

ネットワークカメラ

ユーザーマニュアル

PNM-9000VD
SLA-5M3700D/SLA-5M4600D/SLA-5M7000D

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. この製品は、“クラス2”または“LPS”と表示があり、PoE(48 V), 0.27 A. の記載電源ユニットにより電気供給が行われるものとします。(PNM-9000VD)
16. この製品は、“クラス2”または“LPS”と表示があり、5 Vdc、最小 0.25 A の記載電源ユニットにより電気供給が行われるものとします。(SLA-5M3700D/5M4600D/5M7000D)
17. PoE接続の外部電源は、絶縁電源を使用してください。
18. 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。
19. 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。
20. 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。
21. 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。
22. 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: 感電の危険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。

本製品のCVBS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。

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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概要

お奨めする PC 仕様

- CPU :Intel(R) Core(TM) i7 3.4 GH以降
- 対応OS : Windows 7, 8.1, 10, Mac OS X 10.12, 10.13, 10.14
- 推奨ブラウザ : Google Chrome
- サポートするウェブブラウザ : MS Explore11, MS Edge, Mozilla Firefox(Windows 64ビットのみ), Apple Safari(Mac OS Xビットのみ)

推奨マイクロSD/SDHC/SDXCメモリカード仕様

- 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を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
- UHS-3クラス(MLCタイプ)の仕様に適合する16GB以上のメモリーカードを使用することを推奨します。

キット内容 (PNM-9000VD)

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	
	テストモニターケーブル	1	ポータブルディスプレイデバイスとカメラとの接続をテストするために使用します
	テンプレート	1	製品設置ガイド
	星型レンチ	1	カバー上部を取り外す/固定するには
	タッピングネジ	4	壁または天井に取付けるために使用します
	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)

外観	品目名	数量	説明
	十字穴付きネジ	4	本製品をパイプ、壁面などに取り付ける場合または穴をふさぐときに、ドームケースを組み立てるために使用します。
	ケーブルブッシュ	2	直径7〜8.5mm規格LANケーブル接続時に使用
	キャップインストーラー	1	RJ45ケーブル接続時使用

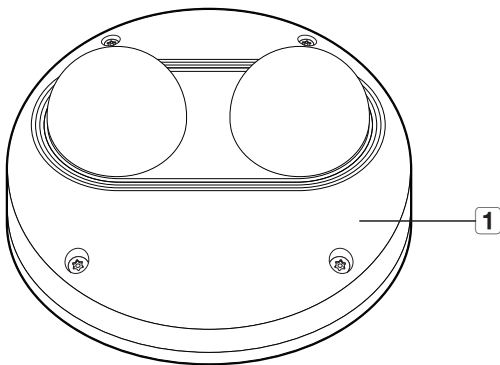
キット内容 (レンズモジュールオプション)

外観	品目名	数量	説明	モデル名
	レンズモジュール	1	PNM-9000VDに取り付けます。	SLA-5M3700D
		1		SLA-5M4600D
		1		SLA-5M7000D

概要

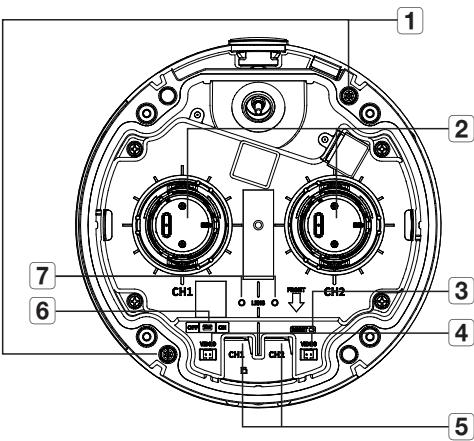
概観 (PNM-9000VD)

外観



項目	説明
1 カバートップ	カメラ本体を保護するハウジング部分。

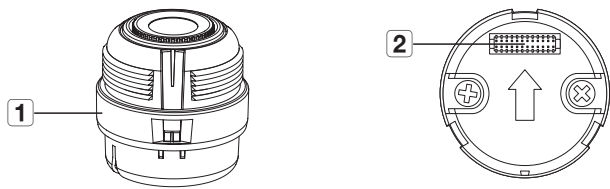
内側



項目	説明
1 カメラ固定穴	カメラ本体を取付けプレートに固定するためのねじです。
2 レンズモジュール取付け部	これはレンズモジュールに取り付ける端子です。
3 リセット・ボタン	すべてのカメラ設定を工場出荷時のデフォルトに復元します。 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 テストモニター出力	ビデオ出力のテスト監視用出力ポートです。テストモニターケーブルを使用して、モバイルディスプレイに接続し、テストビデオをチェックします。
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。
6 電源オン/オフスイッチ	製品の電源をオン/オフにするときに使用するスイッチ。 ■ レンズモジュールを取り替えるときのみ使用してください。
7 レンズモジュール表示ライト(正常:緑、異常:赤)	レンズモジュールが正しく取り付けられていると、緑色のLEDが点灯し、およそ40秒後にオフになります。(不要な反射を防ぐため)

