

ネットワークカメラ

ユーザーマニュアル

QNP-6230/QNP-6230H

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。
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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. 本製品は、“Class 2” または “LPS” の印がついた、定格24VAC（50または60Hz）、最低1.6 A または PoE(42.5V ~ 57V)、最低 0.7 Aの電力装置で供給することを目的としています。（QNP-6230）
16. 本製品は、“Class 2” または “LPS” の印がついた、定格24VAC（50または60Hz）、最低2.9 A または PoE(42.5V ~ 57V)、最低 0.9 Aの電力装置で供給することを目的としています。（QNP-6230H）
17. カメラを壁に垂直に取り付けしないでください。チルトのステップアウトの原因となります。
18. 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。
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。
23. 24時間 Auto Pan 動作は禁止
24. Auto Pan 動作は1時間動作後、他のSequence (Swing・Tour・Group)を1時間以上運用後、Auto Pan機能を使うこと。

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。

Pan / Tilt / ZoomモーターおよびSlip ringは連続動作する場合、部品寿命を1年保証します。

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)は直射日光の当たる場所や、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。

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
- **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 63, MS Edge 41, Mozilla Firefox 57 (Window 64bit でのみサポート)
, Apple Safari 11 (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 Explore 11, Apple Safari 11 (Mac OS Xでのみサポート)

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。

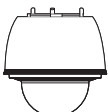
キット内容 (QNP-6230)

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。)

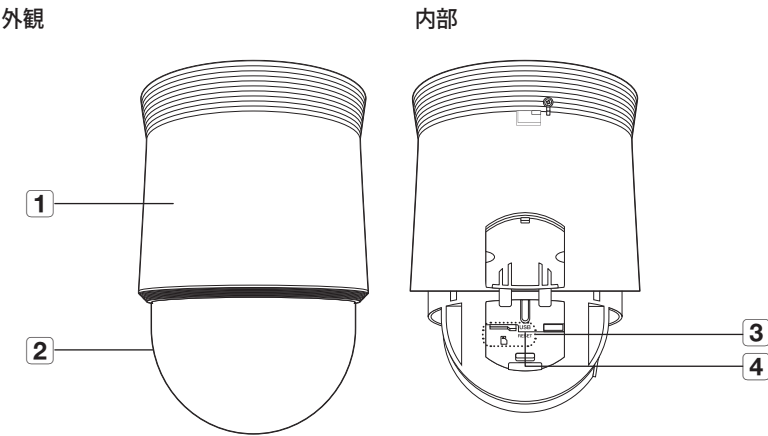
外観	品目名	数量	説明
	カメラ	1	
	クイックガイド (オプション)	1	
	保証書 (オプション)	1	
	テストモニタ用ケーブル	1	ポータブルディスプレイデバイスとカメラとの接続 をテストするために使用します
	設置ベース	1	室内または天井用ハウジングに取り付ける場合 に使用します。
	タッピングネジ	4	壁または天井に取付ける ために使用します
	テンプレート	1	製品設置ガイド
	絶縁シート	1	湿度の高い場所でカメラを設置する場合にご使 用下さい。

キット内容 (QNP-6230H)

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。)

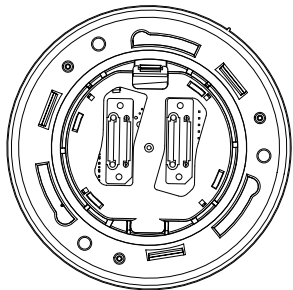
外観	品目名	数量	説明
	カメラ	1	
	クイックガイド (オプション)	1	
	保証書 (オプション)	1	
	テストモニタ用ケーブル	1	ポータブルディスプレイデバイスとカメラとの接続 をテストするために使用します
	六角レンチ	1	ドーム型カバーを取り外し、交換するために使用
	六角ネジ	3	設置ベースをカメラに取り付けるために使用し ます。
	設置ベース	1	屋外取付用ブラケット
	防水付属品	1	湿度の高い場所に取り付けて使用します。

概観 (QNP-6230)

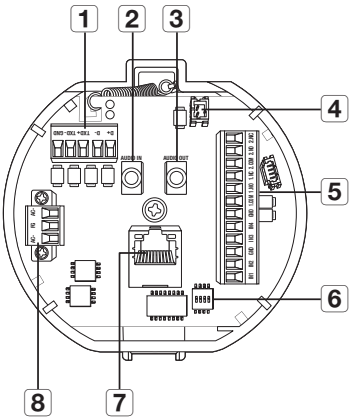


項目	説明
1 メインユニット	内部のPTZ機構を直射日光又は外部の衝撃から防ぎます。
2 ドームカバー	レンズと製品を保護するドームカバーです。
3 MircoSDメモ리카ードの区画	Mirco SDメモ리카ードの区画です。
4 リセットボタン	5秒間このボタンを押し続けるとカメラのすべての設定が工場出荷時の設定にリセットされます。

