

WISENET

ネットワークビデオレコーダー

製品仕様説明書

PRN-4011



ネットワークビデオレコーダー 製品仕様説明書

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最新バージョンはHanwha TechwinのWebサイトからダウンロードすることができます。(www.hanwha-security.com)
- ❖ 初期の管理者IDは「admin」です。初回ログイン時にパスワードを設定する必要があります。
個人情報を安全に保護し、情報漏洩の被害を防ぐため、3か月に1回パスワードを変更してください。
パスワードの管理ミスによるセキュリティ及びその他の問題は、ユーザー側の責任となりますことを御了承ください。

重要な安全ガイド

この製品を適正に使用し、リスクやダメージを防ぐため、以下の注意事項に留意してください。

警告/注意

 警告	重度のケガ、死亡する危険性がある内容です。	 注意	装置を損傷したり軽度のケガを負ったりする危険性がある内容です。
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警告

- 1つのコンセントに複数の電源コードを接続（タコ足接続）しないでください。火災の原因となります。
- 製品の上に水または他の液体が入った容器を置かないでください。製品の故障及び火災の原因となります。
- 電源コードを無理やり曲げたり、重いものに押さえられ破損しないようにしてください。火災の原因となります。
- 製品のカバーを開けないでください。また、分解・修理・改造しないでください。異常作動による火災・感電・傷害の危険があります。
- 湿気や埃が多い環境に設置しないでください。火災・感電の原因となります。
- 電源コードを過剰に強く引っ張らないでください。また、濡れた手で触らないでください。火災・感電の危険があります。
- 製品の設置環境を埃がないように綺麗にしてクリーニングには乾燥した柔らかい布を使用し、水、シンナーあるいは有機溶剤を使用しないでください。製品の表面にキズ付く恐れがあり、故障・感電の危険があります。
- ラジエーター、熱レジスタ、あるいは熱を発する他の装置（アンプを含む）など熱源の近くに設置しないで下さい。火災の危険があります。
- 電源ケーブル及び外部入出力ポートが突出されてありますので製品を壁に近く設置するとケーブルが曲がったり押さえられたりすることで破損及び断線する恐れがあります。壁から製品の背面は15cm以上、側面は5cm以上離れて設置してください。
- 本製品の動作のための入力電圧は電圧変動範囲が規定電圧の10%以内であるべきで電源コンセントは必ず接地になっていなければなりません。
- 柔らかく乾いた布か湿った布で製品表面の汚れた部分を拭き取ります。
(アルコール成分、溶剤、界面活性剤や油分を含む洗剤や化粧品を使用しないでください。製品の変形や損傷につながる恐れがあります。)

注意

- 強い磁性や電波がある場所ラジオ・TVなどの無線機器の隣接した場所は設置を避けてください。
- 製品の上に重い物を置かないでください。また、内部に異物が入らないようにしてください。
- 換気がいいところに設置して直射日光や熱にさらさないでください。
- 製品は必ず安定した平らな場所に設置して垂直及び斜めにして使用しないでください。
- 強い衝撃及び振動は機器故障の原因になりますので使用时注意してください。
- 異常な音または臭いがする場合は直ちに電源を切って販売店に問い合わせしてください。
- システムの性能を維持するためには販売店に依頼して定期的な点検をしてください。
- 必ず接地されたコンセントに電源ケーブルを連結してください。

ご使用の前に

このマニュアルでは、製品を使用するために必要な操作情報を記載しており、各部品の詳細とその機能、およびメニューとネットワークの設定について説明します。
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- 問題を確認するためにシステムのケースを開けたい場合は、本製品を購入した販売店にお問合せください。
- ハードディスクドライブまたは外部ストレージ（USBメモリやUSB HDDなど）を追加する場合は、事前にそれが本製品に準拠していることを確認してください。互換性のリストについては、お近くの販売店までお問い合わせください。

電池 (警告)

本製品の電池を不適切なものに交換すると爆発の原因になりますので必ず本製品に使用されているものと同じ種類の電池を使用してください。
現在、使用している電池の仕様は以下の通りです。

- 正規電圧：3V
- 正規容量：210mAh
- 標準連続負荷：0.4mA
- 動作温度：-20°C ~ +60°C (-4°F ~ +140°F)

注意

- 電源コードをアース端子付きのコンセントに接続します。
- メインプラグは切断装置として使用され、いつでも利用可能になります。
- バッテリーは直射日光の当たる場所や、熱器具の近くには置かないでください。
- 指定されていないタイプの電池に交換すると、爆発の原因になる恐れがあります。使用済電池は説明書に従って廃棄してください。
- データを保存するHDDの寿命が尽きると、保存したい動画のデータが損傷し、復旧できなくなる可能性があります。
- システム前面のHDDステータが表示LEDが点滅し続けていることを確認して、HDDが正常に接続していることを確認してください。HDDステータス表示LEDが点滅し続けていることをこまめに確認してください。HDDに異常が発生し、録画できない場合があります。定期的に録画状態をチェックする必要があり、重要なデータは定期的にバックアップしてください。

システムのシャットダウン

動作中電源を切ったり異常な操作した場合はHDD及び製品に損傷を与えることがあります。
システム終了のポップアップウィンドウから<OK>を押し、電源ケーブルを取り外すことで、安全に電源を切るようにします。
停電によるダメージを防ぐためにはUPSシステムを設置してください。（UPSに関する内容はUPS販売店にお問い合わせください。）

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- 電源切断時に異常が生じた場合、ハードディスクドライブのデータをリストアして正常に動作させるため、再起動には時間がかかることがあります。

