

WISENET

CAMÉRA RÉSEAU

Manuel d'utilisation

PNM-7000VD
SLA-2M2400D/SLA-2M2800D
SLA-2M3600D/SLA-2M6000D



Caméra Réseau

Manuel d'utilisation

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❖ La conception et les caractéristiques techniques sont susceptibles d'être modifiées sans préavis.

❖ L'ID initial de l'administrateur initi 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 les renseignements personnels sans risque et afin de prévenir les dommages du vol d'informations.

Veuillez prendre note que l'utilisateur est responsable de la sécurité et des autres problèmes causés par une mauvaise gestion du mot de passe.

INSTRUCTIONS IMPORTANTES RELATIVES À LA SÉCURITÉ

1. Veuillez lire ces instructions.
2. Conservez ces instructions.
3. Prêtez attention à tous les avertissements.
4. Veuillez suivre toutes les instructions.
5. N'utilisez pas 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 pas les ouvertures de ventilation. Procédez à l'installation conformément aux instructions du fabricant.
8. Ne pas installer l'appareil à proximité de sources de chaleur comme les radiateurs, les registres de chaleur et les autres appareils (incluant les amplificateurs) produisant de la chaleur.
9. Veuillez à vous conformer aux sécurités des prises de terre et polarisées. Une prise dite polarisée est composée de deux fiches, une plus large que l'autre. Une prise de terre est composée de deux fiches et d'une troisième fiche pour la terre. La troisième fiche, plus large que les deux autres, est fournie pour votre sécurité. Si la prise qui vous est fournie ne correspond pas à votre prise murale, demandez à un électricien de remplacer la prise obsolète.
10. Veuillez à ce que personne ne marche ou se prenne les pieds dans le cordon d'alimentation et particulièrement au niveau des fiches et des prises de courant et au niveau où ils se situent.
11. N'utilisez que des accessoires ou des produits additionnels spécifiés par le fabricant.
12. Utilisez uniquement un chariot, un socle, un trépied, un support ou une table recommandés par le fabricant ou vendus avec l'appareil. Si vous utilisez un chariot, déplacez le chariot transportant l'appareil avec précaution afin d'éviter les blessures que pourrait entraîner un basculement accidentel.
13. Débranchez cet appareil en cas d'orage ou de non-utilisation prolongée.
14. Veuillez faire appel au personnel qualifié pour tous travaux de maintenance. Les travaux de maintenance sont nécessaires si l'appareil a été endommagé de quelque manière que ce soit, comme cordon d'alimentation endommagé, liquide répandu, objets tombés sur l'appareil, appareil exposé à la pluie et à l'humidité, il ne fonctionne pas normalement ou est tombé par terre.
15. Ce produit est destiné à être alimenté par un bloc d'alimentation répertorié portant la mention "classe 2" ou "LPS" et classé à partir de PoE, 0.35A. (PNM-7000VD)
16. Ce produit est destiné à être alimenté par un bloc d'alimentation répertorié portant la mention "classe 2" ou "LPS" et classé à partir de 5 Vcc, min.0.25 A. (SLA-2M2400D/2M2800D/2M3600D/2M6000D)
17. Si vous utilisez une force excessive lors de l'installation du produit, la caméra risque d'être endommagée et de ne pas fonctionner correctement.
Si vous installez le produit à l'aide d'outils non conformes, le produit risque d'être endommagé.
18. Ne pas installer le produit dans un endroit où des substances chimiques ou des nuages d'huile existent ou peuvent être générés. Comme les huiles comestibles telles que l'huile de soja peuvent endommager ou déformer le produit, n'installez pas le produit dans la cuisine ou près de la table de cuisine.
Cela peut endommager le produit.
19. Lors de l'installation du produit, veuillez à ne pas laisser la surface du produit se colorer avec une substance chimique. Certains solvants chimiques tels que des produits de nettoyage ou des adhésifs peuvent causer de graves dommages à la surface du produit.
20. Si vous installez / désassemblez le produit d'une manière qui n'a pas été recommandée, les fonctions / performances de production peuvent ne pas être garanties.
Installez le produit en vous référant à "Installation et connexion" dans le manuel d'utilisation.
21. L'installation ou l'utilisation du produit dans l'eau peut causer des dommages importants au produit.



AVERTISSEMENT

AFIN DE RÉDUIRE LE RISQUE D'INCENDIE OU DE DÉCHARGE ÉLECTRIQUE, N'EXPOSEZ PAS CET APPAREIL À LA PLUIE NI À L'HUMIDITÉ. NE PAS INSÉRER D'OBJET MÉTALLIQUE PAR LES FENTES DE VENTILATION OU TOUTE AUTRE OUVERTURE SITUÉE SUR L'ÉQUIPEMENT.

Veuillez à éviter toute projection de liquide sur l'appareil et ne placez jamais sur celui-ci des récipients contenant des liquides, tels que des vases.

Pour éviter les blessures, cet appareil doit être fermement fixé au mur/plafond conformément aux consignes d'installation.

ATTENTION



ATTENTION

RISQUE DE ECHOC ELECTRIQUE
NE PAS OUVRIR



**ATTENTION : POUR REDUIRE LES RISQUES DE CHOCS ELECTRIQUES,
NE RETIREZ PAS LE COUVERCLE (OU LA PARTIE ARRIERE) LES PIECES
INTERIEURES NE SONT PAS ACCESSIBLES A L'UTILISATEUR.
FAITES APPEL AU PERSONNEL DE MAINTENANCE QUALIFIE.**

EXPLICATION DES SYMBOLES GRAPHIQUES



Le symbole de l'éclair se terminant par une flèche inscrit dans un triangle équilatéral sensibilise l'utilisateur à la présence d'une « tension élevée » au sein de l'unité, susceptible d'être suffisamment puissante pour présenter un risque de décharge électrique.



Le symbole de point d'exclamation inscrit dans un triangle équilatéral sensibilise l'utilisateur à la présence d'importantes instructions de fonctionnement et de maintenance (entretien et réparation) dans la documentation accompagnant l'appareil.

Catégorie de classe I

Un appareil appartenant à une catégorie de type CLASSE I doit être connecté à la prise murale secteur dotée d'une connexion de mise à la terre de protection.

Batterie

Les batteries (module batterie ou piles installées) ne doivent pas être exposées à des températures excessives, telles que la chaleur du soleil, le feu ou toute autre source de même type.

Appareil déconnecté

Débranchez la prise principale de l'appareil si celui-ci est défectueux. Contactez un réparateur situé dans votre région.

Lorsque l'appareil est exploité hors des États-Unis, il est possible d'utiliser le code HAR pour recourir aux services d'une agence agréée.

ATTENTION

Il existe un risque d'explosion si la batterie est remplacée par une autre de modèle incorrect. Éliminez les batteries usagées conformément aux instructions.

Les instructions d'entretien sont fournies à l'intention d'un personnel qualifié exclusivement. Pour réduire les risques de chocs électriques, ne procédez pas à des réparations autres que celles qui sont indiquées dans les instructions de fonctionnement, à moins que vous ne soyez qualifié pour ce faire.

