

ネットワークカメラ

ユーザーマニュアル

PNM-9030V

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. 柔らかく乾いた布が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本の足が付いています。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、定格12 Vdc、1.57 A または PoE、0.5 A の記載電源ユニットにより給電されるものとします。
16. 製品取り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。
17. 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。
18. 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。
19. 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。
20. 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。



21. 被写体距離以外では、映像に歪みが発生することがあります。
22. 1~5chマルチチャンネルに接続する場合には15fps基準、設定されたfpsより1~2 fps dropになることがあります。
23. Encodingする時に±1fpsのリアルタイムfps変化が発生することがあります。

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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推奨するPC仕様

- CPU :Intel(R) Core(TM) i7 3.4 GH以降
 - 対応OS : MS Windows, Mac OS X
 - サポートするウェブブラウザ : Google Chrome, MS Edge, Mozilla Firefox (Windows 64ビットのみ), Apple Safari (Mac OS Xでのみサポート)
- 検証されたOSおよびブラウザ詳細バージョン情報は、付録をご参考ください。
対応ブラウザで一部の機能は制限があります。

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以上2TB以下を推奨します。
- 同時接続: NAS一台当たり、16台のカメラ接続が可能です。
- 本カメラは、下記のメーカーのNAS使用を推奨します。

推奨製品	入手可能なサイズ
QNAP/SYNLOGY	最大16台のカメラが接続可能

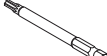


■ NAS装置を映像保存以外の用途で使用する場合、接続可能なカメラの最大台数は減少する場合があります。

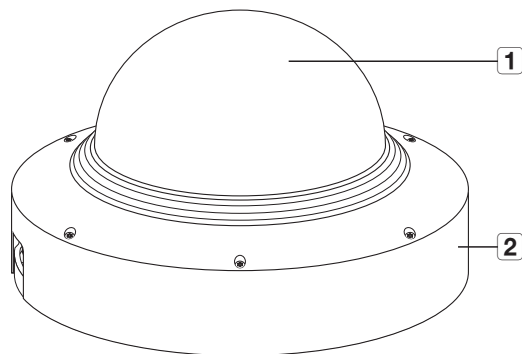
キット内容

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	
	保証書 (オプション)	1	
	電源端子ブロック	1	電源プラグに差し込む
	テンプレート	1	製品設置ガイド
	電源ケーブル	1	電源端子に接続時に使用
	オーディオ/アラームケーブル	1	オーディオ及びアラーム接続時に使用
	ケーブルブッシュ	1	直径7~8.5mm規格LANケーブル接続時に使用
		1	直径5~6.5mm規格LANケーブル接続時に使用
	L型レンチ	1	ドームカバー取外し、取付時に使用

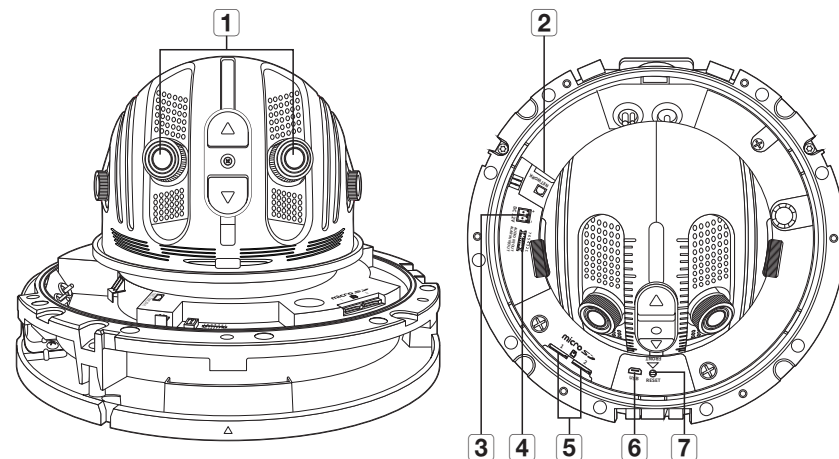
外観	品目名	数量	説明
	タッピングネジ	4	天井、壁面等の設置に使用
	プラスチックアンカー	4	設置場所ねじ締結用、穴に挿入 (設置強度 補強用)
	十字穴付きネジ	4	PIPE,WALL MOUNT等に設置時、ケースの天井取付用、 穴をふさぐ時に使用
	キャップインストロー	1	RJ45ケーブル接続時使用
	カード型吸湿剤	1	設置時に付着
	ドリルビット	1	ドームカバーの取外し、組立て、カメラの取付けに使用

外観



項目	説明
1 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。
2 カメラケース	カメラ本体を保護するハウジング部分。

部品



項目	説明
1 レンズ	カメラレンズ4枚でパノラマイメージを生成します。
2 ネットワーク接続端子	RJ-45ケーブルでPoE+やLANに接続するポートです。
3 電源接続端子	電源ターミナルブロックと接続する端子です。
4 オーディオ及びアラームケーブル接続端子	オーディオ及びアラームケーブルを接続し外部アラーム 機器/マイク/スピーカと接続する端子です。
5 マイクロSDカードの挿入口	マイクロSDカードを挿入する端子です。
6 MICRO USBポート	WiFiドングルに接続するポート 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。 16ページの「WiFiドングルへの接続」を参照します。 ■ WiFiドングルとOTGアダプタは別売りです。
7 リセット・ボタン	カメラの設定を工場出荷時に初期化するボタンです。約5秒間押すと再起動します。 ■ カメラをリセットするとネットワーク設定はDHCPを使用するように変更されます。ネットワーク内にDHCPサーバがない場合は、IPインストールプログラムを利用して基本的なネットワーク設定 (IPアドレス、サブネットマスク、ゲートウェイ等) を設定すると再び接続が可能です。

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。

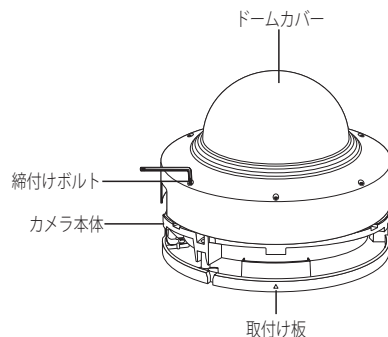
取付けに関する注意事項

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。

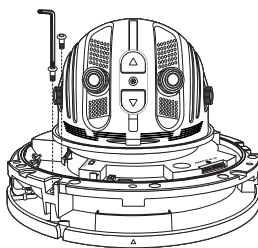
- カメラの重量の5倍以上の重さを固定できる取付け場所を選んでください。
- 引っかかっていたり、はがれたケーブルは製品の損傷または火災の原因となります。
- 安全のため、設置場所に人を近づけないでください。
また、万が一のため持ち物は取付け場所には置かないでください。
- 過剰な力で製品を取り付けると、故障によりカメラが損傷する場合があります。不適切なツールを使用し無理やり組み立てると、製品が損傷する場合があります。