設置ベースの底面図



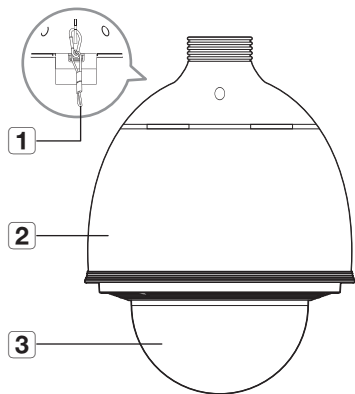
設置ベースの内部構造



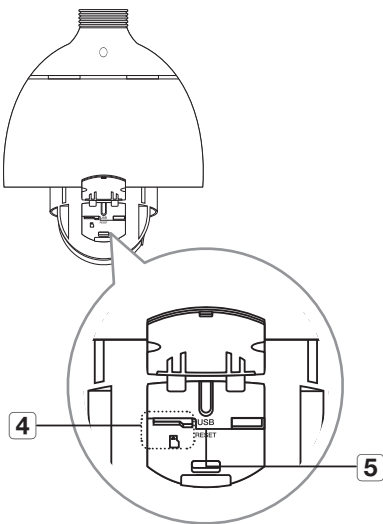
項目	説明
1 COMポート	RS-485通信に使用します。
2 音声入力ポート	音声入力ケーブルの接続に使用します。
3 音声出力ポート	音声出力ケーブルの接続に使用します。
4 ビデオ出力ポート	アナログビデオ出力ポートです。(設置用)
5 アラーム入出力ポート	アラーム入出力ケーブルの接続に使用します。
6 通信設定スイッチ	通信プロトコル(RS-485)を設定し、終了するか指定します。
7 ネットワーク接続	イーサネットケーブルを用いてネットワークと接続するポート
8 電源ポート	電源の接続に使用します。

概観 (QNP-6230H)

外観

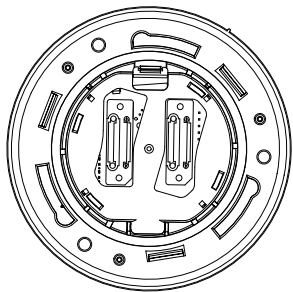


内部

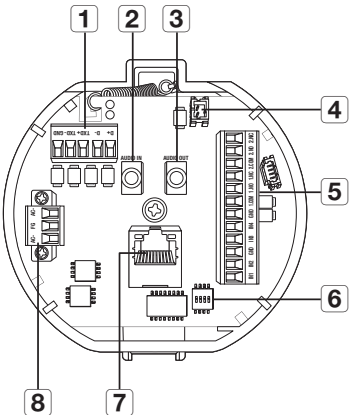


項目	説明
1 安全ケーブル	ケーブルは、取り付け時の製品落下を防止します。
2 筐体	内部のPTZ装置を直射日光、雨、または外部の衝撃から保護します。
3 ドームカバー	レンズと製品を保護するドームカバーです。
4 Mirco SD メモリカードの区画	Mirco SD メモリカードの区画です。
5 リセットボタン	5秒間このボタンを押し続けるとカメラのすべての設定が工場出荷時の設定にリセットされます。

設置ベースの底面図



設置ベースの内部構造

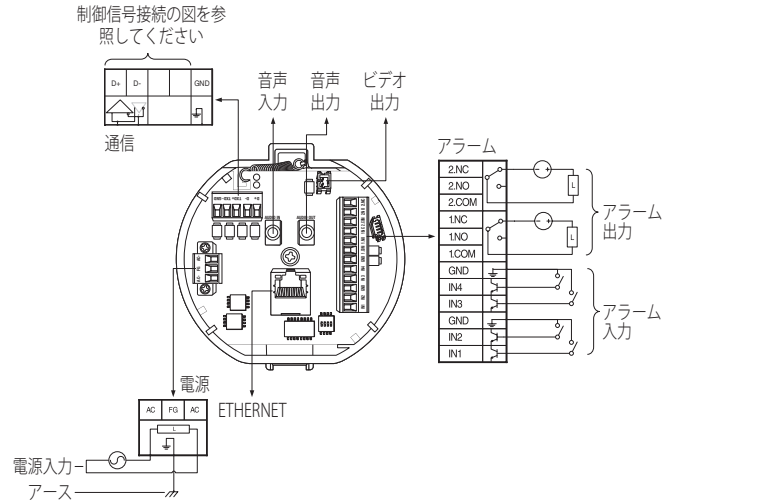


項目	説明
1 COMポート	RS-485通信に使用します。
2 音声入力ポート	音声入力ケーブルの接続に使用します。
3 音声出力ポート	音声出力ケーブルの接続に使用します。
4 ビデオ出力ポート	アナログビデオ出力ポートです。(設置用)
5 アラーム入出力ポート	アラーム入出力ケーブルの接続に使用します。
6 通信設定スイッチ	通信プロトコル(RS-485)を設定し、終了するか指定します。
7 ネットワーク接続	イーサネットケーブルを用いてネットワークと接続するポート
8 電源ポート	電源の接続に使用します。

取付けおよび接続

■ カメラ配線インターフェイスボード

カメラの配線については、下図を参照してください。

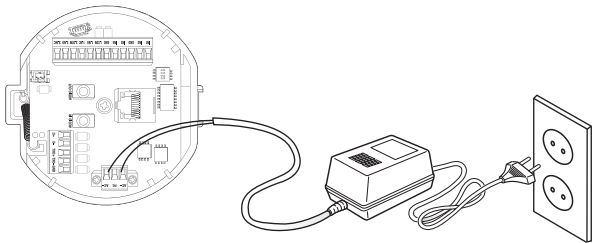


- 設定メニューのN.O.を選択します。
 - センサ入力は、接触型では“ショート”の時、或いはアクティブタイプが“低”レベルの時に作動します。
- 設定メニューからN.C.を選択します。
 - センサ入力は、接触型ではオープンの時、或いはアクティブタイプでは高インピーダンス状態（オープンコレクタ）の時に作動します。
- アラーム出力ターミナルの最大能力は、30V DC/2A、125V AC/0.5Aおよび250V AC/0.25Aです。
- アラーム入力ケーブルおよびアラーム出力ケーブルを接続する際には、各ケーブルを確実にそれぞれの端末に接続してください。
- カメラの容量を超える製品を接続する場合は、追加のリレーデバイスを使用してください。
- 電源ケーブルと接地ケーブルが適切にNC/NOまたはCOMポートに接続されていないと、装置が壊れたり出火したりすることがあります。