概観 (レンズモジュール)

外観



項目	説明
1 レンズモジュール	ビデオを録画するレンズモジュールです。
2 カメラコネクター	カメラと接続する端子です。

取付けおよび接続

取付け

- 本カメラは防水であり、IP66仕様に準拠していますが、外部ケーブルに接続されるジャックはそうではありません。ケーブルが外部に突出するのを防止するために軒先の下に本製品をインストールすることをお勧めします。

取付けに関する注意事項

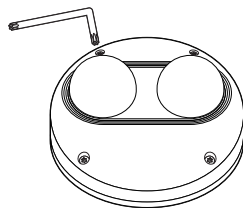
カメラを取り付ける前に、以下の指示をよく読んでください。

- カメラの重量の5倍以上の重さを固定できる取付け場所を選んでください。
- 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。
- 過剰な力で製品を取り付けると、故障によりカメラが損傷する場合があります。不適切なツールを使用して無理やり組み立てると、製品が損傷する場合があります。
- 電源がオンになっているときに、レンズモジュールを取り外さないでください。

取外し

付属の星型レンチを使用して、反時計回り方向に回して4つのねじを外してカバートップを取り外します。

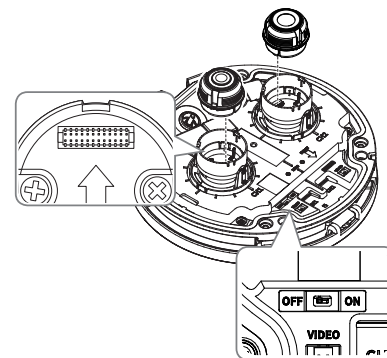
- ねじを完全に緩める必要はありません。



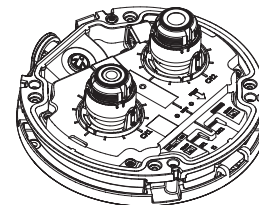
レンズモジュールの取付け

1. レンズモジュールのコネクターと、カメラ本体のコネクターを揃えて締めます。

- 製造検査時にフォーカスが調整された状態で工場から出荷されるため、別々にレンズに触れないようにすることをお勧めします。

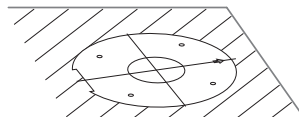


2. レンズ取付けプロセスが完了しました。

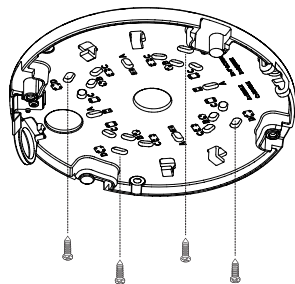


天井または壁への取付け

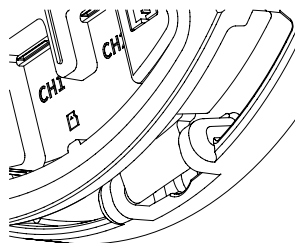
1. 付属のテンプレートを使用して取付け用の穴を開け(直径6mm、最小奥行き45mm)、付属のプラスチックアンカーを奥まで挿入します



2. カメラの取付け穴とプラスチックアンカーを挿入した場所の穴を揃えて、タッピンねじを締めます。

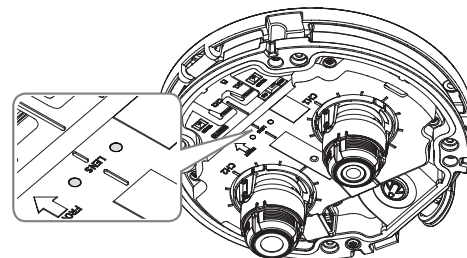


3. カメラ本体をマウントプレートにはめてください。
■ 図に示すようにヒンジに合わせてはめてください。

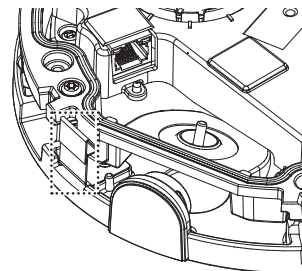


4. ケーブルをカメラに接続します。ケーブルを損傷しないように注意してください。ケーブルは整理してまとめてください。

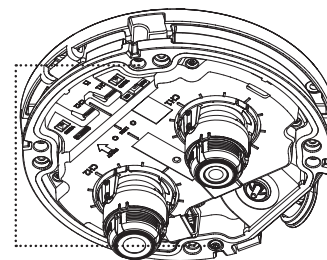
5. レンズモジュールが正しく取り付けられていないと、図に示すようにレンズモジュールステータスライトが赤色に点灯します。この場合は、電源スイッチをオフにして、レンズモジュールを取り付け直します。
正常に取り付けられていると、緑色に点灯して、およそ40秒後にオフになります。