動作温度

本製品の保証動作温度範囲は、0° C ～ 40° C (32° F ～ 104° F) です。
保証温度以下で長期間保管された場合は、使用時機器が動作しない可能性があります。
低温で長期間保管した後使用する際は、本製品をできるだけ室温に近づけてからから使用してください。

イーサネット・ポート

本製品は屋内用であるため、通信配線はすべて建物内で行ってください。

セキュリティに関する注意事項

初期の管理者IDは「admin」です。初回ログイン時にパスワードを設定する必要があります。
個人情報を安全に保護し、情報漏洩の被害を防ぐため、3か月に1回パスワードを変更してください。
パスワードの管理ミスによるセキュリティ及びその他の問題は、ユーザー側の責任となりますことを御了承ください。

グラフィカルシンボルの使用

本基準により要求されるか否かに関わらず、機器に記されるグラフィカルシンボルは、可能な場合はIEC 60417またはISO 3864-2もしくはISO 7000に準拠するものとします。適切なシンボルがない場合、製造業者はグラフィカルシンボルを使用することがあります。

機器に記されるシンボルはユーザーマニュアルに説明されるものとします。

シンボル	出版	説明
	IEC60417, No.5032	交流

機能別に対応するNVR製品

機能	製品リスト
ファン	PRN-4011
RAID	PRN-4011
iSCSI	PRN-4011
ジョイスティック	PRN-4011
拡張モニター	PRN-4011
電源二重化	PRN-4011
フェイルオーバー	PRN-4011

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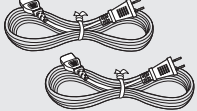
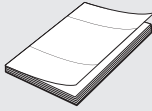
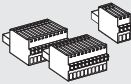
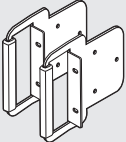
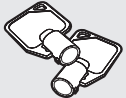
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特徴

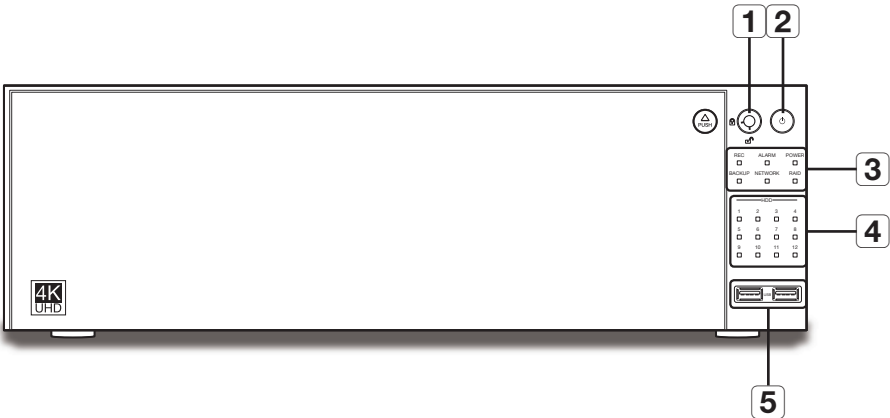
- 本製品はネットワークカメラの映像及び音声をハードディスクに録画し、再生することができます。
また、ネットワークを利用して映像及び音声を遠隔地からPCを通じてモニタリングする環境を提供します。
- 使いやすいユーザーインターフェース
 - さまざまな4Kカメラ解像度をサポート (3840X2160、4096X2160、4000X3000)
 - HDMIを使用し4K HD画像を出力
 - 64分割画面デコーディング
 - デュアルモニター出力をサポート（拡張、クローン）
 - マルチパスワードをサポート
 - RAID5/RAID6を支援
 - 信頼性の二重化電源
 - ONVIF Profile S規格およびRTP / RTSPプロトコルのサポート
 - HDD SMART機能を利用したHDD情報及び状態表示
 - HDD上書き機能及び録画期間の設定が可能
 - USB 2.0メモリ-及び外付けHDDを利用したバックアップが可能
 - 16チャンネル同時再生
 - 各種検索モード（時刻、イベント、スマート、テキスト、バックアップ、ARB）
 - 各種録画モード（ノーマル、イベント、スケジュール録画）
 - アラーム入力 / 出力機能
 - Windows Network Viewerによるリモート監視機能
 - ネットワークカメラのライブモニタリング支援
 - インストールウィザード機能（簡単設定）
 - リモートビューアマルチプロファイルをサポート
 - ARBをサポート
 - フェイルオーバーをサポート
 - チャンネル別に保存期間を設定可能

パッケージ内容

製品の梱包を解いて平らな場所または設置場所に置いてください。
本体以外に、以下の付属品がパッケージに梱包されていることを確認してください。

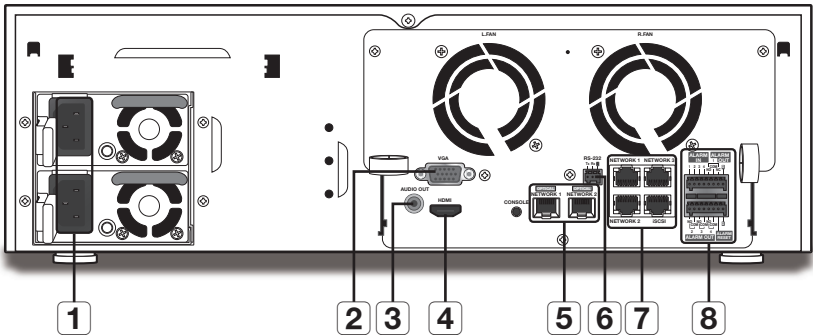
		
NVR	マウス	電源ケーブル
		
クイックマニュアル	端子台	ラック取付け
		
ラック取付け用ネジ	HDD固定ネジ	HDDドアロックキー

各部の名称と機能（前面）



部品名		機能
1	HDDドアロックキー	HDDの着脱を制限するために使用するロック装置です。製品ご購入時についている鍵を使用します。
2	電源	電源をオンまたはオフにします。
3	LEDインジケータ	REC：録画中に点灯します。
		ALARM：イベント発生時に点灯します。
		POWER：電源ON/OFFステータスが表示されます。
		BACKUP：バックアップ中であることを示します。
		NETWORK：ネットワーク接続とデータ転送のステータスを表示します。
4	HDD	RAID：RAID動作中に表示されます。
		HDDへ正常に接続していることを表示します。ハードディスクへのアクセス時にLEDが点灯します。
5	USB	USBデバイスを接続します。