La sortie composite de l'appareil est fournie afin de faciliter l'installation et n'est pas recommandée à des fins de surveillance.

Veuillez utiliser l'alimentation en entrée sur une seule caméra, les autres périphériques ne doivent pas être connectés.

L'ITE ne doit être connecté que sur un réseau PoE sans routage vers l'alimentation extérieure.

Veuillez lire attentivement les consignes de sécurité recommandées ci-après.

- Ne placez pas cet appareil sur une surface inégale.
- N'installez pas l'appareil sur une surface où il pourrait être exposé à la lumière directe du soleil ou situé à proximité d'un équipement de chauffage ou d'une zone exposée à un froid extrême.
- Ne placez pas cet appareil à proximité de matériaux conducteurs.
- N'essayez de réparer cet appareil vous-même.
- Évitez de placer un verre d'eau sur ce produit.
- N'installez pas le produit à proximité de sources magnétiques.
- Ne bloquez pas les ouvertures de ventilation.
- Ne placez pas d'éléments lourds sur le produit.
- Veuillez porter des gants de protection lors de l'installation / retrait de la caméra. La température élevée de la surface du produit peut causer une brûlure.

Le guide de l'utilisateur est un manuel d'instructions portant sur l'utilisation du produit.

La signification des indications fournies dans le manuel est comme suit.

- Référence : Dans le cas de la fourniture d'informations pour aider à l'utilisation du produit.
 - Notification : En cas de risques d'endommagement du produit et de blessures à l'utilisateur provoqués par le non respect des instructions fournies.
- ※ Veuillez lire ce manuel et notamment les passages liés à la sécurité du produit, et gardez-le en lieu sûr.

Dans certains environnements d'installation, les communications radio peuvent subir des interférences.

Lorsque des interférences d'ondes électromagnétiques se produisent entre le produit et l'appareil de communication radio, il est recommandé de garder une certaine distance entre les deux ou de changer la direction de l'antenne de réception.

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SPÉCIFICATIONS PC RECOMMANDÉES

- CPU : Intel(R) Core(TM) i7 3.4 GHz ou supérieur
- Système d'exploitation pris en charge : Windows 7, 8, 10, Mac OS X 10.10, 10.11, 10.12
- **Visualiseur Web sans plug-in**
Navigateurs Web supportés : Google Chrome 54, MS Edge 38, Mozilla Firefox 49(Supporté uniquement sur Windows 64bit), Apple Safari 9 (supporté uniquement sur Mac OS X)

CARACTÉRISTIQUES RECOMMANDÉES POUR LA CARTE MÉMOIRE
MICRO SD/SDHC/SDXC

- Capacité recommandée : 16 Go à 256 Go (type MLC)
- Les types de cartes mémoire suivants des fabricants suivants sont recommandés pour cette caméra.
 - Fabricant : SanDisk, Transcend
 - Famille de produit : High endurance
- Il est recommandé d'utiliser une carte mémoire de 16 Go ou plus conforme à la spécification de la classe UHS-3 (type MLC).

CONTENU (PNM-7000VD)

Veuillez vérifier si votre caméra et l'ensemble de ses accessoires sont contenus dans l'emballage du produit. (l'accessoire varie selon le pays de vente.)

Apparence	Nom de l'élément	Quantité	Description
	Caméra	1	
	Guide de prise en main rapide (En option)	1	
	Carte de garantie (En option)	1	
	Câble pour l'écran de test	1	Permet de tester la connexion de la caméra à un dispositif d'affichage portable
	Gabarit	1	Guide d'installation du produit
	Clé en forme d'étoile	1	Pour retirer/fixer la partie supérieure du couvercle
	Vis autotaraudeuse	3	Permet de procéder à l'installation au plafond ou au mur

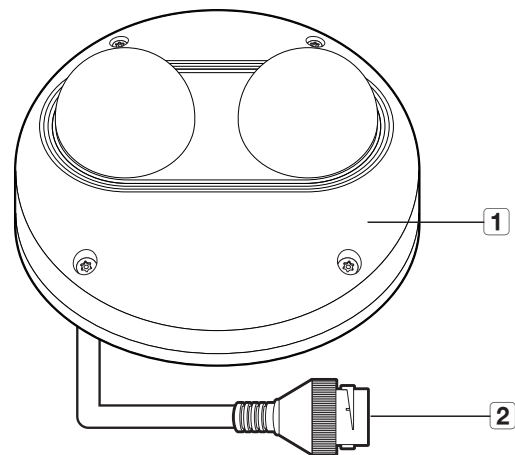
Apparence	Nom de l'élément	Quantité	Description
	Bride d'ancrage en plastique	3	Permet de fixer une vis, à insérer dans un trou (force d'ancrage renforcée)
	Vis de mécanique	3	Utilisées pour l'assemblage du boîtier du dôme lors de l'installation du produit sur le tube, en montage mural, etc. ou pour l'obstruction d'un trou.
	Accessoire RJ45 résistant à l'eau	1	Doit être installé dans des emplacements humides
	Agent d'absorption de moisissures pour cartes	1	Associé une fois après installation.

CONTENU (MODULE D'OBJECTIF-OPTIONNEL)

Apparence	Nom de l'élément	Quantité	Description	Nom du modèle
	Module d'objectif	1	Monté sur PNM-7000VD	SLA-2M2400D
		1		SLA-2M2800D
		1		SLA-2M3600D
		1		SLA-2M6000D

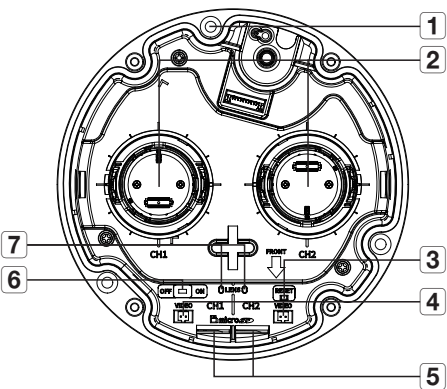
D'UN COUP D'ŒIL (PNM-7000VD)

Apparence



Élément	Description
1 Couverture supérieur	Couvercle du boîtier utilisé pour protéger l'objectif et l'unité principale.
2 Connecteur PoE	Alimentez le câble Ethernet et connectez-vous au réseau.

