

WISeNeT

ENREGISTREUR VIDÉO EN RÉSEAU

Manuel des spécifications du manuel

PRN-4011

CE

Enregistreur vidéo en réseau

Manuel des spécifications du manuel

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- ❖ La conception et les caractéristiques techniques sont susceptibles d’être modifiées sans préavis.
Vous pouvez télécharger la version la plus récente du produit sur le site Internet de Hanwha Techwin. (www.hanwha-security.com)
- ❖ L’identifiant initial de l’administrateur est “admin” et le mot de passe doit être défini lors de la première connexion.
Veuillez changer votre mot de passe tous les trois mois afin de protéger sans risque les informations personnelles et éviter les préjudices occasionnés par un vol de données.
Veuillez noter qu’il en est de la responsabilité de l’utilisateur quant à la sécurité et autres problèmes causés par une mauvaise gestion du mot de passe.

CONSIGNES DE SÉCURITÉ IMPORTANTES

Lisez attentivement ces instructions d'utilisation avant d'utiliser l'appareil.
Conformez-vous à toutes les consignes de sécurité listées ci-dessous.
Conservez ces instructions d'utilisation en vue d'une consultation ultérieure.

- 1) Lisez les instructions.
- 2) Conservez les instructions.
- 3) Tenez compte de tous les avertissements.
- 4) Suivez toutes les instructions.
- 5) N'utilisez jamais cet appareil à proximité de l'eau.
- 6) Nettoyez la zone contaminée sur la surface du produit avec un chiffon doux et sec ou un chiffon humide. (Ne pas utiliser un détergent ou des produits cosmétiques contenant de l'alcool, des solvants et des tensioactifs ou des produits contenant du pétrole, car ils peuvent déformer ou endommager le produit.)
- 7) N'obstruez aucun orifice de ventilation, installez l'appareil conformément aux instructions du fabricant.
- 8) Ne l'installez pas à proximité d'une source de chaleur telle que des radiateurs, des registres de chaleur, des fours ou d'autres appareils (y compris des amplificateurs) produisant de la chaleur.
- 9) Ne démontez pas le dispositif de sécurité de la prise de terre ou de la prise polarisée. Les fiches polarisées disposent de deux broches, dont l'une est plus large que l'autre. En revanche, les prises de terre comportent deux fiches ainsi qu'une broche de mise à la terre. Dans les deux cas, la broche large et la troisième broche garantissent votre sécurité. Si la fiche fournie ne s'adapte pas sur votre prise murale, renseignez-vous auprès d'un électricien pour remplacer cette dernière.
- 10) Protégez le cordon d'alimentation afin d'éviter qu'il ne soit piétiné ou pincé, tout particulièrement au niveau des fiches, des prises et au point où il sort de l'appareil.
- 11) Utilisez uniquement des accessoires spécifiés par le fabricant.
- 12) Utilisez uniquement un chariot, un socle, un trépied, une console ou une table spécifiée par le fabricant ou vendue avec l'appareil. En cas d'utilisation d'un chariot, déplacez l'ensemble chariot/appareil avec précaution afin d'éviter toute blessure due à un basculement de cet ensemble.
- 13) Débranchez cet appareil en cas d'orage ou de non utilisation prolongée.
- 14) Confiez l'ensemble des réparations au personnel qualifié. Une réparation est nécessaire en cas de dommage subi par l'appareil, quel qu'il soit : cordon d'alimentation ou fiche endommagée, projection de liquide ou chute d'objets sur l'appareil, exposition à la pluie ou à l'humidité, dysfonctionnement, chute.



Approbations des Normes



- ! Toute modification entreprise dans la conception de cet appareil non expressément approuvée par la partie responsable de la conformité pourrait annuler l'autorisation de l'utilisateur à utiliser l'équipement.
- ☞ Cet appareil est conforme au point 15 du règlement FCC. Son fonctionnement est soumis aux deux conditions suivantes : (1) Cet appareil ne peut pas causer d'interférences nuisibles et (2) doit accepter toute interférence reçue, y compris les interférences susceptibles de causer un mauvais fonctionnement.
- Cet équipement a été testé et se conforme aux limites relatives à un appareil numérique de classe A, conformément à la partie 15 des Réglementations FCC. Ces limites sont élaborées pour fournir un degré raisonnable de protection contre les interférences dangereuses si l'équipement fonctionne dans un environnement commercial. Cet équipement génère, utilise et peut produire une énergie à radio fréquence, s'il n'est pas installé et utilisé selon le manuel d'instruction, il peut causer des interférences nuisibles aux communications radiophoniques. Le fonctionnement de cet équipement au sein d'une zone résidentielle peut provoquer des interférences dangereuses, dans ce cas l'utilisateur est sommé de corriger l'interférence à ses propres frais.

AVANT LE DÉMARRAGE

Ce manuel fournit des informations de fonctionnement nécessaires à l'utilisation de l'appareil et contient une description de chaque pièce et sa fonction ainsi que le menu ou les paramètres du réseau.
Gardez à l'esprit les mises en garde suivantes :

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- Nous ne pouvons être tenus pour responsables des pertes relatives à ce produit, suite à l'utilisation d'un produit non conforme ou au non respect des instructions mentionnées dans ce manuel.
- Si vous désirez ouvrir le boîtier de votre système pour vérifier les problèmes, veuillez consulter le technicien du point de vente où vous avez acheté le produit.
- Avant d'ajouter un disque dur ou un périphérique de stockage externe (mémoire USB, disque dur USB, etc.), vérifiez s'il est compatible avec cet appareil. Pour la liste des compatibilités, veuillez contacter le distributeur.

Attention

Pile

Mettre un mauvais type de pile dans votre produit peut causer une explosion. Vous devez donc utiliser le même type que celle actuellement utilisée avec le produit.

Veuillez trouver ci-dessous les caractéristiques de la pile à utiliser.

- Tension normale : 3V
- Capacité normale : 210mAh
- Charge standard continue : 0,4mA
- Température de fonctionnement : -20°C ~ +60°C (-4°F ~ +140°F)

Attention

- Branchez le cordon d'alimentation à une prise mise à la terre.
- La prise d'alimentation fait office de système de déconnexion ; elle doit donc rester disponible en permanence.
- Les piles ne doivent pas être exposées à des températures excessives, telles que la chaleur du soleil, le feu ou toute autre source de même type.
- Il existe un risque d'explosion lié au remplacement de la batterie par un type de batterie inapproprié. Veillez à mettre au rebut les batteries usées selon les instructions fournies.
- Lorsque le HDD atteint sa fin de vie, les données vidéo stockées peuvent être endommagées et ne pas pouvoir être récupérées.
- Le voyant LED du HDD à l'avant du système clignote en permanence pour indiquer que la connexion du système au HDD est normale. Vérifiez régulièrement le voyant LED du HDD pour voir s'il clignote continuellement. L'enregistrement peut ne pas être possible en cas de panne du HDD. Vérifiez régulièrement l'état de l'enregistrement et sauvegardez régulièrement les données importantes.

