

ネットワークカメラ

ユーザーマニュアル

XNV-6012/XNV-6012M/XNV-6013M
XNV-6022R/XNV-6022RM

ネットワークカメラ ユーザーマニュアル

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※ デフォルトの管理者IDは“admin”です。パスワードは初めてログインするときに設定する必要があります。
個人情報や安全に保護し、情報窃盗による被害を防ぐため、パスワードは3か月ごとに変更してください。
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重要な安全ガイド

1. 本書の説明をよく読んで下さい。
2. 本書の指示を守ってください。
3. 全ての警告を留意してください。
4. 全ての指示に従って下さい。
5. 本機を水の傍で使用しないで下さい。
6. 柔らかく乾いた布か湿った布で製品表面の汚れた部分を拭き取ります。
(アルコール成分、溶剤、界面活性剤や油分を含む洗剤や化粧品を使用しないでください。製品の変形や損傷につながる恐れがあります。)
7. どの換気孔も塞がないようにして下さい。メーカーの指示に従って取り付けして下さい。
8. ラジエーター、熱レジスタ、あるいは熱を発生するその他の装置（アンプを含む）などの熱源の傍に設置しないで下さい。
9. 分極タイプあるいは接地タイプのプラグの安全目的を必ず守ってください。分極プラグには一方が他方より幅広い2本の足が付きます。接地プラグには2本の足とアース（接地）差込み先が付いています。2本の平たい足あるいは3本めの差込み先はユーザーの安全のために付いています。提供されたプラグがお使いのコンセントに合わない場合には、旧式のコンセントの交換について電気技師にご相談下さい。
10. 特にプラグ、ソケット、機器との接点でコードが踏まれたり引っ張られたりしないよう電源コードを保護してください。
11. メーカーが指定する付属品のみを使用してください。
12. カート、スタンド、三脚、ブラケットはメーカー指定のもの、あるいは製品と一緒に販売されたもののみを使用してください。カートを使用する場合、カートと製品を動かす際には転倒による損傷に注意してください。
13. 雷雨のときまたは長期間使用しない場合は、製品の電源プラグを抜いてください。
14. 全ての修理は資格のあるサービス・スタッフに任せて下さい。修理は電源コードあるいはプラグの損傷、液体をこぼした、または物体を機器内に落としてしまった、機器を雨や湿度にさらしてしまった、正常に機能しない、あるいは機能の低下など、様々な原因で機器が損傷した場合に必要となります。
15. 製品取付け時に力を入れ過ぎると、カメラが損傷し、誤作動を起こす場合があります。適切でないツールを使用して製品を力まかせに取り付けると、カメラが損傷する場合があります。
16. 化学物質やオイルミストが存在する、または生成される可能性のある場所には製品を取り付けしないでください。大豆油のような食用油によって製品が損傷を受けたりゆがんだりするため、キッチンやキッチンテーブル付近には製品を取り付けしないでください。製品に損傷を与える原因となります。
17. 製品を取り付ける場合、製品表面が化学物質で汚染されないように注意してください。クリーナーや接着剤のような化学溶剤は、製品表面に深刻な損傷を与える原因となります。
18. 推奨されない方法で製品を取り付け/取り外した場合、製品の機能/性能は保証できません。ユーザーマニュアルの"取付けと接続"を参照して製品を取付けます。
19. 水中での製品の取付けや使用は、製品への深刻な損傷の原因となります。



警告

火災または感電防止のため、この装置を雨または湿気にさらさないでください。本製品の換気グリルまたはその他の開口部から金属製物質を差し込まないでください。

製品に液体をこぼしたりかけたりせず、また花瓶のように液体が入った物体を製品の上に載せたりしないでください。

損傷を防止するため、本製品を設置説明に従って壁/天井にしっかりと取り付けてください。

注意

	注意 感電の危険がありますので開けないで下さい	
注意: 感電の恐れがありますので裏カバーは開けないで下さい。 如何なる場合にも本品の分解や改造を行わないで下さい。 資格のあるサービス・スタッフにお問い合わせ下さい。		

グラフィック記号の説明



正三角形内の稲妻型の矢印は、本製品の筐体に人が感電する恐れのある"高圧電流"が存在することを、ユーザーに警告するものです。



正三角形内の感嘆符は、製品の操作およびメンテナンス(修理)に関する重要な付属説明書があることをユーザーに知らせるものです。

概要

クラス I 構造

クラス I 構造を持つ装置は保護接地接続のある本線ソケットに接続してください。

バッテリー

電源(バッテリーパックまたは取り付けた状態のバッテリー)は直射日光の当る場所や、熱器具の近くには置かないでください。

デバイスの切断

問題がある場合は、装置からメインプラグを抜きます。次にお住まいの地域の修理会社に電話してください。

米国外では、認証機関が採用している取付け金具用のHARコードが使用される場合があります。

注意

電池を間違ったタイプと交換すると爆発の危険性があります。指示に従って使用済み電池を処分してください。

これらの保守説明書は、資格のあるサービススタッフのみが使用するものです。感電の危険性を低減するために、資格がある場合を除き操作説明書に含まれていない修理は行わないでください。

入力電源は1台のカメラにのみ使用し、他のデバイスを接続しないでください。

ITEは、外部の施設ヘルレーティングなしで、PoEネットワークのみに接続することになっています。

次に示す安全のための推奨注意事項を熟読してください。

- 本製品は平らな場所に置いてください。
- 直射日光の当たる場所、暖房設備または低温区域の近くには取付けしないでください。
- 本製品を導電性の高い物体の近くに置かないでください。
- 本製品は自分で修理しないでください。
- 本製品の上に水の入ったコップを置かないでください。
- 磁気源のそばに取付けしないでください。
- 換気口は塞がないようにしてください。
- 本製品の上に重いものを置かないでください。
- カメラを取り付ける/取り外すときは、保護手袋を着用してください。製品表面は高温になるため、やけどの原因となる場合があります。

ユーザーマニュアルは、本製品の使用方法に関するガイドブックです。

このマニュアルで使用する用語の意味を次に示します。

- 参照: 製品の使用方法についてのヘルプ情報を示す場合。
 - 注意: 指示に従わないことで、ものや人に損害が発生する可能性がある場合。
- ※ 製品を使用する前に安全のためこのマニュアルを読み、大切に保管しておいてください。

特定なインストール環境で無線通信に干渉が発生する場合があります。製品と周囲の無線通信デバイスの間に電磁波干渉が発生する場合、無線通信デバイスとの間隔を拡張したり、通信用のアンテナ方向を調整することをお勧めします。

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お奨めする PC 仕様

- CPU :Intel(R) Core(TM) i7 3.4 GH以降
 - RAM :8G以上
 - 対応OS : Windows, Mac OS X
 - **プラグインフリーのWeb Viewer**
サポートするウェブブラウザ : Google Chrome, MS Edge, Mozilla Firefox(Windows 64bit Mac OS Xでのみサポート), Apple Safari (Mac OS Xでのみサポート)
 - **プラグインWeb Viewer**
サポートするウェブブラウザ : MS Explorer, Apple Safari (Mac OS Xでのみサポート)
- ※ 詳細のOSやブラウザ/バージョン情報に関しては、付録を参照してください。

推奨マイクロSD/SDHC/SDXCメモ리카ード仕様

- 推奨容量 : 推奨容量:16GB～256GB (MLCタイプ)
- 以下の製造業者および種類のメモリーカードをこのカメラで使用することを推奨します。
 - 製造業者: SanDisk, Transcend
 - 製品グループ: 高耐久

NAS推奨仕様

- 推奨容量 : 200GB又はそれ以上を推奨します。
- 同時アクセス : NAS1台で最大16台のカメラ接続を受けられます。
- このカメラのために、NASを以下の製造仕様で利用することを推奨します。

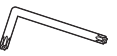
推奨製品	入手可能なサイズ
QNAP NAS	最大16台のカメラが同時にアクセスできます。
Synology NAS	最大16台のカメラが同時にアクセスできます。



■ NAS装置をビデオ映像の保存以外の目的で使用する場合、利用できるカメラの数は減る場合があります。

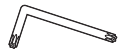
キット内容 (XNV-6012/6012M/6022R/6022RM)

製品パッケージに、カメラと付属品がすべて同梱されていることをご確認ください。
(販売国ごとに付属品が異なるため。)

外観	品目名	数量	説明	モデル名
	カメラ	1		XNV-6012/ XNV-6012M/ XNV-6022R/ XNV-6022RM
	クイックガイド (オプション)	1		
	保証書 (オプション)	1		
	星型レンチ	1	ドームカバーを除去/固定するために使用します	
	M4タッピンねじ	2	カメラを壁または天井に取り付けるときに使用します	
	プラスチックアンカー	2	ネジを固定するために穴に挿入します (固定力を強化)	
	テンプレート	1	カメラを取り付けるときに使用します	
	取り付けブラケット	1	カメラを壁またはギャングボックス (単体) に取り付けるときに使用します	
	取付ブラケット用M4ねじ	2	取り付けブラケットにカメラを固定するときに使用します	XNV-6012/ XNV-6022R
	RJ45防水アクセサリ	1	RJ45コネクタケーブルの防水用に使用します	