6. 図に示すように、固定用ブラケットにカチッとはまるまで押し込みます。



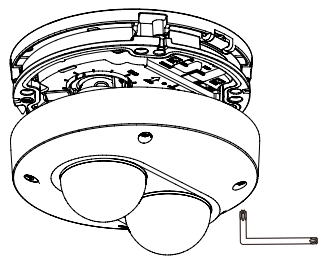
7. カメラ固定用ねじを使用してカメラ本体を取付けプレートに固定します。



取付けおよび接続

8. カバートップで覆い、星型レンチを使用して時計回りにねじを回し、カバーを固定します。

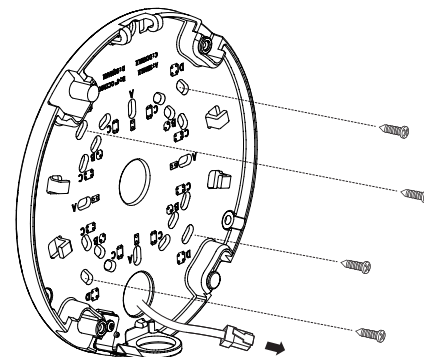
- カバーを固定するときにねじを完全に締めつけないと、防水性の問題が生じる場合があります。(IP66)



インストール場所によるLANケーブルのインストール方法

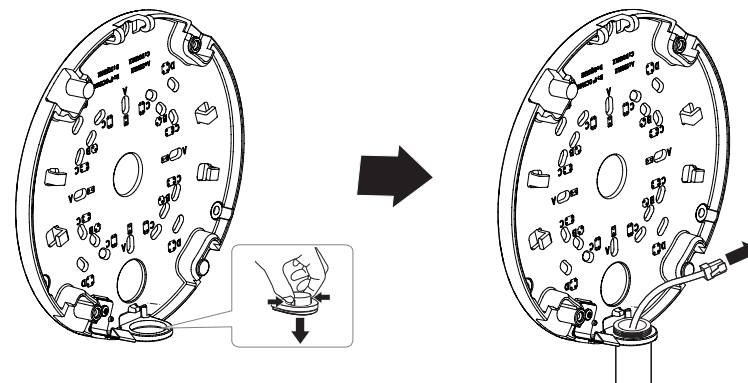
壁/天井に直接設置

1. 取付けプレートの孔からLANケーブルを引き出します。



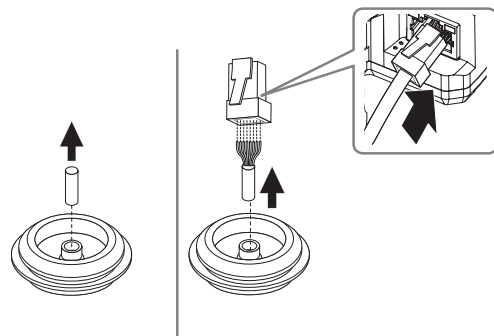
パイプを接続して設置

1. マウントプレートのパイプカバーを左右に押して分離してください。
2. パイプをマウントプレートに据え置きしてください。
3. 取付けプレートの孔から LAN ケーブルを引き出します。