Arrêt système

Eteindre l'appareil alors qu'il est en fonctionnement ou effectuer des actions non autorisées peut endommager le disque dur ou le produit lui-même. En outre, cela peut causer un dysfonctionnement du disque dur lors de l'utilisation du produit.

Appuyez sur <OK> sur la fenêtre d'arrêt du système, puis retirez le câble d'alimentation pour assurer une mise hors tension sûre.

Vous pouvez installer un système d'alimentation sans coupure pour garantir un fonctionnement sécurisé et prévenir les dommages causés par des coupures d'alimentation inattendues. (Pour toutes questions concernant les systèmes d'alimentation sans coupure, veuillez consulter votre distributeur).

- ! En cas de mise hors tension anormale, le redémarrage peut prendre plus de temps car le système restaure les données provenant du disque dur afin de garantir un fonctionnement correct.

Température de fonctionnement

La gamme de température de fonctionnement garantie de ce produit est de 0°C ~ 40°C (32°F ~ 104°F). Cet appareil peut ne pas fonctionner correctement si rangé pendant une période prolongée à des températures inférieures aux températures garanties.

Si vous désirez utiliser l'appareil suite à un rangement prolongé à température faible, installez le produit à température ambiante pendant quelques temps puis faites-le fonctionner.

La gamme de température relative au disque dur intégré est de 5°C ~ 55°C (41°F ~ 131°F). Le disque dur peut ne pas fonctionner sous des températures inférieures aux températures garanties.

Port Ethernet

Cet appareil est destiné à un usage en intérieur et l'ensemble du câblage de communication est limité pour l'intérieur d'un bâtiment.

Consignes de sécurité

L'identifiant initial de l'administrateur est "admin" et le mot de passe doit être défini lors de la première connexion.

Veuillez changer votre mot de passe tous les trois mois afin de protéger sans risque les informations personnelles et éviter les préjudices occasionnés par un vol de données.

Veuillez noter qu'il en est de la responsabilité de l'utilisateur quant à la sécurité et autres problèmes causés par une mauvaise gestion du mot de passe.

Utilisation des symboles graphiques

Les symboles graphiques gravés sur l'appareil, qu'ils soient exigés par ce standard ou non, doivent être conformes à la norme IEC 60417, ISO 3864-2 ou ISO 7000, le cas échéant. En l'absence de symboles appropriés, le fabricant peut concevoir des symboles graphiques spécifiques.

Les symboles gravés sur l'appareil doivent être expliqués dans le mode d'emploi.

Symbole	Publication	Description
	IEC60417, No.5032	Courant alternatif

Produits NVR prenant en charge chaque fonction

Fonction	Produits
Ventilateur	PRN-4011
RAID	PRN-4011
iSCSI	PRN-4011
Joystick	PRN-4011
Moniteur étendu	PRN-4011
Redondance de l'alimentation	PRN-4011
Basculement	PRN-4011

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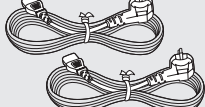
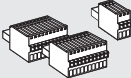
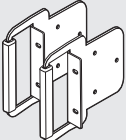
CARACTÉRISTIQUES

L'appareil permet d'enregistrer des données vidéo et audio depuis les caméras sans fil vers un disque dur, et de lire depuis le disque dur.
Il fournit également un environnement de surveillance à distance pour les données vidéo et audio sur le réseau à l'aide d'un ordinateur distant.

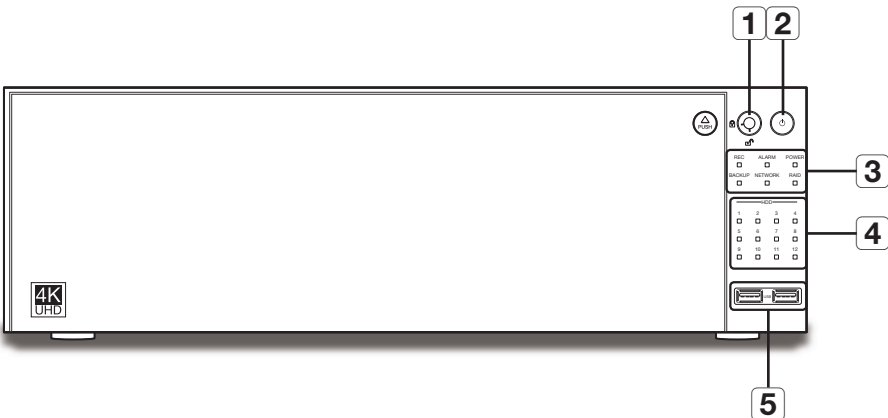
- Interface utilisateur conviviale
- Prend en charge une gamme de résolutions de caméra 4K (3840X2160, 4096X2160, 4000X3000)
- Génère une image 4K haute définition via HDMI
- Décodage 64 écrans fractionnés
- Prend en charge une double sortie du moniteur (développer, dupliquer)
- Prend en charge plusieurs mots de passe
- Enregistrement et lecture vidéo
- Enregistrement et lecture de données audio
- Prend en charge la norme ONVIF Profile S et les protocoles RTP/RTSP
- Affichage des états de fonctionnement du disque dur à l'aide de HDD SMART
- Réinscription du disque dur autorisée
- Sauvegarde utilisant les protocoles USB 2.0 et un disque dur externe
- Lecture simultanée de 16 chaînes
- Divers modes de recherche disponibles (Heure, Évènement, Intelligente, Texte, Sauvegarde, ARB)
- Divers modes d'enregistrement disponibles (Normal, Évènement et Enregistrement programmé)
- Entrée et sortie d'alarme
- Fonction de contrôle à distance via Windows Network Viewer
- Contrôle en direct de la caméra réseau
- Fonction Assistant d'installation (Configuration Facile)
- Prend en charge plusieurs profils pour visionneuse à distance
- ARB pris en charge
- Prend en charge les échecs
- Fonction utilisée pour définir la période de stockage pour chaque canal

Contenu

Déballez le produit et placez-le sur une surface plane ou à l'emplacement qui lui est réservé.
Vérifiez que les éléments suivants sont contenus dans l'emballage, en plus de l'unité principale.