各部の名称と機能（背面）



部品名		機能
1	電源	電源接続の端子です。 ■ 二重電源供給により一つの電源のみ接続しても動作に問題はありませんが、安定性を考えて各電源を別の系統に接続することをお勧めします。 ■ 動作中に問題が発生すると、SMPSブザーが鳴ります（丸いグリーンのボタンを押すとブザーをオフにできます）。 ■ 一つの電源が接続されていない場合でも、該当するグリーンのSMPSボタンのLEDとSMPSファンは作動することがあります。
2	VGA	VGA映像出力ポート。
3	AUDIO OUT	音声信号出力ポート（RCAジャック）。
4	HDMI	HDMI映像出力ポート。
5	OPTICAL NETWORK 1/2	光通信I/Fポート
6	RS-232C	シリアル通信用ケーブル端子。
7	NETWORK 1	カメラ接続用ポート;カメラから映像を受信します。
	NETWORK 2	カメラ接続用ポート;カメラから映像を受信します。
	NETWORK 3	映像をウェブビューアーへ送るために使用するポートです。
	iSCSI	外部iSCSIと接続するためのポートです。
8	ALARM	- ALARM IN：アラーム入力ポート。(1~4 CH) - ALARM RESET：アラームリセットポート。 - ALARM OUT：アラーム出力ポート。(1~4 CH)

■ [CONSOLE]は修理目的のみで設計されています。

製品を使用する前に、次のことに注意してください。

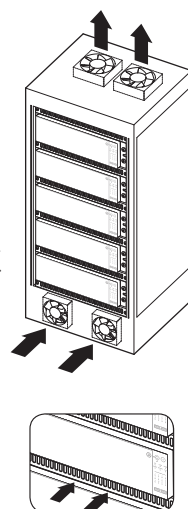
- 製品を屋外で使用しないでください。
- 製品に水または液体をこぼさないでください。
- 製品に強い衝撃や圧力を与えないでください。
- 電源プラグを強引に抜かないでください。
- ご自分で製品を分解しないでください。
- 定格の入力/出力範囲を超えないようにしてください。
- 認定された電源コードのみを使用してください。
- 入力アース付きの製品の場合は、アース付きの電源プラグを使用してください。

設置環境の確認

本製品は、大容量のHDDと他の重要な回路基板を備えたセキュリティデバイスです。製品の内部温度が高すぎるとシステムが故障したり、製品の寿命が短くなる場合があります（右図参照）。製品を設置する前に、次の指示をよく読んでください。

製品をラックに取り付ける場合は、以下の指示に従ってください。

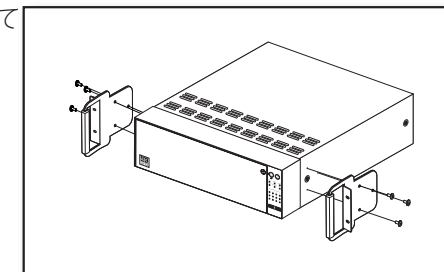
1. ラック内部が密閉されていないことを確認してください。
2. 図のように、空気取入れ口と排気口を通して空気が循環していることを確認してください。
3. 図に示すように、製品または他のラック取付装置を重ね置きする場合は、十分に通気できるスペースがあることを確認するか、通気口を設置してください。
4. 自然対流を作るには、空気取入れ口をラックの下部に、排気口を上部に配置してください。
5. 空気取入れ口と排気口にファンモーターを設置して空気を循環させることを強くお勧めします。（画面の空気取入れ口にフィルタを取り付けて、ゴミや異物が入らないようにしてください。）
6. ラック内部または周囲の温度を0°C～40°C（32°F～104°F）に保ってください。