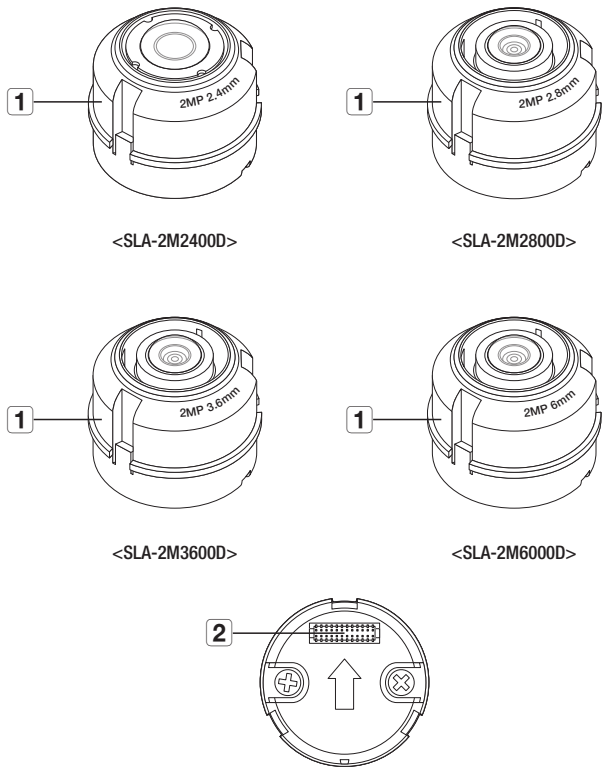
Intérieur



Élément	Description
1 Trou de fixation de la caméra	Trou utilisée pour fixer la caméra à un plafond.
2 Partie de montage de module d'objectif	C'est la borne pour monter le module d'objectif.
3 Bouton de réinitialisation	Le bouton permet de restaurer tous les réglages de la caméra sur leur valeur par défaut. Appuyez dessus pendant 5 secondes pour relancer le système. ❗ Si vous réinitialisez la caméra, les réglages réseau seront ajustés de sorte que le serveur DHCP puisse être activé. En l'absence de serveur DHCP sur le réseau, vous devez exécuter le programme Device Manager pour modifier les paramètres réseau de base tels que l'adresse IP, le masque de sous-réseau, la passerelle, etc., avant de pouvoir vous connecter au réseau.
4 Sortie d'écran test	Port de sortie pour contrôle de test de la sortie vidéo. Utilisez le câble de l'écran test pour connecter à un écran mobile et vérifiez la vidéo test.
5 Compartiment de la carte mémoire Micro SD	Compartiment de la carte mémoire Micro SD.
6 Interrupteur marche / arrêt de l'alimentation	Interrupteur utilisé pour allumer / éteindre le produit.
7 Voyant d'indication du module d'objectif (normal : vert, anormal : rouge)	Si le module d'objectif est correctement fixé, le voyant vert s'allume puis s'éteint après environ 40 secondes. (pour éviter les réflexions indésirables)

D'UN COUP D'ŒIL (MODULE D'OBJECTIF)

Apparence



Élément	Description
1 Module d'objectif	Ceci est un module d'objectif qui enregistre la vidéo.
2 Connecteur de caméra	Ceci est une borne pour se connecter à la caméra.

INSTALLATION

- ! ■ Cette caméra est étanche et en conformité avec les spécifications de la norme IP66, mais la prise jack connectée au câble externe ne l'est pas. Il est recommandé d'installer ce produit sous l'avant-toit afin d'éviter que le câble ne soit exposé.

Précautions à prendre avant l'installation

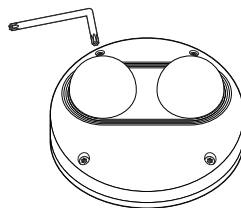
Assurez-vous de bien lire les instructions suivantes avant d'installer la caméra.

- Sélectionner un lieu d'installation qui peut supporter au moins 5 fois le poids de la caméra.
- L'utilisation de câbles recollés ou effilochés peut endommager le produit et provoquer un incendie.
- Pour des raisons de sécurité, ne laissez personne d'autre que vous sur le site de l'installation.
Ne laissez pas vos effets personnels sur le site, par mesure de précaution.
- Si le produit est installé avec une force excessive, cela risque d'endommager la caméra en raison d'un dysfonctionnement.
Forcer l'assemblage à l'aide d'outils non conformes peut endommager le produit.
- Ne retirez pas le module d'objectif lorsque l'appareil est sous tension.

Démontage

Retirez le couvercle en dévissant les quatre vis dans le sens inverse des aiguilles d'une montre à l'aide de la clé en forme d'étoile fournie.

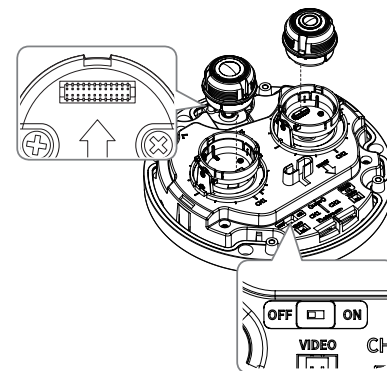
- Notez qu'il n'est pas nécessaire de desserrer complètement les vis.



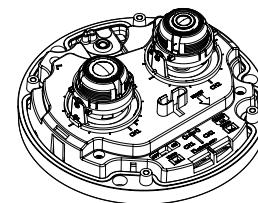
Montage du module d'objectif

1. Alignez et fixez le connecteur du module d'objectif avec le connecteur du boîtier de la caméra.

- ! ■ Il est recommandé d'éviter de toucher l'objectif séparément, car il est expédié de l'usine avec la mise au point ajustée pendant l'inspection de fabrication.



2. Terminez le processus de montage de l'objectif.



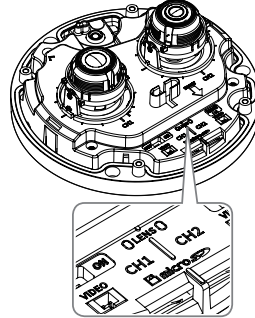
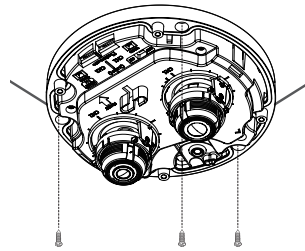
Installation sur un plafond ou un mur

1. Utilisez le gabarit fourni pour percer des trous pour l'installation (diamètre 6 mm et profondeur minimale 45 mm) et insérez les chevilles en plastique fournies à la fin.
2. Alignez le trou de montage de la caméra avec le trou où l'ancrage en plastique est inséré, puis serrez la vis taraudeuse.
3. Couvrez le couvercle et tournez la vis dans le sens des aiguilles d'une montre à l'aide d'une clé en forme d'étoile pour fixer le couvercle.

! ■ Si vous ne serrez pas complètement les vis lors de la fixation du couvercle, cela peut causer des problèmes d'étanchéité. (IP66)

4. Connectez un câble à la caméra. Veillez à ne pas endommager le câble. Il devrait être raccourci.

! ■ Si le module d'objectif n'est pas fixé correctement, le voyant d'état du module d'objectif s'allume en rouge, comme indiqué sur la figure. Si cela se produit, éteignez l'interrupteur d'alimentation et remettez le module d'objectif en place. S'il est fixé normalement, il s'allume en vert et s'éteint après environ 40 secondes.



Comment connecter le câble RJ45 étanche à un câble LAN

! ■ Vérifiez que la caméra fonctionne correctement et connectez le câble étanche.

