

ネットワークカメラ

ユーザーマニュアル

XNZ-L6320

ネットワークカメラ ユーザーマニュアル

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❖ 設計および仕様は予告なく変更する場合があります。

❖ 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。
パスワードの不正管理によって発生したセキュリティおよびその他の問題は、ユーザー側の責任であることに御注意ください。

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『2等級』または『LPS』が表示されていて、定格12 Vdc、0.45 A / PoE(48 Vdc)、0.15A の電源装置に電源を供給するように設計されています。
16. 本製品接続の外部電源は、絶縁電源を使用してください。
17. 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。
18. 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。
19. 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。
20. 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。
21. 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) は直射日光の当たる場所や、熱器具の近くには置かないでください。

バッテリーは交換できません。

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

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。

概要	3	重要な安全ガイド
	6	お奨めする PC 仕様
	6	推奨マイクロSD/SDHC/SDXCメモリカード仕様
	6	NAS推奨仕様
	7	キット内容
	8	概観

取付けおよび接続	10	マイクロSDメモリカードの挿入/取出し
	10	他のデバイスとの接続

ネットワーク接続と設定	14	カメラを直接ローカルネットワークに接続する
	14	カメラを直接DHCPベースのDSL/ケーブルモデムに接続する
	15	Device Managerを使用する
	15	自動にカメラを検索する
	15	IPアドレスを設定する
	16	手動でカメラを登録する
	16	自動にIPを設定する
	17	ポートフォワード (ポートマッピング) の設定
	18	共有ローカルPCからカメラへの接続
	18	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

WEB VIEWER	19	カメラへの接続
	20	パスワード設定
	20	ログイン
	20	カメラ・ウェブビューアーの設定

付録	21	トラブルシューティング
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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 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12
- 推奨ブラウザ : Google Chrome
- 対応ブラウザ : MS Explore11, 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)

※ 検証されたOSおよびブラウザー詳細バージョン情報は、付録をご参考ください。

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)
- 推奨製造会社 : SanDisk, Transcend
- 製品群 : High endurance
- カードの製造会社別/タイプ別の互換性は異なる場合があります。

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。

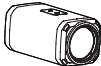
推奨製品	入手可能なサイズ
QNAP NAS	最大16台のカメラが同時にアクセスできます。
Synology NAS	最大16台のカメラが同時にアクセスできます。



- 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。

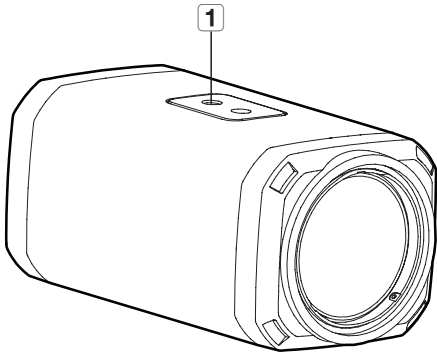
キット内容

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	
	テストモニタ用ケーブル	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
	6ポジションターミナルブロック	1	アラーム入力/出力ターミナルに使用します

概観

前面

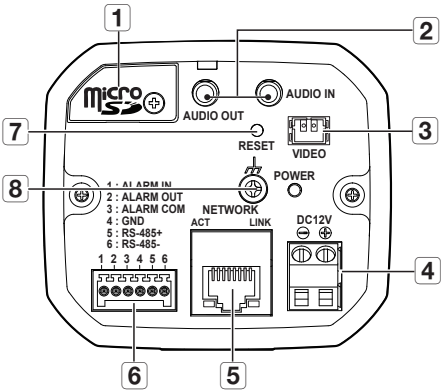


項目	説明
1 取付ブラケットのネジ穴	取付金具にカメラを固定するために使用。 ■ ネジサイズ: サポートにカメラを固定するために使用するネジの仕様です。 1/4" - 20 UNC L: 4.5mm±0.2mm (ISO標準)、または0.197" (ASA標準)