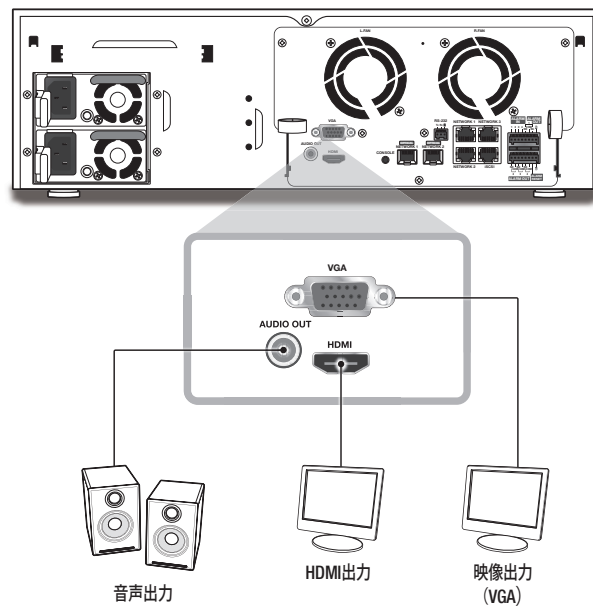
ラックの設置

図に示すようにブラケット-ラックを取り付け、両側のネジを締めて固定します。

- 振動で緩まないようにネジを固定します。



外部デバイスへの接続

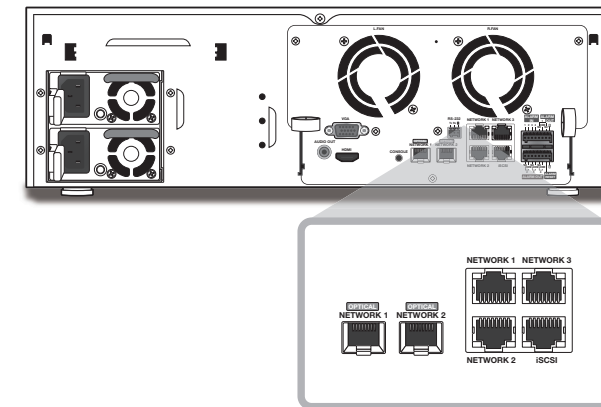


- ⚠ 定格外または不適切な電源を使用するとシステムが損傷する場合があります。電源ボタンを押す前に、定格電源を使用していることを確認してください。

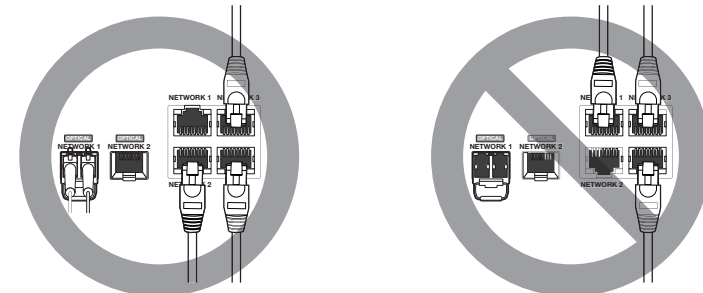
光モジュールの接続

光モジュールの定格出力はDC 3.3V 0.25Aです。

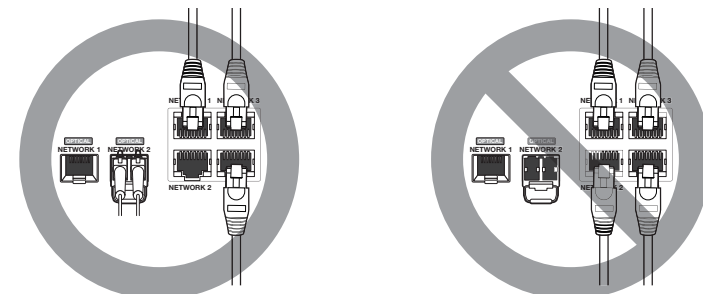
- 光モジュールを取り付けるときは、UTPポートの使用が制限されます。
- 光モジュールは必要ときにのみ取り付けます。



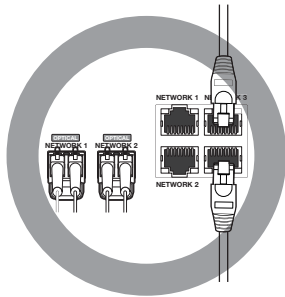
1. [OPTICAL NETWORK1]は [NETWORK1]とシェアするポートです。



2. [OPTICAL NETWORK2]は [NETWORK2]とシェアするポートです。



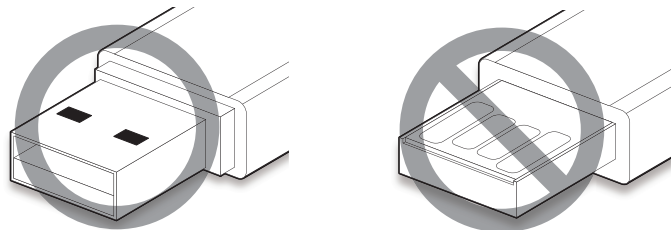
3. [OPTICAL NETWORK1/2]は [NETWORK1/2]とシェアするポートです。



USBの接続

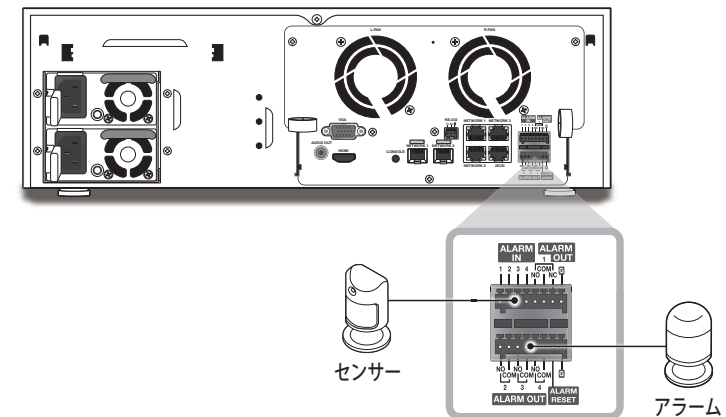
1. USB HDD、USBメモリーまたはマウスをUSBポートに接続することができます。
2. USB HDDがシステムに接続されている場合、Wisenet NVR説明書で「メニュー> デバイス > 記憶装置」で認識や設定することができます。
3. この製品にはホットプラグ機能がサポートされているため、システム動作中にUSBデバイスの接続と取外しが可能です。

- バックアップ用度のUSBデバイスの場合NVRでフォーマットできない場合はPC上でFAT32でフォーマットしてください。
- USBデバイスによっては互換性の問題で正常動作しない可能性がありますので、事前確認をお願いいたします。
- 規格品（メタルカータイプ）USBデバイス以外には動作保証は出来ません。
- USBコネクタピンの磨耗によってUSB信号の読取が悪くなる可能性があります。