1. Insérez-le dans la direction de la flèche.

2. Branchez le connecteur LAN (mâle) au câble.

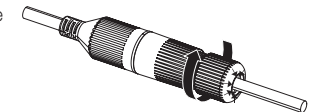
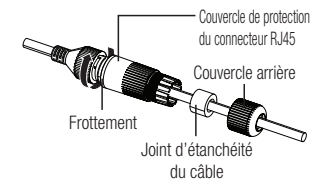
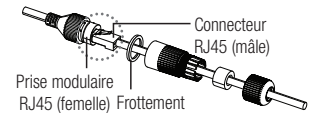
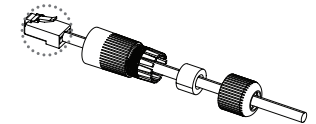
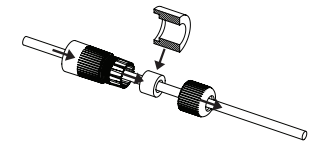
3. Branchez la prise modulaire RJ45 (femelle) au connecteur RJ45 (mâle).

! ■ Veuillez garder chacune des pièces séparées.

4. Assemblez en tournant la prise modulaire RJ45 (femelle) et le couvercle de protection RJ45 dans le sens des aiguilles d'une montre (Suivez la flèche).

5. Assemblez en tournant le couvercle de protection RJ45 et la façade arrière dans le sens des aiguilles d'une montre (Suivez la flèche). Une fois le capot arrière monté, le joint d'étanchéité du câble est fermement fixé au câble pour le rendre imperméable à l'eau.

! ■ Vous devez le monter en entier pour faire tourner le couvercle arrière jusqu'à la fin du filetage du connecteur RJ45.



Installation extérieure

Lorsque vous installez la caméra à l'extérieur, la caméra doit être rendue étanche avec une bande de butylcaoutchouc étanche (qui peut être achetée en magasin) afin que l'eau ne coule pas dans l'espace du câble relié à la zone extérieure.

1. Connectez le câble PoE.
2. Enroulez la gaine du câble noir (zone A) et la zone de connexion du câble à l'aide de ruban étanche (en caoutchouc butylique), de sorte que plus de la moitié du ruban est chevauchée.



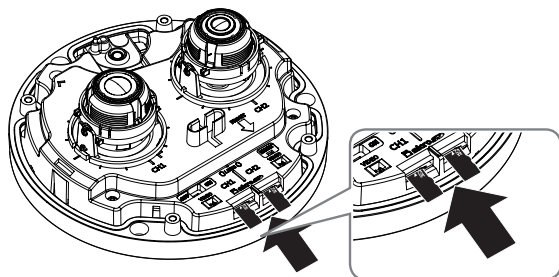
- ❗ Si la gaine du câble noir n'est pas correctement rendue étanche, elle peut directement provoquer une fuite. Assurez-vous de protéger le câble avec une large épaisseur de ruban.
- Le ruban étanche en caoutchouc butylique est fait de caoutchouc butylique qui peut être étendu jusqu'au double de sa longueur normale.

INSERTION/RETRAIT D'UNE CARTE MÉMOIRE MICRO SD

- ❗ Déconnectez le câble d'alimentation de la caméra avant d'y insérer la carte mémoire Micro SD.
- N'insérez pas la carte mémoire Micro SD à l'envers et de force. Autrement, vous risquez d'endommager la carte mémoire Micro SD.
- En cas de pluie ou lorsque le taux d'humidité est élevé, l'insertion ou l'éjection d'une carte Micro SD n'est pas recommandée.
- Le désassemblage du couvercle du produit doit être terminé dans un délai de 5 minutes. Sinon, il y a un risque de condensation interne.

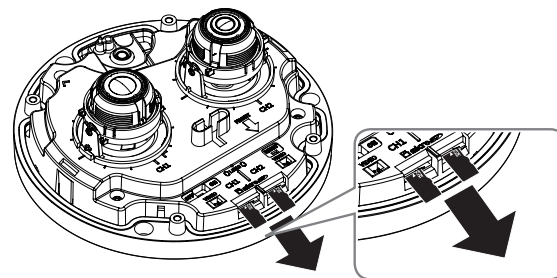
Insertion d'une carte mémoire Micro SD

1. Retirez le capot supérieur de la caméra.
2. Insérez une carte Micro SD en suivant la direction de la flèche du schéma.



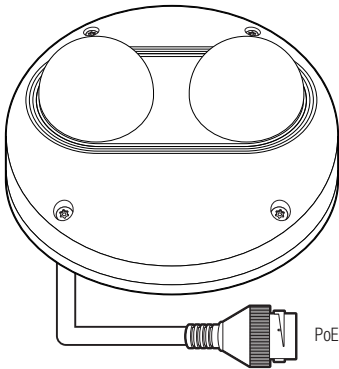
Retrait d'une carte mémoire Micro SD

Appuyer doucement vers le bas sur l'extrémité exposée de la carte mémoire comme indiqué dans le diagramme pour éjecter la carte mémoire de la fente.



- ❗ Veuillez noter que si vous appuyez fermement et relâchez la carte mémoire Micro SD quand elle est éjectée, elle peut sortir.
- Avant de retirer la carte mémoire Micro SD, dans <Stockage>, réglez le dispositif sur <Désactivé> et appuyez sur le bouton [Appliquer], puis mettez la caméra hors tension.
- Si vous arrêtez la caméra ou retirez la carte mémoire Micro SD qui contient les données du produit, ces données peuvent être perdues ou endommagées.

CONNEXION À D'AUTRES PÉRIPHÉRIQUES



! La sortie composite de l'appareil est fournie afin de faciliter l'installation et n'est pas recommandée à des fins de surveillance.

Alimentation et réseau

Connectez la borne PoE de la caméra au périphérique PoE.

- ! Raccordez-la à un connecteur PoE (alimentation électrique par Ethernet (Power over Ethernet)) d'un routeur avec PoE activé.
- Utilisez une PoE (alimentation électrique par Ethernet (Power over Ethernet)) qui soit conforme avec les protocoles IEEE802.3af.

Spécifications du câble réseau

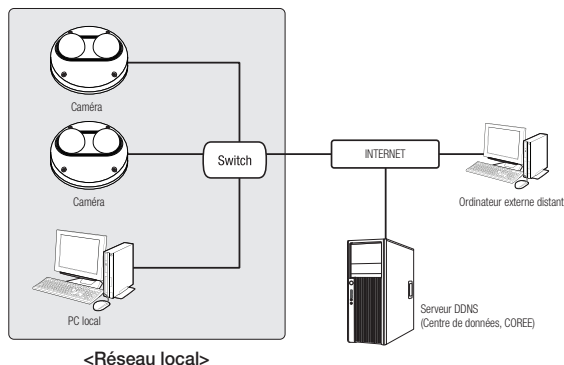
Élément	Contenus	Remarque
Connecteur	RJ45 (10/100BASE-T)	
Ethernet	10/100BASE-T	
Câble	5e catégorie UTP	
Distance max.	100 M	Résistance CC ≤ 0,188 Ω/m
Support du PoE	IEEE 802.3af	

Vous pouvez configurer les paramètres de réseau en fonction de vos configurations de réseau.

CONNECTER LA CAMÉRA DIRECTEMENT AU RÉSEAU DE ZONE LOCALE

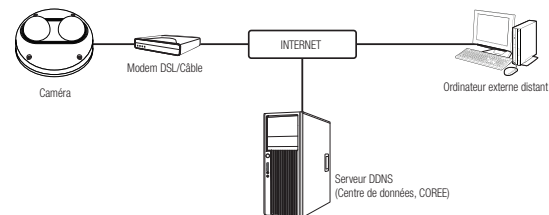
Se connecte à la caméra à partir d'un PC local sur le LAN

1. Lancer un navigateur Internet sur le PC local.
2. Saisir l'adresse IP de la caméra dans la barre d'adresse du navigateur.