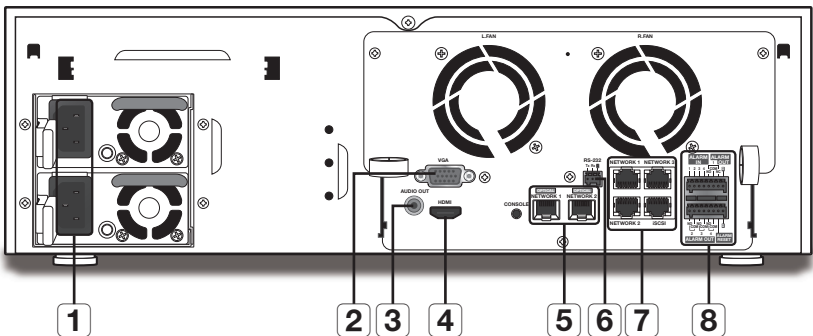
		
NVR	Souris	Cordon d'alimentation
		
Manuel de référence rapide	Bornier de connexion	Montage en rack
		
Vis de montage du châssis	Vis de fixation du DD	Clé de verrouillage de porte du disque dur

NOMS DES COMPOSANTS ET FONCTIONS (FAÇADE)



Noms des éléments		Fonctions
1	Clé de verrouillage de porte du disque dur	Il s'agit d'un dispositif de blocage utilisé pour limiter l'accès au disque dur. Utilisez la clé de produit fournie lors de l'achat du produit.
2	Alimentation	Permet la mise sous ou hors tension de l'enregistreur réseau.
3	Voyant DEL	REC : S'allume l'enregistrement est en cours.
		ALARM : S'allume lorsqu'un événement se produit.
		POWER : Affiche le statut de l'alimentation ARRET / MARCHE.
		BACKUP : S'affiche lorsque la sauvegarde est en cours.
		NETWORK : Affiche la connexion au réseau et l'état du transfert des données.
4	HDD	Affiche l'accès normal au disque dur. Le voyant LED s'allume lors de l'accès au disque dur.
5	USB	Permet de connecter les périphériques USB.

NOMS DES COMPOSANTS ET FONCTIONS (PANNEAU ARRIÈRE)



Noms des éléments		Fonctions
1	Alimentation	Borne de connexion de l'alimentation. - Avec une alimentation en duplex, même si vous connectez une seule alimentation, elle peut fonctionner correctement. Cependant, pour la fiabilité, il est recommandé d'utiliser des alimentations séparées. - Si un problème se produit pendant le mouvement, le signal sonore SMPS retentira. (Vous pouvez désactiver l'alarme en appuyant sur le bouton rond vert) - Même si l'alimentation n'est pas connecté, la LED du bouton SMPS vert applicable et le ventilateur SMPS peuvent être actionné.
2	VGA	Port de sortie du signal vidéo VGA.
3	AUDIO OUT	Port de sortie du signal audio (prise RCA).
4	HDMI	Port de connecteur HDMI.
5	OPTICAL NETWORK 1/2	Port I/F de communications optiques.
6	RS-232C	Tête de câble pour une communication en série.
7	NETWORK 1	Port pour connexions de la caméra, destiné à recevoir la vidéo à partir d'une caméra.
	NETWORK 2	Port pour connexions de la caméra, destiné à recevoir la vidéo à partir d'une caméra.
	NETWORK 3	Port utilisé pour envoyer la vidéo vers l'afficheur.
	iSCSI	Port destiné à établir une connexion avec l'iSCSI externe.
8	ALARM	- ALARM IN : Ports d'entrée d'alarme. (1~4 CH) - ALARM RESET : Port de réinitialisation d'alarme. - ALARM OUT : Ports de sortie d'alarme. (1~4 CH)

[CONSOLE] est conçu à des fins de réparation uniquement.

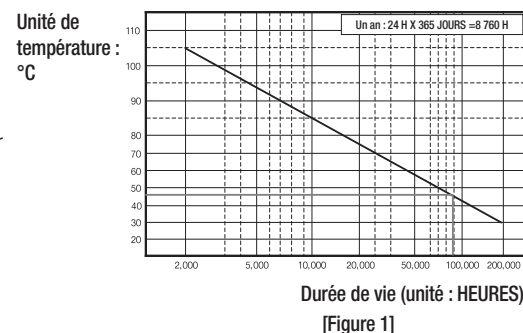
Voici quelques recommandations importantes qu'il convient de respecter avant d'utiliser le produit.

- N'utilisez pas le produit en extérieur.
- Ne versez pas de l'eau ou des liquides sur les connexions du produit.
- Ne soumettez pas le système à une force ou une pression excessive.
- Ne tirez pas sur le cordon d'alimentation.
- Ne démontez pas l'appareil vous-même.
- N'excédez pas la puissance nominale d'entrée/sortie de l'appareil.
- Utilisez uniquement un cordon d'alimentation agréé.
- Pour les produits équipés d'une masse d'entrée, utilisez une fiche d'alimentation avec mise à la terre.

VÉRIFICATION DE L'ENVIRONNEMENT D'INSTALLATION

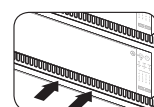
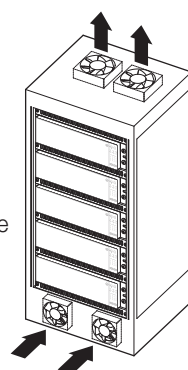
Cet appareil est un périphérique hautement sécurisé équipé d'un disque dur de grande capacité et de circuits imprimés majeurs.

Veillez noter qu'une température interne du produit trop élevée peut provoquer une défaillance du système ou écourter sa durée de vie (voir la figure de droite). Gardez à l'esprit les instructions suivantes avant l'installation du produit.



Lors du montage de l'appareil sur un rack, respectez les instructions suivantes.

1. Vérifiez que l'intérieur du rack n'est pas hermétique.
2. Vérifiez que la circulation de l'air est assurée au niveau des entrées/sorties tel qu'indiqué sur l'illustration.
3. Si vous empilez les appareils ou d'autres périphériques de montage en rack comme indiqué sur la figure 2, libérez de l'espace pour l'aération ou installez un ventilateur.
4. Pour une convection naturelle de l'air, placez l'entrée dans la partie inférieure du rack et la sortie dans la partie supérieure.
5. Il est fortement recommandé d'installer un moteur de ventilateur à l'entrée et à la sortie afin de favoriser la circulation de l'air. (Installez un filtre à l'entrée pour arrêter la poussière et les corps étrangers.)
6. Veillez à maintenir la température à l'intérieur du rack ou dans son environnement immédiat entre 0°C et 40°C (32°F ~ 104°F), tel qu'illustré sur la figure 1.

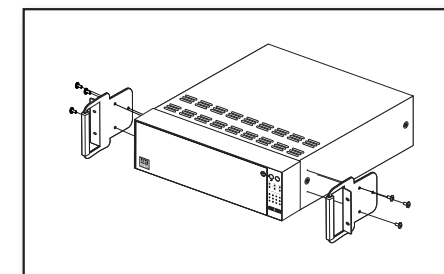


[Figure 2]

INSTALLATION DU RACK

Installez le rack de support comme illustré sur la figure, puis serrez les vis de chaque côté.

- Serrez les vis de sorte que les vibrations ne les desserrent pas.



AJOUT DE DISQUE DUR

Veillez à débrancher le cordon d'alimentation de la prise murale afin d'éviter toute électrocution, blessure ou endommagement du produit.