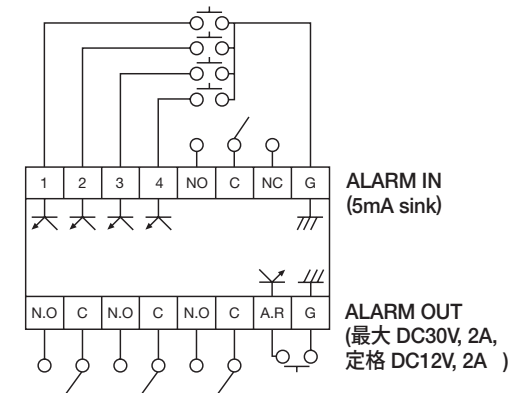


アラーム入力/出力の接続

背面のアラーム入力/出力ポートは、次のような構成になっています。



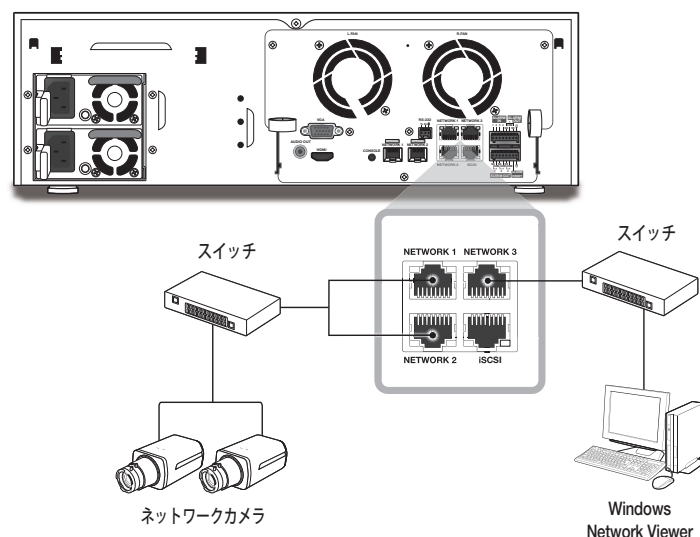
- ALARM IN 1～4 : アラーム入力ポート
- ALARM RESET : アラームリセット信号を受信すると、システムは現在のアラーム入力をキャンセルして、検知を再開します。
- ALARM OUT 1～4 : アラーム出力ポート