- Un PC à distance dans une sortie Internet externe de réseau LAN peut ne pas pouvoir se connecter à la caméra installée dans l'intranet si le renvoi de port n'est pas correctement configuré ou si un pare-feu est mis. Dans ce cas, pour résoudre le problème, contacter votre administrateur de réseau.
- Dans Device Manager, vous pouvez utiliser le mot de passe initial, « 4321 » pour définir l'adresse IP, le masque de sous-réseau, la passerelle, le port HTTP et le type d'IP. Après avoir changé l'interface réseau, pour une meilleure sécurité, accédez au navigateur Web et modifiez le mot de passe.
- Par défaut, l'adresse IP sera attribuée automatiquement depuis le serveur DHCP. En l'absence de serveur DHCP disponible, l'adresse IP sera définie sur 192.168.1.100. Pour modifier l'adresse IP, utilisez Device Manager. Pour plus d'informations sur l'utilisation de Device Manager, reportez-vous à « Utilisation de Device Manager ». (Page 15)

CONNEXION DE LA CAMÉRA DIRECTEMENT À UN MODEM DSL/CÂBLE BASÉ SUR LE PROTOCOLE DHCP



1. Connectez l'ordinateur utilisateur directement à la caméra réseau.
2. Lancez Dans Device Manager et modifiez l'adresse IP de la caméra pour pouvoir utiliser le navigateur Web de votre bureau pour vous connecter à Internet.
3. Utilisez le navigateur Internet pour connecter le Web viewer.
4. Allez à la page [Configuration].
5. Allez sur [Réseau] – [DDNS], puis configurez les réglages DDNS.
6. Allez à [Basic] – [IP & Port], et définissez le type d'IP pour [DHCP].
7. Connectez la caméra, qui a été retirée de votre ordinateur, directement au modem.
8. Redémarrez la caméra.

- Pour plus d'informations sur la configuration de DDNS, reportez-vous à l'aide en ligne de Web Viewer.
- Pour plus d'informations sur la définition du format IP, reportez-vous à l'aide en ligne de Web Viewer.

UTILISATION DE DEVICE MANAGER

- Le programme Device Manager peut être téléchargé depuis le menu <Technical Guides> – <Online Tool> du site Web d’Hanwha Techwin (<http://www.hanwha-security.com>).
- Plus d’instructions relatives à Device Manager sont disponibles dans le menu <Aide> de la page principale.

RECHERCHE AUTOMATIQUE DE LA CAMÉRA

Si une caméra est connectée au même réseau que l’ordinateur sur lequel Device Manager est installé, vous pouvez trouver une caméra réseau à l’aide de la fonction de recherche.

1. Cliquez sur <Rechercher> sur la page principale de Device Manager.
2. Cochez la caméra dans la liste.
 - Vérifiez l’adresse MAC sur l’autocollant fixé sur la caméra.

CONFIGURATION DE L’ADRESSE IP

Si vous souhaitez modifier les paramètres réseau de la caméra, le signe <Connexion OK> doit être affiché sous <État>. Pour vous connecter, cliquez sur <Authentification> sur la page principale.

Configuration de l’IP statique

Entrez et configurez manuellement l’adresse IP et les informations sur le port.

1. Dans la liste, cliquez sur la caméra dont vous voulez modifier la configuration IP.
2. Cliquez sur <IP Assign (IP assignée)> sur la page principale de Device Manager.
3. Sélectionnez <Assigner l’adresse IP suivante>.
 - Les informations IP de la caméra seront affichées en fonction du réglage précédent.
4. Remplissez les catégories relatives à IP & Port.

Si vous n’utilisez pas de Routeur large bande

Demandez au gestionnaire de réseau de définir les valeurs pour <Adresse IP>, <Masque de sous-réseau>, <Passerelle>.

- HTTP Port : Permet d’accéder à la caméra à l’aide du navigateur Internet, réglé par défaut sur 80.
- RTSP Port : Un port qui contrôle la diffusion en continu en temps réel. La valeur initiale est 554.

Si vous utilisez un Routeur large bande

- IP Address : Entrez une adresse comprise dans la plage IP fournie par le Routeur large bande.
ex.) 192.168.1.2~254, 192.168.0.2~254, 192.168.XXX.2~254
- Subnet Mask : La valeur de <Subnet Mask> du Routeur large bande est identique à celle de l’option <Subnet Mask> de la caméra.
- Gateway : La valeur de <Local IP Address> du Routeur large bande est identique à celle de l’option <Gateway> de la caméra.

- Les réglages peuvent varier selon le modèle du Routeur large bande connecté.
Pour obtenir de plus amples informations à ce sujet, reportez-vous au guide d’utilisation du routeur applicable.
- Pour plus d’informations sur la redirection de port du routeur large bande, reportez-vous à « Configuration de la Redirection de la Plage de Ports (Mappage de Ports) ». (Page 17)

Si le Routeur large bande dispose de plusieurs caméras connectées

Configurez séparément les réglages IP et les réglages de port.
ex.)

Catégorie		Caméra 1	Caméra 2
Réglages IP	IP Address	192.168.1.100	192.168.1.101
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Réglages de port	HTTP Port	8080	8081
	RTSP Port	554	555

- Si l’option <HTTP Port> est réglée sur une valeur différente de 80, vous devrez indiquer le numéro du réglage <Port> dans la barre d’adresse du navigateur Internet pour pouvoir accéder à la caméra.
ex.) <http://IP address : HTTP Port>
<http://192.168.1.100:8080>

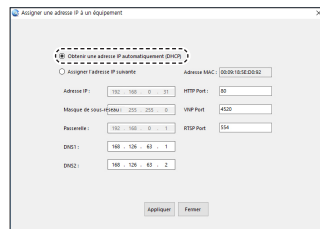
5. Cliquez sur le bouton [Appliquer].
6. Si un message de réussite s’affiche, cliquez sur [OK].

Configuration de l'IP dynamique

Le DHCP vous envoie l'adresse IP.

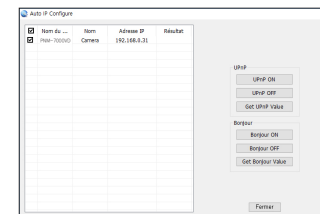
- Exemple d'environnement IP Dynamique
 - Routeur large bande, disposant de caméras connectées, affecté à une adresse IP par le serveur DHCP
 - En cas de connexion directe de la caméra au modem via les protocoles DHCP
 - Adresses IP affectées par le serveur DHCP interne via le réseau LAN

- Dans la liste, cliquez sur la caméra dont vous voulez modifier la configuration IP.
- Cliquez sur **<IP assignée>** sur la page principale de Device Manager.
- Sélectionnez **<Obtenir une adresse IP automatiquement (DHCP)>**.
- Cliquez sur le bouton **[Appliquer]**.
- Si un message de réussite s'affiche, cliquez sur **[OK]**.