Veillez consulter votre fournisseur pour de plus amples informations. Une installation ou des réglages non appropriés peuvent endommager le produit.

- Nombre de disques durs pris en charge : Jusqu'à 12 disques durs peuvent être pris en charge
- Veillez à débrancher le cordon d'alimentation de la prise murale avant de procéder à l'installation.



Précautions à prendre pour éviter la perte de données (manipulation du disque dur)

Soyez vigilant afin de ne pas corrompre les données à l'intérieur du disque dur.

Avant d'ajouter un disque dur, vérifiez sa compatibilité avec cet appareil.

En raison de sa nature sensible, le disque dur est particulièrement sujet aux défaillances en cas de choc en cours de fonctionnement.

Veillez à protéger le disque dur de tels chocs.

Nous n'assumons aucune responsabilité en cas de dommages survenus au disque dur du fait de la négligence de l'utilisateur ou d'une mauvaise utilisation.

Exemples de conditions susceptibles d'endommager le disque dur ou les données enregistrées

Pour minimiser le risque de pertes de données en raison d'un disque dur endommagé, veillez à sauvegarder vos données aussi souvent que possible.

S'il est exposé à un choc lors du démontage ou de l'installation, les données stockées dans le disque dur risquent d'être endommagées.

Une soudaine coupure de courant ou une mise hors tension de l'appareil lorsque le disque dur fonctionne peut l'endommager.

Le disque dur ou les fichiers qui y sont stockés risquent d'être endommagés si le corps principal est déplacé ou heurté durant le fonctionnement du disque dur.

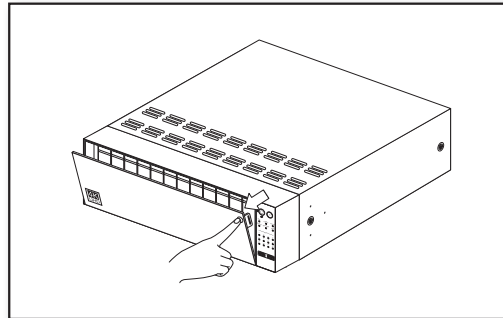
Précautions à prendre lors de l'installation d'un disque dur

1. Ne pas appliquer de force excessive sur le disque dur.
2. Assurez-vous de ne pas perdre les vis de désassemblage ou les accessoires.
 - Si les vis ou les accessoires ne sont pas correctement fixé(e)s, le produit pourra connaître une panne ou ne pas fonctionner correctement.
3. Vérifiez la compatibilité du disque dur avant de l'ajouter à l'enregistreur.
 - Contactez votre revendeur local pour obtenir la liste des périphériques compatibles.
4. Si vous souhaitez remplacer ou ajouter un disque dur, contactez avant tout votre revendeur ou notre service à la clientèle.
 - Seul l'administrateur du produit peut ouvrir l'habitacle du disque dur sur la face avant.

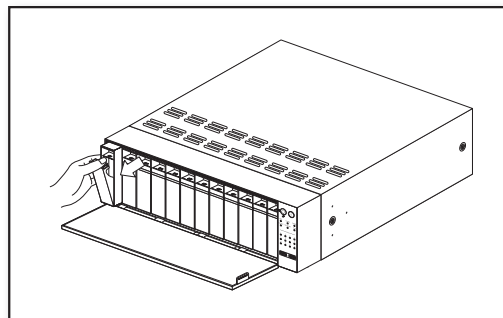
Installation du disque dur

- ! Si vous ajoutez un disque dur nouveau ou déjà utilisé à ce produit en plus du(es) disque(s) dur(s) installé(s) à l'origine, formatez le nouveau disque dur manuellement avant toute utilisation.
Pour savoir comment formater, voir « **Périph./format** » dans le manuel d'utilisation Wisenet NVR.
- Pour remplacer ou installer un disque dur supplémentaire, vous devez contacter votre revendeur ou notre service clientèle.

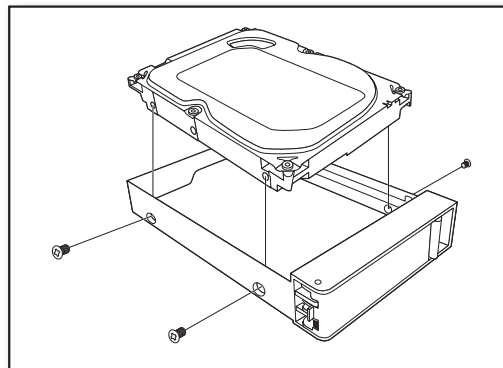
1. Appuyez sur le bouton <PUSH> à l'avant pour ouvrir le couvercle frontal.



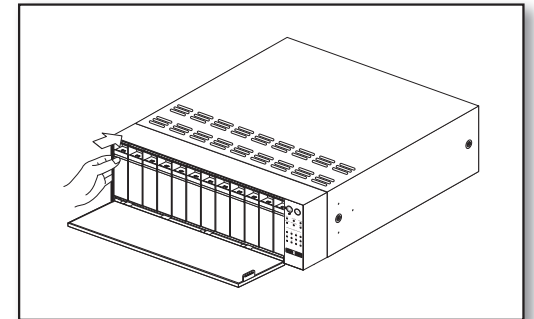
2. Après avoir appuyé sur le bouton bleu du support du disque dur, tirez-le manuellement pour séparer le support du disque dur du corps principal.



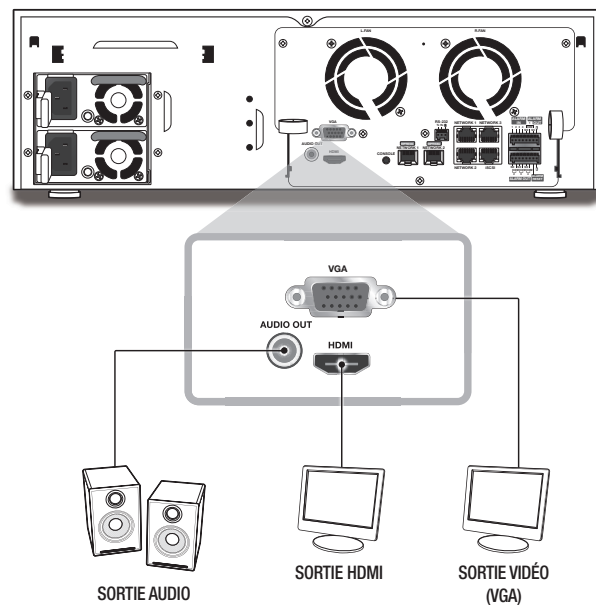
3. Montez le disque dur sur le support du disque dur et vissez-le à l'aide des vis fournies.



4. Une fois le disque dur monté sur le support, poussez le support dans le corps principal et fermez le couvercle frontal.