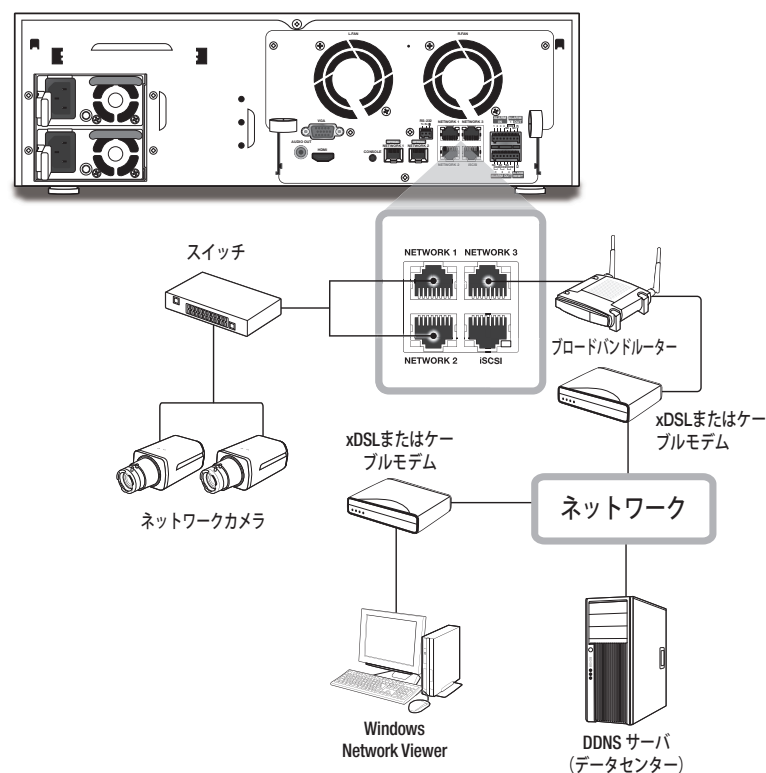
ネットワークへの接続

■ ネットワーク接続に関する詳細情報は、Wisenet NVR説明書で「ネットワーク設定」をご参照ください。

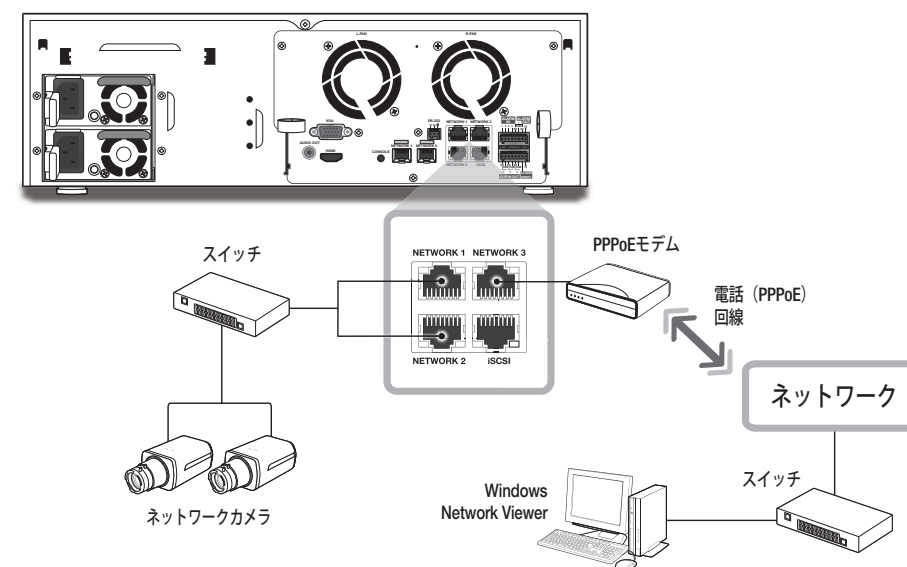
イーサネット（10/100/1000BaseT）によるネットワーク接続



ルーター経由のネットワーク接続

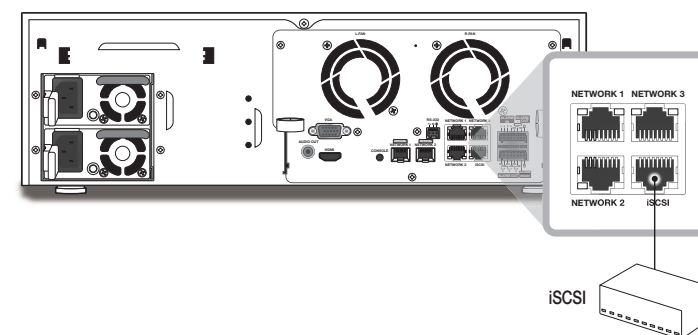


PPPoE経由のインターネットへの接続

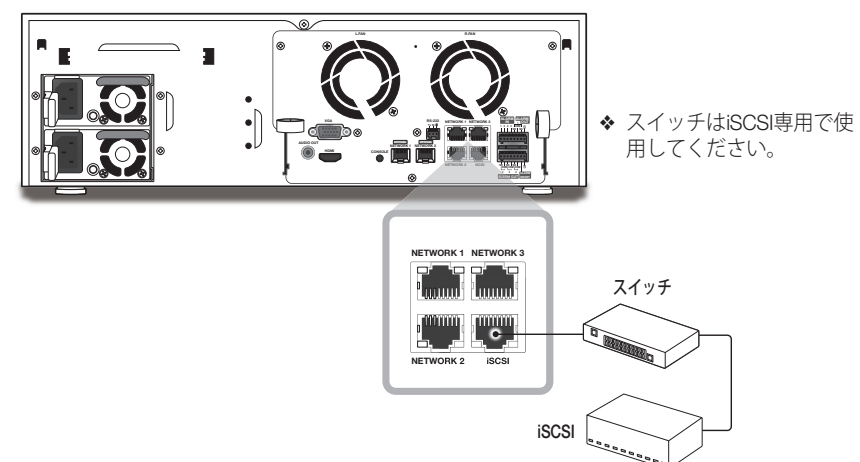


iSCSIの接続

NVRへの直接接続



スイッチを使用して接続できます



項目		詳細	
ディスプレイ			
ネットワークカメラ	入力	最大64CH	
	解像度	CIF ～ 12MP	
	プロトコル	Wisenet、 ONVIF	
ライブ	モニター出力	1x HDMI / 1x VGA デュアルモニター	
	パフォーマンス	[ローカルモニター] - 12M (30fps) - 8.3M(120fps) - 1080p(480fps) - 720P(960fps) - D1(1920fps)	
パフォーマンス			
オペレーティングシステム	組込み	Linux	
録画	圧縮	H.265、 H.264、 MJPEG、 WiseStream(H.265, H.264)	
	録画帯域幅	最大250Mbps Non-RAID	最大400Mbps (RAID-5/6)
	解像度	CIF ～ 12MP	
検索 & 再生	再生帯域幅	最大32Mbps (16CH同時)	
	ユーザー	最大4 ユーザー (ローカル 1, リモート 3)	
	同時再生	最大16チャンネル (ローカルモニター、CMS)	
	解像度	CIF ～ 12MP	
	魚眼歪み補正	WEB / CMS	
	再生コントロール	早/遅 送り/戻し、 1ステップ前に移動/1ステップ後に移動	
ストレージ	内蔵	0TB ～ 8TB	
	内部HDD	12 (最大 96TB, Non-RAID モード)	
	外部	iSCSIストレージ (最大192TB)	
	RAID	RAID-5/6(アレイサイズ : 6-HDD x 2 アレイ)	
バックアップ	ファイルタイプ	SEC/NVR、 JPG/AVI(ネットワーク)	
	機能	マルチチャンネル(最大16CH)再生、 日付・時間/タイトル表示	

項目		詳細
センサー	I/O	4/4 (NO/NC選択可能)
音声	入力	64チャンネル (ネットワーク)
	圧縮	G.711、G.726、AAC(16/48KHz)
	オーディオ通信	両方向
ネットワーク		
インタフェース		RJ-45(Gigabit Ethernet) x4, SFP x2
プロトコル		TCP/IP、UDP/IP、RTP (UDP)、RTP (TCP)、RTSP、NTP、HTTP、DHCP (サーバー、クライアント)、PPPoE、SMTP、ICMP、IGMP、ARP、DNS、DDNS、uPnP、HTTPS、SNMP、ONVIF (Profile-S)、SUNAPI(サーバー、クライアント)
DDNS		Hanwha DDNS
伝送帯域幅		最大400Mbps
最大リモートユーザー数		検索 (3) /ライブユニキャスト (10) /マルチキャスト (20)
IPバージョン		IPv4/v6
セキュリティ		IPアドレスフィルタリング、ユーザーアクセスログ、802.1x、暗号化、2人ユーザー認証
言語		英語、フランス語、ドイツ語、イタリア語、スペイン語、ロシア語、トルコ語、ポーランド語、オランダ語、スウェーデン語、チェコ語、ポルトガル語、デンマーク語、ルーマニア語、セルビア語、クロアチア語、ハンガリー語、ギリシャ語、ノルウェー語、フィンランド語、韓国語、中国語、日本語、タイ語
OS		Window 7、8、10、Mac OS X(10.8以上)
Webブラウザ		MS IE, Google Chrome, Mac Safari
ビューアソフトウェア	種類	SSM、Webviewer、SmartViewer、Wisenet Mobile Viewer
	サポート	サードパーティVMSとの統合にSDK/CGI(SUNAPI)対応
機能		
PTZ	制御	本体、ウェブビューアー経由、SPC-2000
	プリセット	300プリセット
スマートフォン	対応モデル	Android、iOS
	プロトコルサポート	RTSP、RTSP、HTTP、CGI (SUNAPI)
	コントロール	ライブ(16ch) : マルチプロファイル対応 再生(1ch)
	最大リモートユーザー数	検索 (3)、ライブユニキャスト (10)

