

WISeNeT

ENREGISTREUR VIDÉO EN RÉSEAU

Manuel des spécifications du manuel

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

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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- 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.

Pour alimenter en toute sécurité, sélectionnez Quitter dans le menu et cliquez sur <OK> sur l'écran pop-up, puis débranchez le câble d'alimentation.

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.

Produits NVR prenant en charge chaque fonction

Fonction	Produits
Ventilateur	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
RAID	XRN-2011, XRN-2011A
iSCSI	XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
PoE	XRN-1610S,XRN-1610SA
P2P	XRN-3010A, XRN-2010A, XRN-2011A, XRN-1610A, XRN-1610SA
Télécommande	XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Joystick	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Moniteur étendu	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A, XRN-1610, XRN-1610A, XRN-1610S, XRN-1610SA
Basculement	XRN-3010, XRN-3010A, XRN-2010, XRN-2010A, XRN-2011, XRN-2011A
Enregistrement distribué	XRN-3010, XRN-3010A

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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.

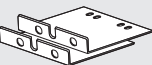
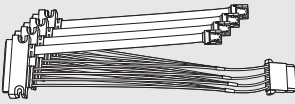
- Interface utilisateur conviviale
- Prend en charge une gamme de résolutions de caméra 4K (3840X2160, 4096X2160, 4000X3000)
- Génère une image 4K haute définition via HDMI
- Enregistrement et lecture vidéo
- Enregistrement et lecture de données audio
- Prend en charge la norme ONVIF Profile S et les 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, 3.0 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, Configuration Rapide)
- Prise en charge de la fonctionnalité de surveillance à distance du smartphone par le support P2P (XRN-2010A/2011A/3010A/1610A/1610SA)

Contenu

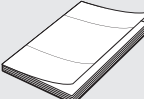
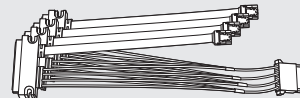
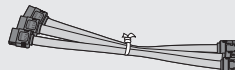
Déballez le produit et placez-le sur une surface plane ou à l'emplacement qui lui est réservé.
Vérifiez que les éléments suivants sont contenus dans l'emballage, en plus de l'unité principale.

- L'apparence des composants peut différer de l'image affichée.
- La catégorie et la quantité des accessoires peut varier en fonction de la région.
- Pour certains pays, le disque dur n'est pas pré-installé. La quantité des vis de fixation du disque dur, câble d'alimentation SATA, câble de donnée SATA et câble d'alimentation/données SATA varie selon le modèle.

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

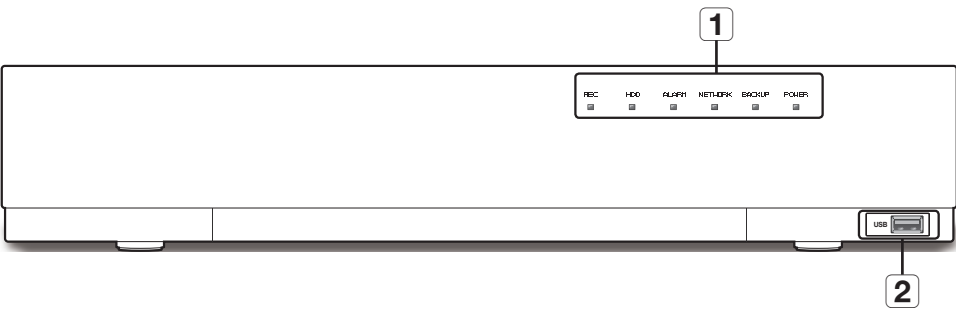
		
NVR	Souris	Cordon d'alimentation
		
Manuel de référence rapide	Bornier de connexion	Supports pour Rack
		
Vis de fixation du support	Câble d'alimentation/HDD SATA (N/D sur XRN-2011/2011A)	Vis de fixation du DD (N/D sur XRN-2011/2011A)

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

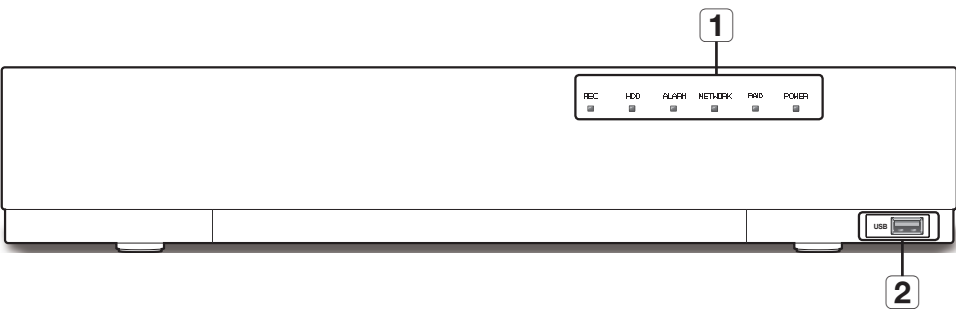
		
NVR	Souris	
		
Cordon d'alimentation	Bornier de connexion	
		
Manuel de référence rapide	Supports pour Rack	Vis de fixation du DD
		
Vis de fixation du support	Câble d'alimentation/HDD SATA (XRN-1610/1610A)	Câble d'alimentation SATA (XRN-1610S/1610SA)
		
Câble de données SATA (XRN-1610S/1610SA)		

NOMS DES COMPOSANTS ET FONCTIONS (FAÇADE)

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



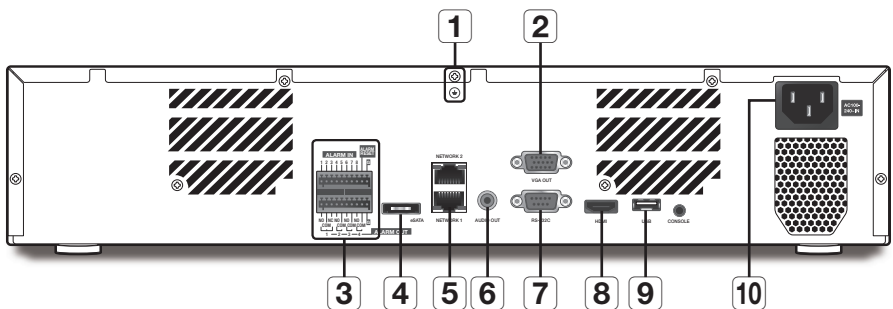
XRN-2011/2011A



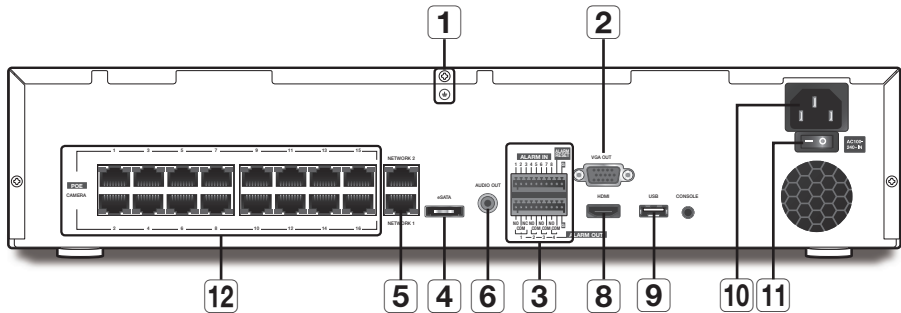
Noms des éléments		Fonctions
1	Voyant DEL	REC : S'allume l'enregistrement est en cours.
		HDD : Affiche l'accès normal au disque dur. Le voyant LED s'allume lors de l'accès au disque dur.
		ALARM : S'allume lorsqu'un événement se produit.
		NETWORK : Affiche la connexion au réseau et l'état du transfert des données.
		BACKUP : Reste ACTIVE lorsque la sauvegarde est en cours. (XRN-2010/2010A/3010/3010A/1610/1610S/1610A/1610SA)
		RAID : Reste ACTIVE lorsque le RAID est en cours d'utilisation. Elle clignote si la sauvegarde est activée pendant l'utilisation du RAID. Clignote lorsque la sauvegarde est en cours ; en cas de non-utilisation du RAID. (XRN-2011/2011A)
		POWER : Affiche le statut de l'alimentation ARRET / MARCHE.
2	USB	Permet de connecter les périphériques USB. (Port USB 2.0 pris en charge)