取外し

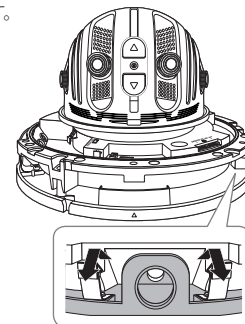
1. ドームカバーの締付けボルトを緩めてドームカバーを取り外します。アレンキーか付属のドリルビットを使用して反時計回りに回せば完了です。



2. カメラ本体の締付けボルトを緩めます。

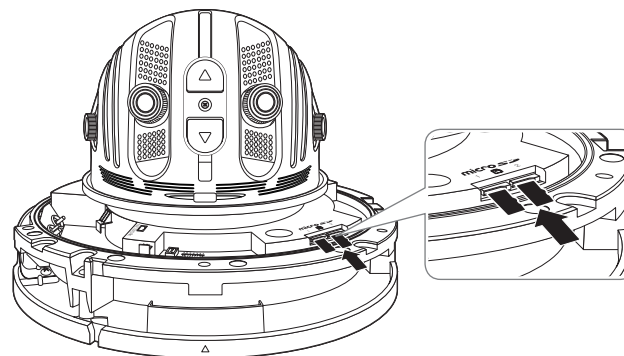


3. 図に示すように、板ばねを引っ張ってカメラ本体と取付け板を取り外します。



マイクロSDメモ리카ードの挿入

1. カメラのドームカバーを分離させてください。
2. 図のように、MicroSDカードを矢印方向へ挿入します。

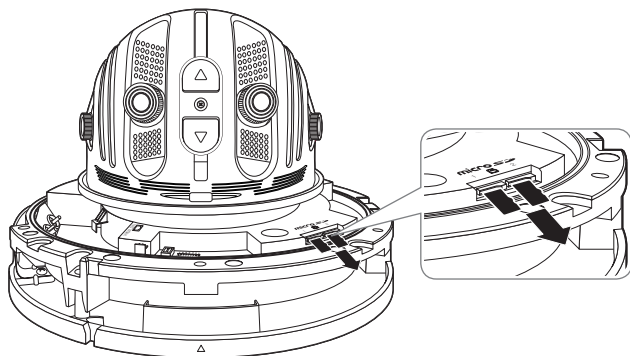


- マイクロSDメモ리카ードを挿入する前に、カメラの電源ケーブルを抜いてください。
- 逆方向で無理に挿入しないでください。Micro SDメモ리카ードと製品が破損するおそれがあります。
- 雨あるいは高湿度の状態でMicroSDカードを挿入したり取り出したりすることは推奨されません。
- 取り外した製品カバーは5分以内に戻す必要があります。そうしなかった場合、内部結露が起こるリスクがあります。
- Micro SDメモ리카ードを搭載/除去するときには、部品流失&落下事故を防止するために必ず製品本体を平地においてから作業してください。

取付けおよび接続

マイクロ SDメモ리카ードの取出し

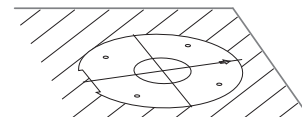
図に示されているように、メモ리카ードの露出部分を慎重に押して、スロットからメモ리카ードを取り出します。



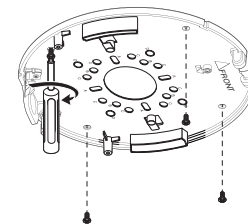
- チャンネル別にSDカードを保存してください。
- マイクロSDカードを取り出すときに、しっかりと押してから離すと、飛び出る場合があるので注意してください。
- Micro SDメモリーカードを取り外す前に、＜ストレージ＞でデバイスを＜Off＞に設定し、[適用] ボタンを押してカメラをオフにします。
- カメラのスイッチを切るか、データの入っているマイクロSDメモリーカードを製品から抜くと、データが失われるか、または損傷を受ける場合があります。

天井または壁への取付け

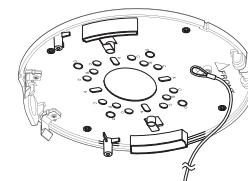
1. 付属のテンプレートを使用して取付け用の穴を開け(直径6mm、最小奥行き45mm)、付属のプラスチックアンカーを奥まで挿入します。



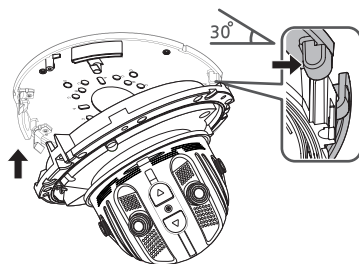
2. プラスチックアンカーが挿入された穴にマウントプレートの設置用の穴に合わせた後、タッピングねじを締結してください。



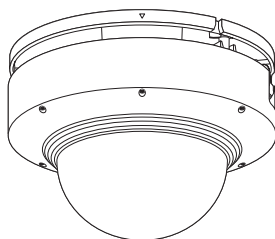
3. 安全ケーブルを接続してください。



4. 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。
5. カメラ内部の端子と必要なケーブルを接続してください。
6. スプリングピンを押し込んでください。
7. 「カメラのモニタリング方向を調整する」を参照して任意の方向にレンズを調整します。(15ページ)
 - レンズを傾ける場合は画面が遮られる場合があるため、レンズを調整する必要があります。



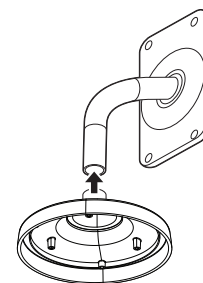
8. ドームカバーを組み付けます。
 - ドームカバーを組み付ける際は矢印を合わせます。
 - 防水性が損なわれないよう、アレンキーまたはドリルビットを使用して締め付けねじをしっかりと締め付けます。
 - ドームカバーの内/外側に付着された保護ビニルを外してください。



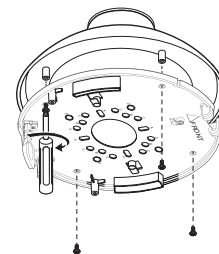
別売りのアダプタへの取付け

次のオプション(別売り)のうち必要なものを、設置場所に合わせてまたは必要に応じて選択および購入してください。

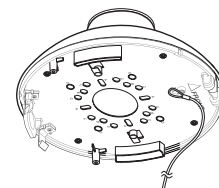
1. 壁型マウントアダプターにハンギングマウントを設置してください。
 - 壁型マウントアダプターとハンギングマウントは別売品です。