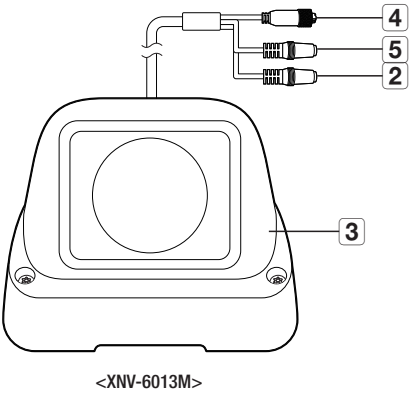
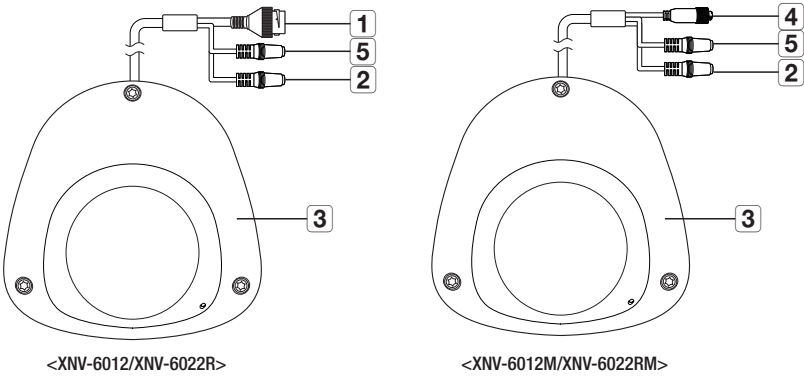
キット内容 (XNV-6013M)

製品パッケージに、カメラと付属品がすべて同梱されていることをご確認ください。
(販売国ごとに付属品が異なるため。)

外観	品目名	数量	説明
	カメラ	1	
	クイックガイド (オプション)	1	
	保証書 (オプション)	1	
	星型レンチ	1	ドームカバーを除去/固定するために使用します
	M4タッピンねじ	4	カメラを壁または天井に取り付けるときに使用します
	十字穴付きネジ	4	カメラをハンギングマウントやギャングボックスに設置する時に使用されるスクリューです。
	Oリング	4	M4タッピンねじと使用(防水)
	プラスチックアンカー	4	ネジを固定するために穴に挿入します (固定力を強化)
	テンプレート	1	カメラを取り付けるときに使用します

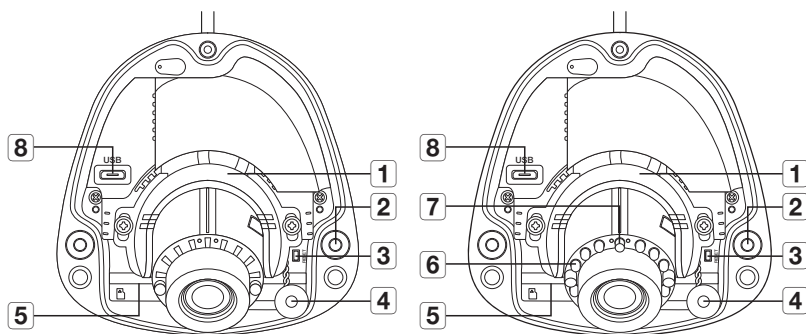
概観

外観



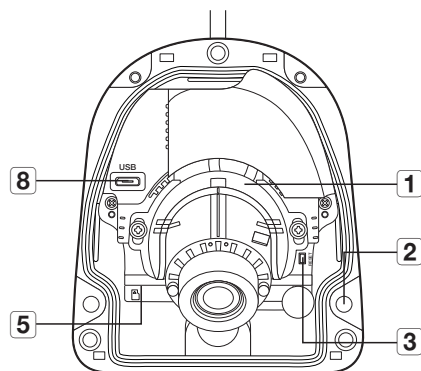
項目	説明
1 PoEコネクタ	ネットワークと接続し、イーサネット経由で配電します。
2 オーディオインジャック	マイクに接続するために使用します。(ピンク)
3 ドームカバー	レンズとメインユニットの保護に使用するケースカバー。
4 M12雌コネクターケーブル	電源供給とネットワーク接続のため、M12雌コネクターケーブルに接続します。
5 オーディオアウトジャック	スピーカーに接続するために使用します。(緑)

内部



<XNV-6012/XNV-6012M>

<XNV-6022R/XNV-6022RM>



<XNV-6013M>

項目	説明
1 レンズカバー	レンズの保護および固定に使用します。
2 固定穴	天井にカメラを固定するための穴。
3 リセットボタン	カメラの設定を初期値にリセットします。約5秒間押し続けてシステムを再起動します。 ■ カメラをリセットすると、DHCPを有効化されるようにネットワーク設定が調整されます。ネットワーク内にDHCPサーバーがない場合は、Device Managerプログラムを用いて基本的なネットワーク設定(IPアドレス、Subnet Mask、Gatewayなど)を再設定してから接続することができます。
4 マイク用の穴	マイクが埋め込まれています。
5 マイクロSDメモ리카ードの区画	マイクロSDメモ리카ードの区画です。
6 赤外線LED	これらの赤外線LEDは照度センサーによって制御されます。
7 照度センサー	入射光を検知して、赤外線LEDを制御します。
8 MICRO USBポート	Wi-Fi Dongleに接続するポート スマートフォンにインストールしたアプリケーションを通じてインストールビデオを確認できます。(取り付け用) 15ページの「Wi-Fi Dongleへの接続」を参照します。 ■ Wi-Fi DongleとOTGアダプタは別売りです。

取付けおよび接続

取付け

取付けに関する注意事項

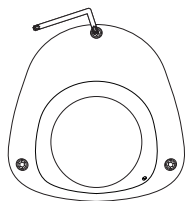
カメラを取り付ける前に、以下の指示をよく読んでください。

- 天井に取り付けるとき、希望の場所は、カメラ重量の最低 5 倍を支えられる必要があります。
- 引っかかっていたり、はがれたケーブルは製品の損傷または火災の原因となります。
- 安全のため、設置場所に人を近づけないでください。また、万が一のため持ち物は取付け場所には置かないでください。
- このカメラは、IP66 (XNV-6012M/6022RM)および IP67 (XNV-6013M)規格を満たす防水性製品です。ただし、M12標準コネクタとケーブルを使用しない場合、ジャック部分は防水性ではなくなります。本製品を取り付ける場合は、M12標準外部ケーブルを使用することをお勧めします。
- 車両外部にカメラを取り付ける場合は、必ず平らな面に取り付けてください。

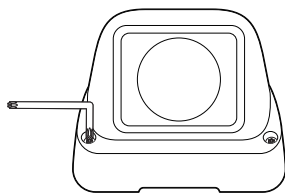
取外し

付属の星型レンチを使用してねじを反時計回りに回して緩めた後で、ドームカバーを取り外します。

- ネジは、完全に緩める必要はありません。



<XNV-6012/6012M/6022R/6022RM>



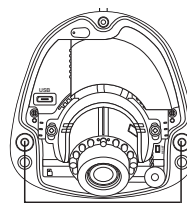
<XNV-6013M>

取付け方法

1. モニタリングを行う方向を念頭において、テンプレートを貼り付け、テンプレートに従って穴を開けます。
2. 付属のタッピンねじを使用して穴にカメラを固定します。

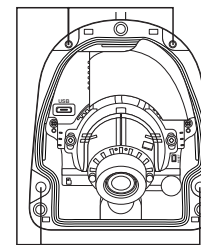


- 製品を壁に取り付けるとき、同梱の取り付けブラケットを使用します。



固定穴

<XNV-6012/6012M/6022R/6022RM>



固定穴

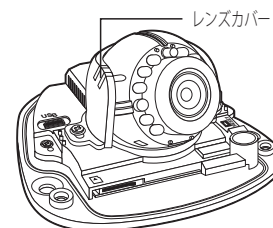
<XNV-6013M>

3. カメラのレンズカバーの両側にあるねじを反時計回りに回転し、緩めます。

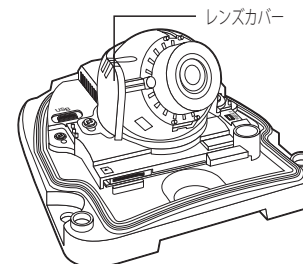


- ねじを緩めずに無理やりレンズ（フード）を張った場合、製品欠陥の原因となる場合があります。

4. “カメラの監視方向の調整”セクションを参照してレンズを目的の方向に調整します。(13ページ)