- 取付ブラケットは含まれていません。
取付ブラケットの使用方法については、製品マニュアルを参照してください。

背面



項目	説明	
1 マイクロSDメモ리카ード	マイクロSDメモ리카ードを挿入します。	
2 音声端子	AUDIO OUT	スピーカーの接続に使用します。
	AUDIO IN	マイクの接続に使用します。
3 テストモニター出力	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映像を出力します。	
4 電源ポート	電源ケーブルを差し込みます。	
5 ネットワーク・ポート	ネットワーク接続用のPoEまたはイーサネットケーブルの接続に使用します。	

項目	説明	
6 アラーム入出力ポート	ALARM IN	アラーム入力センサーや外部デイ/ナイトセンサーを接続するために使用します。
	ALARM OUT	アラーム出力信号の接続に使用します。
	ALARM COM	アラーム出力信号を接続させるための共通ポートです。
	GND	接地に使用します。
	RS-485+/RS-485-	RS-485 Dataライン
7 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。	
8 雷保護接地ポート	カメラの保護を目的として雷電流を安全に外部に放電するために使用されます。	

-  ■ RS-485ポートは、パンニング/チルトドライバとの直接接続のみサポートしており、RS-485コントローラの外部接続はサポートされていません。

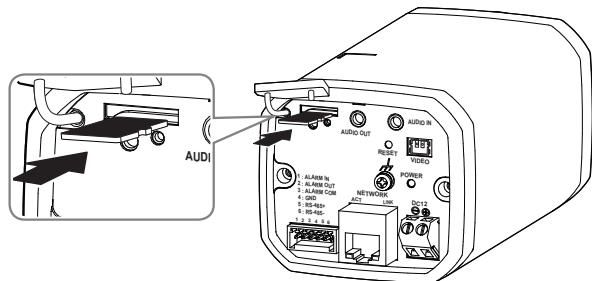
取付けおよび接続

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。
- 逆方向で無理に挿入しないでください。Micro SDメモ리카ードと製品が破損するおそれがあります。
- 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。

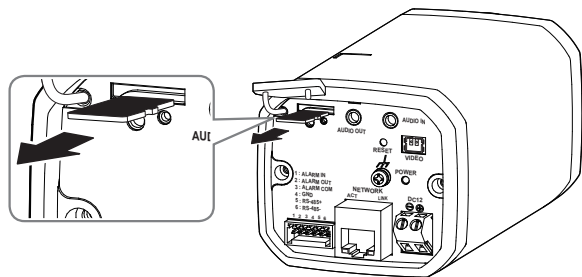
マイクロSDメモ리카ードの挿入

図のように、MicroSDカードを矢印方向へ挿入します。



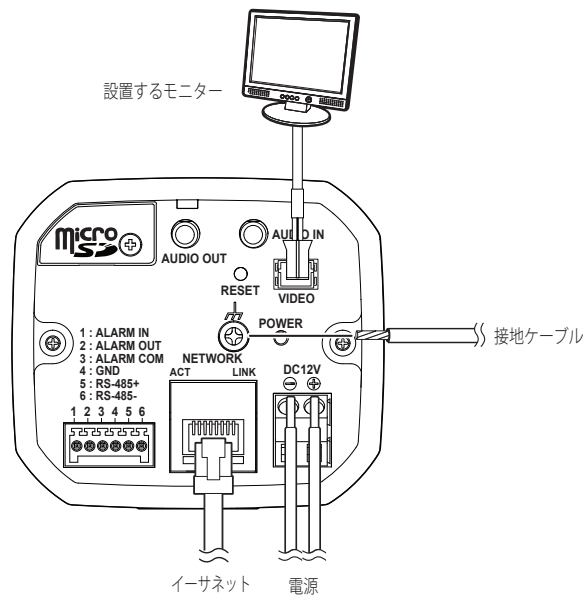
マイクロSDメモ리카ードの取出し

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メモ리카ードを強く押しすぎると、手を放したときに、カードがスロットから勢いよく飛び出す可能性があります。
- Micro SDメモ리카ードを除去する前に<設定(⚙)>メニューの<イベント>-<保存>からデバイスを<未使用>に設定して[適用]ボタンを押してからカメラ電源を消してください。
- 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。