2. 取付け板とハンギングマウントをつなぎます。



3. 安全ケーブルを接続してください。



取付けおよび接続

4. カメラ本体をマウントプレートにはめてください。

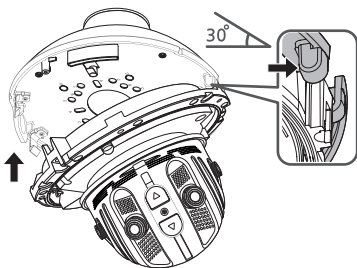
■ 図に示すようにヒンジに合わせてはめてください。

5. カメラ内部の端子と必要なケーブルを接続してください。

6. スプリングピンを押し込んでください。

7. 「カメラのモニタリング方向を調整する」を参照して任意の方向にレンズを調整します。(15ページ)

■ レンズを傾ける場合は画面が遮られる場合があるため、レンズを調整する必要があります。

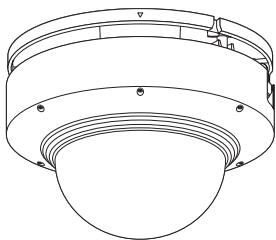


8. ドームカバーを組み付けます。

■ ドームカバーを組み付ける際は矢印を合わせます。

■ 防水性が損なわれないよう、アレンキーまたはドリルビットを使用して締め付けねじをしっかりと締め付けます。

■ ドームカバーの内/外側に付着された保護ビニルを外してください。



その1. 防水用の電源ケーブル&LANケーブル接続

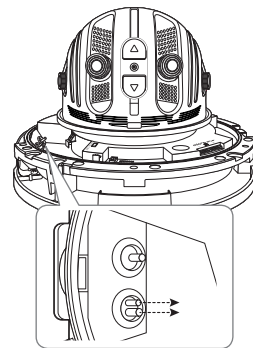
1. ドームカバー及びケースを取り外してください。

2. 図のように、底面にあるケーブルブッシュの長く突出した部分を引きちぎります。



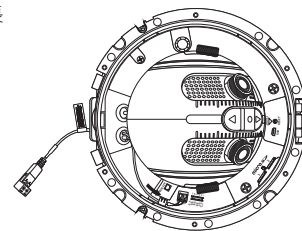
■ LANケーブルと接続するのに適切なケーブルブッシュを使用してください。

- 基本のカメラ: 直径5.0~6.5mmのケーブルを使用してください。
- 同梱のコンポーネント: 直径7.0~8.5mmのケーブルを使用してください。



3. 2番にて引きちぎって出来た小さい穴に電源ケーブルを通し、長い溝に沿って電源ケーブルを通してください。

4. 電源ケーブルを電源ターミナルブロックと接続してください。

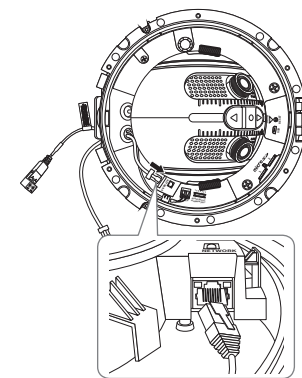


5. 2番にて引きちぎって出来た大きい穴にLANケーブルを通し、長い溝に沿って電源ケーブルを通してください。

6. ケーブルカッターを利用して、被覆をはがしたケーブルを整列させてください。

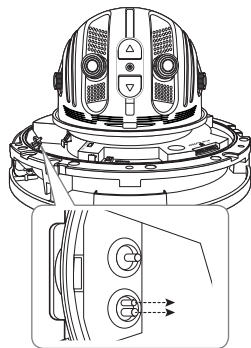
7. LANケーブルをLANコネクタで接続し、LANツールに挿入してください。

8. 完成したケーブルをイーサネット端子と接続してください。

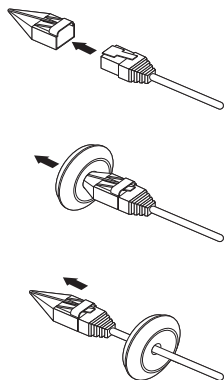


その2. 防水用の電源ケーブル&LANケーブル接続

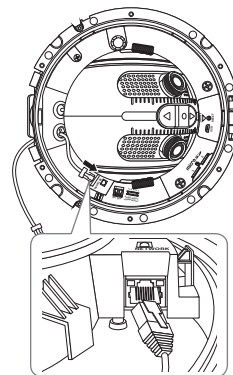
1. ドーム型カバー及びケースを取り外してください。
2. 底部のラバープラグの長く突き出た部分を引き、図に表示されているように取り外してください。
3. 穴の上のゴム製カバーを引っ張り、取り外します。



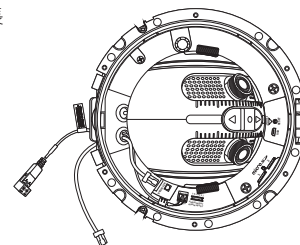
4. キャップインストーラーを使用して、RJ45ケーブルが通り抜けられるようにします。



5. 再度ゴム製ストッパを挿入し、LANケーブルをイーサネット端子に接続します。



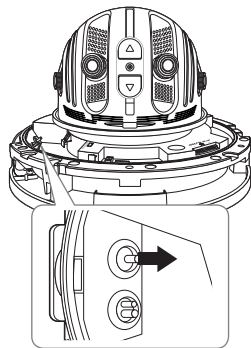
6. 2番にて引きちぎって出来た小さい穴に電源ケーブルを通し、長い溝に沿って電源ケーブルを通してください。
7. 電源ケーブルを電源ターミナルブロックと接続してください。



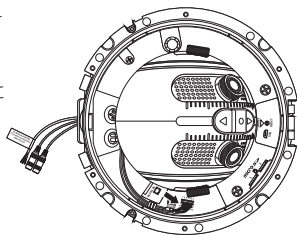
取付けおよび接続

オーディオ/アラームケーブルの接続

1. ドームカバー及びケースを取り外してください。
2. 図のように、底面にあるケーブルブッシュを引っ張り外してください。



3. 2番にてケーブルブッシュを外して出来た穴にオーディオ/アラームケーブルを入れてPCBのアラームターミナルに接続してください。
4. カメラ設置時にケーブルに損傷を生じたり、挟んだりしないようにケーブルを配置してください。
5. オーディオ/アラームケーブルにあるケーブルブッシュを穴に嵌めます。
6. “カメラの監視方向の調整”の項を参考にして、レンズを目的の方向に調整します。（15ページ）
7. ドームカバーを取り付けてください。