項目		詳細
冗長性	フェイルオーバー	N+1
	ARB	はい
システム操作		マウス、Web、SPC-2000 (コントローラ)
インジケータ/インターフェース		
前面	インジケータ	LEDステータスインジケータ - HDD動作(12), RAID 状態(1), アラーム(1), 電源(1), 録画(1), バックアップ(1), ネットワーク(1)
コネクタ	VGA	サブ：1 EA (32 div. モードまでのライブスクリーンサポート)
	HDMI	メイン： 1 EA (ライブ / PB / 設定サポート) - 最大4Kサポート (3840 x 2160、シングルモニターモード64 div)
	音声	出力 (1EA、RCA、ライン)
	イーサネット	RJ-45 4EA (LAN/WAN, 1Gbps)、1000M SFP 2ea
	アラーム	1) 入力 (4EA、ターミナルブロック) 2) Alarm Reset(1EA) 3) 出力 (4EA、ターミナルブロック) - Relay Out1(NO/NC/COM) - Relay Out2~4(NO/COM)
	USB	2EA (前面 2)
	外部記憶装置	iSCSI
	シリアル	RS-232C
	リセット	スイッチ(1EA)
	電源コード	2EA ACインレット

項目		詳細
システム		
ログ	ログリスト	最大20,000 (システムログ、イベントログともに)
環境関連		
動作温度		+0°C ~ +40°C (+32°F ~ +104°F)
動作湿度		20% ~ 85% RH
電力関連		
電源		100 ~ 240 VAC ±10%; 50/60 Hz, 1.5~3A (デュアルSMPS)
消費電力		最大250W(HDD 12EA)
機械関連		
色/材質		ブラック/金属
寸法 (WxHxD)		W436.0 x H132.0 x D450.0mm (17.17" x 5.2" x 17.72") (3U)
重量		約 11Kg (HDDは含まれない)