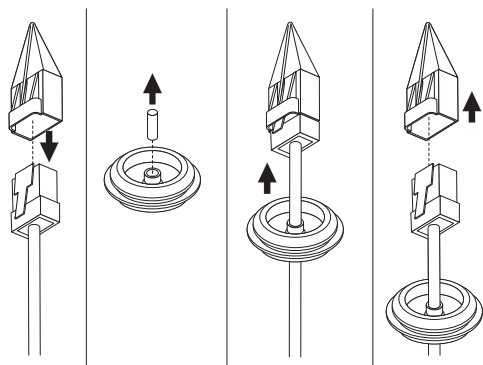
その1. LANケーブルの接続

1. 使用するブッシュの突出部をはがしてください。
2. LANケーブルをブッシュの大きいホールで通過させ、LANコネクタを接続させてください。



その2. LANケーブルの接続

1. 提供された 1 ホールブッシュの突出部をはがしてください。
キャップインストーラーを使用して RJ45 ケーブルを通過させてください。

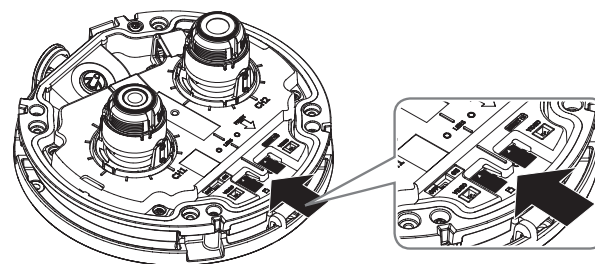


マイクロSDメモ리카ードの挿入/取出し

- !
- 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、内部結露が起るリスクがあります。

マイクロSDメモ리카ードの挿入

1. カメラのカバー上部を外します。
2. 図のように、MicroSDカードを矢印方向へ挿入します。



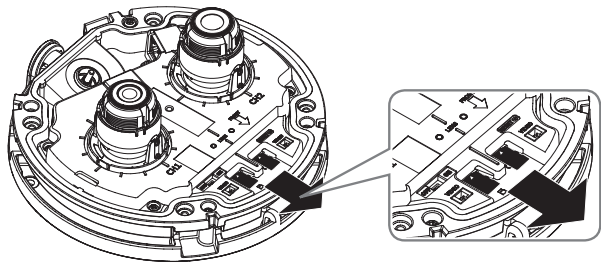
取付けおよび接続

マイクロ SDメモ리카ードの取出し

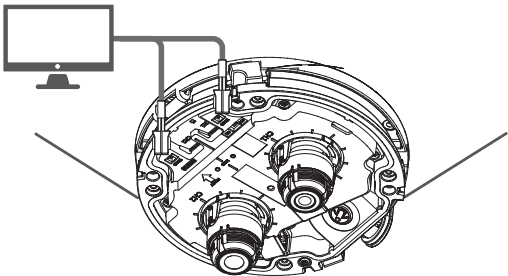
図に示されているように、メモ리카ードの露出部分を慎重に押して、スロットからメモ리카ードを取り出します。

- !

 - マイクロSDカードを取り出すときに、しっかりと押してから離すと、飛び出る場合がありますので注意してください。
 - Micro SD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CVBS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。

電源とネットワーク

カメラのPoE端子をPoEデバイスに接続します。

- !

 - 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。

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 (10/100ベース-T)	
イーサネット	10/100ベース-T	
ケーブル	UTP カテゴリ 5e	
最大距離	100M	直流抵抗 ≤ 0.0938 Ω/m
PoE サポート	IEEE 802.3af	

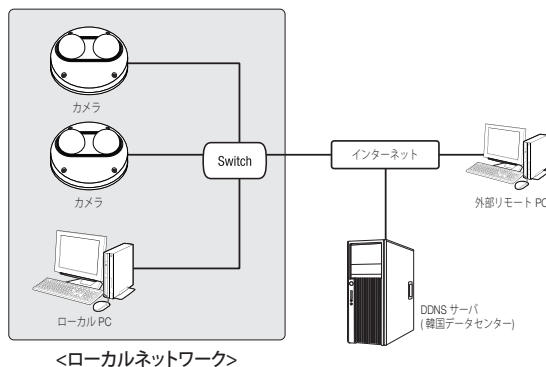
ネットワーク接続と設定

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

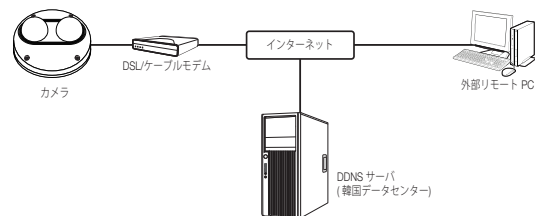
LAN のローカル PC からカメラに接続する

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。
- 工場出荷時の設定で、IP アドレスが DHCP サーバから自動的に割り当てられます。使用可能な DHCP サーバがない場合、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。(16 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。

ネットワーク接続と設定

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。

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<認証>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. 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。（18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://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。

ダイナミックIPを設定する

IPアドレスをDHCPで自動に割り当てられます。

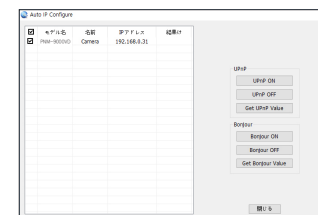
- 動的IP環境の例
 - カメラに接続しているブロードバンドルーターが、DHCPサーバーでIPアドレスを割り当てられている場合
 - DHCPプロトコルを使用して直接カメラをモデムに接続する場合
 - IPがLAN経由で内部DHCPサーバーに割り当てられている場合