他のデバイスとの接続

アダプタとケーブルの準備

- カメラを電源アダプタに接続します。次に、アダプタの電源コードを電源コンセントに差し込みます。



接続する前に、定格電圧および電流を確認してください。

定格電圧	許容入力電圧
AC 24V	AC22V~26V
PoE+	42.5Vdc~57Vdc

- PoE+とAC 24V電源アダプタの両方から電力が供給された場合、このデバイスは最初に接続が確立された電源から電力が供給されます。
 - PoE+またはAC 24Vのいずれかの電源を使用することが推奨されます。
- PoE+電源を供給するスイッチデバイスに接続された場合、AC 24Vの電源供給は必要ありません。
- PoEデバイスがPoE+（IEEE 802.3at）の仕様を満たしていることを確認してください。
 - ご利用のデバイスがPoE標準（IEEE 802.3af）のスイッチと接続されている場合、スイッチ設定メニューの“PoEを無効化する”へ進みます。
スイッチデバイスに関する詳細については、メーカーのマニュアルを参照してください。
 - PoE+仕様に準拠したケーブルを使用することを推奨します。
- PoE+を電源として使用する場合、起動時間はスイッチのモデル（チャンネル別）又はメーカーによって異なります（PoE+接続時間を含みます）。
- PoE+電源を使用しているとき、ヒーターは動作しません。（QNP-6230H）

銅線の抵抗値[20°C (68°F) の場合]

QNP-6230

銅線ゲージ(AWG)	#20	#19	#18	#17
抵抗 (Ω/m)	0.0333	0.0264	0.021	0.0166
推奨距離 (m)	20 以内	25 以内	30 以内	30 以内

QNP-6230H

銅線ゲージ(AWG)	#18	#17	#16	#15
抵抗 (Ω/m)	0.021	0.0166	0.0132	0.0104
推奨距離 (m)	15 以内	20 以内	25 以内	30 以内

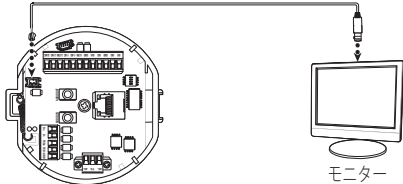
- 上記の表に示すように、線の長さによっては瞬時電圧低下が起きる可能性があります。
カメラの接続に非常に長い線を使用すると、カメラが正常に動作しない可能性があります。
 - カメラの動作電圧 : AC 24V±10%
 - 上記の表に示す電圧降下指標は、銅線の種類および製造元によって異なる可能性があります。

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。

設置モニターの接続

ケーブルをカメラの背面にあるビデオ出力端子および設置モニターのビデオ入力端子に接続します。



- 配線は、ご使用のモニターの種類と周辺デバイスによって異なります。
各デバイスのユーザーマニュアルを参照してください。
- 接続する際には、モニターとカメラの電源がオフになっていることを確認してください。

- 本製品は、ネットワーク経由で映像を転送するネットワークカメラです。設置するカメラの撮像範囲を設定するために、ビデオ出力端子を使用します。
- モニタリングのために端子を使用すると、映像画質の劣化などの問題が発生する可能性があります。
- 24時間監視をする場合、専門的なCRTモニターや、TFT/LCD携帯モニターの使用は適切ではありません。
- 24時間モニタリングと保存向けにネットワーク転送スクリーンを使用します。

インストール

カメラブラケットの準備と設置

ブラケットおよびハウジングの設置ガイドラインについては、ブラケットまたはハウジングに同梱されている設置マニュアルを参照してください。

■ 使用可能なブラケットモデル

モデル	項目	QNP-6230	QNP-6230H
SHP-3701H	Outdoor Housing	あり	-
SHP-3701F	Ceiling-mount Housing		
SBP-301HM3	Hanging Mount		
SBP-300WM1	Wall Mount		あり
SBP-300WM			
SBP-300CM	Ceiling Mount		
SBP-300LM	Parapet Mount		
SBP-300KM	Corner Mount		
SBP-300PM	Pole Mount		

- 各ブラケット（別売り）の外観については、「設置のためのオプション付属品」を参照してください。（15 ページ）

取付けおよび接続

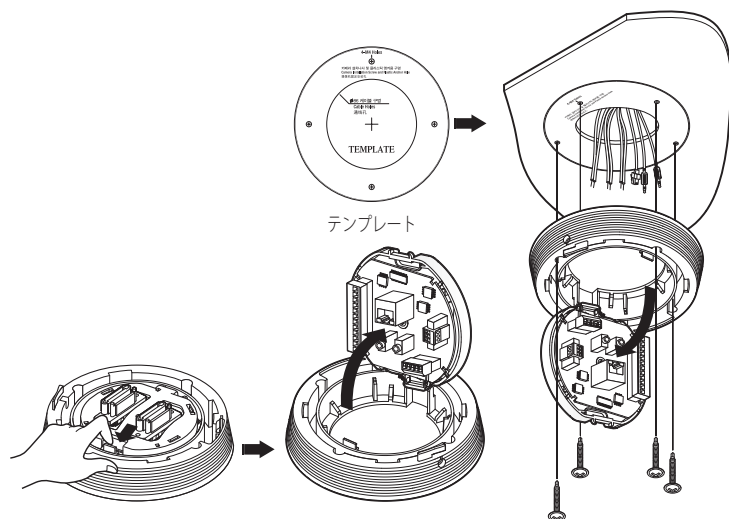
表面取付けによる設置 (QNP-6230)