NOMS DES COMPOSANTS ET FONCTIONS (PANNEAU ARRIÈRE)

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



XRN-1610S/1610SA



Noms des éléments		Fonctions
1	Connexion au sol	Terminal permettant de connecter un câble de terre séparé. ■ Ajouter un câble de terre pour prendre en charge une utilisation sûre du dispositif.
2	VGA OUT	Port de sortie du signal vidéo VGA.
3	ALARM	- ALARM IN : Ports d'entrée d'alarme. (1~8 CH) - ALARM RESET : Port de réinitialisation d'alarme. - ALARM OUT : Ports de sortie d'alarme. (1~4 CH)
4	eSATA	Terminal permettant de connecter un support de stockage externe.
5	NETWORK1	Port recommandé pour la connexion de la caméra, qui reçoit une image de la caméra.
6	NETWORK2	Port recommandé pour la connexion avec un réseau, une visionneuse Web ou un protocole iSCSI.
7	AUDIO OUT	Port de sortie du signal audio (prise RCA).
8	RS-232C	Tête de câble pour une communication en série (pièce de rechange).
9	HDMI	Port de connecteur HDMI.
10	USB	Permet de connecter les périphériques USB. (Port USB 3.0 pris en charge)
11	Puissance	Borne de connexion de l'alimentation.
12	Commutateur d'alimentation	Interrupteur marche/arrêt. (XRN-1610S/1610SA)
13	PoE (CAMERA)	Port d'alimentation permettant de connecter une caméra. (XRN-1610S/1610SA)

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

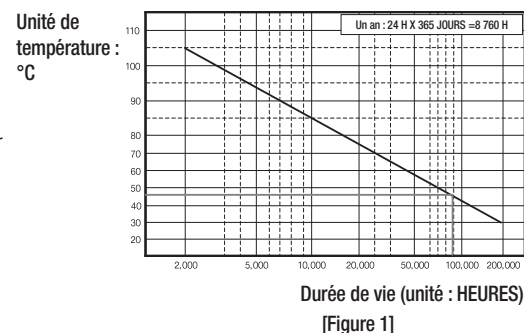
Voici quelques recommandations importantes qu'il convient de respecter avant d'utiliser le produit.

- 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

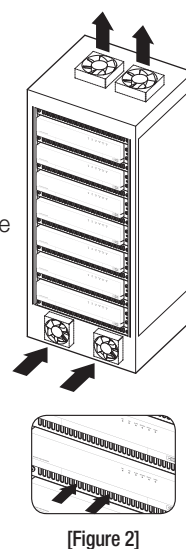
Cet appareil est un périphérique hautement sécurisé équipé d'un disque dur de grande capacité et de circuits imprimés majeurs.

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.

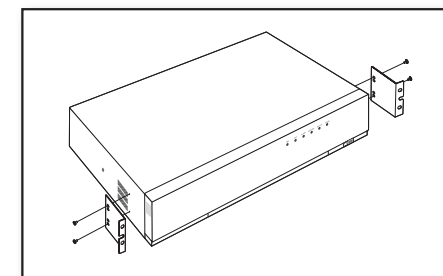
1. Vérifiez que l'intérieur du rack n'est pas hermétique.
2. Vérifiez que la circulation de l'air est assurée au niveau des entrées/sorties tel qu'indiqué sur l'illustration.
3. Si vous empilez les appareils ou d'autres périphériques de montage en rack comme indiqué sur la figure 2, libérez de l'espace 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.



INSTALLATION DU RACK

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

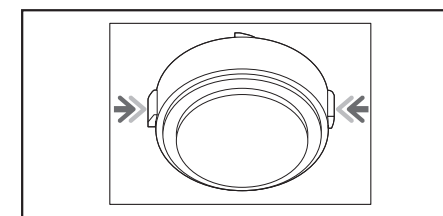
- Serrez les vis de sorte que les vibrations ne les desserrent pas.



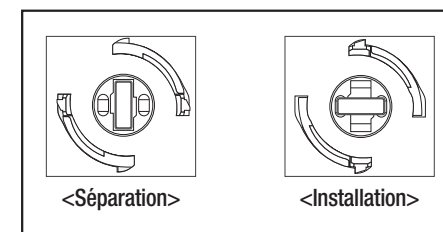
Prudence lors de l'installation du casier

Pour installer plusieurs NVR dans le casier, veillez à séparer le PIED au bas de chaque NVR.

1. Il y a quatre PIEDs au bas d'un NVR. Appuyez sur les pièces projetées sur les deux extrémités de chaque « PIED » et tournez-le dans le sens antihoraire.



2. Le « PIED » est séparé du corps principal quand il est tourné vers la rainure de fixation.



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.
 Veuillez 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 8 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.

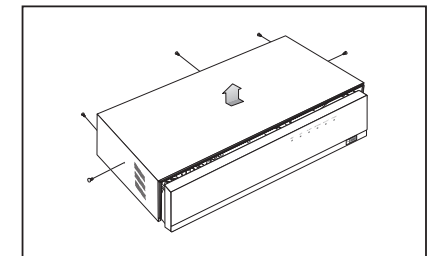
Installation du disque dur



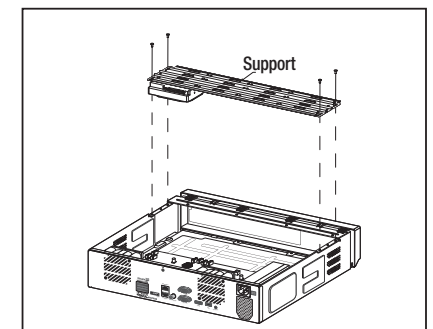
- Si vous ajoutez un disque dur nouveau ou déjà utilisé à ce produit en plus du(es) disque(s) dur(s) installé(s) à l'origine, formatez le nouveau disque dur manuellement avant toute utilisation.
 Pour savoir comment formater, voir « **Périph./format** » dans le manuel d'utilisation Wisenet NVR.

Comment installer un disque dur dans le modèle XRN-2010/2010A/3010/3010A/1610/1610A/1610S/1610SA

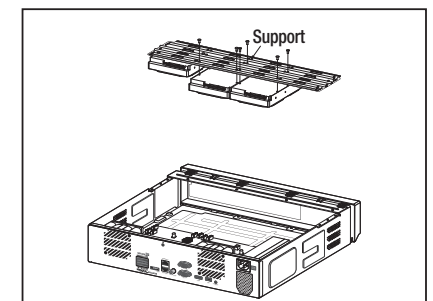
1. Retirez les vis situées sur le côté gauche / droit et sur la face arrière, puis retirez le couvercle.



2. Retirez les vis sur le côté gauche / droit (4 vis), puis retirez le support.

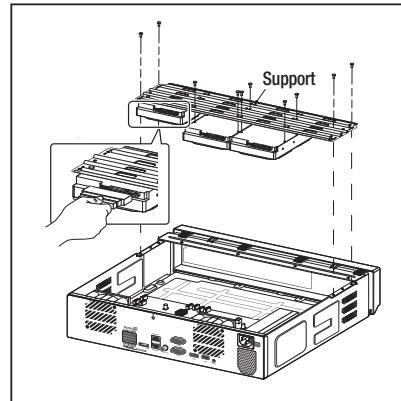


3. Montez un disque dur sur le support et fixez-le à l'aide de vis.



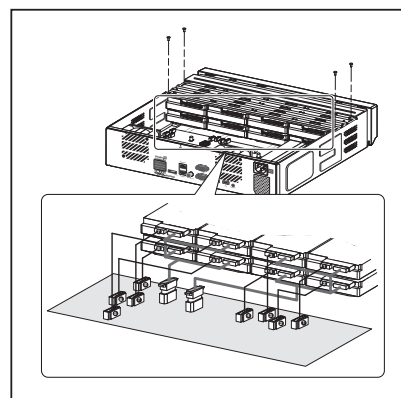
4. Connecte le câble au disque dur en comparant le numéro du câble HDD SATA / câble d'alimentation au numéro de position du disque dur sur le support.

