web, SPC-2000 (Denetçisi)
Gösterge/Arabirim		
Ön	Gösterge	LED(Durum göstergesi) - Sabit Disk Eylemi(12), RAID Durumu(1), Alarm(1), Güç(1), Kayıt(1), Yedekleme(1), Ağ(1)
Konektörler	VGA	Alt : 1ADET (32 bölmeli moda kadar Canlı ekran desteği)
	HDMI	Ana: 1ADET (Canlı / PB Desteği / Kurulum) - 4K'ya kadar çözünürlük desteği (3840 x 2160, Tek Monitör Modu 64 bölme)
Konektörler	Ses	Çıkış(1ADET, RCA, Hat)
	Ethernet	RJ-45 4ADET (LAN/WAN, 1Gbps), 1000M SFP 2adet
	Alarm	1) Giriş(4ADET, Terminal Bloğu) 2) Alarm Reset(1ADET) 3) Çıkış(4ADET, Terminal Bloğu) - Relay Out1(NO/NC/COM) - Relay Out2~4(NO/COM)
	USB	2ADET (Ön 2)
	Depolama	iSCSI
	Seri No	RS-232C
	Sıfırlama	Anahtar(1ADET)
	Güç Kablosu	2ADET AC Girişi

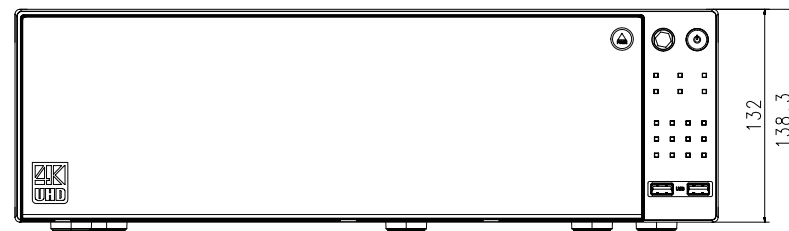
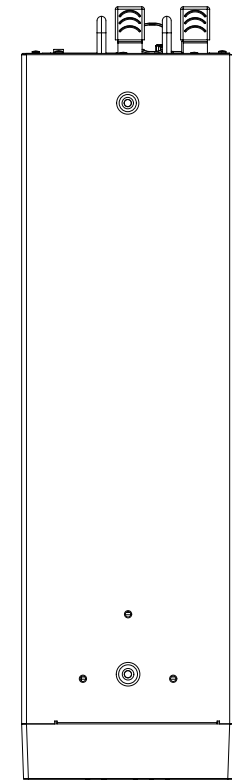
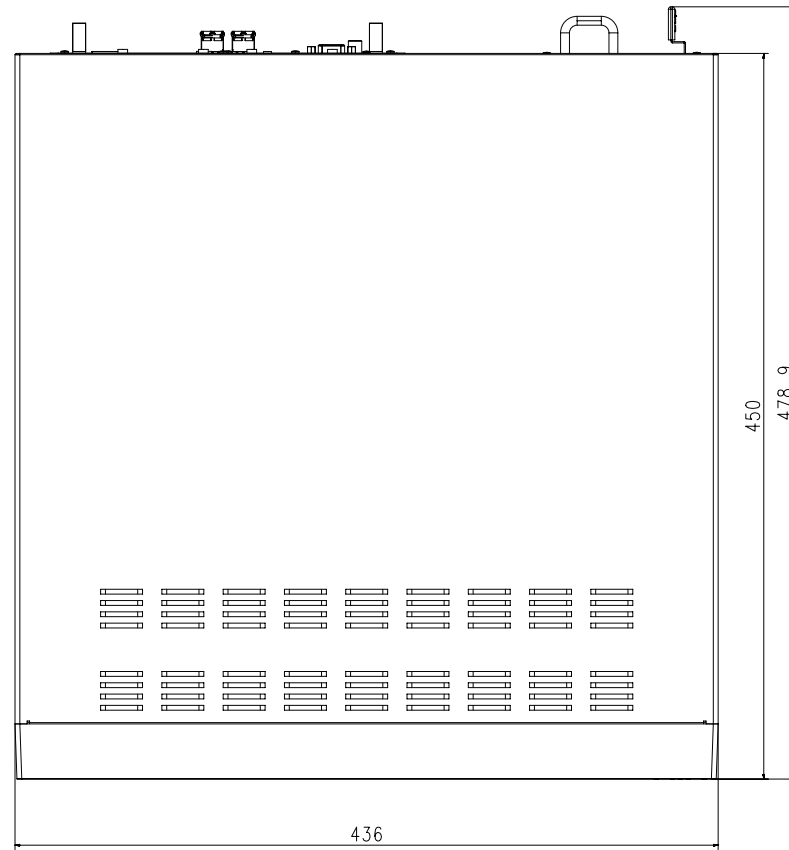
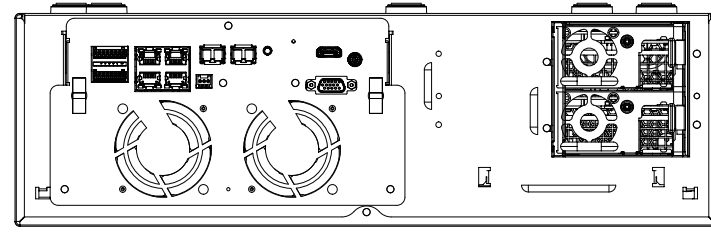
Öge		Ayrıntı
Sistem		
Günlük	Günlük Listesi	Maks. 20,000 (her birinde Sistem Günlüğü, Olay Günlüğü)
Çevresel		
Çalışma Sıcaklığı / Nemi		+0°C ila +40°C (+32°F ila +104°F)
Nem		%20 ~ %85 RH
Elektrik		
Güç		100 ila 240 VAC ±%10; 50/60 Hz, 4~1.5A (Çift SMPS)
Güç Tüketimi		Maks. 250W (12 adet HDD ile 853 BTU)
Mekanik		
Renk / Malzeme		Siyah / Metal
Boyutlar (GxYxD)		G436.0 x Y132.0 x D450.0mm (17.17" x 5.2" x 17.72") (3U)
Ağırlık		Yaklaşık 11Kg (24.3 lb, HDD hariç)