■ QNP-6230HIは、壁または天井の表面には設定できません。

■ テンプレートと設置ベースの取付け

1. 付属のテンプレートを天井に取り付けます。テンプレートに基づいて、天井に86mmの穴を開け、穴から配線を出します。
2. 図のように設置ベースを取り付けます。
3. 露出しているブラケットを設置する前に、図に示すようにブラケット下部にある蝶番の扉を開きます。蝶番の扉の突起部分を持って開きます。

■ 湿度の高い場所でカメラを使用する場合、同封の絶縁シートを設置台の裏に取り付けた後に、天井に設置して下さい。

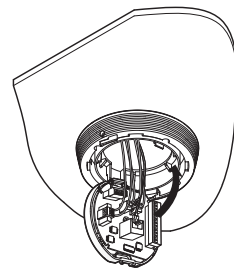


<絶縁シートの取り付け>

■ 端末線の接続

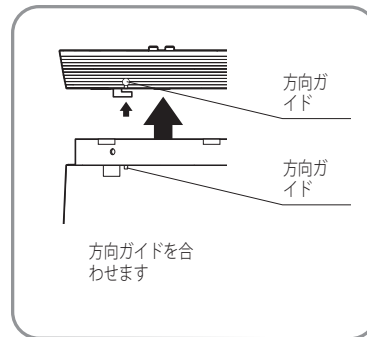
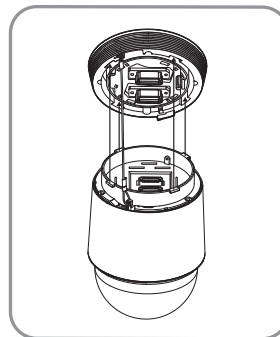
1. 蝶番の扉にあるターミナルブロックにケーブルを接続します。“カメラ配線インタフェースボード”を参照してください。(10ページ)
2. 配線が完了したら、蝶番の扉を閉じます。

■ 設置が完了するまで、カメラをコンセントに接続しないでください。設置途中で電力を供給すると、火災や製品の破損の原因となる場合があります。



■ カメラの安全ケーブルの接続とカメラの取付け

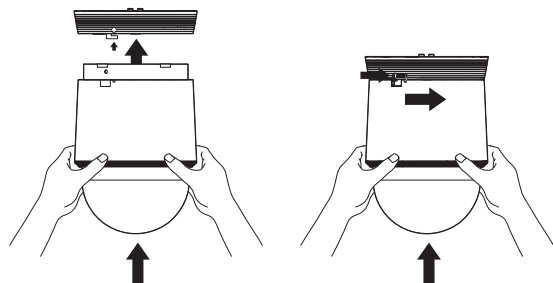
1. まず、左側の写真のように、ベースから安全ケーブルを引き出し、マウントにそれをかけます。安全ケーブルはベース内に巻かれています。
 - カメラをマウントに取り付ける際には、図に示されている取付け方向のガイドマークに従ってください。
2. 下の図に示されている取付け方向のガイドマークに従って、慎重にカメラをマウントに取り付けます。



■ 作業を進める前に、必ずカメラの安全ケーブルをマウントに接続してください。接続しないと、カメラの落下によって重傷を負う恐れがあります。

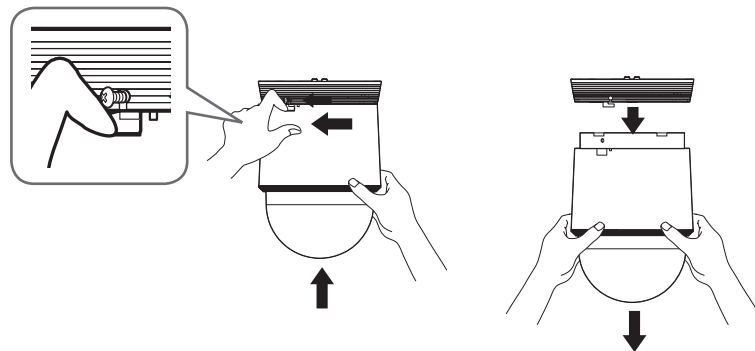
■ カメラの取付けまたは取外し方法は、下の図を参照してください。

- カメラの取付け：カメラ部を押し上げ、図に示すように、それ以上回転させることができなくなるまで時計回りに回転させます。回転後、インストールベースに取り付けられているねじを締めます。



<カメラの取付け>

- カメラの取外し：図に示すように、ねじを緩め、フックに押し込んで、反時計回りに回転させます。(ねじは完全には取り外せません。)
フックが回らなくなるまで回転させたら、カメラユニットを引き下げ、分離します。

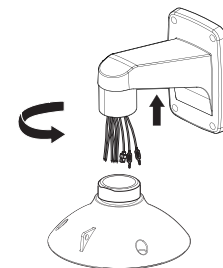


<カメラの取外し>

ウォールマウントによる設置 (QNP-6230H)