別売りマウントアダプターの取付け

設置の利便性及び設置場所に応じて別売りのマウントアダプターを購入されると便利です。

1. “取外し”の項を参考にして、ドームカバーとケースを分離します。（9ページ）
2. カメラケースを付属のネジを利用して、別売りのマウントアダプタに固定します。
3. ケーブルを接続し、カメラ設置時にケーブルに損傷や挟み込みが無いように配線します。
4. カメラ本体を“取外し”の逆の順序にて組立てます。
5. “カメラの監視方向の調整”の項を参考にして、レンズを目的の方向に調整します。（15ページ）
6. ドームカバーを閉じてください。
 - 防水性が損なわれないよう、アレンキーまたはドリルビットを使用して締付けねじをしっかりと締め付けます。

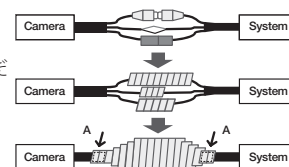
屋外設置

建物外部に設置時、外部にて接続するケーブルの隙間に水漏れの心配がありますので、次のように市販されている防水ブチルゴムテープにて防水処理をしてください。

1. 電源、I/O、およびLANケーブルを接続します。
2. 黒いケーブルジャケット（A部）を含むケーブル接続部までブチルゴムテープの半分以上が重なるように防水テープを巻いてください。



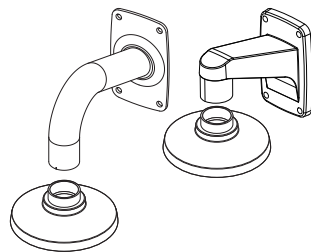
- 接続したケーブルジャケット部分の防水処理が不十分な場合、直接的な水漏れ原因になるため特にしっかりとテーピングをしてください。
- 防水用ブチルゴムテープは本来の長さの2倍以上伸びるブチルゴム素材です。



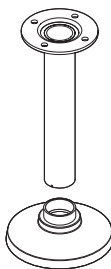
設置のためのオプション付属品

設置の利便性及び設置場所に応じて別売りのマウントアダプターを購入されると便利です。

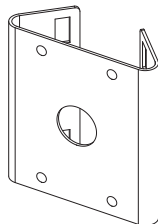
1. WALL MOUNT ADAPTOR (SBP-300WMまたはSBP-300WM1) / HANGING MOUNT(SBP-276HM)
ドームカメラを壁に設置する場合に使用するマウントアダプタです。



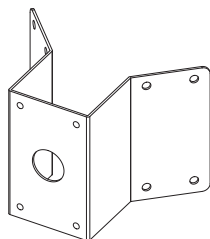
2. CEILING MOUNT ADAPTOR (SBP-300CM) / HANGING MOUNT(SBP-276HM)
コンクリート天井にドームカメラを設置する場合に使用するマウントアダプタです。



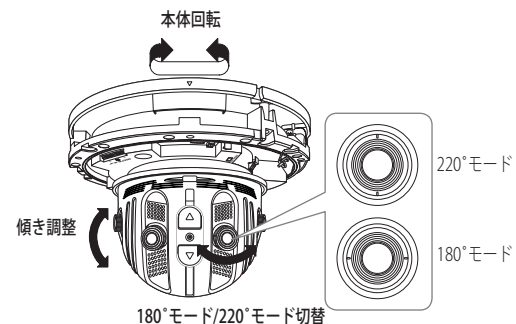
3. POLE MOUNT ADAPTOR (SBP-300PM)
80mm以上の円柱にWALL MOUNT ADAPTOR (SBP-300WMまたはSBP-300WM1) を設置する際に使用するマウントアダプタです。



4. CORNER MOUNT ADAPTOR (SBP-300KM)
壁の角部にWALL MOUNT ADAPTOR (SBP-300WMまたはSBP-300WM1) を設置する際に使用するマウントアダプタです。



カメラの監視方向の調整



■ 監視方向の調整

カメラが天井へ固定され地エル状態でカメラの方向を調節することが可能です。
この時、カメラの本体を左右に回転させることはPan、傾きを調整することはTiltとします。

- Pan回転角度は355度です。
- Tilt回転角度は60度です。

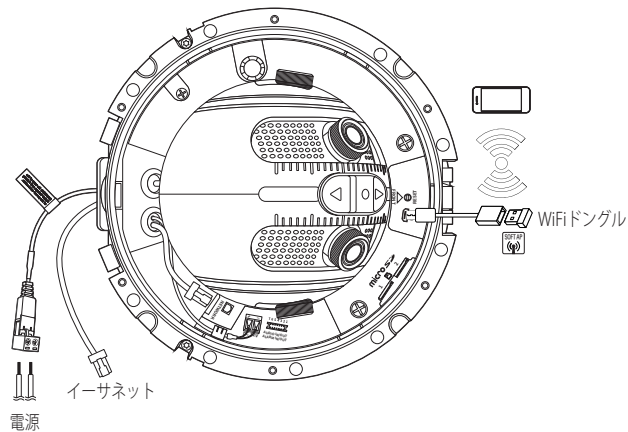
■ 一部角度にてカメラケースによる画像ケラレが発生する場合があります。

■ 調整方法

1. Monitoringする方向を考えてカメラを設置した後、Pan角度を調整してください。
2. Tilt角度を調整してモニタリングする方向に向けてください。
3. レンズを回して180°モード/220°モードを変更してください。

取付けおよび接続

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。

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。

WiFi接続

カメラ設定

1. OTGアダプタ (5ピン) とWiFiドングルを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. WiFi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。
 - 初期接続中は、ログインしていなくてもビデオが再生されます。
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。

推奨するドングル製造業者

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

電源

電源アダプタの+、-線をドライバを使用してカメラの電源入力端子に接続します。

- PoE+とDC12V電源を同時接続した場合は、機器電源はDC 12V電源にて動作します。
 - PoE+機能が可能なルータを使用して接続すると、別途の電源を接続しなくても使用が可能です。
 - PoE+はIEEE802.3st規格に対応した装備を使用します。
 - 機器の電源は、PoE+とDC12Vのどちらかひとつの電源を使用することを推奨します。
- DC12Vは極性がありますので、注意して接続してください。
- 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。

電源ケーブル仕様

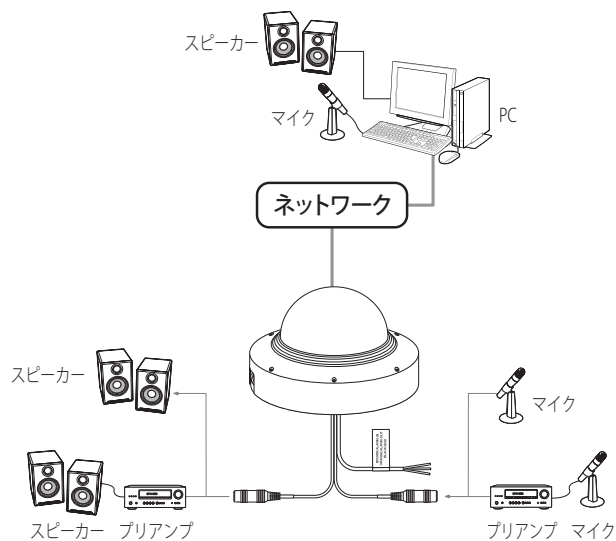
DC12V入力の場合:

ワイヤータイプ(AWG)	#22	#20	#18
ケーブル長さ (Max)	24m	38m	60m

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 (10/100/1000ベース-T)	
イーサネット	10/100/1000ベース-T	1000BASE-Tで動作するには、UTP-6以上のケーブルをGiga/ハブに使用しなければなりません。
ケーブル	UTP カテゴリ 6	
最大距離	100M	直流抵抗 ≤ 0.188 Ω/m
PoE+ サポート	IEEE 802.3at	

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。
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

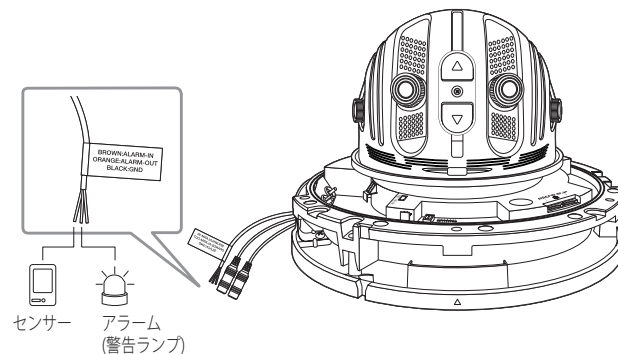
- 音声入力：G.711 PCM (ビットレート: 64kbps / サンプリング周波数: 8kHz)、G.726 ADPCM (ビットレート: 16Kbps, 24Kbps, 32Kbps, 40Kbps / サンプリング周波数: 8kHz)、AAC (ビットレート: 48Kbps / サンプリング周波数: 16kHz)

• 全二重音声

- 音声入力：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

I/Oポートボックスへの接続

アラーム入・出ケーブルを、ポートボックスの対応する部分と接続してください。



- ALARM-IN：アラーム入力センを接続する際に使用します。
- ALARM-OUT：アラーム出力信号の接続に使用します。
- GND：アラーム入出力信号用の共通ポートです。



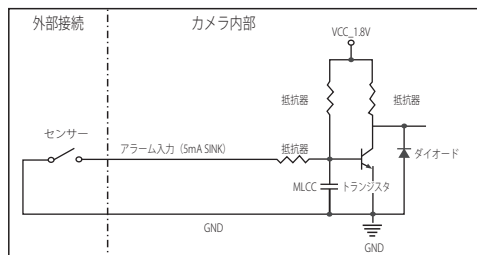
- 電圧と電流が規格外のデバイス (例：閃光灯やサイレン) をオープンコレクタ方式で接続すると、故障の原因となる場合があります。
電圧と現在の仕様内容を上回っているデバイスを接続するときは、「アラーム出力配線図」を参照してください。(18ページ)

取付けおよび接続

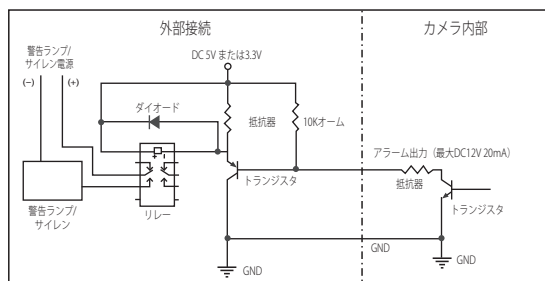
外部センサーの接続

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



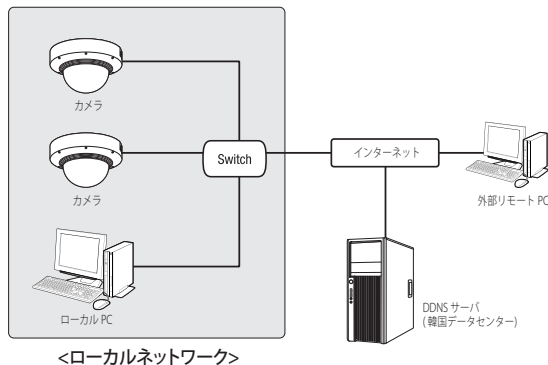
ネットワーク接続と設定

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

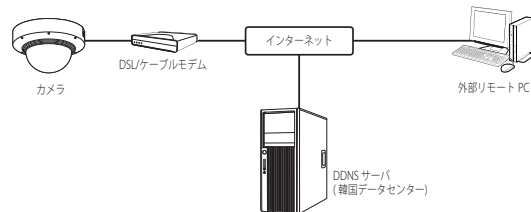
LAN のローカル PC からカメラに接続する

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。



- 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。
- IP インストーラでは、IP アドレス、サブネットマスク、ゲートウェイ、HTTP ポート、VNP ポート、IP 方式を設定するために、デフォルトパスワード、"4321"を御利用いただけます。ネットワークインターフェース変更後、セキュリティを向上させるため、ウェブビューアにアクセスして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には IP インストーラを使用してください。IP インストーラの使用方法の詳細は、"静的 IP の設定"を参照してください。（20 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

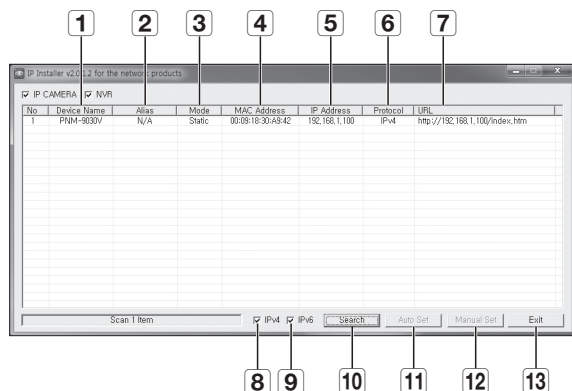


1. ユーザの PC をネットワークカメラに直接接続します。
2. IP インストーラを実行してカメラの IP アドレスを変更し、デスクトップ上で Web ブラウザを使用してインターネットと接続できるようにします。
3. インターネットブラウザを使用して Web Viewer と接続します。
4. [設定] ページに移動します。
5. [ネットワーク] - [DDNS] に移動し、DDNS の設定を行います。
6. [Basic] - [IP & ポート] へ移動し、IP 方式を [DHCP] に設定します。
7. PC から取り外したカメラを直接モデムに接続します。
8. カメラを再起動します。