CONFIGURATION AUTOMATIQUE DE L'IP

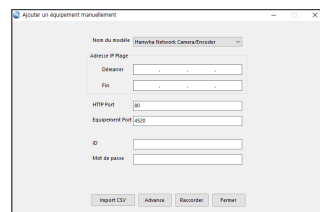
- Dans la liste, cliquez sur la caméra dont vous voulez configurer automatiquement l'IP.
- Cliquez sur **< + >** sur la page principale de Device Manager.
 - Le menu Configuration de l'équipement s'affiche.
- Dans le menu, cliquez sur **<Auto IP Configure (Configuration IP automatique)>**.
- Cliquez sur le bouton **[Fermer]**.



ENREGISTREMENT MANUEL DE LA CAMÉRA

Si la caméra ne peut pas être trouvée à l'aide de la fonction de recherche, elle peut être enregistrée à distance en entrant manuellement les informations IP, si la caméra est connectée à un réseau externe.

- Cliquez sur **<Ajouter des périphériques>** – **<Ajouter un équipement manuellement>** sur la page principale de Device Manager.
- Entrez la plage d'adresses IP que vous recherchez.
- Sélectionnez le **<Nom du modèle>** de la caméra que vous enregistrez et entrez le port HTTP, l'identifiant et le mot de passe.
- Cliquez sur le bouton **[Raccorder]**.
- Vérifiez si la caméra est enregistrée.
 - Vérifiez l'adresse MAC sur l'autocollant fixé sur la caméra.

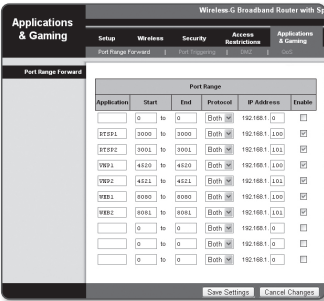


CONFIGURATION DE LA REDIRECTION DE LA PLAGE DE PORTS (MAPPAGE DE PORTS)

Si vous avez installé un Routeur large bande muni d'une caméra connectée, vous devrez régler la redirection de la plage de ports sur le Routeur large bande de sorte qu'un ordinateur distant puisse accéder à la caméra qui y est installée.

Redirection manuelle de la plage de ports

- 1. Depuis le menu Setup du Routeur large bande, sélectionnez <Applications & Gaming> - <Port Range Forward>.
- 2. Sélectionnez <TCP> et <UDP Port> pour chacune des caméras connectées au Routeur large bande. Le nombre de ports à configurer sur le routeur IP doit être réglé en fonction du nombre de ports indiqué dans <Configuration> - <Basic> - <IP & Port> sur le visualiseur Web de la caméra.
- 3. Une fois terminé, cliquez sur [Save Settings]. Vos réglages seront ainsi sauvegardés.

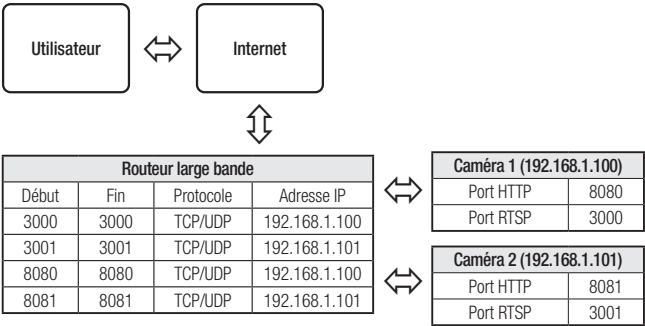


- La configuration du transfert de port est un exemple de configuration du routeur IP CISCO.
- Les réglages peuvent varier selon le modèle du Routeur large bande connecté. Pour obtenir de plus amples informations à ce sujet, reportez-vous au guide d'utilisation du routeur applicable.

Réglage de la redirection de la plage de ports pour plusieurs caméras en réseau

- Vous pouvez définir une règle de redirection de port sur le périphérique du Routeur large bande via sa page Web de configuration.
- Un utilisateur peut modifier chaque port à l'aide de l'écran de réglage de la caméra.

Lorsque la Caméra 1 et la Caméra 2 sont connectées à un routeur :



- La redirection de port peut être réalisée sans paramétrage supplémentaire du routeur si celui-ci supporte la fonction UPnP. Après avoir connecté la caméra réseau, cochez la case à cocher dans le menu <Connexion rapide> dans <DDNS Wisenet> dans "Paramètres -> Réseau -> DDNS".

CONNEXION À LA CAMÉRA DEPUIS UN ORDINATEUR LOCAL PARTAGÉ

1. Lancez Device Manager.
Le système recherche les caméras connectées et en affiche la liste.
2. Double-cliquez sur une caméra pour y accéder.
Le navigateur Internet démarre et se connecte à la caméra.



- Vous pouvez aussi accéder à la caméra en tapant l'adresse IP de la caméra trouvée dans la barre d'adresse du navigateur Internet.

CONNEXION À LA CAMÉRA DEPUIS UN ORDINATEUR DISTANT VIA INTERNET

Sur un ordinateur distant en dehors du réseau du routeur haut débit, le cluster n'est pas autorisé, les utilisateurs peuvent accéder aux caméras situées sur le réseau d'un routeur haut débit à l'aide de l'URL DDNS de la caméra.

1. Avant de pouvoir accéder à une caméra depuis le réseau du Routeur large bande, vous devez régler la redirection des plages de port du Routeur large bande.
2. Depuis l'ordinateur distant, lancez le navigateur Internet et tapez l'adresse URL DDNS de la camera ou l'adresse IP du Routeur large bande dans la barre d'adresse.
ex.) <http://ddns.hanwha-security.com/ID>

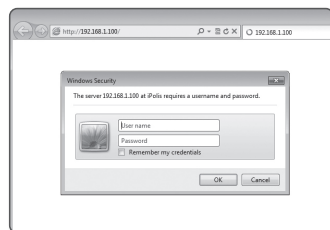


- Pour utiliser Wisenet DDNS, inscrivez-vous sur la page d'accueil DDNS de Wisenet (<http://ddns.hanwha-security.com>) et enregistrez le produit sur **[Mon DDNS]>[Enregistrer le produit]**.

CONNEXION À LA CAMÉRA

Normalement, vous devez procéder comme suit

1. Lancez le navigateur Internet.
2. Tapez l'adresse IP de la caméra dans la barre d'adresse.
ex.) • Adresse IP (IPv4) : 192.168.1.100 → http://192.168.1.100
- la boîte de dialogue de connexion devrait apparaître.
• Adresse IP (IPv6) : 2001:230:abcd:ffff:0000:0000:ffff:1111
→ http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - la boîte de dialogue de connexion devrait apparaître.



Si le numéro de port HTTP est différent de 80

1. Lancez le navigateur Internet.
2. Tapez l'adresse IP et le numéro de port HTTP de la caméra dans la barre d'adresse.
ex.) Adresse IP: 192.168.1.100:HTTP Numéro de port (8080)
→ http://192.168.1.100:8080 - la boîte de dialogue de connexion devrait apparaître.