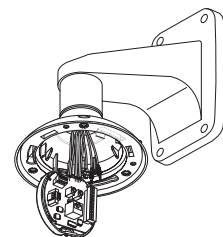
■ 設置ベースをブラケットに固定します

1. ベースを時計回りに回してブラケットに固定します。



2. 下の図に示されているように、設置ベースの下部にある蝶番の突起部分をゆっくり押し、上に開けます。配線については、10ページの“カメラ配線インタフェースボード”を参照してください。

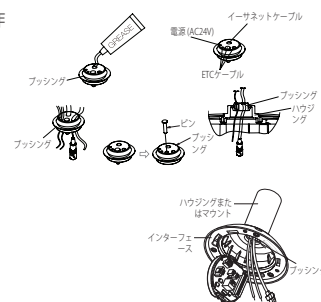
- ❗ 設置が完了するまで、カメラをコンセントに接続しないでください。設置の途中で電力を供給すると、火災や製品の破損の原因となる場合があります。



- ☑ ケーブル接続方法を確認して取り付けます。

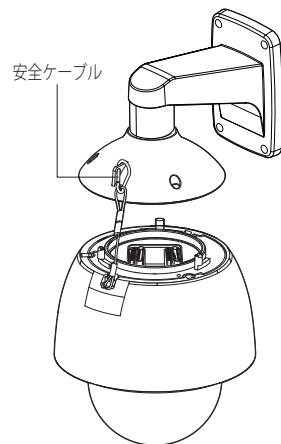
- パイプまたはマウントを通して湿気にさらされる室外での取付け作業用にプッシングが用意されています。湿気が入り込まないように、プッシングを使用してハウジングを設置してください。

- 組立て前に、プッシングに適正量のグリスを塗布してください。次に、プッシングのそれぞれの穴にケーブルを通してください。ケーブルが通っていない穴をピンでふさいでください。
- 次の図に示すように、プッシングをハウジングの内側の上部に取り付けます。その際、図に示すように、プッシングに対して均等に圧力をかけてハウジングをしっかりと固定してください。

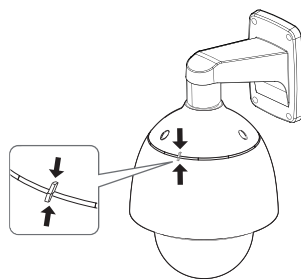


取付けおよび接続

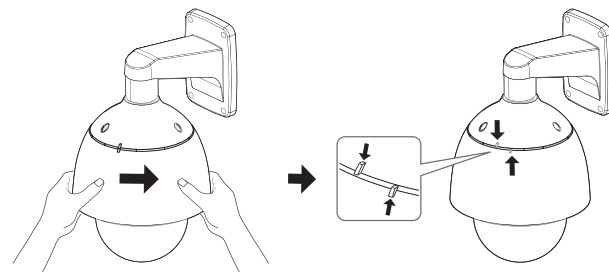
3. カメラの安全ワイヤを設置ベースに接続します。



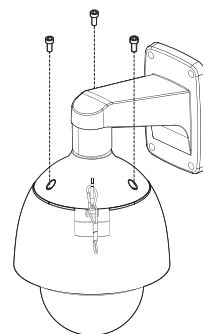
4. カメラと設置ベースの組立て
取付け方向ガイドを合わせて、設置ベースとカメラを組み立てます。



5. カメラの取付け
トップとボトム基準指標が右の画像に表示されるようになるように、取り付けられたカメラユニットを右回りに回転させます。



6. カメラと設置ベースの固定
以下の図に示すように、取付け基部とカメラを、六角ねじを使用して固定します。

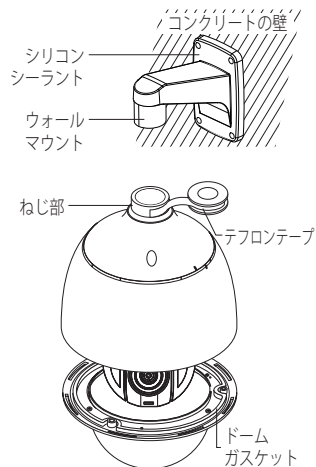


防水に関するご注意

■ 屋外ハウジングと壁マウントを組み合わせることにより、壁にユニットを取り付けます。

1. 垂直の壁にウォールマウントを取り付けます。マウントが傾斜壁に取り付けられる場合は、水気が外部ケーブルを介して室外ハウジングの内部に浸透する可能性があります。
2. ハウジングのねじ部を十分な量のアセンブリ用のテフロンテープを用いて巻きつけます。
3. ドームカバーを分離し、住宅の構造体に固定する際、ドームカバーから分離するためにガスケットが緩んでいないように確認してください。
4. 防水用壁マウントアダプタを取り付け、壁と壁マウントの間とその周辺にシリコンシーラントを塗り封止してください。

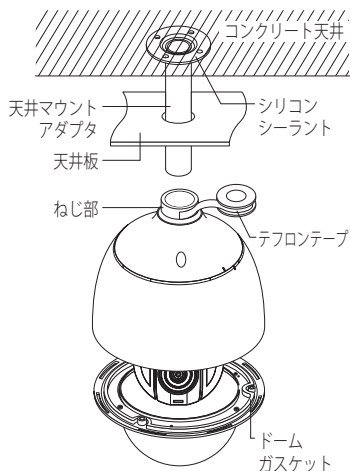
❗ インストール面が平らでない場合、適切に封止できるように特に注意してください。