- 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

IPインストーラに使用するボタン



項目	説明
1 Device Name	接続しているカメラのモデル名です。 列をクリックしてモデル名順にリストをソートします。 ただし、検索中にクリックすると検索は停止します。
2 Alias	この機能は現在導入されていません。
3 Mode	現在のネットワーク接続状態によって、<Static>もしくは<Dynamic>と表示します。
4 MAC(Ethernet) Address	接続されているカメラのイーサネットアドレスです。 列をクリックしてイーサネットのアドレス順にリストをソートします。 ただし、検索中にクリックすると検索は停止します。
5 IP Address	IPアドレスです。 列をクリックしてIPアドレス順にリストをソートします。 ただし、検索中にクリックすると検索は停止します。
6 Protocol	カメラのネットワーク設定です。 工場初期値は"IPv4"です。 IPv6設定のカメラは、"IPv6"と表示されます。
7 URL	外部のインターネットからのアクセスに使用するDDNS URLアドレス。 ただし、DDNS登録が失敗した場合、このアドレスはカメラの<IP Address>に置き換わり ます。
8 IPv4	IPv4設定のカメラをスキャンします。

項目	説明
9 IPv6	IPv6設定のカメラをスキャンします。 IPv6対応の環境でのみ有効化されます。
10 Search	ネットワークに接続されているカメラをスキャンします。 ただし、IPv4、IPv6どちらも確認できない場合、このボタンはグレー表示されます。
11 Auto Set	IPインストーラによって自動的にネットワークが設定されます。
12 Manual Set	ネットワーク設定を手動で行う必要があります。
13 Exit	IP Installerプログラムを終了します。

- IPインストーラは、インストールCDで提供されているインストーラバージョンか、入手可能な場合は最新バージョンのいずれかを使用してください。最新バージョンはHanwha VisionのWebサイトからダウンロードすることができます。
- 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。

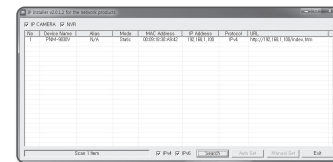
静的IPの設定

手動ネットワーク設定

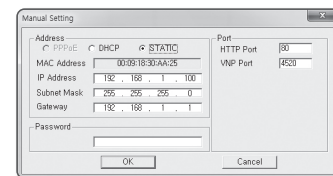
<IP Installer_v2.XX.exe>を実行し、カメラの検索リストを表示します。
最初の起動時には、[Auto Set]と[Manual Set]は両方グレー表示となります。

- IPv6設定のカメラが見つかった場合、カメラがこの機能をサポートしていないため、ボタンがグレー表示されます。

- 検索リスト内のカメラを選択します。
カメラのラベルに印字されているカメラのMACアドレスを確認します。
[Auto Set]と[Manual Set]の両方のボタンが有効となります。
- [Manual Set]をクリックします。
Manual Settingダイアログが表示されます。
カメラの<IP Address>、<Subnet Mask>、<Gateway>、<HTTP Port> 及び <VNP Port>が予め設定された値で表示されます。



- <Address>ペインに必要な情報が表示されます。
 - MAC (Ethernet) Address : カメラのラベルに印字されているカメラのMACアドレスが自動的に表示されるため、ユーザー設定は不要です。
- IP関連パラメータは、DHCPにチェックが入っていない場合にのみ設定することができます。



ブロードバンドルーターを使用しない場合

<IP Address>、<Subnet Mask>、<Gateway>の設定については、システム管理者にお問い合わせください。

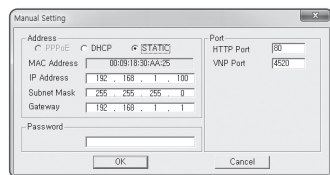
4. <Port>ペインに必要な情報が表示

されます。

- HTTP Port: 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。
- VNP Port: 映像信号の送信の制御に使用され、初期値は4520です。

5. パスワードを入力してください。

カメラへのアクセスに使用していた「admin」アカウントのパスワードを入力します。



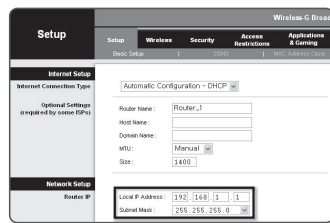
- セキュリティ上の目的で、数字、アルファベット、大文字小文字および特殊文字を使用することをお勧めします。
- パスワードの変更方法についての情報は、ウェブビューアのオンラインヘルプを参照してください。

6. [OK]をクリックします。

手動でのネットワーク設定が完了しました。

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。(22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 Address Subnet Mask Gateway	192.168.1.100 255.255.255.0 192.168.1.1
ポート設定	HTTP Port VNP Port	8080 4520

- <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

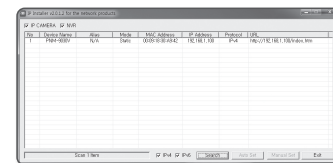
自動ネットワーク設定

<IP Installer_v2.XX.exe>を実行し、カメラの検索リストを表示します。

最初の起動時には、[Auto Set]と[Manual Set]は両方グレー表示となります。

- IPv6設定のカメラが見つかった場合、カメラがこの機能をサポートしていないため、ボタンがグレー表示されます。

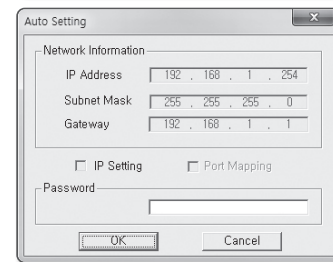
1. 検索リスト内のカメラを選択します。カメラのラベルに印字されているカメラのMACアドレスを確認します。
[Auto Set]と[Manual Set]の両方のボタンが有効となります。
2. [Auto Set]をクリックします。
Auto Settingダイアログが表示されます。
<IP Address>、<Subnet Mask>、<Gateway>が自動的に設定されます。
3. パスワードを入力してください。
カメラへのアクセスに使用していた「admin」アカウントのパスワードを入力します。



- セキュリティ上の目的で、数字、アルファベット、大文字小文字および特殊文字を使用することをお勧めします。
- パスワードの変更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。

4. [OK]をクリックします。

自動ネットワーク設定が完了しました。



ネットワーク接続と設定

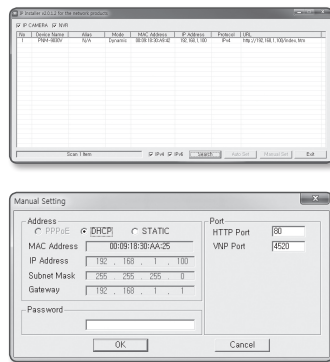
動的IP設定

動的IP環境設定

- 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

動的IPの確認

- ユーザーのローカルコンピュータでIPインストーラを実行します。
<Dynamic IP>アドレスが割り当てられているカメラがリストに表示されます。
- 検索結果からカメラを選択します。
- [Manual Set]ボタンをクリックし、カメラの<Dynamic IP>アドレスを確認します。
<DHCP>のチェックを外しておくと、IPを<Static>に変更できます。