Utilisation de l'adresse URL

1. Lancez le navigateur Internet.
2. Tapez l'adresse URL DDNS de la caméra dans la barre d'adresse.
ex.) Adresse URL : http://ddns.hanwha-security.com/ID
- la boîte de dialogue de connexion devrait apparaître.



- La connexion réseau est désactivée dans un environnement uniquement LAN.

Se connecter via UPnP

1. Exécutez le système client ou d'exploitation afin de supporter le protocole UPnP.
2. Cliquez sur le nom de la caméra aux fins de recherche.
Dans le système d'exploitation Windows, cliquez sur le nom de la caméra recherchée dans le menu réseau.
- La fenêtre de connexion s'affiche.

Se connecter via Bonjour

1. Exécutez le système client ou d'exploitation afin de supporter le protocole Bonjour.
2. Cliquez sur le nom de la caméra pour recherche.
Sur le système d'exploitation Mac, cliquez sur le nom de la caméra lance la recherche depuis l'onglet Bonjour de Safari.
- La fenêtre de connexion s'affiche.

Vérification de l'adresse DDNS

Si la caméra est connectée directement à un modem câble ou à un modem DSL basé sur DHCP, l'adresse IP change chaque fois qu'elle tente de se connecter au FAI (la société à laquelle vous vous êtes abonné). Le cas échéant, vous ne serez pas informé du changement d'adresse IP par le serveur DDNS.

Une fois que vous enregistrez un périphérique dynamique basé sur IP sur le serveur <DDNS>, vous pouvez facilement vérifier l'adresse IP modifiée lorsque vous essayez d'accéder au périphérique. http://ddns.hanwha-security.com et enregistrez tout d'abord votre périphérique puis réglez <Réseau> - <DDNS> de Web Viewer sur <Wisenet DDNS>. Renseignez également le champ <ID produit> avec la donnée utilisée pour l'enregistrement DDNS.

RÉGLAGE DU MOT DE PASSE

Lorsque vous accédez au produit pour la première fois, vous devez enregistrer le mot de passe de connexion.

Lorsque la fenêtre « **Confirm new password** » apparaît, saisissez le nouveau mot de passe.



- Pour un nouveau mot de passe de 8 à 9 chiffres, vous devez utiliser au moins trois des éléments suivants : lettres majuscules / minuscules, chiffres et caractères spéciaux. Pour un mot de passe de 10 à 15 chiffres, vous devez utiliser au moins deux des types mentionnés.
 - Les caractères spéciaux qui sont autorisés : ~!@#\$\$%^&*()_+=[]{};:/?
- Pour plus de sécurité, il n'est pas recommandé de répéter les mêmes caractères ou entrées clavier consécutives pour vos mots de passe.
- Si vous avez perdu votre mot de passe, vous pouvez appuyer sur le bouton **[RESET]** pour initialiser le produit. Veuillez donc ne pas perdre votre mot de passe en utilisant un bloc-notes ou bien mémorisez-le.

LOGIN

Lorsque vous accédez à la caméra, la fenêtre de connexion apparaît.

Saisissez l'identifiant utilisateur et le mot de passe pour accéder à la caméra.

1. Entrez « **admin** » dans la zone de saisie de texte <**User Name**>. L'identifiant de l'administrateur « **admin** » est fixe et ne peut être modifié.
2. Saisissez le mot de passe dans le champ de saisie <**Password**>.
3. Cliquez sur **[OK]**.
Si vous vous êtes connecté avec succès, vous verrez l'écran Live Viewer s'afficher.



- Lorsque vous accédez à la visionneuse web de la caméra, accordez une attention particulière à la sécurité en vérifiant si les données d'image sont cryptées.



- Si vous sélectionnez l'option « **Remember my credentials** » après avoir entré votre saisie, vous serez automatiquement connecté sans être invité à entrer vos informations de connexion à votre prochaine connexion.
- Pour une qualité vidéo optimale, passez en affichage 100 %. La réduction du format de l'image peut couper l'image sur les bords.

SPÉCIFICATIONS DE PRISE EN CHARGE DE PLUG-IN POUR CHAQUE NAVIGATEUR

Le nouveau plug-in la visionneuse Web est gratuit.

Cela permet d'utiliser la visionneuse Web même dans les environnements de navigateur les plus récents qui ne prennent pas en charge les plug-ins, tels que Chrome, EDGE et FireFox (Windows 64 bits uniquement).

Les différences suivantes se produiront en fonction de l'environnement de votre navigateur :

- **Navigateurs Chrome, FireFox(supporté uniquement sur Windows 64bit), EDGE, Safari** : Bien qu'ils ne prennent pas en charge les plug-in, vous pouvez utiliser un visualiseur Web étant donné qu'un visualiseur Web sans plug-in est intégré.



- Étant donné que le visualiseur sans plug-in a des performances moins élevées par rapport au visualiseur avec plug-in, il existe une limite relative au suivi des profils de haute qualité et à la lecture des vidéos enregistrées. Pour surveiller les profils de haute qualité et les vidéos enregistrées, utilisez un visualiseur Web avec plug-in ou un visualiseur intelligent.
 - Conditions de création de visionneuse Web sans plugin : le profil sélectionné dépasse MJPEG Full HD 10fps H.264 (Chrome : résolution plein écran prise en charge / Edge, Firefox, Safari : Full HD 30 fps ou plus) H.265 FullHD 10fps 2Mbps ou supérieur
 - Conditions de lecture sans plugin : résolution d'écran MJPEG/H.264, H.265 HD ou inférieure
- La fonction sans plug-in a été optimisée pour le navigateur Chrome.
- Prise en charge du streaming adaptatif
 - Il s'agit de la fonction qui abaisse automatiquement le profil en cas de retard de plus de 5 secondes. Il a été conçu pour éviter des problèmes tels que la latence accrue et aucune réponse du navigateur lors de la lecture de la vidéo sur un système avec des spécifications matérielles inférieures à celles recommandées.
Le profil vidéo est réduit dans l'ordre suivant: 1920X1080 (20fps) -> 1280X720 (20fps) -> 640X480 (20fps).

INSTALLATION DU MODULE WebViewer

Pour accéder au visualiseur Web de plug-in et lire une vidéo en direct (H.264 / H.265) ou une vidéo enregistrée, un message d'installation apparaîtra. A ce moment, vous devez installer le plug-in du visualiseur Web pour utiliser la fonction correctement.

1. Lorsque vous accédez à une page de surveillance pour la toute première fois, la page d'installation s'affiche. Cliquez sur **[Click Here]** pour débiter l'installation.

■ Si le téléchargement du fichier d'installation est suspendu à 99 % dans Internet Explorer, réessayez après avoir sélectionné « Libérer le filtre SmartScreen » dans « Outil → filtre SmartScreen ».

2. Cliquez sur **[Run]** dans la fenêtre.

3. Cliquez sur **[Yes]** lorsque la fenêtre de notification indique que toutes les fenêtres du navigateur vont être fermées.

■ Les étapes 4 et 5 seront ignorées si aucun module d'extension pour le navigateur n'est installé.