■ 屋外ハウジングと天井マウントアダプタを組み合わせることで壁に取り付けます。

1. 十分な量のアセンブリ用テフロンテープを用いてハウジングのねじ部を巻きつけて覆います。
2. ドームカバーを分離し、住宅の構造部に固定するときに、ドームカバーから分離するためにガスケットが緩んでいないように確認してください。
3. 防水用天井マウントアダプタをインストールし、壁と天井マウントの間とその周辺にシリコンシーラントを塗り封止します。

❗ インストール面が平らでない場合、適切に封止できるように特に注意してください。

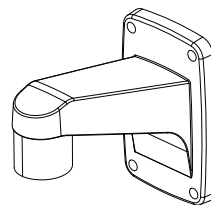


設置のためのオプション付属品

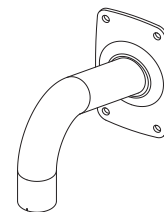
設置を容易にするため、適切なオプション付属品を購入できます。

1. カメラを壁に設置する場合

- 壁面取付けブラケット (SBP-300WM1)

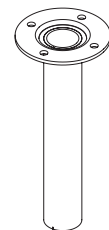


- 壁面取付けブラケット (SBP-300WM)



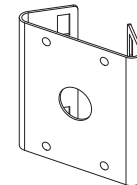
2. カメラを天井に設置する場合

- 天井マウント (SBP-300CM)



3. 長さ80mm以上の円柱にウォールマウント (SBP-300WM/SBP-300WM1) を設置する場合

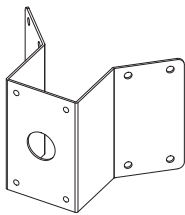
- ポールマウント (SBP-300PM)



取付けおよび接続

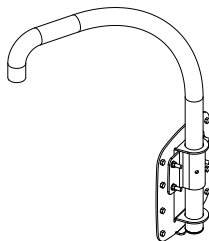
4. 壁面コーナーにウォールマウント (SBP-300WM / SBP-300WM1) を設置する場合

- コーナーマウント (SBP-300KM)



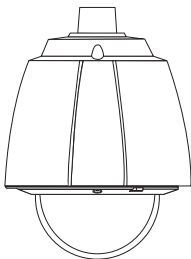
5. 建物の屋根に設置する場合

- 手すりマウント (SBP-300LM)



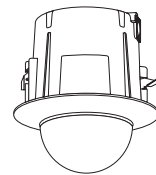
6. QNP-6230 を室外に設置する場合

- 室外ハウジング (SHP-3701H)



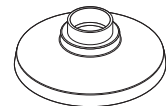
7. QNP-6230を組み込みコンポーネントとして天井に設置する場合

- PTZドームカメラ用フラッシュマウント室内ハウジング(SHP-3701F)



8. QNP-6230 をウォールマウントまたは天井マウントに設置する場合

- ハンギングマウント (SBP-301HM3)

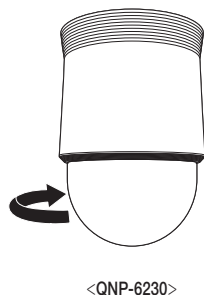


MICRO SD メモリカードの挿入および取り外し

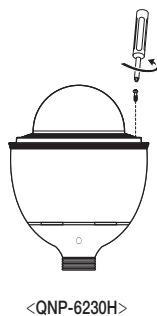
- マイクロSDメモリカードを挿入する前に、カメラの電源ケーブルを抜いてください。
- 上下反対のままマイクロSDメモリカードを無理に挿入しないでください。無理に差し込むと、マイクロSDメモリカードが破損する恐れがあります。
- 雨あるいは高湿度の状態でMicroSDカードを挿入したり取り出したりすることは推奨されません。
- 取り外した製品カバーは5分以内に戻す必要があります。そうしなかった場合、内部結露が起こるリスクがあります。

Micro SD メモリカードの挿入

1. カメラの背面にあるカバーを開きます。
(QNP-6230)

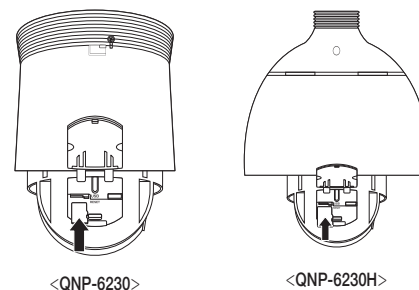


ドライバーを使用して、反時計回りにねじを回して緩め、ドームカバーを分解します。(QNP-6230H)



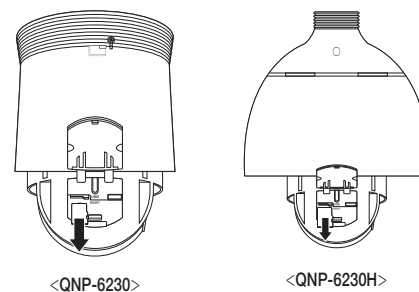
2. Micro SDメモリカードを図中の矢印の方向に差し込みます。

- 上下が反対のままMicro SDメモリカードを無理に挿入しないでください。Micro SDメモリカードが破損する恐れがあります。



Micro SD メモリカードの取り外し

図のように、外に出ているメモリカードの先を軽く押し下げ、スロットからメモリカードを取り出します。



- Micro SD カードを強く押すと、取り出す際にスロットから飛び出してしまう場合があります。
- マイクロSDメモリーカードを取り外す前に、カメラをオフにするか、デバイスを<ストレージ>から<Off>に設定し、[適用]ボタンを押します。
- カメラのスイッチを切るか、データの入っているMicro 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。