CONNEXION À UN PÉRIPHÉRIQUE EXTERNE

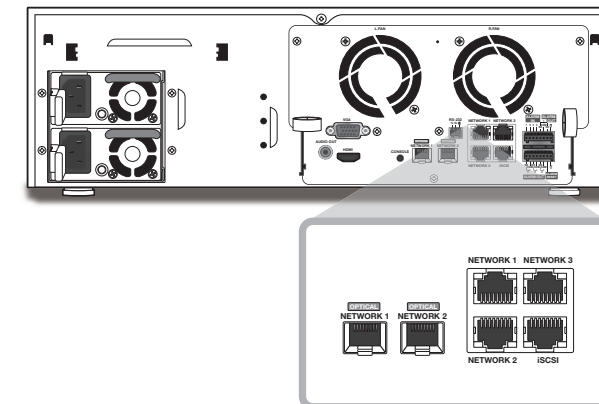


- ! Une source d'alimentation non adaptée ou ne fournissant pas le courant nominal approprié peut endommager le système. Assurez-vous que la valeur nominale de la source d'alimentation est adaptée avant d'appuyer sur le bouton de démarrage.

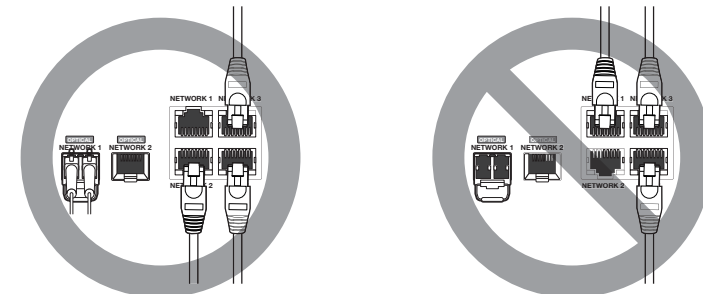
COMMENT CONNECTER UN MODULE OPTIQUE

La puissance nominale d'un module optique est de CC 3,3V 0,25A.

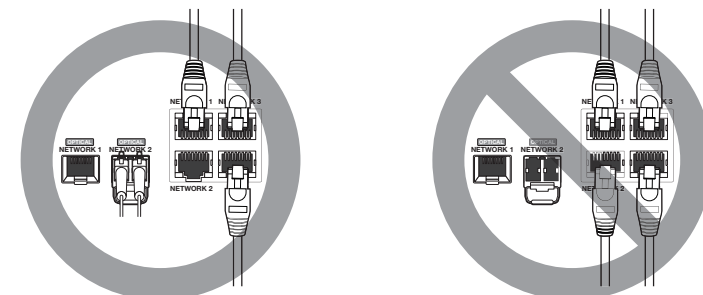
- Lorsqu'un module optique est installé, l'utilisation du port UTP est limitée.
- Installez un module optique uniquement si cela est nécessaire.



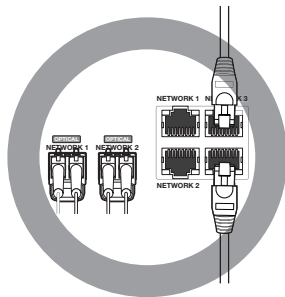
1. Le port [OPTICAL NETWORK1] est partagé avec le port [NETWORK1].



2. Le port [OPTICAL NETWORK2] est partagé avec le port [NETWORK2].

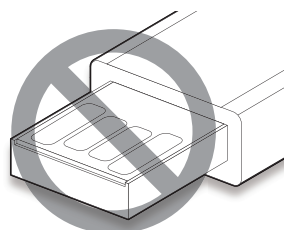
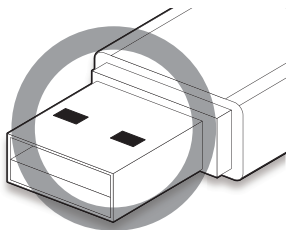


3. Le port [OPTICAL NETWORK1/2] est partagé avec le port [NETWORK1/2].



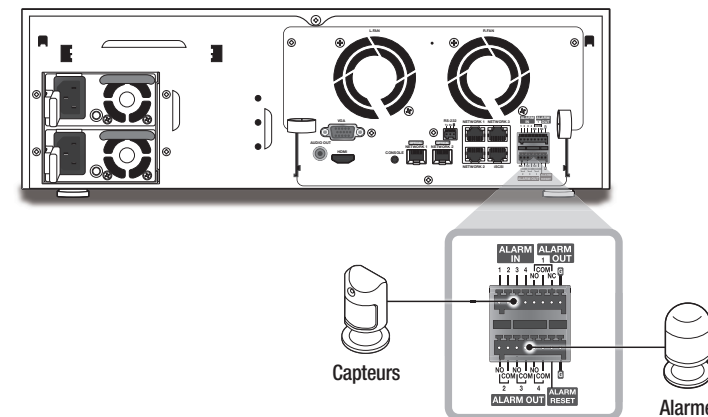
CONNEXION USB

1. Sur le devant du produit se trouve un port USB.
 2. Vous pouvez connecter au port USB un disque dur USB, une mémoire USB ou une souris.
 3. Si votre HDD USB est connecté au système, il peut être détecté et configuré en suivant les étapes dans « **Menu > Périph > Périph.stock.** » du manuel d'utilisation Wisenet NVR.
 4. L'appareil prend en charge la fonction de remplacement des composants à chaud, ce qui permet de connecter ou de déconnecter les périphériques USB alors que le système est en cours d'exécution.
- Si vous utilisez le périphérique USB à des fins de sauvegarde, formatez-le en FAT32 sur l'ordinateur au cas où celui-ci ne serait pas formaté sur l'enregistreur réseau.
 - Certains périphériques USB peuvent ne pas fonctionner correctement suite à des problèmes de compatibilité, veuillez donc vérifier le périphérique avant de l'utiliser.
 - Seuls les périphériques USB conformes aux normes (disposant d'un couvercle métallique) sont garantis pour le transfert de données.
 - En cas d'usure des contacts électrique du périphérique USB, le transfert de données entre les périphériques peut ne pas fonctionner correctement.

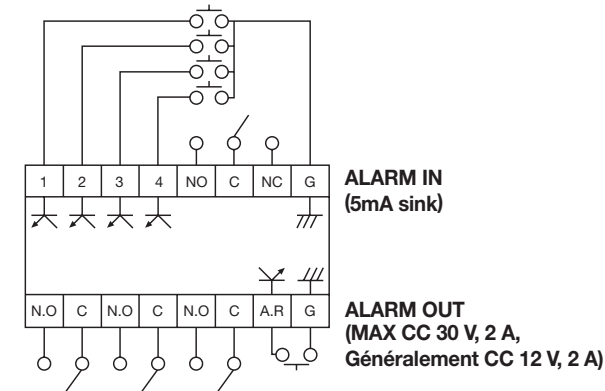


CONNEXION DE L'ENTRÉE/SORTIE D'ALARME

Le port d'entrée/sortie d'alarme situé à l'arrière de l'appareil est composé des éléments suivants.