4. Lorsque l'ancienne version du module d'extension du navigateur Web est installée, une fenêtre de notification indique que cette dernière va être effacée. Cliquez sur **[Yes]** lorsque la fenêtre de notification est affichée.

5. Cliquez sur **[OK]**.
L'ancienne version du module d'extension est supprimée.

6. Cliquez sur **[Install]** pour débiter l'installation du module d'extension du navigateur Web.

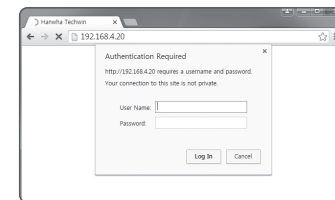
7. Cliquez sur **[Finish]**.
L'installation du module d'extension pour navigateur Web est achevée.

■ Dans votre Internet Explorer, si vous avez besoin de passer à l'écran d'installation après l'installation du plug-in webviewer, vérifiez si webviewer_activexplugin_lib.control dans le menu « Outils → Fonction de gestion complémentaire » est « activé ». Si non, et si le problème persiste, alors sélectionnez « Outils → Options Internet → Général » et supprimez tous les enregistrements de la recherche.
Si le problème persiste, veuillez enregistrer l'adresse IP ou le domaine de votre caméra dans "Outils → Options Internet → Sécurité → Sites de confiance".

UTILISER GRATUITEMENT UN PLUG-IN DE VISUALISEUR WEB

Si vous accédez à la caméra à partir du navigateur Web MS Edge ou Google Chrome, Mozilla Firefox, Safari, vous pourrez vérifier et contrôler l'image de la caméra en temps réel sans installer de plug-in additionnel.

1. Entrez votre nom d'utilisateur et mot de passe pour vous connecter.
2. Lorsque vous êtes connecté, un écran de visualisation en direct de la caméra apparaît.



Pour configurer la caméra

1. Cliquez sur l'icône **[Configuration (⚙)]**.
2. La fenêtre de configuration apparaît.
3. Vous pouvez configurer les paramètres pour les informations de base de la caméra, la vidéo, l'audio, le réseau, l'événement, l'analyse et le système sur le réseau.
4. Cliquez sur **[Aide (?)]** pour voir les descriptions détaillées de chaque fonction.

RÉSOLUTION DE PROBLÈMES

PROBLÈME	SOLUTION
Aucune vidéo n'est affichée lors de l'accès libre au visualiseur Web de plug-in sur Safari via HTTPS.	- Dans la fenêtre d'authentification contextuelle affichée lors de l'accès initial à https, cliquez sur "Afficher certificat d'authentification" et sélectionnez l'option "Toujours faire confiance lors de la connexion à l'adresse IP du visualiseur Web désigné". - Si le visualiseur Web ne peut toujours pas lire une vidéo après avoir sélectionné "Suivant" dans la fenêtre de message ci-dessous, appuyez sur la touche de commande + Q pour quitter le navigateur Safari puis recommencez et suivez les procédures indiquées ci-dessus.
Je n'ai pas accès à la caméra à partir d'un navigateur Internet.	- Vérifier pour s'assurer que les paramètres de réseau de la caméra sont appropriés. - Vérifier pour assurer que tous les câbles de réseau ont été correctement connectés. - Si elle est connectée en utilisant DHCP, vérifier que la caméra peut acquérir des adresses IP dynamiques sans aucun problème. - Si la caméra est connectée à un Routeur large bande, vérifier que le renvoi de port est configuré correctement.
Le visionneur a été déconnecté pendant le suivi.	- Les visionneurs connectés se déconnectent à tout changement apporté à la caméra ou aux configurations de réseau. - Vérifier toutes les connexions de réseau.
La caméra connectée au réseau n'est pas détectée dans le programme Device Manager.	Désactiver les paramètres de pare-feu sur votre PC et chercher de nouveau la caméra.
Chevauchement d'images.	Vérifier si une ou plusieurs caméras sont configurée à une adresse multidiffusion unique au lieu d'adresses différentes. Si une adresse unique est utilisée pour des caméras multiples, les images peuvent se chevaucher.
Aucune image n'apparaît.	- Si la méthode de transmission est configurée sur multidiffusion, vérifier s'il y a un routeur qui prend en charge la multidiffusion dans le LAN sur lequel la caméra est connectée. - Vérifiez si le module d'objectif fonctionne normalement. (page 11)

PROBLÈME	SOLUTION
<MD / VA> de l'<Événement> est réglé sur <Activer>, mais je ne reçois pas de notification par e-mail même quand un événement d'analyse s'est produit.	- Vérifiez les réglages selon la séquence suivante : A. Vérifiez les réglages <Date et heure>. B. L'option <MD / VA> doit être réglée sur <Activer>. C. Vérifiez si l'option <E-mail> du menu <Config. évén.> est cochée avant utilisation.
Puis-je définir les règles d'événement même lorsque je n'utilise pas <MD / VA> ?	Oui, ceci est possible. Vous pouvez définir des règles d'événement en dépit du réglage de l'analyse vidéo intelligente.
Impossible d'effectuer un enregistrement sur la carte mémoire Micro SD.	Vérifiez que la carte mémoire n'est pas défectueuse.
La carte mémoire Micro SD est insérée mais la caméra ne fonctionne pas correctement.	- Vérifiez si la carte mémoire est insérée dans le bon sens. Le fonctionnement des cartes mémoire formatées sur d'autres appareils n'est pas garanti sur cette caméra. - Formatez la carte mémoire à nouveau sous le menu <Configuration> → <Événement> → <Stockage>.

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Busybox	GPL 2.0	http://www.busybox.net/downloads/snapshots
iproute2-4.3.0	GPL 2.0	
iptables-1.4.21	GPL 2.0	http://ftp.netfilter.org/pub/iptables
ethtool-4.2	GPL 2.0	
mtdd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdd-utils
mi-diag-2.11	GPL 2.0	
rp-pppoe-3.11	GPL 2.0	http://www.roaringpenguin.com/pppoe/
wpa_supplicant-2.5	GPL 2.0	
bash-4.3.30	GPL 3.0	
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Component Name	License	URL
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neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

The IJG distribution formerly included code to read and write GIF files. To avoid entanglement with the Unisys LZW patent, GIF reading support has been removed altogether, and the GIF writer has been simplified to produce "uncompressed GIFs". This technique does not use the LZW algorithm; the resulting GIF files are larger than usual, but are readable by all standard GIF decoders.

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established by T-Engine Forum
on January 23, 2004
revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

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1. This License Agreement sets forth copyrights and the terms and conditions of use applicable to the source code of T-Kernel distributed by T-Engine Forum and any derivative work created therefrom.

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3. to distribute a copy of a work to the general public or a large number of specific persons.

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1. The Source Code User and the System Developer may, whether with or without charge, distribute to any third party only the following parts of the Ported

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2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.
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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.5 of 10 December 2007

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iperf performance test

Mark Gates

Ajay Tirumala

Jim Ferguson

Jon Dugan

Feng Qin

Kevin Gibbs

John Estabrook

National Laboratory for Applied Network Research

National Center for Supercomputing Applications

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Jean-loup Gailly Mark Adler

jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).



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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.