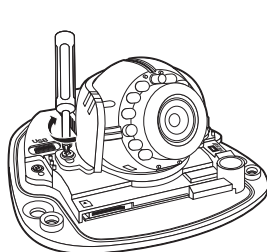


<XNV-6012/6012M/6022R/6022RM>

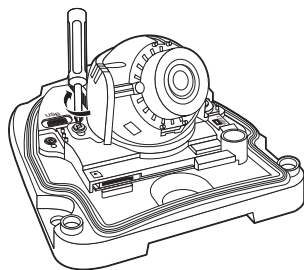


<XNV-6013M>

5. 角度を調節した後、ねじを時計回りに回転し、レンズの角度を固定します。



<XNV-6012/6012M/6022R/6022RM>

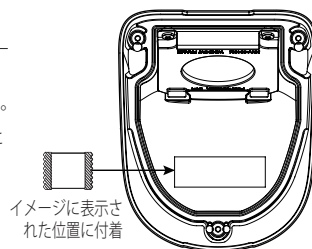


<XNV-6013M>

6. (XNV-6013Mのみ)追加吸湿剤(カードタイプ)を付着してください。
アクセサリ吸湿剤は別途密封包装で提供され、製品設置過程(カバー分離)でセット内部に流入された水分によって発生できるドームの湿気(結露)現象を防止します。

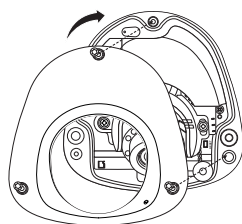
- 1) アクセサリーに提供された吸湿剤の包装を外してください。
- 2) 吸湿剤の接着面に付着された保護テープを除去した後、イメージのようにトップカバーの内側面に付着してください。
- 3) 吸湿剤が付着されたトップカバーをボディと締結してください。

- ! ■ 多湿な環境で設置しないでください。(ドーム湿気(結露)の原因となります。)
- カバーを外したまま10分以上放置しないでください。
- アクセサリー吸湿剤の包装を外したまま、
-5分以上放置しないでください。
-水分がつかないように注意してください。
- [カバー分離 → 吸湿剤付着 → カバー締結] すべての過程は10分以内に行ってください。

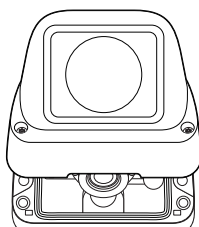


7. ドームカバーを被せ、星型レンチを使用してねじを時計回りに回して締め、カバーを固定します。

- ! ■ カバーをしっかり固定しないと、防水上の問題が発生する場合があります。



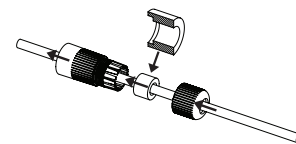
<XNV-6012/6012M/6022R/6022RM>



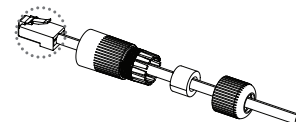
<XNV-6013M>

RJ45防水ケーブルをLANケーブルに接続する方法 (XNV-6012/6022R)

1. 矢印の方向に挿入します。

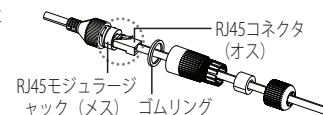


2. LANコネクタ (オス) をケーブルに接続します。

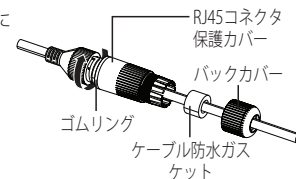


3. RJ45モジュージャック (メス) をRJ45コネクタ (オス) に接続します。

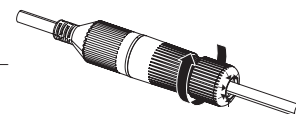
- ! ■ 部品はそれぞれ分かれたままにしてください。



4. RJ45モジュージャック (メス) とRJ45保護カバーを時計回りに回転させて組み立てます (矢印に従う)。



5. RJ45保護カバーとバックカバーを時計回りに回転させて組み立てます (矢印に従う)。
バックカバーを組み立てるとき、ケーブル防水ガスケットをケーブルにしっかり取り付けて防水します。



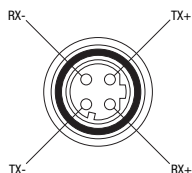
- ! ■ これを完全に組み立て、RJ45コネクタのねじ山の端までバックカバーを回転させます。

取付けおよび接続

コネクタケーブルの接続 (XNV-6012M/6013M/6022RM)

M12雄コネクタをカメラのM12雌コネクタの穴に接続します。

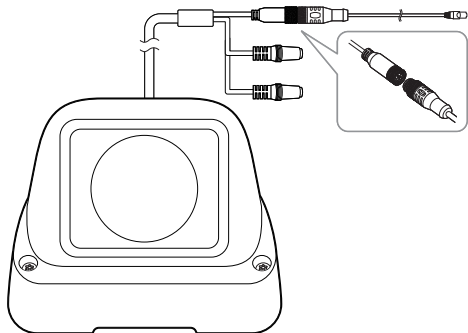
- このカメラは雌のDコードタイプを使用します。
 - PoE（パワー・オーバー・イーサネット）が使えます。
 - 遮断機能付ネットワークコネクタの使用をおすすめします。
- このカメラを遮断機能付ネットワークケーブル（STP）に接続します。
- M12の仕様に適合している雄、Dコード型外部ケーブルを4点使用してください。
- PoEデバイスがアース端子にちゃんと接続されているか確認します。



M12-RJ45変換ケーブルを使用した接続 (XNV-6012M/6013M/6022RM)

変換ケーブル用のM12オス・コネクタを、カメラ側のM12メス・コネクタの溝に接続します。

- M12-RJ45ケーブルは別売です。



電源とネットワーク (XNV-6012/6022R)

カメラをPoE機器を接続します。

- PoE（パワーオーバーイーサネット）が使用可能なルーターのPoEコネクタに接続します。
- IEEE802.3afプロトコルに準拠したPoE（パワーオーバーイーサネット）を使用します。

電源とネットワーク (XNV-6012M/6013M/6022RM)

カメラをPoE機器に接続するか、お使いのカメラの変換ケーブルのM12-RJ45コネクタをPoE機器に接続します。

- 接続方法は、ユーザーのインストール環境によって異なる場合があります。
- PoE（パワー・オーバー・イーサネット）対応ルーターのPoEコネクタに接続します。
- IEEE802.3afプロトコルに適合したPoE（パワー・オーバー・イーサネット）を使用します。データピンペア1、2、3、6経由で電源を供給するA PoEデバイスのみ使用できます。
- M12-RJ45変換ケーブルを使用した場合でも、使用できるのは、電源をデータペアピン1、2、3、6に供給しているモードA型のPoE機器のみです。

ネットワークケーブルの仕様

アイテム	コンテンツ	備考
コネクタ	RJ45	
イーサネット	10/100ベース-T	10/100 Mbps
ケーブル	UTP カテゴリ 5e	
最大距離	100M	DC抵抗 $\leq 0.188 \Omega/\text{m}$
PoE サポート	IEEE 802.3af	

屋外設置

建物の外に本製品を取り付ける際、屋外に接続されたケーブルとの隙間から水が漏れないように、防水ブチルゴムテープ（店舗で購入することができます）を使って防水してください。（XNV-6012/6022R）

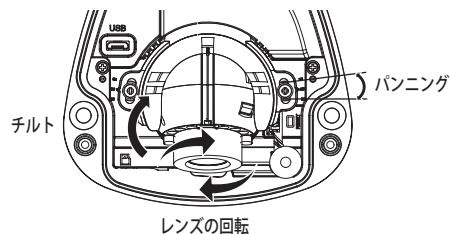
M12コネクタ及びM12ケーブルを使わずに建物の外で取り付けを行う場合、外部に接続したケーブルの隙間から水が漏れる恐れがあるため、下記に表示されている通り、防水用に防水ブチルラバーテープを使用する必要があります。（XNV-6012M/6013M/6022RM）

1. PoEケーブルを接続します。
2. 防水ブチルゴムテープの半分以上が重なるようにして黒のケーブルジャケット（エリアA）とケーブル接続箇所を巻きつけます。



- ケーブルジャケットが適切に防水加工されていない場合、それが直接漏れを引き起こす可能性があります。ケーブルをテープで何度も巻くことで保護するようにしてください。
- 防水ブチルテープはブチルゴムで作られており、通常の2倍の長さに伸ばすことができます。

カメラの監視方向の調整 (XNV-6012/6012M/6022R/6022RM)



■ 監視方向の調整

カメラが天井に固定されている場合にのみカメラの方向を調整できます。この場合、カメラユニットを左右に回すことをパンニング、上下角度を調整することをチルト、軸を中心にレンズを回転することを回転と言います。