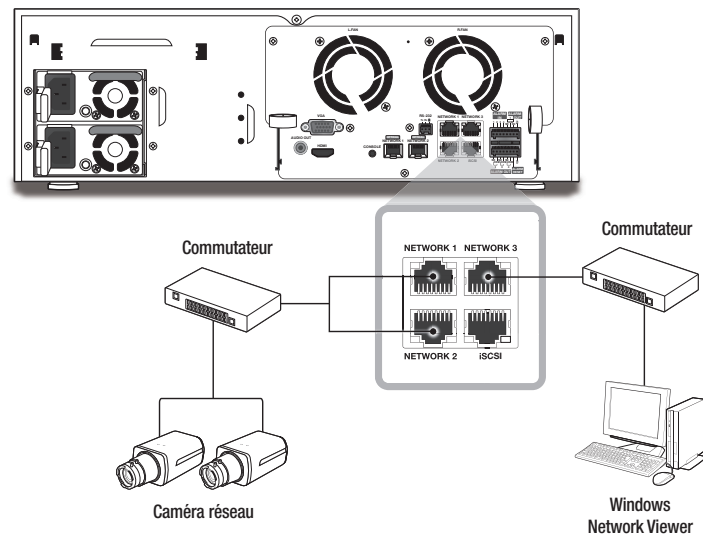
- ALARM IN 1 ~ 4 : Port d'entrée d'alarme
- ALARM RESET : À la réception d'un signal de réinitialisation d'alarme, le système annule l'entrée de l'alarme en cours et reprend la détection.
- ALARM OUT 1 ~ 4 : Port de sortie d'alarme



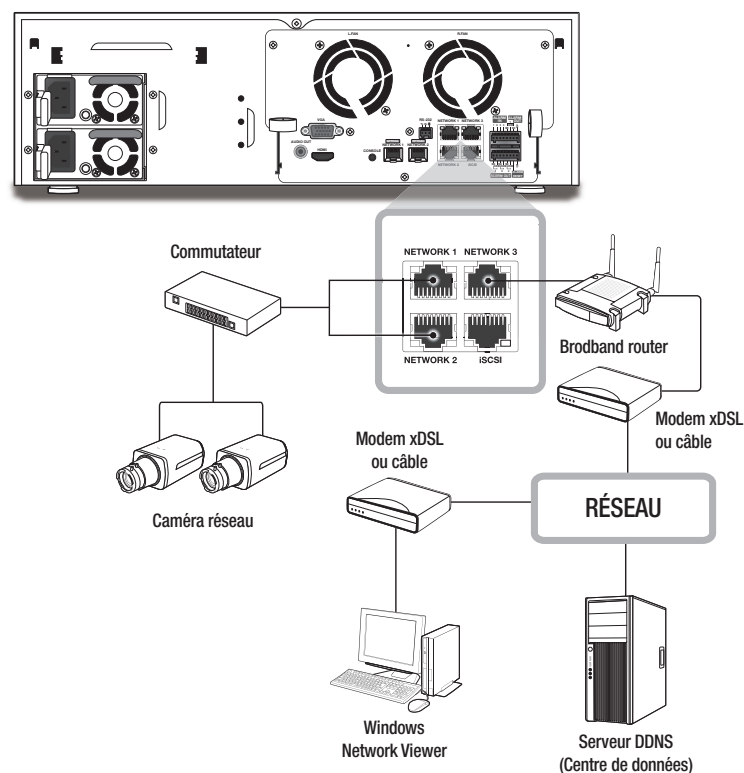
CONNEXION RÉSEAU

■ Pour plus d'informations sur la connexion réseau, voir « Configuration réseau » dans le manuel d'utilisation Wisenet NVR.

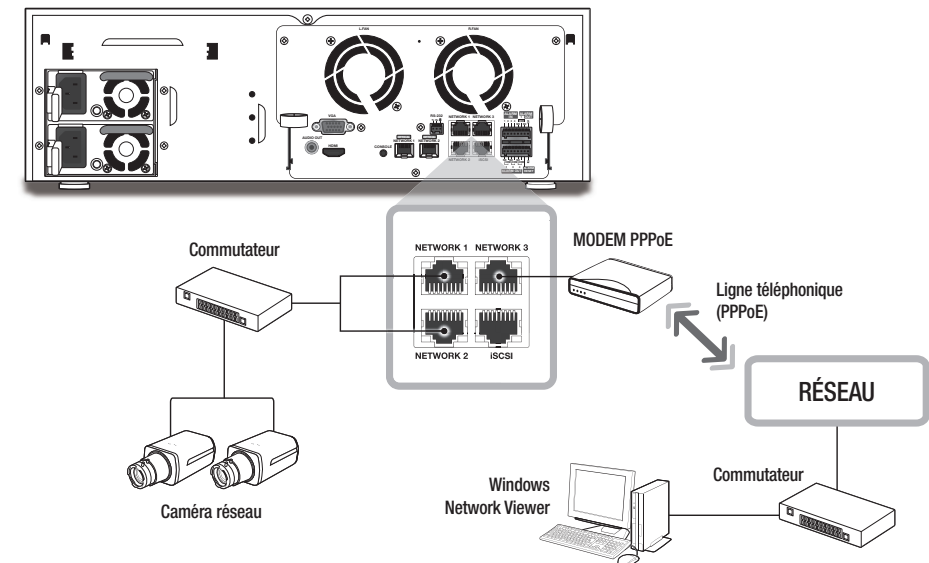
Connexion au réseau via Ethernet (10/100/1000BaseT)



Connexion au réseau via un routeur

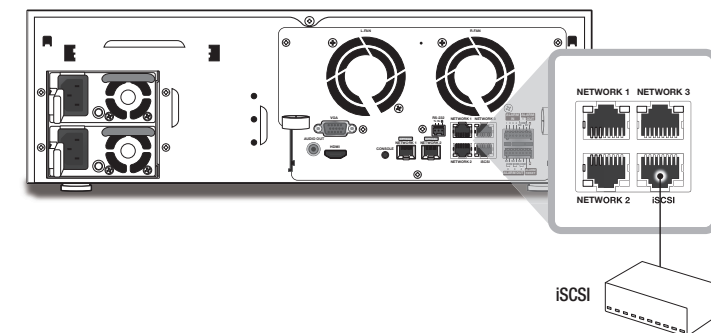


Connexion à Internet via PPPoE

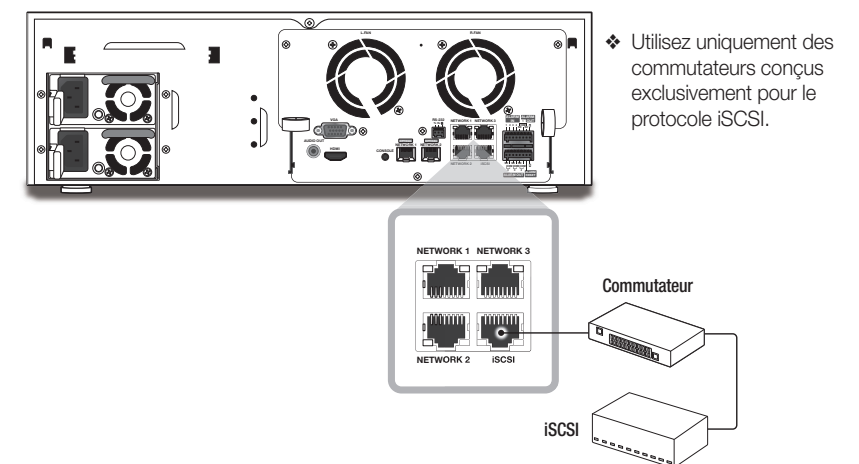


Connecter le iSCSI

Connecter directement au NVR



Un commutateur peut être utilisé pour la connexion



❖ Utilisez uniquement des commutateurs conçus exclusivement pour le protocole iSCSI.