Sabit disk durumu için kayıt performansı özellikleri

Birim : (Mbps)

Depolama Yöntemi	Alındı	Kaydet			Uzak aktarım	Oynatma
		Dahili		iSCSI		
		Normal	Yeniden oluşturuluyor			
Dahili (RAID5)	400	400	320	300	300	32
Dahili (RAID6)	400	400	320	300	300	32
Tek HDD	400	250	-	250	300	32
iSCSI	300	-	-	300	300	32

※ İnternet/iSCSI depolama performansı tekli kullanım senaryosuna bağlıdır



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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
- **BSD 3-Clause License:** minipnPC-1.5-ppc, net-snmp-5.6.2.1, ppp-2.4.5, jquery.sha256, jsbn, libjpeg-turbo, lighttpd 1.4.35, msinttypes, requires, spherical++, sprintf 0.7, System-Verilog-Packet-Library, Text OpenGL Extension Wrangler Library 1.7.0
- **MIT License:** aptechcmSV2, 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 2.7.7
- **Apache 2.0 License:** RLLib
- **zlib/libpng License:** cximage, HIM NIS Edit, Nullsoft Scriptable Install System 2.46, PNG reference library, tinyxml 2.6.2, zlib 1.2.8
- **Boost Software License:** boost 1.57.0
- **Curl License:** curl 7.49.1
- **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, sipxptai
- **PHP License 3.01:** HPHp-2.1.0, PHP 5.6.33
- **OpenSSL Combined License:** openssl 1.0.2n
- **PCRE 5 License:** pcre 8.31
- **NTP License:** ntp 4.2.8p10
- **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

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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

18. [19]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port

19. [20]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul

20. [21]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [22]<H.Lambermont@chello.nl> ntpswEEP

21. [23]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)

22. [24]Frank Kardel [25]<Frank.Kardel@informatik.uni-erlangen.de> PARSE <GENERIC> driver (14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup

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

32. [35]Tom Moore <tmoore@fivel.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> ACRON 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]gif

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

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