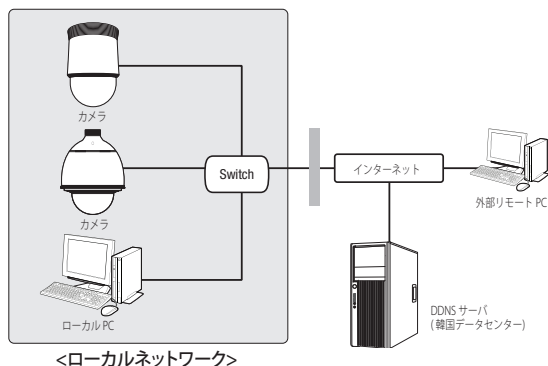
ネットワーク接続と設定

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

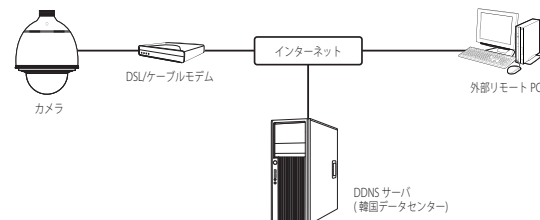
LAN のローカル PC からカメラに接続する

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。(20 ページ)

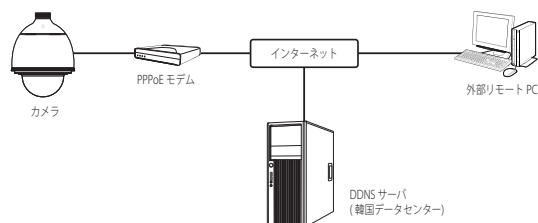
カメラを直接 DHCP ベースの DSL/ケーブルモデムに接続する



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。

PPPoEモデムへのカメラの直接接続

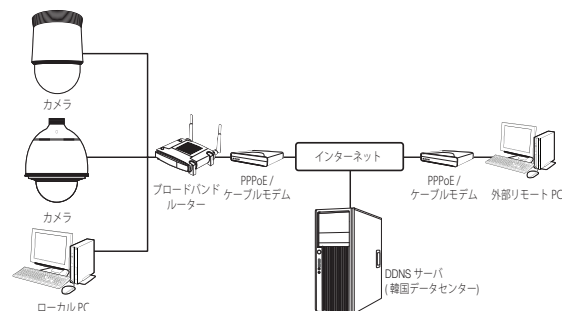


1. ユーザのPCをネットワークカメラに直接接続します。
2. Device Managerを使用してカメラのIPアドレスをユーザーのパソコンからインターネットブラウザで接続できるIPアドレスに変更してください。
3. インターネットブラウザを使用してWeb Viewerと接続します。
4. [設定]ページに移動します。
5. [ネットワーク] - [DDNS]に移動し、DDNSの設定を行います。
6. [Basic] - [IP & ポート] の設定ページへ移動し、IP方式を [PPPoE] に設定し、サービスのIDとパスワードを入力します。
7. PCから取り外したカメラを直接モデムに接続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

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>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。
- VNP ポート: 映像信号の送信の制御に使用され、初期値は4520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。(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
	VNP ポート	4520	4521
	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。

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。

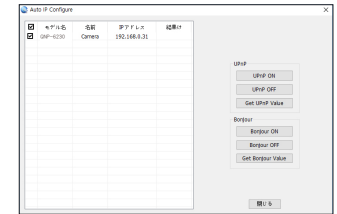
- 動的IP環境の例
 - カメラに接続しているブロードバンドルーターが、DHCPサーバーでIPアドレスを割り当てられている場合
 - DHCPプロトコルを使用して直接カメラをモデムに接続する場合
 - IPがLAN経由で内部DHCPサーバーに割り当てられている場合

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

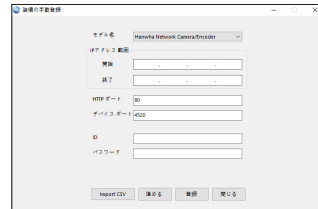
1. 検索リストでIPを自動に設定するカメラをクリックしてください。
2. Device Managerのトップで<+>をクリックしてください。
 - デバイス設定メニューが表示されます。
3. デバイス設定メニューで<Auto IP Configure (IP自動設定)>をクリックしてください。
4. [閉じる]ボタンをクリックしてください。



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、VNP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。



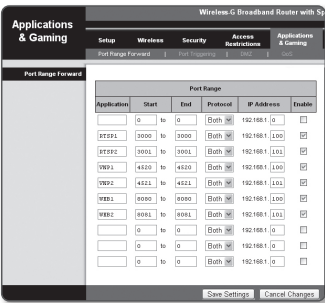
ネットワーク接続と設定

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。

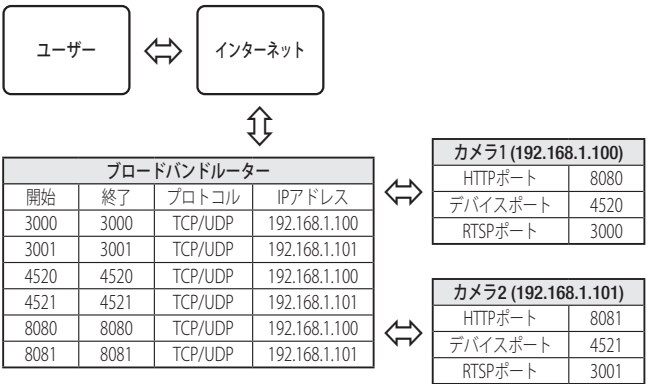


- ポートフォワーディング設定の説明は、CISCO IPのルーターで設定した例示です。
- 設定は、接続しているブロードバンドルーターのモデルによって異なる場合があります。詳細は、該当するルーターのユーザーマニュアルを参照してください。