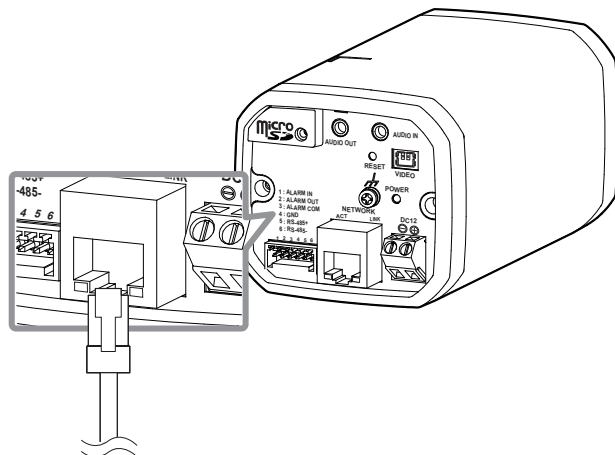
他のデバイスとの接続



- 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。

イーサネット接続

イーサネットケーブルをローカルネットワークもしくはインターネットに接続します。



電源ケーブル仕様

直流12V入力の場合:

ワイヤータイプ (AWG)	#22	#20
ケーブルの長さ (最長)	18m	28m

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	10/100BASE-T	
ケーブル	カテゴリ 5e	
最大距離	100m	DC抵抗 ≤ 0.125 Ω/m
PoE サポート	IEEE 802.3af	

- ☑ ■ カテゴリ5e標準以外のケーブルを使用する場合、100mの伝送距離は保証されません。

製品の接地

アース線を、ドライバーを利用して、電源入力端子の上部にあるアース端子に接続してください。

- ! ■ 接地によって、電圧変化や雷から製品を保護します。
■ 接地する場合は、必ず製品の電源を切ってください。

推奨の接地ケーブル

- 長さ: 3M未満
- ゲージ: 18 AWG以上
例) UL1007 AWG 18/16、UL1015 AWG18/16/14/12、UL2468 AWG18/16/14

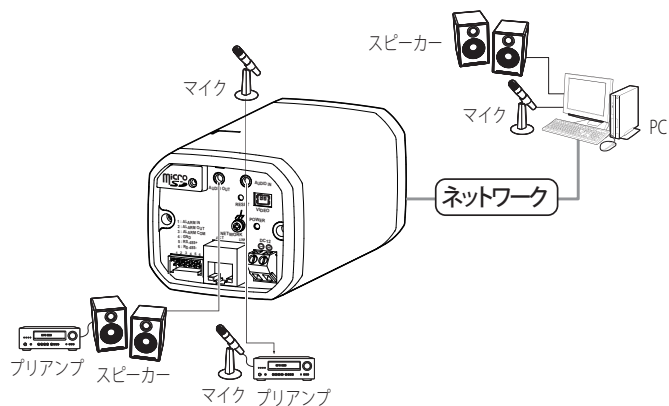
電源

ドライバーを使用して、電源ケーブルの各線 (+, -) をカメラの対応する電源ポートに接続します。

- ! ■ PoE、DC 12V電源を同時投入すると、デバイス電源はPoE、DC 12Vに同時動作します。
- また、PoE HUBを使用して、カメラに電源を供給することもできます。
 - IEEE802.3afプロトコルに準拠したPoEを使用してください。
 - デバイス電源はPoE、DC 12Vの中でシングル電源使用を推奨します。
- DC12Vの接続時に、極性を逆にならないようご注意ください。
- 外部デバイスを接続する場合は、作業を進める前に外部デバイスの電源を切る必要があります。

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ポートにマイクか、マイクが接続されているアンプのLINE OUTポートを接続します。
2. カメラのAUDIO OUTポートにスピーカーか、スピーカーが接続されているアンプのLINE INポートを接続します。
3. 音声入力の仕様を確認します。