- Pour la position du disque dur sur le support, reportez-vous au schéma ci-dessous.

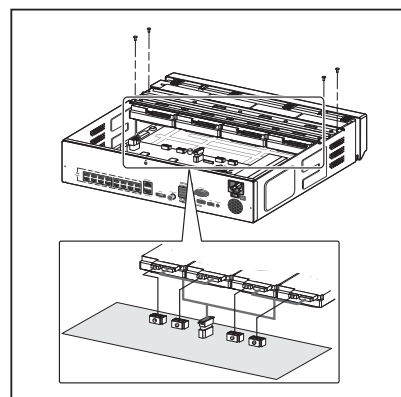


5. Montez le support sur lequel un disque dur supplémentaire est monté au NVR, fixez-le à l'aide de vis, puis connectez le câble d'alimentation / SATA au connecteur en vous référant au numéro correspondant sur la carte mère.

- Pour la position du connecteur, reportez-vous au schéma ci-dessous.

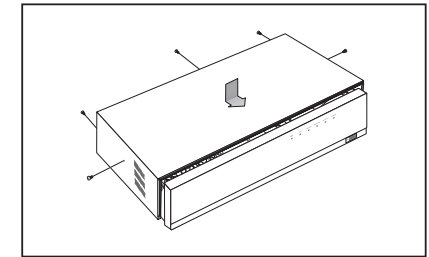


<XRN-2010/2010A/3010/3010A/1610/1610A>



<XRN-1610S/1610SA>

6. Vérifiez qu'il n'existe aucun problème au niveau de la borne de connexion et du câblage dans le produit, fermez le couvercle et fixez-le à l'aide de vis.

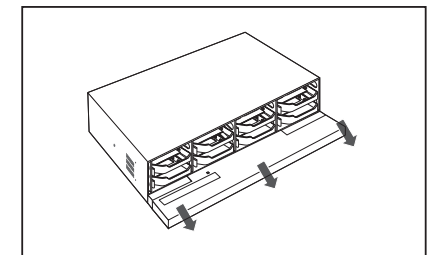


Comment installer un disque dur dans le modèle XRN-2011/2011A

1. Ouvrir le couvercle avant et vérifier le support d'installation du disque dur.



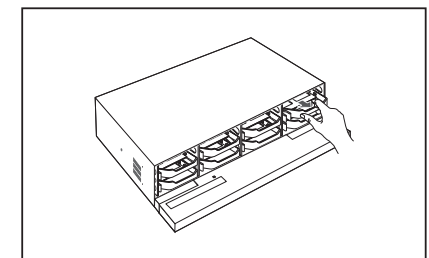
- Libérer la connexion USB avant d'ouvrir le couvercle avant afin d'éviter tout dommage au port USB.



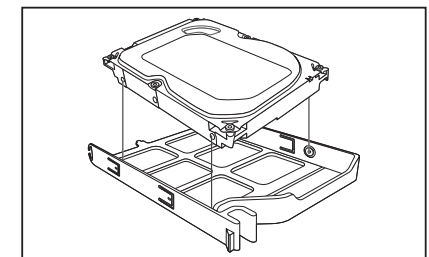
2. Pousser le verrou vers la droite et retirer le support du disque dur.



- Veiller à ne pas égratigner vos mains lors du retrait du support du disque dur.



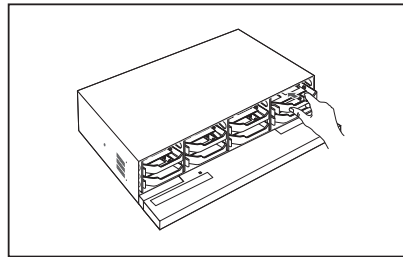
3. Aligner et insérer le disque dur dans le support. Après avoir inséré un côté, pousser et insérer légèrement l'autre côté.



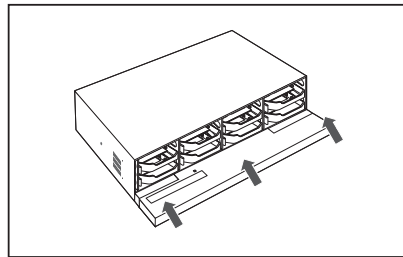
4. Aligner le support avec le disque dur installé à l'aide du verrou du boîtier, et pousser le support dans le sens de la carte.



- Le pousser jusqu'à ce que vous entendiez un clic d'emboîtement. Si le disque dur n'est pas complètement connecté, il peut être détecté.



5. Pousser le couvercle avant vers le haut et le fermer.

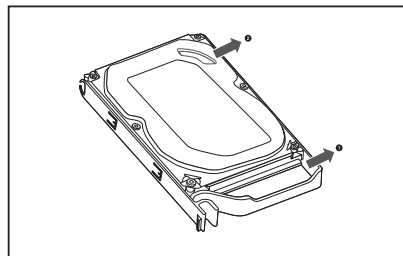


• Comment remplacer un disque dur installé

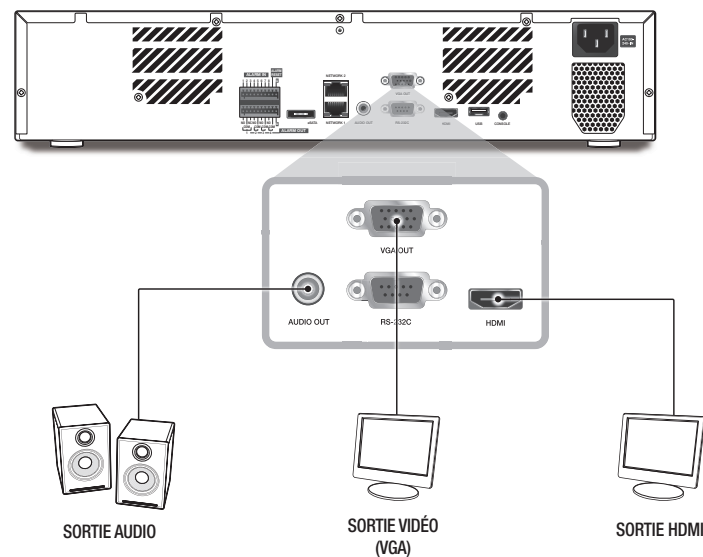
1. Ouvrir entièrement le support dans le sens de la flèche et retirer le support du disque dur.
2. Ouvrir entièrement l'autre support et le retirer du support.



- La procédure après l'échange du disque est identique à celle de la section « **Comment installer le disque dur** ».



CONNEXION À UN PÉRIPHÉRIQUE EXTERNE

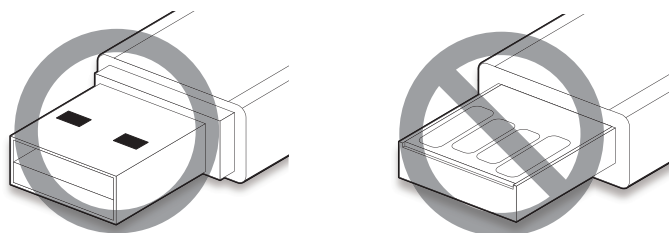


- ! Une source d'alimentation non adaptée ou ne fournissant pas le courant nominal approprié peut endommager le système. Assurez-vous que la valeur nominale de la source d'alimentation est adaptée avant d'appuyer sur le bouton de démarrage.