- 最大パン範囲は-5°から+5°です。
- 回転角度は-90°か+90°です。
- ティルトの合計範囲は67°です。

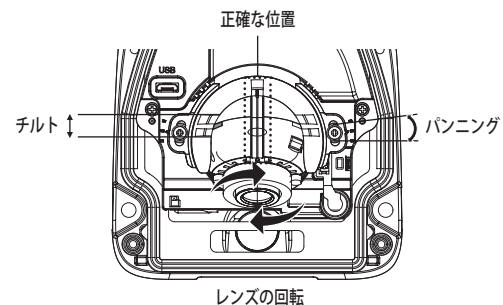


- 規格外の角度でカメラを使用した場合、IRまたは未知画像によるリフレクションが発生するおそれがあります。

■ 調整方法

1. カメラを取り付けてから、モニタリングを行う方向を念頭に、パン角度を調整します。
2. 画像が反転しないように水平角を設定します。
3. カメラが監視する被写体の方向を向くようにチルトの角度を調整します。

カメラの監視方向の調整 (XNV-6013M)



■ 監視方向の調整

カメラが天井に固定されている場合にのみカメラの方向を調整できます。この場合、カメラユニットを左右に回すことをパンニング、上下角度を調整することをチルト、軸を中心にレンズを回転することを回転と言います。

- 最大パン範囲は-5°から+5°です。
- 回転角度は-90°か+90°です。
- 最大チルト角度は-10°～+10°です。



- 指定回転角度以外の角度を使用すると、画像が遮られる場合があります。特に、チルトを調整する際は、レンズ部分にマークの入った部分が矢印の範囲外に出てしまわないよう、注意が必要です。
- パンとチルトを一緒に使用すると、画像が遮られる場合があります。
- 廊下ビューが正しい位置(0度)でない場合、画像が遮られる場合があります。

■ 調整方法

1. レンズ中央の長いマークを正しい位置に設定します。
2. カメラを取り付けてから、モニタリングを行う方向を念頭に、パン角度を調整します。
3. 画像が反転しないように水平角を設定します。
4. カメラが監視する被写体の方向を向くようにチルトの角度を調整します。

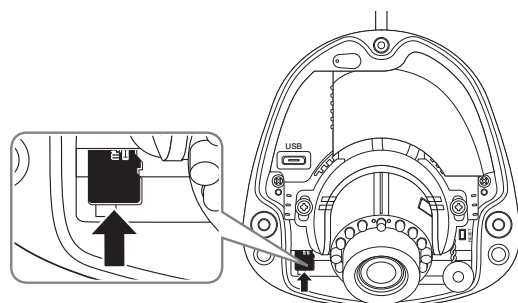
取付けおよび接続

マイクロSDメモ리카ードの挿入/取出し

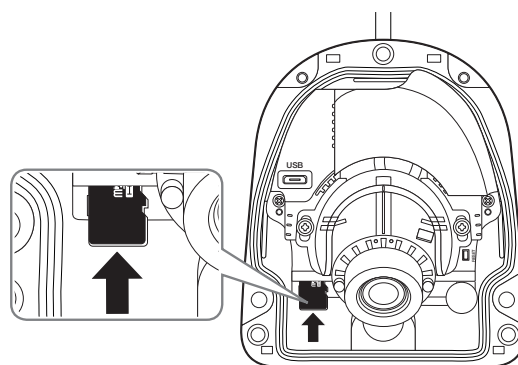
- マイクロSDメモ리카ードを挿入する前に、カメラの電源ケーブルを抜いてください。
- 上下反対のままマイクロSDメモ리카ードを無理に挿入しないでください。
無理に差し込むと、マイクロSDメモ리카ードが破損する恐れがあります。
- 雨あるいは高湿度の状態でMicroSDカードを挿入したり取り出したりすることは推奨されません。
- 取り外した製品カバーは5分以内に戻す必要があります。そうしなかった場合、内部結露が起こるリスクがあります。

マイクロSDメモ리카ードの挿入

マイクロSDメモ리카ードを図中の矢印の方向に差し込みます。



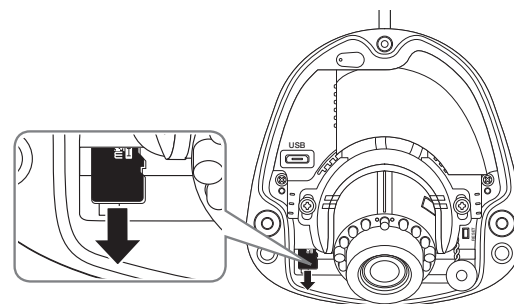
<XNV-6012/6012M/6022R/6022RM>



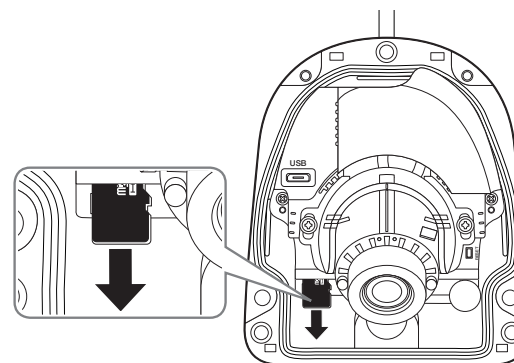
<XNV-6013M>

マイクロSDメモ리카ードの取出し

図に示されているように、メモ리카ードの露出部分を慎重に押して、スロットからメモ리카ードを取り出します。



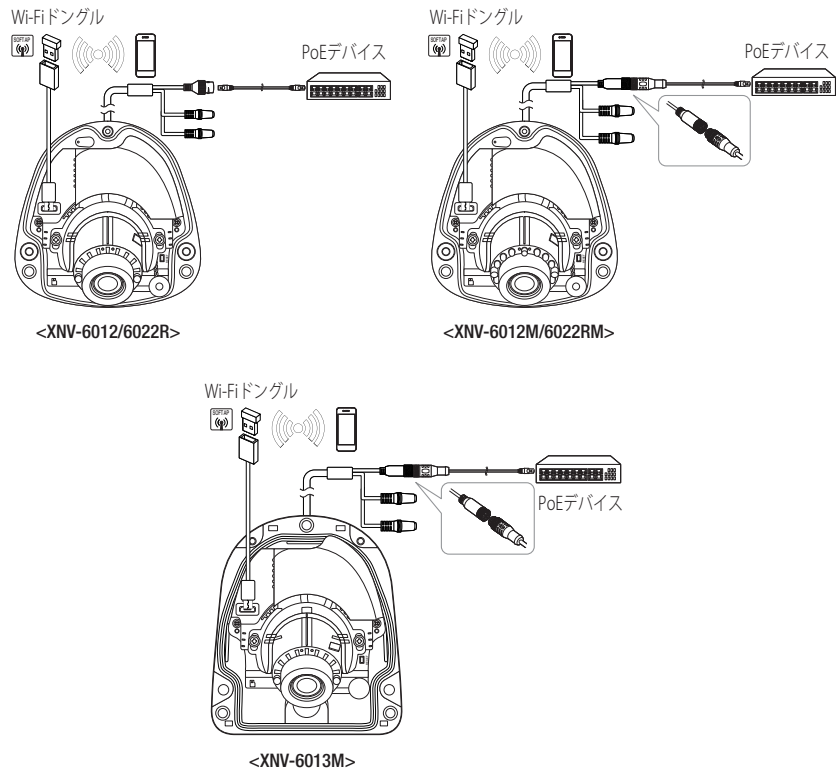
<XNV-6012/6012M/6022R/6022RM>



<XNV-6013M>

- 力を入れて押して放すと、マイクロSDメモリーカードが飛び出ることがあるため、注意してください。
- MicroSDメモリーカードを取り外す前に、<ストレージ>でデバイスを<Off>に設定し、[適用] ボタンを押してカメラをオフにします。
- カメラのスイッチを切るか、データの入っているマイクロSDメモリーカードを製品から抜くと、データが失われるか、または損傷を受ける場合があります。

他のデバイスとの接続



■ 本製品のMicro USBアウト端子は、簡単なインストールのために提供されており、監視目的にはお勧めできません。

Wi-Fi接続

カメラ設定

1. OTGアダプタ (5ピン) とWi-Fi DongleをMicro USB端子に接続します。

スマートフォン設定

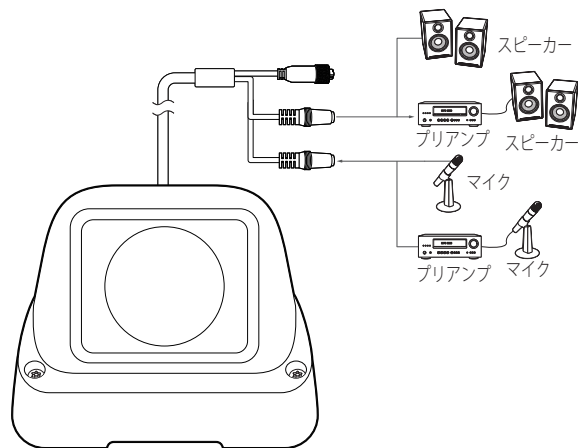
1. Wisenetインストールアプリケーションをインストールします。
2. Wi-FiをオンにしてからカメラのSSIDを選択します。
3. Wisenetインストールアプリケーションを起動します。
4. カメラにログインすると、ビデオに接続されます。
5. スマートフォンでビデオを視聴しながら、画角を調整することができます。