• 音声コーデック

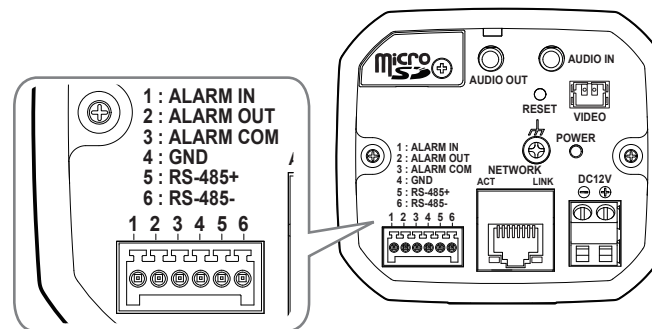
- 音声入力: G.711PCM (ビットレート: 64kbps / サンプリング周波数: 8kHz)、G.726ADPCM (ビットレート: 16Kbps、24Kbps、32Kbps、40Kbps / サンプリング周波数: 8kHz)、AAC (Bit Rate: 48Kbps / Sampling Frequency: 16kHz)
- 音声出力: G.711PCM (ビットレート: 64kbps / サンプリング周波数: 8kHz)

• 全二重音声

- 音声入力: モノラル信号のライン入力 (最大 2.4 Vpp)
- 音声出力: モノラル信号のライン出力 (最大 2.4 Vpp)
- インピーダンスライン出力: 600Ω

I/Oポートボックスへの接続

アラーム入出力信号を、背面の対応するポートボックスに接続します。



- ALARM IN: アラーム入力センサーや外部デイ/ナイトセンサーを接続するために使用します。
- ALARM OUT: アラーム出力信号の接続に使用します。
- ALARM COM: アラーム出力信号を接続させるための共通ポートです。
- GND: 接地に使用します。
- RS-485+: RS-485レシーバ (+) 用の通信ポートです。
- RS-485-: RS-485レシーバ (-) 用の通信ポートです。

外部RS-485デバイスの接続

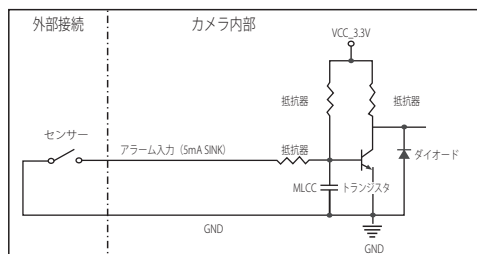
[RS-485 +, -]ポートを使用して、カメラと外部デバイスを接続します。
RS-485通信により、カメラのパン/チルト操作を制御することができます。

- RS-485通信には、GND接続をお勧めします。通信障害が発生した場合、必要に応じてGNDピンを接続し、カメラと外部デバイス間のGNDレベルを修正します。

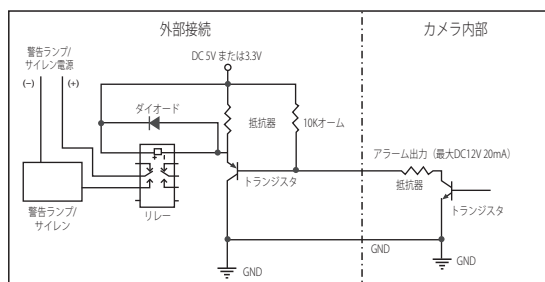
外部センサーの接続

センサーの各信号ライン(2つより)の一方を[ALARM IN]ポートに接続し、もう一方を[GND]ポートに接続します。

アラーム入力配線図



アラーム出力配線図



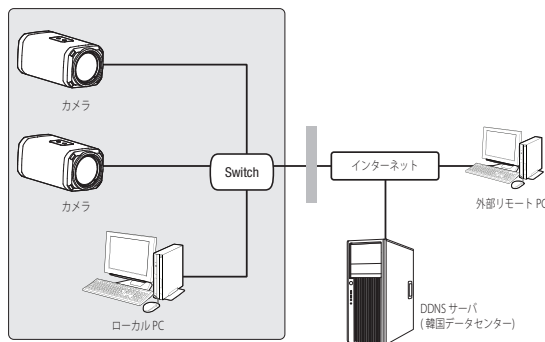
ネットワーク接続と設定

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

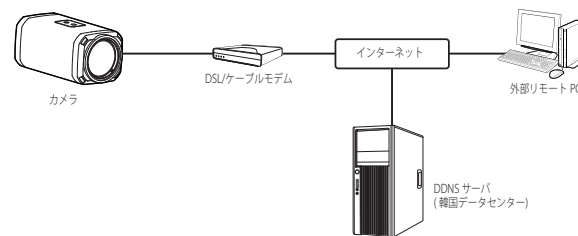
1. ローカル PC でインターネットブラウザを起動します。
2. ブラウザのアドレスバーにカメラの IP アドレスを入力します。