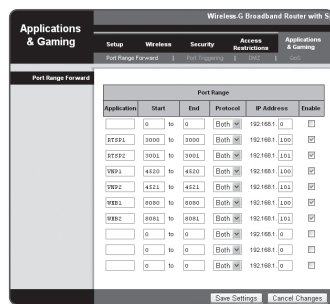


ポートフォワード(ポートマッピング)の設定

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。



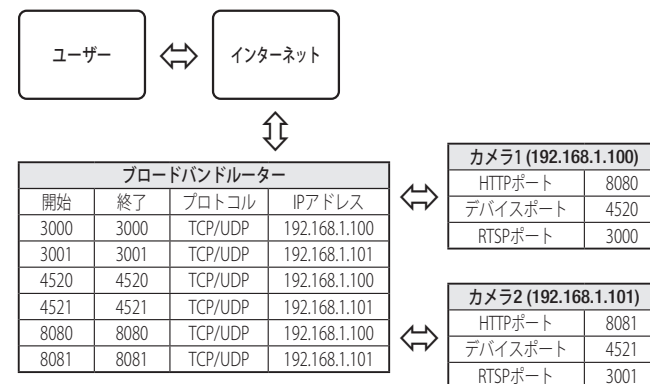
- 完了後、[Save Settings]をクリックします。
設定が保存されます。

- 上記の説明の例はCISCOのブロードバンドルーターに基づいています。
- 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。

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。

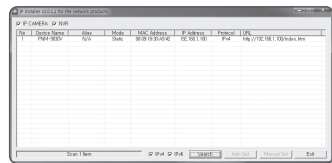
カメラ1とカメラ2がルーターに接続されている場合:



- 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

1. IPインストーラを実行します。
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

ブロードバンドルーターのネットワーククラスターに属さないリモートコンピュータ上でIPインストーラを使用することはできないため、ユーザーはカメラのDDNS URLを使用してブロードバンドルーターのネットワーク内のカメラにアクセスすることができます。

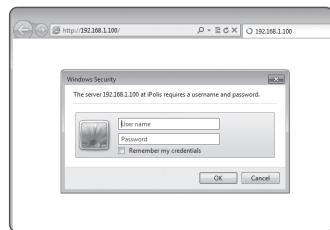
1. ブロードバンドルーターのネットワーク内のカメラへアクセスする前に、ブロードバンドルーターにポートフォワードを設定しておく必要があります。
2. リモートPCから、インターネットブラウザを起動しカメラのDDNS URLアドレスを入力するか、アドレスバーでブロードバンドルーターのIPアドレスを入力します。
例) <http://ddns.hanwha-security.com/ID>

- DDNSの登録方法についての情報は、ネットワーク設定ガイドを参照してください。

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。

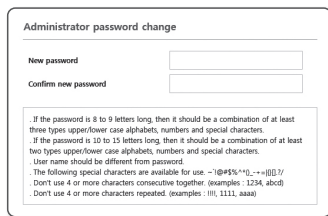
使用するデバイスを<DDNS>サーバーに登録するには、http://ddns.hanwha-security.comにアクセスして最初にデバイスを登録し、Web Viewerの<ネットワーク> - <DDNS>を<DDNS>に設定し、DDNS登録に使用した<製品ID>を指定します。

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。
- 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。

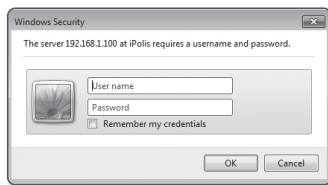


ログイン

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。

仕様

項目			説明
映像	撮像素子	1/2.8" 5M CMOS x 4CH	
	総画素数	2,704(H) x 2,104(V) 5.69M x 4CH	
	有効画素数	2,616(H) x 1,964(V) 5M x 4CH	
	走査方式	プログレッシブスキャン	
	最低照度	カラー：0.15Lux(F2.0、1/30sec、30IRE) B/W：0.01Lux(F2.0、1/30sec、30IRE)	
	ビデオ出力	USB：Micro USB Type B、1280x720インストール用	
レンズ	焦点距離	4mm	
	最大口径比	F2.0	
	画角	[180°モード] H：180°、V：70°、[220°モード] H：220°、V：52°	
	最短被写体距離	3m(9.84ft)：最小推奨距離	
	レンズタイプ	固定フォーカス	
	マウントタイプ	Board-in type (M12)	
Pan/Tilt/回転	Pan範囲	355°	
	Tilt範囲	60°	
	回転範囲	-	
カメラ機能	カメラタイトル	Off/On(総文字数75文字) - 英文字/数字/特殊文字 - 最大5行、色 (白・緑・赤・青・黒・白)、透明度、解像度ごとに自動サイズ調整	
	Day & Night	Auto(ICR)/Color/B/W/Schedule	
	逆光補正	オフ / BLC / WDR	
	Wide Dynamic Range	120dB	
	コントラスト強調	SSDR (オフ/オン)	
	デジタルノイズリダクション	SSNRIII (2D+3Dノイズフィルター) (オフ/オン)	

項目		説明
カメラ機能	LDC	対応
	曇り除去	自動/手動/オフ
	モーション検知	Off/On(それぞれ8つ、8点多角形のモーション検知エリア)、ハンドオーバー
	プライバシーマスク	オフ / オン(それぞれ16つ、四角のモーション検知エリア) - カラー：グレー、グリーン、レッド、ブルー、ブラック、ホワイト - モザイク
	利得調整	オフ/低/中/高
	ホワイトバランス	ATW/AWC/手動/屋内/屋外
	コントラスト	レベル調整
	電子シャッター速度	最小値/最大値/ちらつき防止 (2〜1/12,000秒)
	フリップ/ミラー	フリップ：オン / オフ ミラー：オン / オフ
	デジタルPTZ	対応
	インテリジェント映像分析	タンパリング、うろつく、方向検知、バーチャルライン、出/入検知、発生/消滅検知、モーション検知、音声検知、サウンド分類、ヒートマップ
	アラーム入出力	入力1個/出力1
	オーディオ入力	ライン入力 供給電圧：2.5VDC (4mA)、入力インピーダンス：約2Kオーム
	オーディオ出力	ライン出力 (3.5mmステレオミニジャック)
	アラームトリガー	アラーム入力、モーション検知、ビデオ&オーディオ分析、ネットワーク切断
	アラームイベント	• FTP、電子メールによるファイルのアップロード • 電子メール、による通知 • ネットワーク切断時およびイベント時 (アラームトリガー) でのローカルストレージ (SD/SDHC/SDXC) または NAS 録画 • 外部出力
	ピクセル数	対応