CONNEXION USB

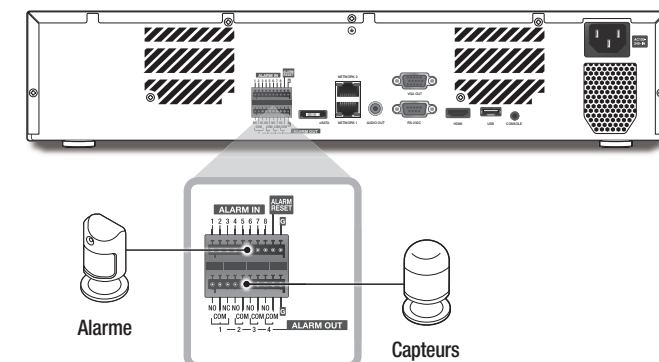
1. Sur le devant du produit se trouve un port USB.
2. Vous pouvez connecter au port USB un disque dur USB, une mémoire USB ou une souris.
3. Si votre HDD USB est connecté au système, il peut être détecté et configuré en suivant les étapes dans « **Menu > Périph > Périph.stock.** » du manuel d'utilisation 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.

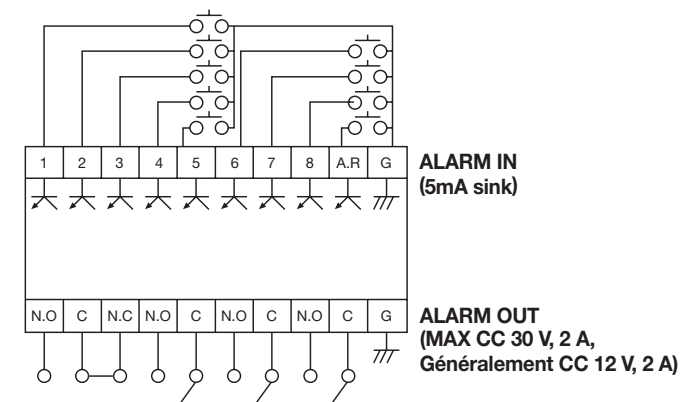


CONNEXION DE L'ENTRÉE/SORTIE D'ALARME

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



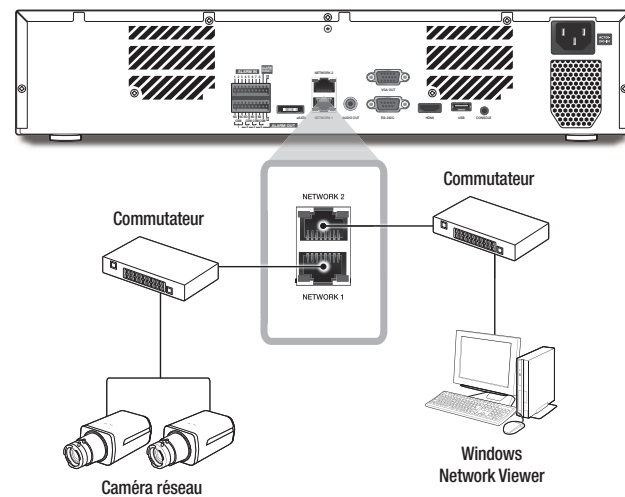
- ALARM IN 1 ~ 8 : Port d'entrée d'alarme
- ALARM RESET : À la réception d'un signal de réinitialisation d'alarme, le système annule l'entrée de l'alarme en cours et reprend la détection.
- ALARM OUT 1 ~ 4 : Port de sortie d'alarme



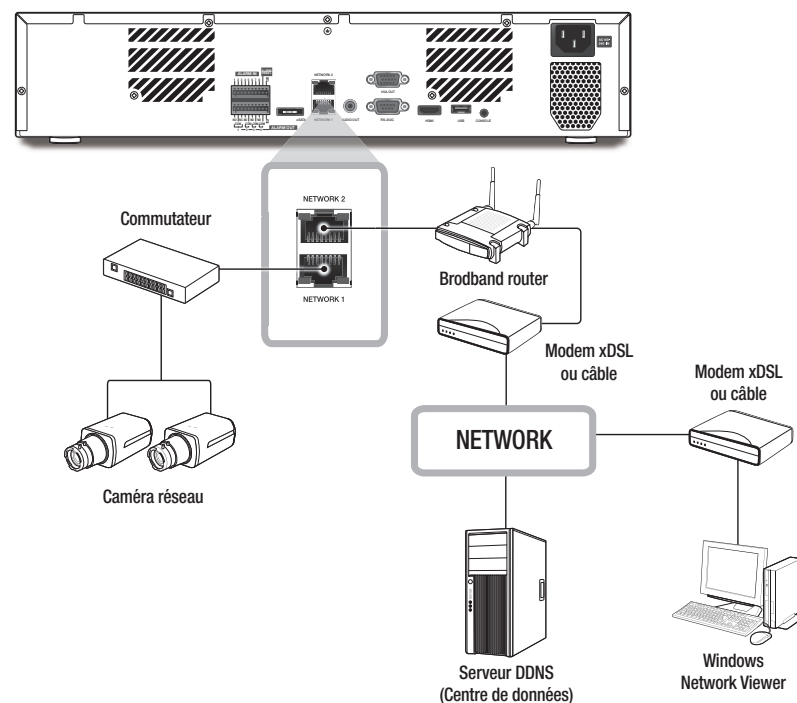
CONNEXION RÉSEAU

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

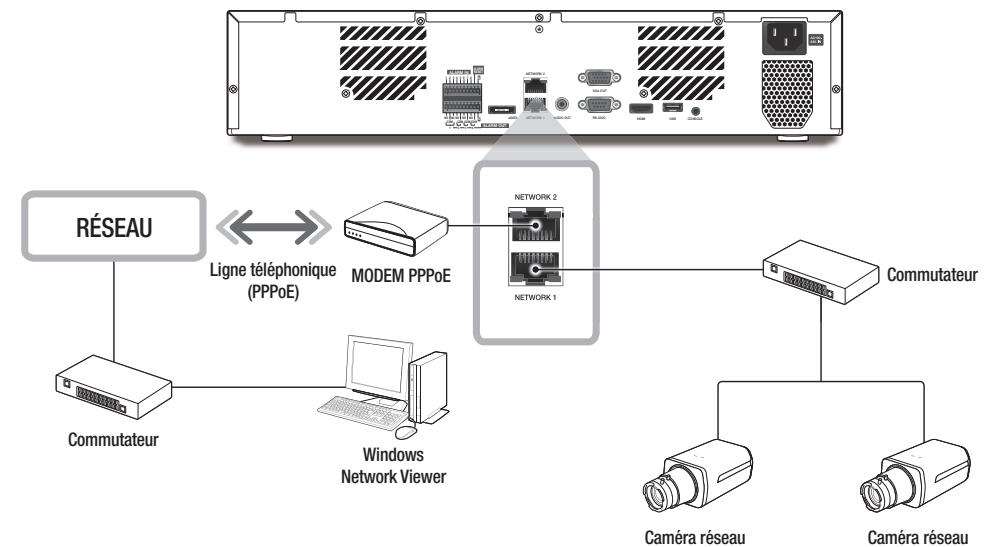
Connexion au réseau via Ethernet (10/100/1000BaseT)