Élément		Détails	
Display			
Caméra réseau	Entrées	64 canaux Max.	
	Résolution	CIF ~ 12MP	
	Protocoles	Wisenet, ONVIF	
Direct	Affichage local	1x HDMI / 1x VGA Moniteur double	
	Performances	[Moniteur Local] - 12M (30ips) - 8.3M (120ips) - 1080p (480ips) - 720P (960ips) - D1 (1920ips)	
Performances			
Système d'exploitation	Intégré	Linux	
Enregistrement	Compression	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	Bande passante d'enregistrement	Max. 250Mbps (Non RAID)	Max. 400Mbps (RAID-5/6)
	Résolution	CIF ~ 12MP	
Recherche et Lecture	Lecture de la bande passante	Max. 32Mbps (16ch simultanément)	
	Utilisateur	Max. 4 utilisateurs (1 en local, 3 à distance)	
	Lecture simultanée	Max. 16 canaux (Moniteur Local, CMS)	
	Résolution	CIF ~ 12MP	
	Suppression de flou sur l'objectif fisheye	WEB / CMS	
	Commande de lecture	Lecture rapide/au ralenti avant/arrière, Saut avant/Saut arrière	
Stockage	Intégré	0TB ~ 8TB	
	Disque dur interne	12 (Max. 96TB, Mode Non-RAID)	
	Externe	Stockage iSCSI (Max. 192TB)	
	RAID	RAID-5/6(Taille de tableau : 6-HDD x 2)	
Sauvegarde	Sauvegarde de fichiers	BU/Exe(GUI), JPG/AVI(Réseau)	
	Fonction	Lecture en multi-canaux (jusqu'à 16CH), Affichage Date-Heure / Titre	

Élément		Détails
Capteur	E/S	4/4 (NO/NC Sélectionnables)
Audio	Entrée	64 canaux (réseau)
	Compression	G.711, G.726, AAC(16/48KHz)
	Communication audio	Bidirectionnelle
Réseau		
Interface		RJ-45(Gigabit Ethernet) x4, SFP x2
Protocole		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Serveur, Client), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Serveur, Client)
DDNS		Hanwha DDNS
Bande passante de transmission		Max. 400Mbps
Nombre maximal d'utilisateurs distants		Recherche (3)/ Diffusion individuelle en direct (10) /Multidiffusion (20)
Version IP		IPv4/v6
Sécurité		Filtrage d'adresse IP, journal d'accès utilisateur, 802.1x, cryptage, Règle des deux hommes
Langue		Anglais, Français, Allemand, Italien, Espagnol, Russe, Turque, Polonais, Néerlandais, Suédois, Tchèque, Portugais, Danois, Roumain, Serbe, Croate, Hongrois, Grec, Norvégien, Finnois, Coréen, Chinois, Japonais, Thaï
SE		Window 7, 8, 10, Mac OS X(10.8 ou supérieur)
Navigateur Internet		MS IE, Google Chrome, Mac Safari
Logiciel d'affichage	Type	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer
	Prise en charge CMS	Prise en charge SDK/CGI(SUNAPI) pour intégration de VMS tierce
Fonctions		
PTZ	Commande	Via GUI, Webviewer, SPC-2000
	Pré-réglage	300 pré-réglages
Smartphone	Modèle de prise en charge	Android, iOS
	Prise en charge de protocoles	RTP, RTSP, HTTP, CGI (SUNAPI)
	Contrôle	Direct (16) : Prise en charge de plusieurs profils Playback (1)
	Nombre maximum d'utilisateurs distants	Recherche (3) / Diffusion individuelle en direct (10)

Élément		Détails
Redondance	Relais	N+1
	ARB	Oui
Commande du système		Souris, Web, SPC-2000(contrôleur)
Indicateur/Interface		
Face avant	Voyant	LED(Indicateur d'état) - Action du disque dur(12), État du RAID(1), Alarme(1), Alimentation(1), Enregistrement(1), Sauvegarde(1), Réseau(1)
Connecteurs	VGA	Sub : 1EA (Prend en charge écran en direct ayant jusqu'à 32 div.)
	HDMI	Principal : 1EA (Prennent tous en charge Direct / PB / Installation) - Prend en charge jusqu'à 4000 (3840 x 2160, mode un seul moniteur 64 div.)
	Audio	Sortie (1EA, RCA, Ligne)
	Ethernet	RJ-45 4EA (LAN/WAN, 1Gbps), 1000M SFP 2ea
	Alarme	1) Entrée(4EA, Bornier de connexion) 2) Alarm Reset(1EA) 3) Sortie(4EA, Bornier de connexion) - Relay Out1(NO/NC/COM) - Relay Out2~4(NO/COM)
	USB	2EA(Avant 2)
	Série	iSCSI
	Réinit.	RS-232C
	Réinitialisation	Commutateur(1EA)
	Cordon d'alimentation	Prise CA 2EA