1. 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>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。



自動にIPを設定する

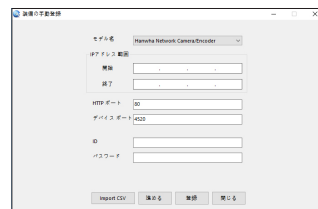
1. 検索リストでIPを自動に設定するカメラをクリックしてください。
2. Device Managerのトップで<+>をクリックしてください。
 - デバイス設定メニューが表示されます。
3. デバイス設定メニューで<Auto IP Configure (IP自動設定)>をクリックしてください。
4. [閉じる]ボタンをクリックしてください。



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、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。



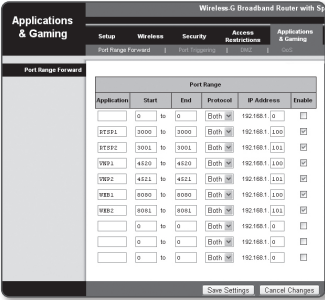
ネットワーク接続と設定

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

- 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。
- 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。
- 完了後、**[Save Settings]** をクリックします。
設定が保存されます。

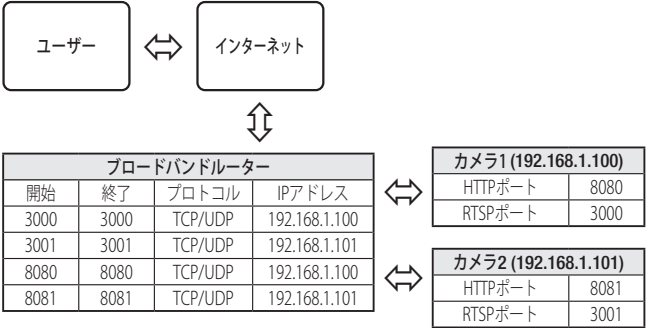


- ポートフォワーディング設定の説明は、CISCO IPのルーターで設定した例示です。
- 設定は、接続しているブロードバンドルーターのモデルによって異なる場合があります。
詳細は、該当するルーターのユーザーマニュアルを参照してください。

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:



- ルーターが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ー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

1. 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。
2. 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。

1. 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。
2. 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>

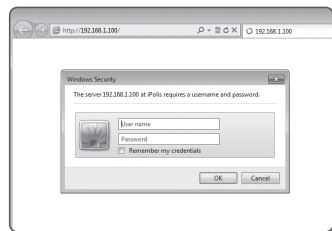


- DDNSを有効にするためには、DDNSのウェブサイト(<http://ddns.hanwha-security.com>)で会員登録をした後、**[My DDNS]>[製品登録]**で先に製品を登録する必要があります。

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、クライアントまた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また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。

DDNSアドレスを確認するには

カメラを直接DHCPベースのケーブルモデムまたはDSLモデムに接続すると、ISP(ユーザーが契約する会社)に接続を試行する度に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。

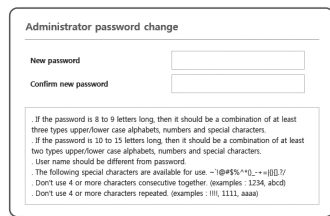
動的なIPベースのデバイスをDDNSサーバーに登録すると、そのデバイスにアクセスするときに、変更されたIPを簡単に確認することができます。

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。
“パスワード変更”ウィンドウが表示されましたら、新しいパスワードを入力します。

- 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：~!@#%&^*()_+=|[]?/
- 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。
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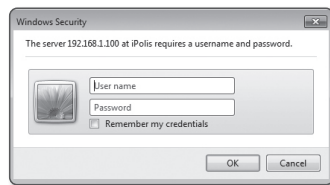


ログイン

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。
 管理者ID**“admin”**は、確定されており変更できません。
2. <Password>入力欄に入力します。
3. **[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。

カメラ・ウェブビューアーの設定

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. カメラの基本情報、ビデオ、オーディオ、ネットワーク、イベント、分析、ネットワーク全体のシステムの設定を構成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
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を確認します。 - 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。
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。 - レンズモジュールが正しく動作しているかどうかを確認します。

問題	解決策
<イベント>の<MD/VA>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.<MD/VA>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。
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Base Kernel	GPL 2.0	
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	
mttd-1.5.2	GPL 2.0	ftp://ftp.infradead.org/pub/mtd-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	
zeroconf	GPL 2.0	

LGPL SW

Component Name	License	URL
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neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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- Version 1.1

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revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

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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](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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