Connexion au réseau via un routeur

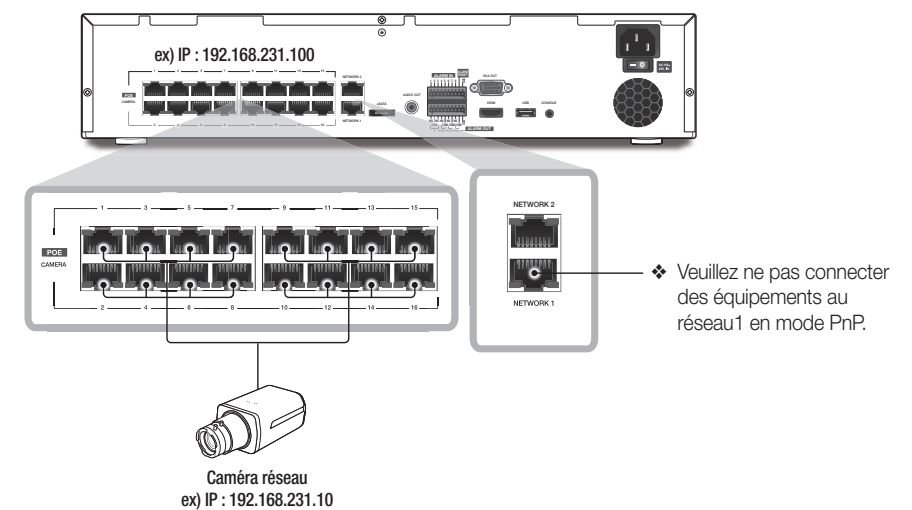


Connexion à Internet via PPPoE

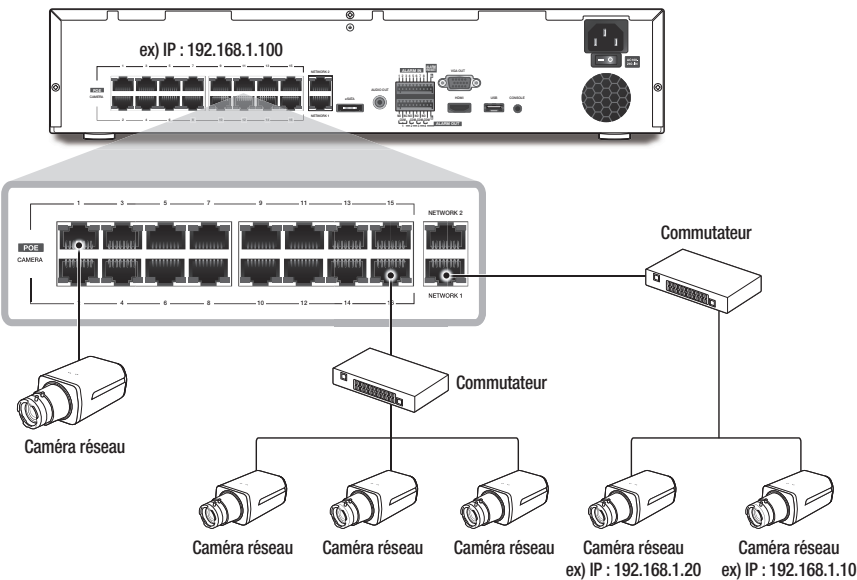


Connexion de la caméra réseau (XRN-1610S/1610SA)

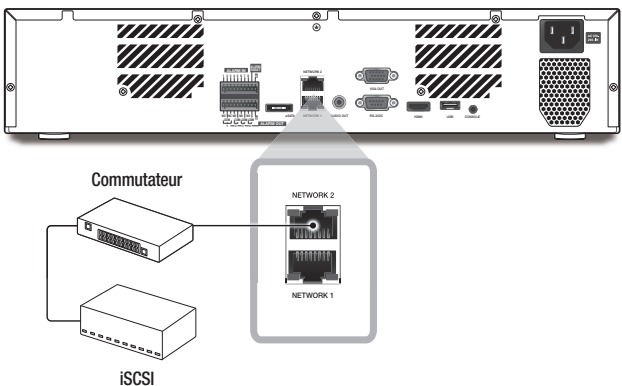
Par ex. 1)



Par ex. 2)

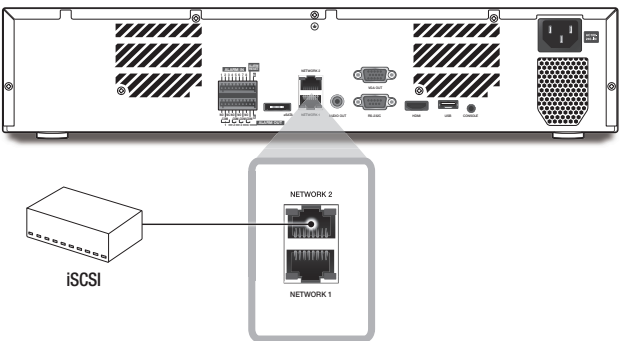


Un commutateur peut être utilisé pour la connexion



Connecter le iSCSI

Connecter directement au NVR



• XRN-2010/2011/2010A/2011A

Élément		Détails	
		XRN-2010/2010A	XRN-2011/2011A
Display			
Caméra réseau	Entrées	32 canaux Max.	
	Résolution	CIF ~ 12MP	
	Protocoles	Wisenet, ONVIF	
Direct	Affichage local	1x HDMI / 1x VGA	
Performances			
Système d'exploitation	Intégré	Linux	
Enregistrement	Compression	H.265, H.264, MJPEG	
	Bande passante d'enregistrement	Max. 256Mbps(enregistrement en temps réel avec 32 caméras 2MP)	Max. 100Mbps(Mode RAID-5)
	Résolution	CIF ~ 12MP	
Recherche et Lecture	Lecture de la bande passante	32Mbps (16ch simultanément)	
	Lecture simultanée	16 canaux (Moniteur Local, CMS)	
	Résolution	CIF ~ 12MP	
	Commande de lecture	Lecture rapide/au ralenti avant/arrière, Saut avant/Saut arrière	
Stockage	Intégré	1 EA	
	Disque dur interne	8 (RAID5 : Changement rapide) - Max. 48TB(Non-RAID), Max. 36TB(RAID-5)	
	Externe	Stockage iSCSI (Max. 384TB)	
	RAID	-	RAID-5 (Taille de tableau : 4-HDD x 2)
Sauvegarde	Sauvegarde de fichiers (via Internet)	BU/Exe(GUI), JPG/AVI(Réseau)	
	Fonction	Lecture Max. 16CH, Affichage Date- Heure/Titre	

Élément		Détails	
		XRN-2010/2010A	XRN-2011/2011A
Capteur	E/S	8/4 (NO/NC Sélectionnables)	
Audio	Entrée	32 canaux (réseau)	
	Compression	G.711, G.726, AAC(16/48KHz)	
	Communication audio	Bidirectionnelle	
Réseau			
Interface		RJ-45, Gigabit Ethernet 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	
Transmission Bandwidth		512 Mbps(iSCSI Off), 256 Mbps(iSCSI ON)	
Nombre maximal d'utilisateurs distants		Recherche (3)/ D iffusion individuelle en direct (10) /Multidiffusion en direct (20)	
Version IP		IPv4/v6	
Sécurité		Registre d'accès utilisateur, Filtrage IP, 802.1x, Cryptage	
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		Windows 7, 8.1, 10, Mac OS X 10.9, 10.10, 10.11	
Navigateur Internet		MS IE, Google Chrome, Mac Safari	
Logiciel d'affichage	Type	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer	
	Prise en charge CMS	SDK/CGI	
Smartphone	Modèle de prise en charge	Android, iOS	
	Prise en charge de protocoles	RTP, RTSP, HTTP, CGI	
	Contrôle	Direct (16), Playback(1)	
	Nombre maximum d'utilisateurs distants	Recherche (3) / Diffusion individuelle en direct (10)	

Élément		Détails	
		XRN-2010/2010A	XRN-2011/2011A
Fonctions			
PTZ	Commande	Via GUI, Webviewer, SPC-2000	
	Pré-réglage	300 pré-réglages	
Redondance	Relais	32 (Normal) + 1 (Veille)	
	ARB	Oui	
Commande du système		Souris, Web, SPC-2000(contrôleur)	
Indicateur/Interface			
Face avant	Voyant	LED Indicateur d'état : Action du disque dur(1), Alarme(1), Alimentation(1), Enregistrement(1), Sauvegarde(1), Réseau(1)	LED Indicateur d'état : Action du disque dur(1), Alarme(1), Alimentation(1), Enregistrement(1), RAID(1), Réseau(1)
	Commutateur	N/A	
Connecteurs	VGA	1 EA (Mode écran partagé en 16 Support Live)	
	HDMI	1 EA (Assistance Live/PB/Installation) - Assistance Max. 4K (3840 x 2160)	
Connecteurs	Audio	Sortie (1EA, RCA, Ligne)	
	Ethernet	RJ-45 2EA (LAN/WAN, 1Gbps)	
	Alarme	1) Entrée(8EA, 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(Avant1, Arrière1(USB3.0))	
	Série	1 e-SATA	
	Réinit.	RS-232C	
	Réinitialisation	-	
	Cordon d'alimentation	Prise CA 1EA	