推奨するDongle製造業者

製造業者	モデル
NETIS	WF2123 n300
EDIMAX	EW-7811Un
IP Time	N100mini
TP-LINK	TL-WN823N V1
ASUS	USB-N13
NETGEAR	WNA3100M

取付けおよび接続

音声入力/出力への接続



1. カメラのAUDIO INポートをマイクに接続するか、マイクが接続されているアンプのLINE OUTポートに接続します。

■ マイクが組み込まれているため、外部マイクの代わりに組み込みマイクを使用できます。(XNV-6012 / 6012M / 6022R / 6022RM にのみ該当)

- 騒音が多い環境では、外部マイクロフォンを使用することをお勧めします。

2. カメラのAUDIO OUTポートをスピーカーに接続するか、スピーカーが接続されているアンプのLINE INポートに接続します。

3. 音声入力の仕様を確認します。

音声コーデック

- 音声入力: G.711PCM (ビットレート: 64kbps / サンプリング周波数: 8kHz)、G.726ADPCM (ビットレート: 16Kbps, 24Kbps, 32Kbps, 40Kbps / サンプリング周波数: 8kHz), AAC (Bit Rate: 48Kbps / Sampling Frequency: 16kHz)
- 音声出力: G.711PCM (ビットレート: 64kbps / サンプリング周波数: 8kHz)

全二重音声

- 音声入力 (XNV-6012/6012M/6022R/6022RM): 選択可能 (マイク/ライン入力/内蔵マイク)、サポートされる電圧: 2.5VDC (4mA)、入力インピーダンス: 2K オーム
- 音声入力 (XNV-6013M): 選択可能 (マイク/ライン入力)、サポートされる電圧: 2.5VDC (4mA)、入力インピーダンス: 2K オーム
- 音声出力: Line-out (3.5mmモノジャック)、最大出力: 1Vms
- インピーダンスライン出力: 600Ω

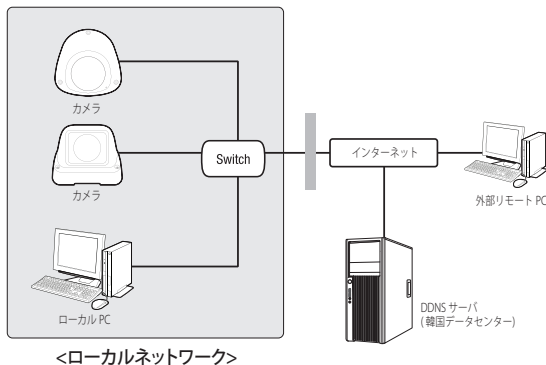
ネットワーク接続と設定

使用中のネットワーク環境に合わせてネットワークを設定することができます。

カメラを直接ローカルネットワークに接続する

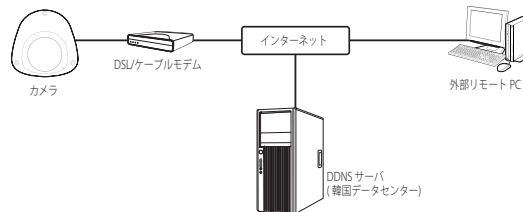
LAN のローカル PC からカメラに接続する

1. ローカル PC でインターネットブラウザを起動します。
2. ブラウザのアドレスバーにカメラの IP アドレスを入力します。



- LAN ネットワーク範囲外の外部インターネットのリモート PC は、ポート転送がきちんと設定されていない場合やファイアウォールが有効の場合には、設置済みカメラとインターネット接続ができない場合があります。この場合、ネットワーク管理者にお問い合わせください。
- Device Manager で初期パスワード「4321」に IP アドレス、Subnet Mask、Gateway、HTTP ポート、VNP ポート、IP タイプを設定することができます。ネットワークインターフェースを変更してからセキュリティ強化のために、ウェブビューアーに接続して必ずパスワードを変更してください。
- 工場出荷時の設定で、IP アドレスが DHCP サーバーから自動的に割り当てられます。使用可能な DHCP サーバーがない場合、IP アドレスは 192.168.1.100 に設定されます。IP アドレスを変更するためには、Device Manager を使用してください。Device Manager の使い方は、「**Device Manager を使用する**」をご参照ください。(19 ページ)

カメラを直接 DHCP ベースの DSL/ケーブルモデムに接続する

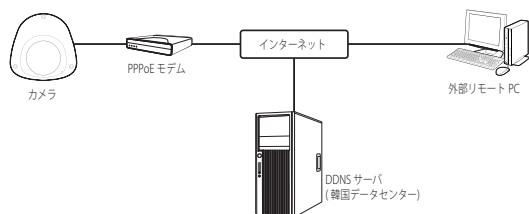


1. ユーザーの PC をネットワークカメラに直接接続します。
2. Device Manager を使用してカメラの IP アドレスをユーザーのパソコンからインターネットブラウザで接続できる IP アドレスに変更してください。
3. インターネットブラウザを使用して Web Viewer と接続します。
4. [設定] ページに移動します。
5. [ネットワーク] - [DDNS] に移動し、DDNS の設定を行います。
6. [Basic] - [IP & ポート] へ移動し、IP 方式を [DHCP] に設定します。
7. PC から取り外したカメラを直接モデムに接続します。
8. カメラを再起動します。

- DDNS の設定方法についての情報は、ウェブビューアーのオンラインヘルプを参照してください。
- IP フォーマットの設定方法についての情報は、ウェブビューアーのオンラインヘルプを参照してください。

ネットワーク接続と設定

PPPoEモデムへのカメラの直接接続

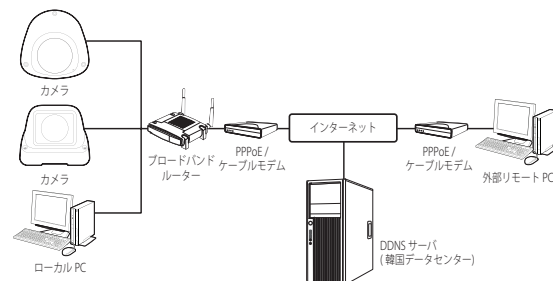


1. ユーザのPCをネットワークカメラに直接接続します。
2. Device Managerを使用してカメラのIPアドレスをユーザーのパソコンからインターネットブラウザで接続できるIPアドレスに変更してください。
3. インターネットブラウザを使用してWeb Viewerと接続します。
4. [設定]ページに移動します。
5. [ネットワーク] - [DDNS]に移動し、DDNSの設定を行います。
6. [Basic] - [IP & ポート] の設定ページへ移動し、IP方式を [PPPoE] に設定し、サービスのIDとパスワードを入力します。
7. PCから取り外したカメラを直接モデムに接続します。
8. カメラを再起動します。

- DDNSの設定方法についての情報は、ウェブビューアのオンラインヘルプを参照してください。
- IPフォーマットの設定方法についての情報は、ウェブビューアのオンラインヘルプを参照してください。

PPPoE/ケーブルモデムでカメラとブロードバンドルーターを接続する

この方法は、ホーム、SOHO、および一般の店舗などの小規模ネットワーク環境に適しています。



ブロードバンドルーターに接続したローカル PC のネットワーク環境の設定は

ブロードバンドルーターに接続したローカル PC のネットワーク環境の設定は、以下の手順で行ないます。

- 手順: <Network> → <Properties> → <Local Area Connection> → <General> → <Properties> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> または <Use the following IP address>。
- <Use the following IP address> を選択する場合には、以下の手順を実行します:
 - 例1) ブロードバンドルーター のアドレス (LAN IP) が 192.168.1.1
IP アドレス: 192.168.1.100
サブネットマスク: 255.255.255.0
デフォルト ゲートウェイ: 192.168.1.1
 - 例2) ブロードバンドルーター のアドレス (LAN IP) が 192.168.0.1
IP アドレス: 192.168.0.100
サブネットマスク: 255.255.255.0
デフォルト ゲートウェイ: 192.168.0.1
 - 例3) ブロードバンドルーター のアドレス (LAN IP) が 192.168.xxx.1
IP アドレス: 192.168.xxx.100
サブネットマスク: 255.255.255.0
デフォルト ゲートウェイ: 192.168.xxx.1
- ブロードバンドルーターのアドレスに関しては、製品のユーザガイドを参照してください。
- ブロードバンドルーターのポートフォワーディングの詳細については、「ートフォワード (ポートマッピング) の設定」を参照してください。(21ページ)

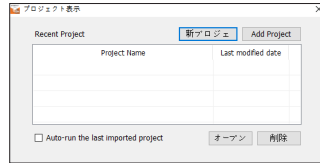
DEVICE MANAGERを使用する



- Device Manager プログラムは、Hanwha Vision のウェブサイト (<https://www.HanwhaVision.com>) に接続して **顧客支援** - **<オンラインツール>** でダウンロードすることができます。
- Device Manager の詳しい使い方は、トップの **<ヘルプ>** メニューで確認することができます。