項目	説明
イーサネット	RJ-45 (10/100/1000 BASE-T)
ビデオ圧縮フォーマット	H.265(HEVC): Main H.264(MPEG-4 Part 10/AVC): Main/Baseline/High MJPEG
解像度	[180°モード] 6096x2540, 5760x2400, 5472x2280, 5184x2160, 4800x2000, 4560x1900, 4096x1704, 3840x1600, 2688x1120, 2560x1064, 2048x852, 1920x800, 1280x532, 640x264 [220°モード] 7744x1936, 6096x1524, 5760x1440, 5472x1368, 5184x1296, 4800x1200, 4560x1140, 4096x1024, 3840x960, 2688x672, 2560x640, 2048x512, 1920x480, 1280x320, 640x160
最大フレームレート	H.265/H.264: すべての解像度で最大30fps MJPEG: Max. 15fps at 2MP
スマートコーデック	マニュアルモード (領域ベース: 5ea)
WiseStream II	対応
ビデオ品質調整	H.264/H.265: ターゲットビットレートレベル制御 MJPEG: ターゲットビットレートレベル制御
ビットレート制御方式	H.264/H.265: CBR または VBR Motion JPEG: VBR
ストリーミング機能	マルチストリーミング(チャンネル別5つや3つのプロファイル)
音声圧縮フォーマット	G.711 μ-法/G.726 選択可 G.726 (ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 16KHzで48Kbps
音声通信	双方向 (2WAY)
IP	IPv4, IPv6
プロトコル	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP

ネットワーク

項目	説明
セキュリティ	HTTPS (SSL) ログイン認証 ダイジェストログイン認証 IPアドレスフィルタリング ユーザーアクセスログ 802.1X認証方式 (EAP-TLS, EAP-LEAP)
ストリーミング方式	ユニキャスト/マルチキャスト
最大ユーザーアクセス	ユニキャストモードでは15ユーザー
エッジストレージ	SD/SDHC/SDXC (最大 256GB) - SD/SDHC/SDXCメモリーカードに記録されたモーション画像はダウンロードで きます。 NAS (ネットワーク・アタッチ・ストレージ) インスタント録画用ローカルPC
アプリケーション・ プログラミング・ インターフェース	ONVIF Profile S/G SUNAPI(HTTP API)
Webページの言語	英語、フランス語、ドイツ語、スペイン語、イタリア語、中国語、韓国語、ロシア語、日 本語、スウェーデン語、ポルトガル語、チェコ語、ポーランド語、トルコ語、オランダ 語、ハンガリー語、ギリシャ語
Web Viewer	対応OS: Windows 7 / 8.1 / 10, MAC OS X 10.10, 10.11, 10.12 対応ブラウザ: Google Chrome 63, MS Edge 41, Mozilla Firefox 57 (Windows 64 ビットのみ), Apple Safari 11 (Mac OS Xでのみサポート)
統合管理ソフトウェア	Smart viewer, SSM
動作温度/湿度	-40°C ~ +55°C (-40°F ~ +131°F) / RH90% 以下 * 起動温度: -30°C以上
保存温度/湿度	-40°C ~ +60°C (-40°F ~ +140°F) / RH90%以下
防塵・防水対応	IP66
耐衝撃対応	IK10
電源	使用電源/消費電流 PoE+(IEEE802.3at Class4), DC 12V 消費電力 最大25.5W (PoE+), 最大21.0W (DC12V)
色/材質	アイボリー/アルミニウム
外形寸法(Ø×H)	Ø253mm x H165mm (Ø9.96" x H6.5")
重量	3.2Kg

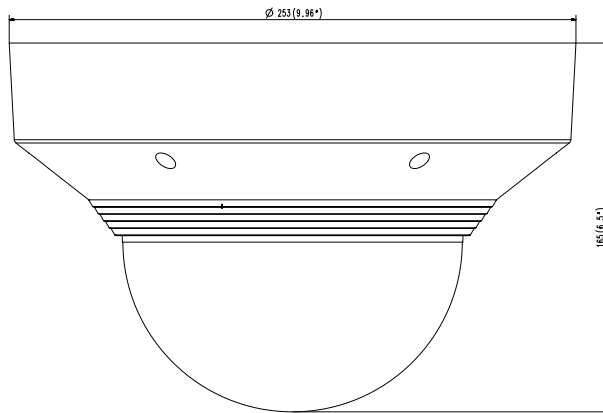
ネットワーク

動作環境

電源

外観

単位: mm (インチ)



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。
ネットワークに接続しているカメラがIP インストラプログラムを検知しない。	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
<アナリティクス>で<モーション検知>を「Enable」に設定した後、カメラでビデオ映像分析イベントが発生してもE-mailにファイルを伝達することができません。	- 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。
インテリジェント映像分析イベントが生成されていても、アラーム出力ポートに信号が検出されません。	アラーム出力ポートの設定をチェックしてください。
Micro SDメモ리카ードに録画できません。	メモ리카ードに問題がないか確認してください。
Micro SDメモ리카ードを挿入しても、カメラが正しく動作しません。	- メモ리카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리카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리카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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GPL SW

Component Name	License	URL
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	
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	
zeroconf	GPL 2.0	

LGPL SW

Component Name	License	URL
glibc	LGPL 2.0	
inetutils	LGPL 3.0	
neon-0.29.6	LGPL 2.0	http://www.webdav.org/neon/

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libcap-1.7.4	BSD 2.0	http://www.kernel.org/pub/linux/libs/security/linux-privs/libcap2
lighttpd-1.4.35	BSD 2.0	http://www.opensource.org/licenses/bsd-license.html
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lighttpd is a secure, fast, compliant, and very flexible webserver that has been optimized for high-performance environments. It has a very low memory footprint compared to other web servers and takes care of opload. Its advanced feature-set (FastCGI, CGI, Auth, Output-Compression, URL-Rewriting and many more) make lighttpd the perfect webserver-software for every server that suffers load problems. Simple Network Management Protocol (SNMP) is an Internetstandard protocol for managing devices on IP networks. It is used mostly in network management systems to monitor the devices attached to the network for conditions that need administrative attention. Net-SNMP is a suite of applications used to implement SNMP v1, SNMP v2c and SNMP v3 using both IPv4 and IPv6. For more additional information, send email to help.cctv@hanwha.com.

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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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lperf 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](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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