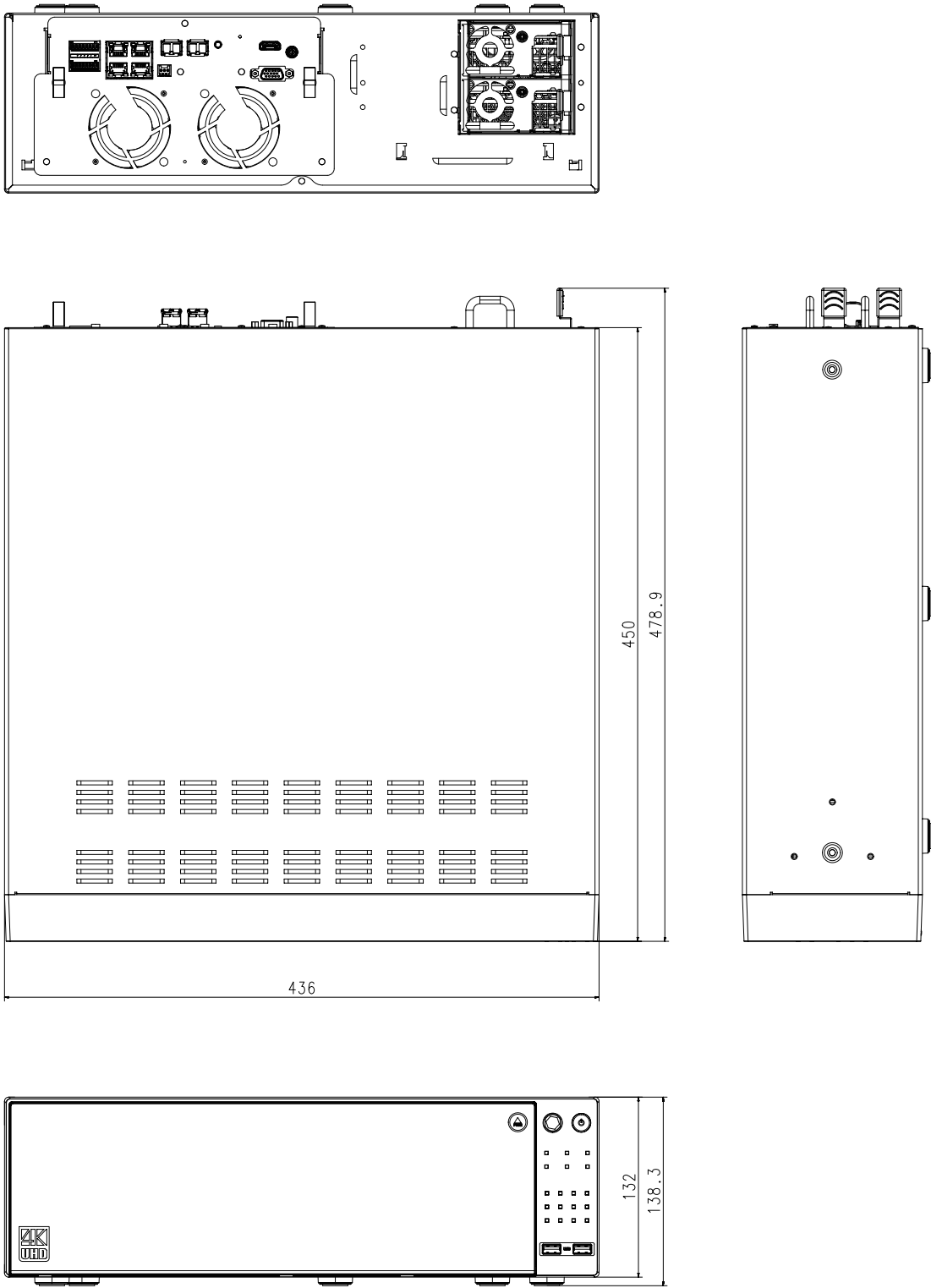
HDD状況別の録画パフォーマンス仕様

単位 : (Mbps)

保存方式	受信	保存			Remote伝送	再生
		内蔵		iSCSI		
		ノーマル	再構築			
内蔵 (RAID5)	400	400	320	300	300	32
内蔵 (RAID6)	400	400	320	300	300	32
シングルHDD	400	250	-	250	300	32
iSCSI	300	-	-	300	300	32

※ インターネット/iSCSI保存性能は、個々の使用シナリオに基づきます。

單位 : mm



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- **MPL 1.1:** npapi-sdk
- **BSD 2-Clause License:** FreeBSD
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Version 2, June 1991

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Written by: Philip Hazel (ph10@cam.ac.uk)

University of Cambridge Computing Service,

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The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.

1. [1]Mark Andrews <marka@syd.dms.csiro.au> Leitch atomic clock controller

2. [2]Bernd Altmeyer <altmeier@atlsoft.de> hopf Elektronik serial line and PCI-bus devices

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

9. [10]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)

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, 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@fiemel.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>

References

1. mailto:marka@syd.dms.csiro.au

2. mailto:altmeier@atlsoft.de

3. mailto:vbais@mailman1.intel.co

4. mailto:kirkwood@striderfm.intel.com

5. mailto:michael.barone@lmco.com

6. mailto:karl@owl.HQ.ileaf.com

7. mailto:greg.brackley@bigfoot.com

8. mailto:Marc.Brett@westgeo.com

9. mailto:Piete.Brooks@cl.cam.ac.uk

10. mailto:reg@dwf.com

11. mailto:clift@ml.csiro.au

12. mailto:casey@csc.co.za

13. mailto:Sven_Dietrich@trimble.COM

14. mailto:dundas@salt.jpl.nasa.gov

15. mailto:duwe@immd4.informatik.uni-erlangen.de

16. mailto:dennis@mrbill.canet.ca

17. mailto:glenn@herald.usask.ca

18. mailto:iglesias@uci.edu

19. mailto:jagubox.gsfc.nasa.gov

20. mailto:jbj@chatham.usdesign.com

21. mailto:Hans.Lambermont@nl.origin-it.comv

22. mailto:H.Lambermont@chello.nl

23. mailto:phk@FreeBSD.ORG

24. http://www4.informatik.uni-erlangen.de/kardel

25. mailto:Frank.Kardel@informatik.uni-erlangen.de

26. mailto:jones@hermes.chpc.utexas.edu

27. mailto:dkatz@cisco.com

28. mailto:leres@ee.lbl.gov

29. mailto:lindholm@ucs.ubc.ca

30. mailto:louie@ni.umd.edu

31. mailto:thorinn@diku.dk

32. mailto:mills@udel.edu

33. mailto:moeller@gwdgv1.dnet.gwdg.de

34. mailto:mogul@pa.dec.com

35. mailto:tmoore@fiemel.daytonoh.ncr.com

36. mailto:kamal@whence.com

37. mailto:derek@toybox.demon.co.uk

38. mailto:d@hd.org

39. mailto:Rainer.Pruy@informatik.uni-erlangen.de

40. mailto:dirce@zk3.dec.com

41. mailto:wsanchez@apple.com

42. mailto:mrapple@quack.kfu.com

43. mailto:jack@innovativeinternet.com

44. mailto:schnitz@unipress.com

45. mailto:shields@tembel.org

46. mailto:pebbles.jpl.nasa.gov

47. mailto:harlan@pfcs.com

48. mailto:ken@sdd.hp.com

49. mailto:ajit@ee.udel.edu

50. mailto:tsuruoka@nc.fukuoka-u.ac.jp

51. mailto:vixie@vix.com

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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Internet Systems Consortium, Inc.
950 Charter Street
Redwood City, CA 94063
<info@isc.org>
<https://www.isc.org/>

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Head Office

6, Pangyo-ro 319 beon-gil, Bundang-gu, Seongnam-si,
Gyeonggi-do, 463-400 Rep. of KOREA
Tel : +82.70.7147.8753 Fax : +82.31.8018.3740
www.hanwha-security.com

Hanwha Techwin America

500 Frank W. Burr Blvd. Suite 43 Teaneck, NJ 07666
Toll Free +1.877.213.1222 Direct +1.201.325.6920
Fax +1.201.373.0124
www.hanwhasecurity.com

Hanwha Techwin Europe

Heriot House, Heriot Road, Chertsey, Surrey, KT16 9DT, United Kingdom
Tel +44.1932.57.8100 Fax +44.1932.57.8101
www.hanwha-security.eu