プロジェクト設定

カメラをプロジェクトごとに保存し、読み込むことができます。新しいプロジェクトを作成するには、プロジェクト名とパスワードを設定してください。作成したプロジェクトを実行するには、パスワードの入力が必要です。



自動にカメラを検索する

Device Manager がインストールされた PC と同じネットワークにカメラが接続された場合、検索機能でネットワークカメラを探すことができます。

1. Device Manager のトップで **<検索>** をクリックしてください。
2. 検索リストで検索したいカメラが表示されているか確認してください。
 - ・カメラに付着されたステッカーで MAC アドレスを確認してください。

IP アドレスを設定する

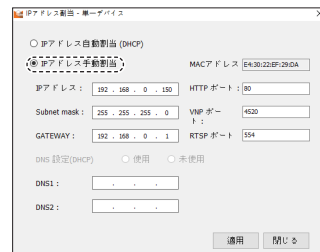
カメラのネットワーク設定を変更するためには、**<状態>** 項目に **<Login OK>** と表示される必要があります。Device Manager のトップで **<資格>** をクリックすると、ログインできます。

Static IP を設定する

IP アドレス & ポート情報を手動で入力して設定します。

1台のカメラを設定する場合

1. 検索リストで IP 設定を変更するカメラをクリックしてください。
2. Device Manager のトップで **<IP 割り当てる>** をクリックしてください。
3. **<IP アドレス手動割り当て>** を選択してください。
 - ・カメラの IP 情報が既存に設定されている値で表示されます。
4. IP 関連項目 & ポート関連項目を入力してください。



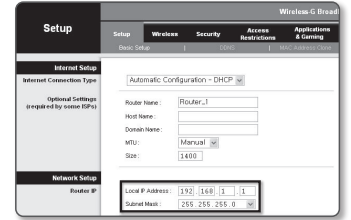
ブロードバンドルーターを使用しない場合

ネットワークマネージャーに **<IP アドレス>**、**<Subnet Mask>**、**<Gateway>** の設定値をお問い合わせください。

- ・ HTTP ポート : インターネットブラウザを使用してカメラにアクセスする際に使用します。初期設定は 80 です。
- ・ RTSP ポート : リアルタイム・ストリーミングを制御するポートであり、初期値は 554 です。

ブロードバンドルーター使用の場合

- ・ IP Address : ブロードバンドルーターによって指定された IP 範囲でアドレスを入力します。
例) 192.168.1.2~254、192.168.0.2~254、192.168.XXX.2~254
- ・ Subnet Mask : ブロードバンドルーターの **<Subnet Mask>** が、カメラの **<Subnet Mask>** となります。
- ・ Gateway : ブロードバンドルーターの **<Local IP Address>** が、カメラの **<Gateway>** となります。



- 設定は、接続しているブロードバンドルーターのモデルによって異なる場合があります。詳細は、該当するルーターのユーザーマニュアルを参照してください。
- ブロードバンドルーターのポートフォワーディングの詳細については、**「ポートフォワード (ポートマッピング) の設定」**を参照してください。(21ページ)

ブロードバンドルーターに複数のカメラが接続されている場合

IP に関する設定と、ポートに関する設定は別々に設定します。

例)

	カテゴリ	カメラ #1	カメラ #2
IP 設定	IP アドレス	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
ポート設定	HTTP ポート	8080	8081
	RTSP ポート	554	555

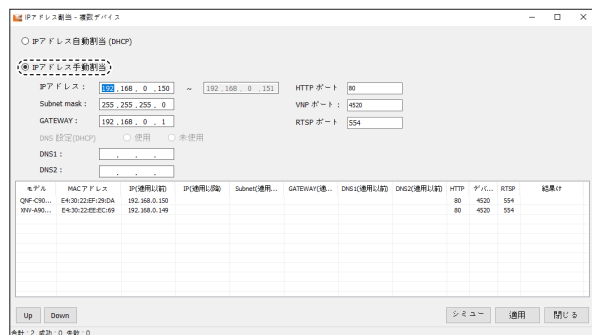


- **<HTTP Port>** が 80 以外に設定されている場合、カメラにアクセスするには、インターネットブラウザのアドレスバーで **<Port>** 番号を設定する必要があります。
例) `http://IP アドレス: HTTP ポート`
`http://192.168.1.100:8080`

5. **[適用]** ボタンをクリックしてください。
6. 成功確認メッセージが表示されたら、**[OK]** ボタンをクリックしてください。

ネットワーク接続と設定

複数のカメラを設定する場合



1. 検索リストでIP設定を変更するカメラをクリックしてください。
2. Device Managerのトップで<IP割り当てる>をクリックしてください。
3. <IPアドレス手動割当>を選択してください。
4. 割り当てるIPアドレス範囲の開始アドレスを入力してください。
5. [シミュ]ボタンをクリックし、各装置に割り当てるIPアドレスを確認します。
 - IPアドレスの項目をダブルクリックすると、それぞれのアドレスを編集できます。
6. [適用]ボタンをクリックし、IPの割り当てを開始します。
7. IP割り当ての成否は、<結果>の項目で確認してください。

ダイナミックIPを設定する

IPアドレスをDHCPで自動的に割り当てられます。

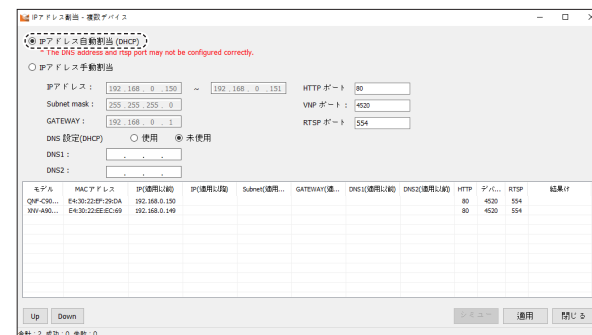
- 動的IP環境の例
 - カメラに接続しているブロードバンドルーターが、DHCPサーバーでIPアドレスを割り当てられている場合
 - DHCPプロトコルを使用して直接カメラをモデムに接続する場合
 - IPがLAN経由で内部DHCPサーバーに割り当てられている場合

1台のカメラを設定する場合

1. 検索リストでIP設定を変更するカメラをクリックしてください。
2. Device Managerのトップで<IP割り当てる>をクリックしてください。
3. <IPアドレス自動割当(DHCP)>を選択してください。
4. [適用]ボタンをクリックしてください。
5. 成功確認メッセージが表示されたら、[OK]ボタンをクリックしてください。



複数のカメラを設定する場合

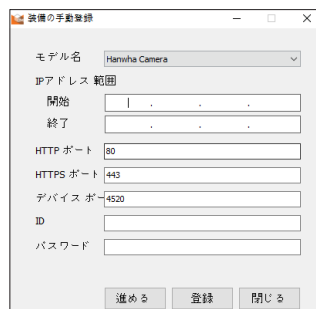


1. 検索リストでIP設定を変更するカメラをクリックしてください。
2. Device Managerのトップで<IP割り当てる>をクリックしてください。
3. <IPアドレス自動割当(DHCP)>を選択してください。
4. [適用]ボタンをクリックし、IPの割り当てを開始します。
5. IP割り当ての成否は、<結果>の項目で確認してください。

手動でカメラを登録する

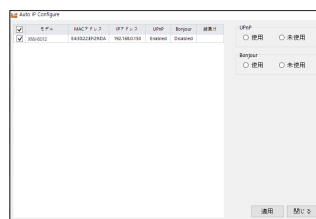
検索機能でカメラを探せなかったり、外部ネットワークにカメラを接続した場合、IP情報を手動で入力してリモートでカメラを探して登録することができます。

1. Device Managerのトップで<デバイス追加>-<装備の手動登録>をクリックしてください。
2. 検索するIPアドレス範囲を入力してください。
3. 登録するカメラの<モデル名>を選択してHTTPポート、HTTPSポート、ID、パスワードを入力してください。
4. [登録]ボタンをクリックしてください。
5. リストでカメラが登録されているか確認してください。
 - カメラに付着されたステッカーでMACアドレスを確認してください。



自動にIPを設定する

1. 検索リストでIPを自動に設定するカメラをクリックしてください。
2. Device Managerのトップで<+>をクリックしてください。
 - デバイス設定メニューが表示されます。
3. デバイス設定メニューで<Auto IP Configure>をクリックしてください。
4. <UPnP>または<Bonjour>プロトコルを使用する場合は、<使用>を選択した後、[適用]ボタンをクリックしてください。

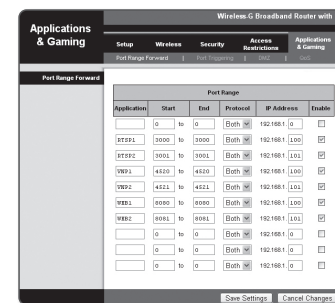


ポートフォワード(ポートマッピング)の設定

カメラを接続したままブロードバンドルーターをインストールした場合は、ブロードバンドルーター上でポート範囲フォワードを設定し、ルーター内のカメラにリモートPCからアクセスできるようにする必要があります。