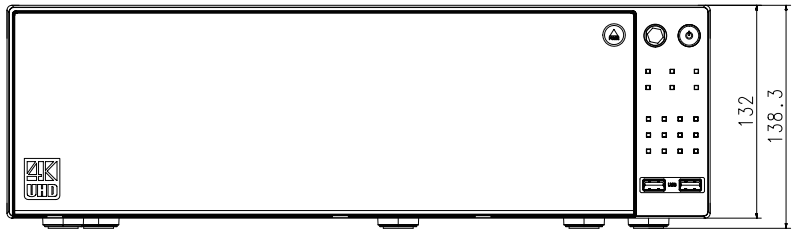
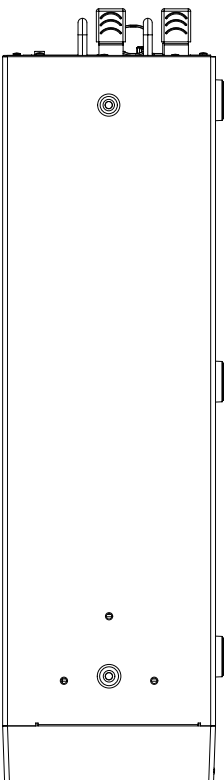
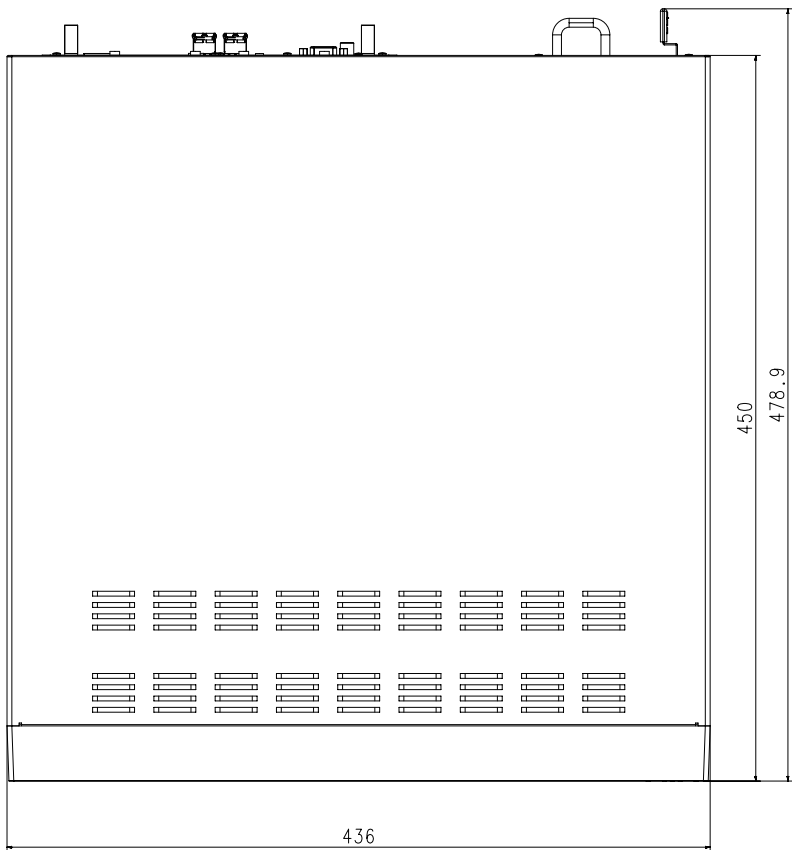
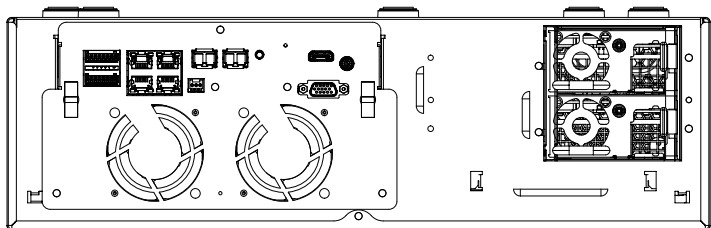
Élément		Détails
Système		
Journal	Liste des journaux	Max. 20,000 (Journal Système, Journal des Événements chacun)
Environnement		
Température de fonctionnement / Humidité		+0° C à +40° C (+32°F à +104°F)
Taux d'humidité		20 % ~ 85 % RH
Alimentation électrique		
Puissance		100 à 240 V CA ±10%; 50/60 Hz, 3~1.5A (Double SMPS)
Consommation électrique		Max. 250W (853 BTU avec HDD 12ea)
Mécanique		
Couleur/Matière		Noire/Métal
Dimensions (L x H x P)		L436.0 x H132.0 x P450.0mm (17.17" x 5.2" x 17.72") (3U)
Poids		Environ 11Kg (24.3 lb, Disque dur non-inclus)

Enregistrement des spécifications de performance pour l'état du disque dur

Unité : (Mbps)

Méthode de stockage	RCV	Enreg.			Transmission distante	Lecture
		Interne		iSCSI		
		Normal	Nouvelle création			
Interne (RAID5)	400	400	320	300	300	32
Interne (RAID6)	400	400	320	300	300	32
Un seul disque dur	400	250	-	250	300	32
iSCSI	300	-	-	300	300	32

※ Les performances de stockage Internet/iSCSI sont basées sur un scénario d'usage individuel



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Version 2, June 1991

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[sheepb.jpg] "Clone me," says Dolly sheepishly

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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 rcvbuf and iosignal code into separate modules.

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

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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

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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> 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> 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

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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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Hanwha Techwin se soucie de l'environnement à toutes les phases de fabrication du produit et s'engage à tout mettre en oeuvre pour offrir à ses clients des produits plus respectueux de l'environnement. La marque Eco représente l'engagement de Hanwha Techwin à créer des produits respectueux de l'environnement et indique que le produit est conforme à la Directive RoHS de l'Union européenne.



Les bons gestes de mise au rebut de ce produit (Déchets d'équipements électriques et électroniques)

(Applicable dans les pays de l'Union Européenne et dans d'autres pays européens pratiquant le tri sélectif)

Ce symbole sur le produit, ses accessoires ou sa documentation indique que ni le produit, ni ses accessoires électroniques usagés (chargeur, casque audio, câble USB, etc.) ne peuvent être jetés avec les autres déchets ménagers. La mise au rebut incontrôlée des déchets présentant des risques environnementaux et de santé publique, veuillez séparer vos produits et accessoires usagés des autres déchets. Vous favoriserez ainsi le recyclage de la matière qui les compose dans le cadre d'un développement durable.

Les particuliers sont invités à contacter le magasin leur ayant vendu le produit ou à se renseigner auprès des autorités locales pour connaître les procédures et les points de collecte de ces produits en vue de leur recyclage.

Les entreprises et professionnels sont invités à contacter leurs fournisseurs et à consulter les conditions de leur contrat de vente. Ce produit et ses accessoires ne peuvent être jetés avec les autres déchets professionnels et commerciaux.



Elimination des batteries de ce produit

(Applicable aux pays de l'Union européenne et aux autres pays européens dans lesquels des systèmes de collecte sélective sont mis en place.)

Le symbole sur la batterie, le manuel ou l'emballage indique que les batteries de ce produit ne doivent pas être éliminées en fin de vie avec les autres déchets ménagers. L'indication éventuelle des symboles chimiques Hg, Cd ou Pb signifie que la batterie contient des quantités de mercure, de cadmium ou de plomb supérieures aux niveaux de référence stipulés dans la directive CE 2006/66. Si les batteries ne sont pas correctement éliminées, ces substances peuvent porter préjudice à la santé humaine ou à l'environnement.

Afin de protéger les ressources naturelles et d'encourager la réutilisation du matériel, veuillez à séparer les batteries des autres types de déchets et à les recycler via votre système local de collecte gratuite des batteries.

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