<ローカルネットワーク>

- 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。(15 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。

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> 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。(17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

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。

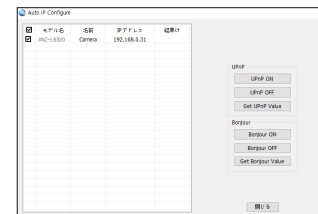
- 動的IP環境の例
 - カメラに接続しているブロードバンドルーターが、DHCPサーバーでIPアドレスを割り当てられている場合
 - DHCPプロトコルを使用して直接カメラをモデムに接続する場合
 - IPがLAN経由で内部DHCPサーバーに割り当てられている場合

- 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。
- Device Managerのトップで<IP割り当て>をクリックしてください。
- <IPアドレス自動割当(DHCP)>を選択してください。
- [適用]ボタンをクリックしてください。
- 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

- 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。
- 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。
- 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。
- [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。

- 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。
- 検索するIPアドレス範囲を入力してください。
- 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。
- [登録]ボタンをクリックしてください。
- 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。

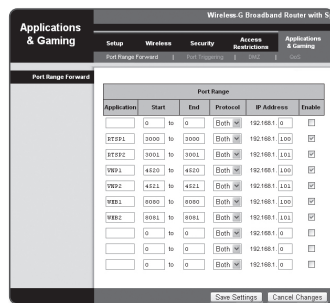


ートフォワード (ポートマッピング)の設定

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。

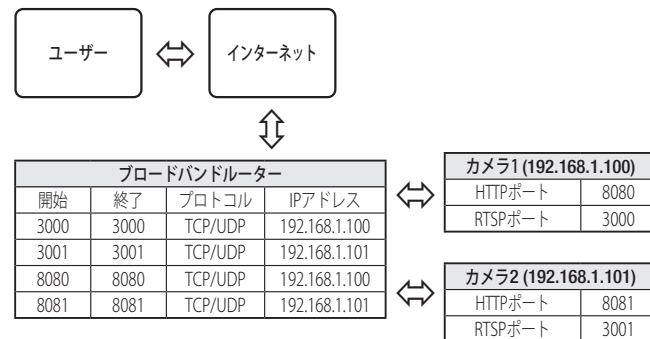


- ポートフォワーディング設定の説明は、CISCO IPのルーターで設定した例示です。
- 設定は、接続しているブロードバンドルーターのモデルによって異なる場合があります。詳細は、該当するルーターのユーザーマニュアルを参照してください。

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。

ネットワーク接続と設定

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>

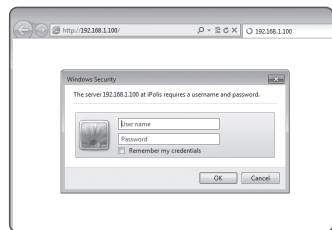


- DDNSを有効にするためには、DDNSのウェブサイト(<http://ddns.hanwha-security.com>)で会員登録をした後、**[My DDNS]>[製品登録]**で先に製品を登録する必要があります。

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。

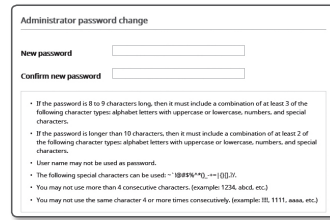
動的なIPベースのデバイスをDDNSサーバーに登録すると、そのデバイスにアクセスするときに、変更されたIPを簡単に確認することができます。

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。

- 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。
- 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。

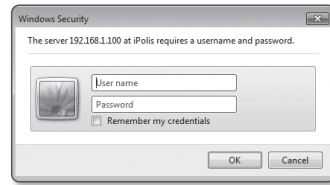


ログイン

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。
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が確認し、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
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。
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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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on January 23, 2004
revised on June 17, 2004
revised on December 21, 2006
revised on March 24, 2009

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Julian Seward, jseward@bzip.org

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lperf performance test

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Jean-loup Gailly Mark Adler

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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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