手動ポートフォワード

1. ブロードバンドルーターの設定メニューから<Applications & Gaming>-<Port Range Forward>を選択します。サードパーティのブロードバンドルーター用にポートフォワードを設定するには、ブロードバンドルーターのユーザーマニュアルを参照してください。
2. ブロードバンドルーターに接続されている各カメラ用の、<TCP>と<UDP Port>を選択します。IPルーターに設定する各ポートの数字は、カメラWeb Viewerの<設定>-<Basic>-<IP & ポート>に指定されるポート番号に合わせて設定しなければなりません。
3. 完了後、[Save Settings]をクリックします。設定が保存されます。



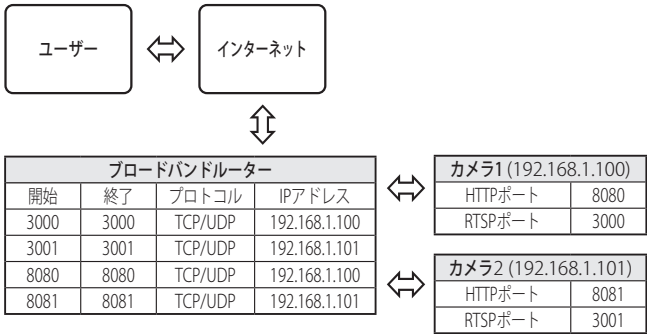
- ポートフォワーディング設定の説明は、CISCO IPのルーターで設定した例示です。
- 設定は、接続しているブロードバンドルーターのモデルによって異なる場合があります。詳細は、該当するルーターのユーザーマニュアルを参照してください。

ネットワーク接続と設定

複数のネットワークカメラに関するポートフォワード範囲設定

- ブロードバンドルーターデバイスの設定Webページで、ポートフォワーディングのルールを設定することができます。
- ユーザーは、カメラ設定画面を使って各ポートを変更できます。

カメラ1とカメラ2がルーターに接続されている場合:



- ルータがUPnP (ユニバーサルプラグアンドプレイ) 機能をサポートしている場合、ポートフォワーディングを追加ルータの設定なしで行うことができます。ネットワークカメラ接続後、メニューから、**設定 -> ネットワーク -> DDNS**の<DDNS>の<**クイック接続**>のチェックボックスを選択します。

共有ローカルPCからカメラへの接続

- Device Managerを起動してください。
接続されているカメラをスキャンし、そのリストを表示します。
- 目的のプロジェクトを選択した後、**[オープン]**ボタンをクリックしてください。
- パスワードを入力すると、プロジェクトのカメラリストが表示されます。
- アクセスするカメラをダブルクリックします。
インターネットブラウザが起動し、カメラに接続されます。

- インターネットブラウザのアドレスバーに検出されたカメラのIPアドレスを入力し、カメラにアクセスすることもできます。

リモートPCからインターネット経由でのカメラへの接続

IPルーターのネットワーククラスター外部のリモートパソコンでは、ユーザーがカメラのDDNS URLを用いてIPルーターのネットワーク内部にあるカメラにアクセスすることができます。

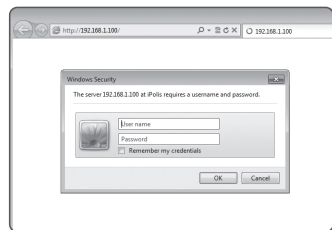
- ブロードバンドルーターのネットワーク内のカメラへアクセスする前に、ブロードバンドルーターにポートフォワードを設定しておく必要があります。
- リモートPCから、インターネットブラウザを起動しカメラのDDNS URLアドレスを入力するか、アドレスバーでブロードバンドルーターのIPアドレスを入力します。
例) <http://ddns.hanwha-security.com/ID>

- DDNSを有効にするためには、DDNSのウェブサイト(<http://ddns.hanwha-security.com>)で会員登録をした後、**[My DDNS]>[製品登録]**で先に製品を登録する必要があります。

カメラへの接続

通常の方法

1. インターネットブラウザを起動します。
2. アドレスバーにカメラのIPアドレスを入力します。
例) • IPアドレス(IPv4): 192.168.1.100 → http://192.168.1.100
- ログインダイアログが表示されます。
• IPアドレス(IPv6): 2001:230:abcd:ffff:0000:0000:ffff:1111
→ http://[2001:230:abcd:ffff:0000:0000:ffff:1111] - ログインダイアログが表示されます。



HTTPポートが80以外の場合

1. インターネットブラウザを起動します。
2. アドレスバーにカメラのIPアドレスとHTTPのポート番号を入力します。
例) IPアドレス: 192.168.1.100:HTTPのポート番号(8080)
→ http://192.168.1.100:8080 - ログインダイアログが表示されます。

URLを使用する場合

1. インターネットブラウザを起動します。
2. アドレスバーにカメラのDDNS URLを入力します。
例) URLアドレス: http://ddns.hanwha-security.com/ID
- ログインダイアログが表示されます。

❗ ■ ネットワーク接続はLANのみの環境では無効になります。

UPnPを介した接続

1. UPnPプロトコルをサポートするために、クライアント或いはオペレーティングシステムを実行します。
2. 検索するカメラ名をクリックします。
Windowsオペレーティングシステムでは、ネットワークメニューから検索したカメラ名をクリックします。
- ログインウィンドウが表示されます。

Bonjourを介した接続

1. Bonjourプロトコルをサポートするためにクライアント或いはオペレーティングシステムを実行します。
2. 検索するカメラ名をクリックします。
Macのオペレーティングシステムでは、SafariのBonjourタブから検索したカメラ名をクリックします。
- ログインウィンドウが表示されます。



■ UPnPまたはBonjourプロトコルを使用する場合は、「自動にIPを設定する」を参照してください。

DDNSアドレスを確認するには

カメラが直接DHCPケーブルモデム、DSLモデムまたはPPPoEモデムと接続している場合には、ISP（インターネットサービスプロバイダ）サーバーに接続するたびにネットワークのIPアドレスが変更されます。その場合、DDNSによるIPアドレスの変更は通知されません。

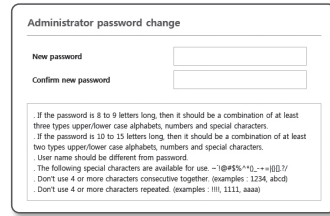
動的なIPベースのデバイスをDDNSサーバーに登録すると、そのデバイスにアクセスするときに、変更されたIPを簡単に確認することができます。

使用するデバイスを<DDNS>サーバーに登録するには、http://ddns.hanwha-security.comにアクセスして最初にデバイスを登録し、Web Viewerの<ネットワーク> - <DDNS>を<DDNS>に設定し、DDNS登録に使用した<製品ID>を指定します。

パスワード設定

本製品を初めて使用する場合、ログインパスワードを登録する必要があります。

- 新しいパスワードが8～9桁の場合、以下のうち3種類以上を使用する必要があります：大文字/小文字、数字、特殊文字。パスワードが10～15桁の場合、2種類以上を使用する必要があります。
 - 認められている特別文字：~!@#\$%^&*()_+=|00.?
- 安全性を高めるため、同じ文字を繰り返したり、キーボード上の連続した文字を入力したりするのはお勧めしません。
- パスワードをなくした場合、[RESET]を押して製品を初期化します。そのため、メモ帳を利用したり、記憶したりして、パスワードをなくさないようにしてください。

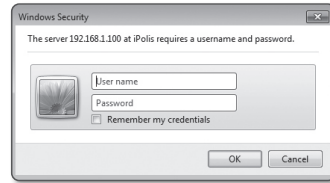


ログイン

カメラにアクセスするたびに、ログインウィンドウが表示されます。ユーザーIDとパスワードを入力してカメラにアクセスします。

1. <User name>入力ボックスに“admin”と入力します。<Password>入力欄に入力します。
2. [OK]をクリックします。
正常にログインすると、Live Viewerの画面が表示されます。

- カメラのWebビューアーにアクセスする場合は、画像データが暗号化されているか確認し、セキュリティに特にご注意ください。



- 入力完了時に、“Remember my credentials”オプションをチェックしておくと、次回からはログイン情報の入力を求められることなく自動的にログインします。
- 画面サイズが100%である場合、映像画質が最高の状態になります。倍率を小さくすると、境界線上の画像がカットされます。

ブラウザごとのプラグインサポート仕様

既存のプラグインWeb Viewerおよび新しいプラグインフリーのWeb Viewerは共に組み込まれています。これにより、Chrome、EDGE、FireFox (Windows 64ビットのみ) など、プラグインをサポートしていない新しいブラウザ環境でウェブビューアーを使用することができます。IEやSafariのようなプラグインのインストールを許可するブラウザでは、プラグインのインストールを推奨します。ブラウザ環境によっては、以下のような違いがある可能性があります。