Élément		Détails	
		XRN-2010/2010A	XRN-2011/2011A
Système			
Journal	Liste des journaux	Max. 20000 (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, 4~1.5A	
Consommation électrique		99W (6TB HDD x 8ea)	
Mécanique			
Couleur/Matière		Noire/Métal	
Dimensions (L x H x P)		440x88x384.8 (17.32" x 3.46" x 15.15") (2U)	
Poids		4.86 kg (Aucun DD disponible)	5.43 kg (Aucun DD disponible)
Normes			
Homologations		UL, FCC, KC, CB, CE-EMC, CCC, EAC, PSE	

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

Non	État du disque dur	Réception (Mbps)	Enregistrement (Mbps)	
			Interne	iSCSI
1	Disque dur pour CE / Pas de RAID	256	256	-
2	Disque dur pour CE / RAID 5	100	100	-
3	Disque dur pour serveur / Pas de RAID	256	256	256
4	Disque dur pour serveur / RAID 5	100	100	100

• XRN-3010/3010A

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 (30fps) - 8.3M (120fps) - 1080p (480fps) - 720P (960fps) - D1 (1560fps)
Performances		
Système d'exploitation	Intégré	Linux
Enregistrement	Compression	H.265, H.264, MJPEG, WiseStream(H.265, H.264)
	Bande passante d'enregistrement	Max. 300Mbps
	Résolution	CIF ~ 12MP
Recherche et Lecture	Lecture de la bande passante	32Mbps (16ch simultanément)
	Utilisateur	Max. 4 utilisateurs (1 en local, 3 à distance)
	Lecture simultanée	Max. 16 canaux (Moniteur Local, CMS)
	Résolution	CIF ~ 12MP
	Dewarping Fisheye	Web / CMS
	Commande de lecture	Lecture rapide/au ralenti avant/arrière, Saut avant/Saut arrière
Stockage	Intégré	0TB ~ 8TB
	Disque dur interne	8 (Max. 64TB)
	Externe	-

Élément		Détails
Sauvegarde	Sauvegarde de fichiers (via Internet)	BU/Exe(GUI), JPG/AVI(Réseau)
	Fonction	Lecture en multi-canaux (jusqu'à 16CH), Affichage Date-Heure / Titre
Capteur	E/S	8/4 (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 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
Transmission Bandwidth		XRN-3010 : 512Mbps XRN-3010A : 512Mbps(P2P Off), 256Mbps(P2P On)
Nombre maximal d'utilisateurs distants		Recherche (3)/ Diffusion individuelle en direct (10) /Multidiffusion (20)
Version IP		IPv4/v6
Sécurité		Registre d'accès utilisateur, Filtrage IP, 802.1x, Cryptage
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	SDK/CGI (SUNAPI)
Fonctions		
PTZ	Commande	Via GUI, Webviewer, SPC-2000
	Pré-réglage	300 pré-réglages

Élément		Détails
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) / Multidiffusion (20)
Redondance	Relais	N+1 (Include Fail-Back)
	ARB	Oui
Commande du système		Souris, Web, SPC-2000(contrôleur)
Indicateur/Interface		
Face avant	Voyant	LED Indicateur d'état (6EA) : Action du disque dur(1), Alarme(1), Alimentation(1), Enregistrement(1), Sauvegarde(1), Réseau(1)
Connecteurs	VGA	Sub : 1EA (Prend en charge écran en direct ayant jusqu'à 16 div.)
	HDMI	Principal : 1EA (Prennent tous en charge Direct / PB / Installation) - Prend en charge jusqu'à 4000 (3840 x 2160, mode un seul moniteur)
Connecteurs	Audio	Sortie (1EA, RCA, Ligne)
	Ethernet	RJ-45 2EA (LAN/WAN, 1Gbps)
	Alarme	1) Entrée(8EA, 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(Avant1, Arrière1)
	Série	1 e-SATA
	Réinit.	RS-232C
	Réinitialisation	Commutateur(1EA)
	Cordon d'alimentation	Prise CA 1EA

Élément		Détails
Système		
Journal	Liste des journaux	Max. 20000 (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, 4~1.5A
Consommation électrique		Max. 99W (338BTU, 6TB HDD x 8ea)
Mécanique		
Couleur/Matière		Noire/Métal
Dimensions (L x H x P)		L440xH88xP384.8 (17.32" x 3.46" x 15.15") (2U)
Poids		4.86Kg(10.71 lb, Disque dur non-inclus)

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

Mode	État du disque dur	Enregistrement
		Interne
Mode général	-	150
Mode distribué	1 HDD	150
	2 ou plusieurs HDD	300

• XRN-1610/1610S/1610A/1610SA

Élément		Détails	
		XRN-1610/1610A	XRN-1610S/1610SA
Display			
Caméra réseau	Entrées	16 canaux Max.	
	Résolution	CIF ~ 12MP	
	Protocoles	Wisenet, ONVIF	
Direct	Affichage local	1x HDMI / 1x VGA Moniteur double	
	Performances	[Moniteur Local] 12MP (30fps) 8MP(120fps) 5MP(180fps), 3MP(240fps), 2MP(480fps), 720p(480fps), D1(480fps) [Web] 5MP(30fps), 3MP(60fps), 2MP(120fps), 720p(240fps), D1(480fps)	
Performances			
Système d'exploitation	Intégré	Linux	
Enregistrement	Compression	H.265, H.264, MJPEG, WiseStream(H.265, H.264)	
	Bande passante d'enregistrement	180Mbps	
	Résolution	CIF ~ 12MP	
Recherche et Lecture	Lecture de la bande passante	32Mbps (16ch simultanément)	
	Performances	Max. 4 utilisateurs (définit 1, à distance 3)	
	Lecture simultanée	Jusqu'à 16CH (local, réseau)	
	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 par défaut	0TB ~ 6TB	
	Interne	8 SATA (Max. 48TB)	4 SATA (Max. 24TB)
	Externe	1 e-SATA, iSCSI (maxi 384To)	
Sauvegarde	Format de fichier	BU/Exe(GUI), JPG/AVI(Réseau)	
	Fonction	Lecture Max. 16CH, Affichage Date- Heure/Titre	