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>

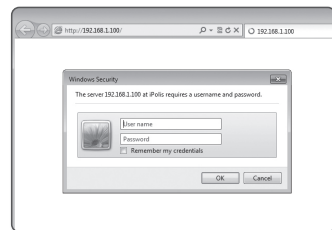


- DDNSを有効にするためには、DDNSのウェブサイト(<http://ddns.hanwha-security.com>)で会員登録をした後、**[My DDNS]>[製品登録]**で先に製品を登録する必要があります。

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。

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。

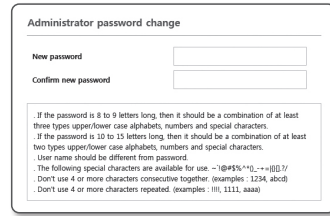
動的なIPベースのデバイスをDDNSサーバーに登録すると、そのデバイスにアクセスするときに、変更されたIPを簡単に確認することができます。

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>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。

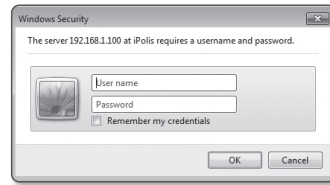


ログイン

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。

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生成条件: 選択するプロファイルはMJPEG Full HD 10fps H.265 FullHD 10fps 2Mbps以上とします。
- 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。[Download 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。

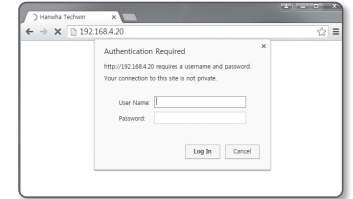
4. Webビューアプラグインの古いバージョンがインストールされている場合は、通知ウィンドウに古いバージョンが削除されますと表示されます。通知ウィンドウが表示されたら、[Yes]をクリックします。
5. [OK] をクリックします。
Webビューアプラグインの古いバージョンは削除されます。
6. Webビューアプラグインのインストールを開始するには [Install] をクリックします。
7. [Finish] をクリックします。
Webビューアプラグインのインストールは完了しました。

■ 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。

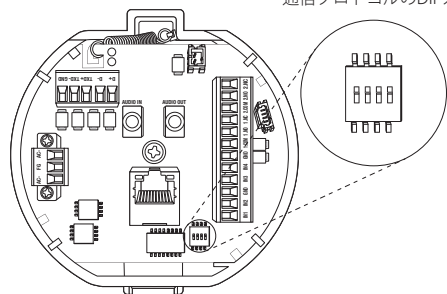
DIPスイッチの設定

プロトコルとID DIPスイッチの設定方法

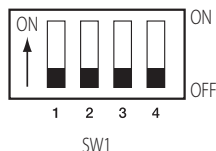
通信スイッチとID DIPスイッチを使用してカメラシステムのさまざまな設定を制御できます。製品を設置する前に、設置環境に合わせてDIPスイッチを設定してください。

1. 設置環境に合わせてスイッチを設定します。詳細な設定情報は、次ページの表を参照してください。
2. スwitchのオン/オフが完全に切り替わっていない場合には、カメラが誤動作する場合があります。設定を終了する前にスイッチを再確認してください。
3. スwitchは、左記の尖った道具で操作すると傷がつく場合がありますのでご注意ください。
4. スwitchは、過度の力を加えて操作すると傷がつく場合がありますのでご注意ください。

通信プロトコルのDIPスイッチ（SW1）



通信プロトコルDIPスイッチの設定 (SW1)



SW1ピン番号	目的
1	送信プロトコル(RS-485)を設定します
2	終了設定1
3	終了設定2
4	リザーブ

• 通信方式の設定

カメラの通信方式を選択します。

	機能	ON	OFF
SW1-#1	転送モードスイッチ	-	RS-485(2ワイヤ)

• 終端設定

カメラとコントローラの間で通信信号が減衰するのを防ぐために、回線の両端の項目について終端設定を行わなければなりません。

カメラ入力位置	SW1-#2	SW1-#3
最長バスの終端	ON	ON
バス上	OFF	OFF



- デフォルト値は、各設定表内で網掛けされています。
- 本製品とともにサードパーティコントローラを使用する場合は、弊社のアフターサービスまたは技術部門までお問い合わせください。

カメラ配線

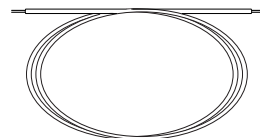
制御信号接続

- RS-485通信



通信ケーブル

カメラがコントローラと通信できるようにするには、RS-485通信回線が必要です。



- 接続には、長さ30メートル以下のケーブルの使用をお勧めします。
- 通信ケーブルはカメラに同梱されていません。

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。 - 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> の <音声入力> チェックボックスを有効にしなければなりません。
<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。
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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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	
zerocoinf	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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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 webservers and takes care of opuload. 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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3. to distribute a copy of a work to the general public or a large number of specific persons.

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 2. to develop and manufacture the Embedded Product containing the Binary Code, and, whether with or without payment, provide the End User with the same and make the Binary Code available to the End User on the Embedded Product.
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2. The Header File; provided that the Header File shall be distributed together with the Binary Code of the Ported Source Code.
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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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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