- **Chrome、FireFox(Windows 64bit でのみサポート)、EDGEブラウザ**：これらはプラグインをサポートしていませんが、プラグインフリーWeb Viewerが組み込まれているため、Web Viewerを使用できます。
- **プラグインフリーのWebビューアーは、プラグインWebビューアーよりも性能が低く、高画質プロファイルのモニタリング及び保存映像の再生には限界があります。**
高画質プロファイルモニタリング及び保存映像を再生するには、プラグインWebビューアーやスマートビューアーを使用してください。
 - プラグインフリーウェブビューアーの生成条件：選択したプロファイルがMJPEGフルHD 10fps H.264を超えていること。（Chrome：フルスクリーン解像度サポート/Edge、Firefox、Safari：フルHD 30 fps以上）H.265フルHD 10fps 2Mbps以上
 - プラグインフリーの再生条件：MJPEG/H.264フルスクリーン解像度、H.265 HD以下
- プラグインフリー機能はChromeブラウザ用に最適化されています。
- アダプティブストリーミング対応
 - これは、5秒以上の遅延がある場合、プロファイルを自動的に下げる機能です。推奨するハードウェア仕様よりも低いシステムでビデオを再生する際、待ち時間が増加したり、ブラウザの反応がないなどの問題を防止するためのものです。
ビデオプロファイルは以下のシーケンスで低くなります：1920X1080(20fps) -> 1280X720(20fps) -> 640X480(20fps)。
- **IE、Safariブラウザ**：既存のプラグインWeb ViewerをインストールせずにWeb Viewerを使用できます。
- シームレスに保存した映像をモニター/再生するには、プラグインをインストールしなければなりません。

WebViewプラグインのインストール

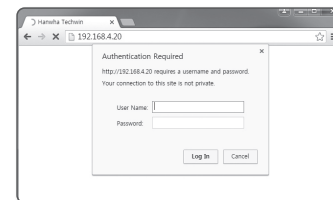
プラグインWeb Viewerにアクセスし、ライブ映像 (H.264/H.265) または録画映像を再生すると、インストールメッセージが立ち上がります。その際、Web Viewerプラグインをインストールしなければ正しく機能しくなります。

1. モニタページに初めてアクセスした場合は、インストールページが表示されます。[Plugin]をクリックするとインストールが開始されます。
- プラグイン・インストールファイルのダウンロードがInternet Explorerブラウザ上で99%で中断された場合は、“ツール ➡ スマートスクリーンフィルタ”で“スマートスクリーンフィルタを解除”を選択した後、再試行してください。
2. メッセージウィンドウの[Run]をクリックします。
3. 通知ウィンドウに、すべてのブラウザウィンドウを閉めますという表示が現れたら、[Yes]をクリックします。
- Webビューアプラグインがインストールされていない場合、手順4と5はスキップされます。
4. Webビューアプラグインの古いバージョンがインストールされている場合は、通知ウィンドウに古いバージョンが削除されますと表示されます。通知ウィンドウが表示されたら、[Yes]をクリックします。
5. [OK] をクリックします。
Webビューアプラグインの古いバージョンは削除されます。
6. Webビューアプラグインのインストールを開始するには [Install] をクリックします。
7. [Finish] をクリックします。
Webビューアプラグインのインストールは完了しました。
- お使いのInternet Explorerで、WebViewプラグインをインストールした後にインストール画面へ移動したい場合、“ツール ➡ 追加機能管理”メニューが“有効”になります。そうではない場合で、現存する問題がある場合、“ツール ➡ インターネットオプション ➡ 一般”を選択し、検索記録をすべて削除します。
問題が解決しない場合、カメラのIPまたはドメインを“ツール ➡ インターネットオプション ➡ セキュリティ ➡ 信頼済みサイト”で登録してください。

プラグインフリーのWEB VIEWERの使用

個別にプラグインをインストールすることはできないものの、Google Chrome、Mozilla Firefox、またはMS Edgeウェブブラウザからカメラにアクセスすると、プラグインをインストールせずにカメラビデオを視聴し、制御することができます。

1. ユーザー名とパスワードを入力し、ログインします。
2. ログインすると、カメラのライブビュー画面が表示されます。



カメラを設定するには

1. [設定 (⚙️)] アイコンをクリックします。
2. 設定画面が現れます。
3. ネットワーク経由で、カメラの基本情報、PTZ、ビデオとオーディオ、ネットワーク、イベント、分析、システム、オープンプラットフォームの設定を管理することができます。
4. <ヘルプ (📘)> をクリックして、それぞれの機能の詳細説明を表示します。

トラブルシューティング

問題	解決策
Windows 10ユーザーがChromeまたはFirefoxからウェブビューアにアクセスする場合、マイクロフォンの音声ボリュームは周期的に変わります。	これは、マイクロフォンのドライバをRealtekドライバに設定している場合に生じます。High Definition Audioデバイス (Windowsの標準ドライバ) またはサードパーティ製のドライバをマイクロフォン用のドライバとしてインストールします。
Safariを使用してHTTPS経由でプラグインフリーのWeb Viewerにアクセスすると、映像は表示されません。	- https初回接続時に表示されるウェブサイトの認証ポップアップで<証明書の表示>をクリックした後、<Webビューアの設定IPに接続する際、常に信頼する>の項目のチェックボックスを選択してください。 - 以下のメッセージウィンドウで「次へ」を選択した後にWeb Viewerでの表示に失敗する場合、commandキー + Qを押してSafariブラウザを終了し、再度アクセスして上述の手順に従います。
ウェブブラウザからカメラにアクセスできない。	- カメラのネットワーク設定が適切か確認します。 - ネットワークケーブルがすべてきちんと接続されているか確認します。 - DHCP を使用して接続した場合、カメラが問題なく動的 IP アドレスを取得できたか確認します。 - カメラがブロードバンドルーターに接続している場合、ポート転送がきちんと 設定されているか確認します。
閲覧中にビューアが遮断された。	- カメラまたはネットワーク設定に変更が生じた場合、接続済みビューアは遮断されます。 - ネットワーク接続をすべて確認します。 - カメラが PPPoE 上で接続している場合、ネットワーク環境の不具合が原因でビューアが遮断された可能性があります。
Device Managerプログラムでネットワークに接続されたカメラが検索できません。	使用中の PC のファイアウォールを無効にし、カメラを再検索してください。
画像がオーバーラップする。	複数のカメラが個々のアドレスではなく、単一のマルチキャスト アドレスに設定されているか確認します。複数のカメラが単一アドレスを使用すると、画像がオーバーラップする原因になります。
画像が表示されない。	送信方法がマルチキャストに設定されている場合、カメラが接続している LAN にマルチキャストに対応しているルータがあるか確認します。

問題	解決策
音声入力を設定している場合でも、音声は録音されません。	<基本> - <ビデオプロファイル>から<音声入力>チェックボックスを選択します。
<アナリティクス>の<モーション検知>は<イベント>に設定されていますが、分析イベントが発生したときであっても、通知用のEメールは到着しません。	- 設定を次の順序で確認します。 A. <日付 & 時間>設定をチェックします。 B. <モーション 検知>が<使用>に設定されていることを確認します。 C. <イベント設定>メニューの<E-mail>オプションが選択されて使用可能になっているかどうか確認してください。
Micro SDメモリカードに録画できません。	メモリカードに問題がないか確認してください。
Micro SDメモリカードを挿入しても、カメラが正しく動作しません。	- メモリカードが正しい方向で挿入されているかを確認してください。他のデバイスで初期化されたメモリカードの場合は、このカメラ装置で正常に動作しない可能性があります。 - メモリカードを<設定> → <イベント> → <ストレージ>メニューで再度初期化してください。
NASに記録できません。	NASに登録した情報が正しいことを確認します。
NAS設定が失敗したと報告が出ています。	- NASのIPアドレスが有効であること。 - NASのID/パスワードが有効であること。 - NASのIDを使う基本フォルダに指定したフォルダにアクセスできること。 - NAS SMB/CIFSの項目をチェックしていないこと。 - NAS IPアドレスとカメラIPアドレスが同じフォーマットであることを確認します。 例) NASとカメラのサブネットマスク値は255.255.255.0です。 IPアドレスが192.168.20.32である場合、NAS IPアドレスは192.168.20.1～192.168.20.255の範囲にある必要があります。 - 保存または使用する基本フォルダを初期化せずに、別のユーザーとして利用しようとしていたかを確認します。 - 推奨されているNAS装置を使用したかどうか確認します。

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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	
mtdev-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtdev-utils
mtdev-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	
zerocool	GPL 2.0	

LGPL SW

Component Name	License	URL
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- Version 1.1

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generated from the IJG code, this does not limit you more than the foregoing paragraphs do.

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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2. Any member of T-Engine Forum may request T-Engine Forum to register and distribute, as an original source code for T-Kernel, the Ported Source Code on the T-Engine Hardware or the Similar Hardware to T-Engine Hardware.
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 3. The member shall submit test results of the Ported Source Code to T-Engine Forum when requesting the distribution.
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iperf performance test

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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](#) (deflate format) and [rfc1952.txt](#) (gzip format).

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