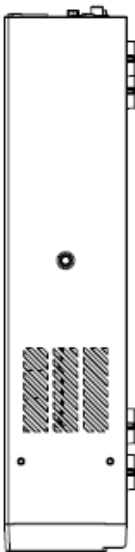
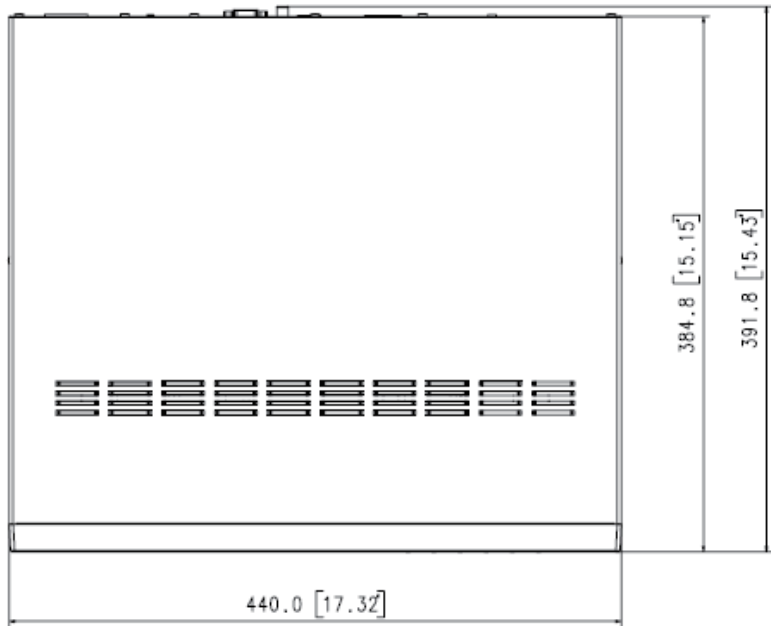
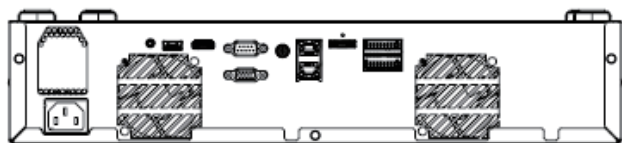
Élément		Détails	
		XRN-1610/1610A	XRN-1610S/1610SA
Capteur	E/S	8/4 (NO/NC Sélectionnables)	
Audio	Entrée	16 canaux (réseau)	
	Compression	G.711, G.726, AAC(16/48KHz)	
	Communication audio	Bidirectionnelle (Passage entre caméra et SSM)	
Réseau			
Protocole		TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, DHCP (Serveur, Client), PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, uPnP, HTTPS, SNMP, ONVIF (Profile-S), SUNAPI(Serveur, Client)	
DDNS		Hanwha DDNS	
Transmission Bandwidth		Max. 256Mbps(iSCSI Off), Max. 128Mbps(iSCSI ON)	
Nombre maximal d'utilisateurs distants		Recherche (3)/ Diffusion individuelle en direct (10) /Multidiffusion en direct (20)	
Version IP		IPv4/v6	
Sécurité		Registre d'accès utilisateur, Filtrage IP, 802.1x, Cryptage (ID / MDP, Enregistrement, Transmission, Sauvegarde)	
Langue	GUI	Anglais, Français, Allemand, Italien, Espagnol, Russe, Turque, Polonais, Néerlandais, Suédois, Tchèque, Portugais, Danois, Roumain, Serbe, Croate, Hongrois, Grec, Norvégien, Finnois, Coréen, Chinois, Japonais, Thaï	
	Web	Anglais, Français, Allemand, Italien, Espagnol, Russe, Turque, Polonais, Néerlandais, Suédois, Tchèque, Portugais, Danois, Roumain, Serbe, Croate, Hongrois, Grec, Norvégien, Finnois, Coréen, Chinois, Japonais	
SE		Windows XP (Service Pack 2 ou supérieur), Vista, 7, 8, 10, Mac OS X (10.7 ou supérieur)	
Navigateur Internet		Visualiseur Web sans plugin Navigateur pris en charge : Google Chrome 47, MS Edge 20 WMF : 1CH LIVE(800X600), PARAMETRAGE Visualiseur Web avec plugin Navigateur pris en charge : MS Explore 11, Mozilla Firefox 43, Apple Safari 9 * Mac OS X uniquement	
Logiciel d'affichage	Type	SSM, Webviewer, SmartViewer, Wisenet Mobile Viewer	
	Prise en charge CMS	SDK/CGI (SUNAPI)	

Élément		Détails	
		XRN-1610/1610A	XRN-1610S/1610SA
Smartphone	Modèle de prise en charge	Android, iOS	
	Prise en charge de protocoles	RTP, RTSP, HTTP, CGI (SUNAPI)	
	Contrôle	Direct(16can) : Prise en charge de plusieurs profils Lecture(1can, Max 2MP)	
	Nombre maximum d'utilisateurs distants	Recherche (3) / Diffusion individuelle en direct (10) / Multidiffusion en direct (20)	
Fonctions			
Contrôle de la caméra	PoE	-	1) Contrôle la consommation électrique PoE 2) Contrôle On/Off pour chaque caméra PoE 3) Réinitialisation à distance pour chaque caméra PoE
	Sync. temps	-	Protocole de temps NVR pour la caméra PoE (Sync. temps sur la base du temps NVR)
Configuration facile		Assistant d'installation (Langue, Date/Heure, Réseau, Configuration automatique de la caméra)	Assistant d'installation (Langue, Date/Heure, Réseau, Configuration automatique de la caméra) ※ Peut être sélectionné entre le mode manuel et le mode PnP
ARB (Soutien reprise automatique)		Oui	
PTZ	Commande	Via GUI, Webviewer, SPC-2000 (USB)	
	Pré-réglage	300 pré-réglages	
Commande du système	Applications de contrôle	Souris, Remocon IR, Web, SPC-2000(USB)	
Indicateur/Interface			
Face avant	Voyant	Voyant d'alimentation 1EA Voyant d'activité du disque dur 1EA Voyant d'alarme 1EA Voyant d'enregistrement 1EA Voyant d'activité réseau 1EA Voyant d'état de la sauvegarde 1EA	
Connecteurs	VGA	Sub : 1EA (Prend en charge écran en direct ayant jusqu'à 16 div.)	
	HDMI	Principal : 1 EA (Les deux supportent un paramétrage Direct/PB) - Supporte jusqu'à 4K (3840 x 2160, mode moniteur simple)	

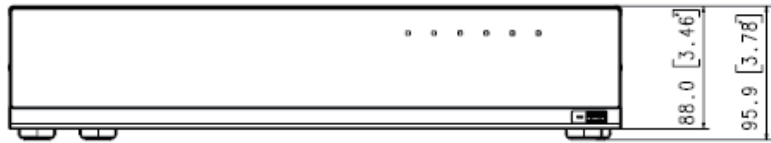
Élément		Détails	
		XRN-1610/1610A	XRN-1610S/1610SA
Connecteurs	Audio	Sortie (1EA(RCA, Line))	
	Ethernet	2EA (LAN/WAN, 1Gbps) - LAN : Bande descendante vers la caméra/Hub PoE(PoE+) - WAN : Liaison montante vers le CMS	16EA (PoE(PoE+), 100Mbps) 2EA (LAN/WAN, 1Gbps) - LAN : Bande descendante vers la caméra/Hub PoE(PoE+) - WAN : Liaison montante vers le CMS
	Alarme	Entrée(8EA, Bornier de connexion) Sortie(4EA, Bornier de connexion)	
	USB	2EA(Avant1 , Arière1)	
	Série	1ea pour RS-232C (Plan de soutien à titre de projet)	-
	Réinitialisation	Oui (Rétablir les paramètres d'usine, Réinitialisation alarme)	
	Cordon d'alimentation	Inclus	
Système			
Journal	Liste des journaux	Max. 20000 (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			
Entrée de puissance		100 ~ 240V AC	
Consommation électrique		Max. 76.3W (8 HDDs)	271,9 W maximum (4 disques durs, PoE (PoE +) allumés), Max. 51,9 W (4 disques durs, PoE (PoE +) désactivés) ※ PoE (PoE +) Budget : Max. 200W
Mécanique			
Couleur/Matière		Noire/Métal	
Dimensions (L x H x P)		440x88x384.8mm (17.32" x 3.46" x 15.15") (2U)	
Poids		5.44kg	5.1kg

• XRN-2010/2011/2010A/2011A

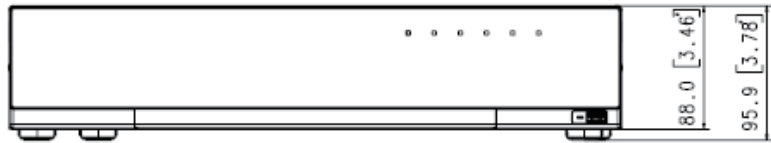
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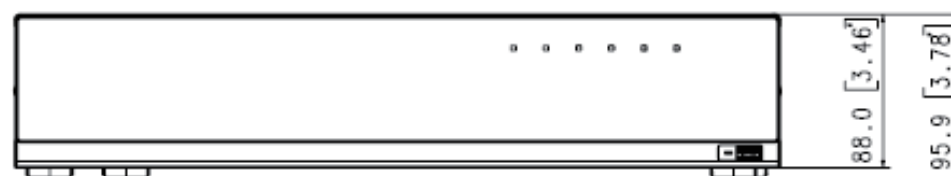
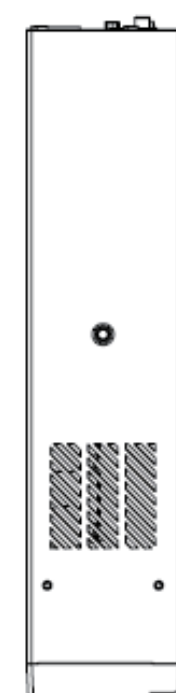
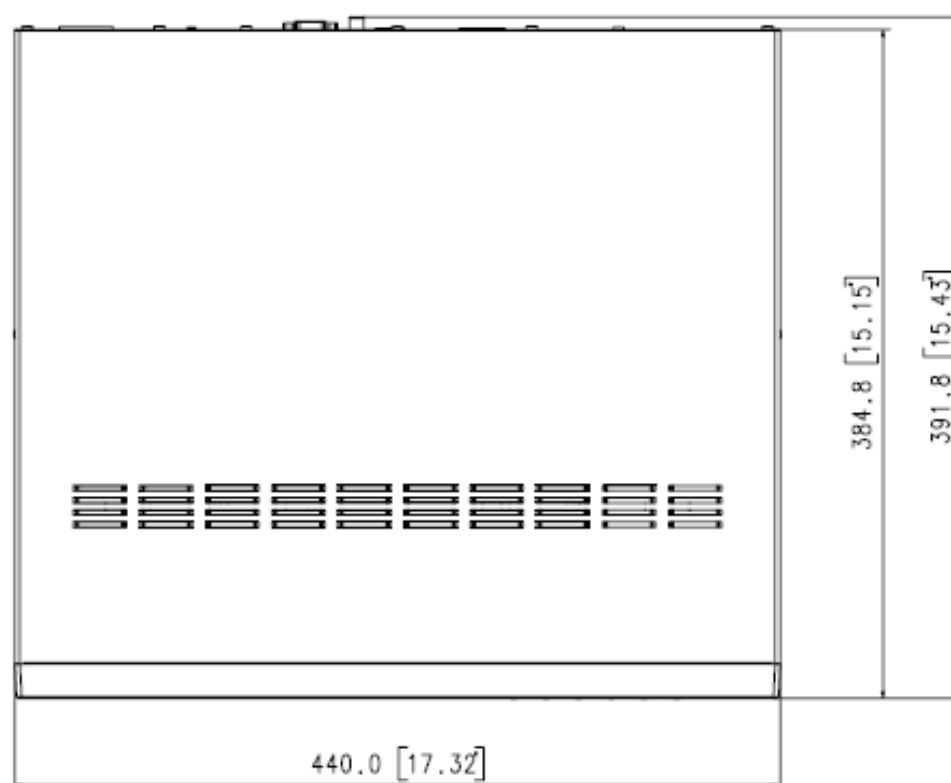
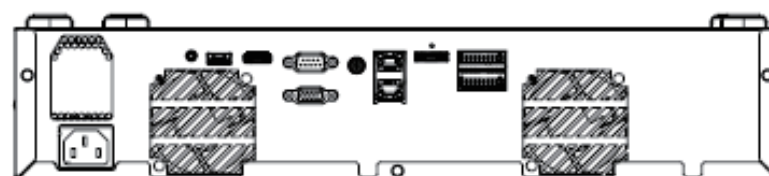


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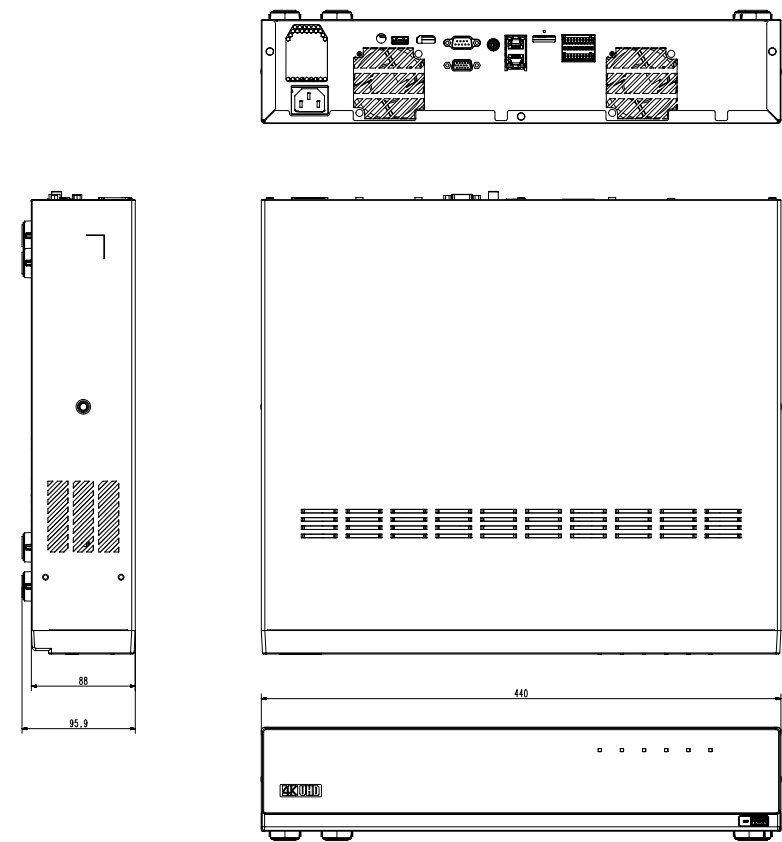
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unité : mm (pouce)



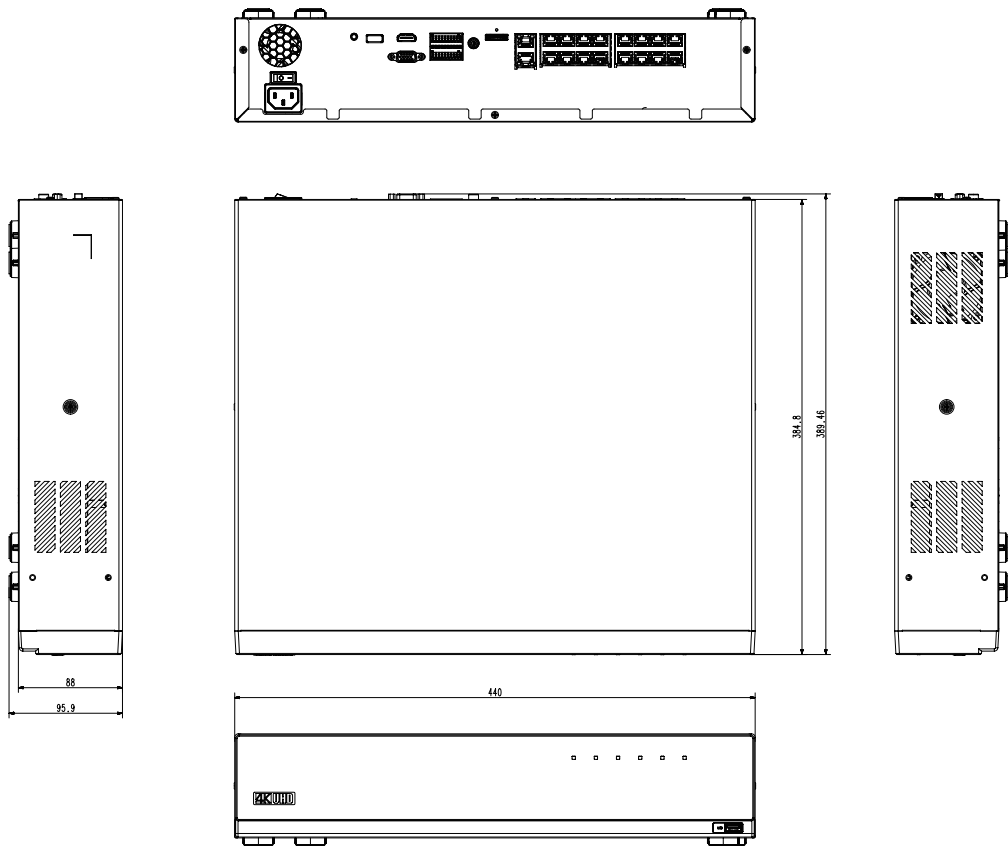
• XRN-1610/1610A

unité : mm (pouce)



• XRN-1610S/1610SA

unité : mm (pouce)



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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 recvbuf 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

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

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

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

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

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

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

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

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

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

32. [35]Tom Moore <tmoore@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

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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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