

ネットワークカメラ

ユーザーマニュアル

XNP-6371RH

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. 柔らかく乾いた布か湿った布で製品表面の汚れた部分を拭き取ります。
(アルコール成分、溶剤、界面活性剤や油分を含む洗剤や化粧品を使用しないでください。製品の変形や損傷につながる恐れがあります。)
7. どの換気孔も塞がないようにして下さい。メーカーの指示に従って取り付けして下さい。
8. ラジエーター、熱レジスタ、あるいは熱を発生するその他の装置（アンプを含む）などの熱源の傍に設置しないで下さい。
9. 分極タイプあるいは接地タイプのプラグの安全目的を必ず守ってください。分極プラグには一方が他方より幅広い2本の足が付きます。接地プラグには2本の足とアース（接地）差込み先が付いています。2本の平たい足あるいは3本めの差込み先はユーザーの安全のために付いています。提供されたプラグがお使いのコンセントに合わない場合には、旧式のコンセントの交換について電気技師にご相談下さい。
10. 特にプラグ、ソケット、機器との接点でコードが踏まれたり引っ張られたりしないよう電源コードを保護してください。
11. メーカーが指定する付属品のみを使用してください。
12. カート、スタンド、三脚、ブラケットはメーカー指定のもの、あるいは製品と一緒に販売されたもののみを使用してください。カートを使用する場合、カートと製品を動かす際には転倒による損傷に注意してください。
13. 雷雨のときまたは長期間使用しない場合は、製品の電源プラグを抜いてください。
14. 全ての修理は資格のあるサービス・スタッフに任せて下さい。修理は電源コードあるいはプラグの損傷、液体をこぼした、または物体を機器内に落としてしまった、機器を雨や湿度にさらしてしまった、正常に機能しない、あるいは機能の低下など、様々な原因で機器が損傷した場合に必要となります。
15. 本製品は、“Class 2”または“LPS”の印がついた、定格24VAC（50/60Hz）、最低4.2Aの電力装置で供給することを目的としています。
16. 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。
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. 24時間 Auto Pan 動作は禁止
22. 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。

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。

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	15	カメラを直接DHCPベースのDSL/ケーブルモデムに接続する
	16	PPPoEモデムへのカメラの直接接続
	16	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
	17	Device Managerを使用する
	17	自動にカメラを検索する
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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 : MS Windows, Mac OS X
- **プラグインフリーのWeb Viewer**
サポートするウェブブラウザ : Google Chrome, MS Edge, Mozilla Firefox(Window 64bitのみ)、Apple Safari(Mac OS Xのみ)
- **プラグインWeb Viewer**
サポートするウェブブラウザ : MS Explorer, Apple Safari (Mac OS Xのみ)
検証済みのOS&ブラウザの詳細バージョン情報は、付録をご参照ください。

推奨SD/SDHC/SDXCメモ리카ード仕様

- 推奨容量 : 4GB～128GB (128GBのSDメモリーカードにはext4ファイルシステムを推奨します。)
- 以下のメーカー製メモ리카ードを使用することをお奨めします:
SD/SDHC/SDXCメモ리카ード (MLCタイプ) : Sandisk、Transcend
- フレームレートが30 fps以下の場合、クラス6以上の仕様のメモ리카ードを使用することをお勧めします。
- フレームレートが31 fps以上の場合、クラス10以上の仕様のメモ리카ードを使用することをお勧めします。

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。

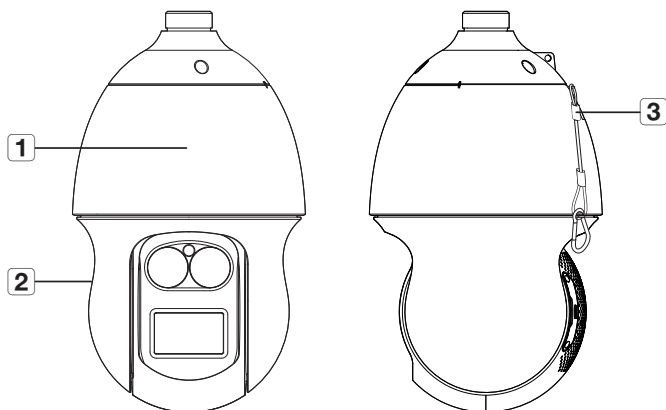
キット内容

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
	本体	1	
	クイックガイド (オプション)	1	
	保証書 (オプション)	1	
	テストモニター用ケーブル	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。
	L型レンチ	1	設置ベースをカメラに取り付けた後で固定す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。

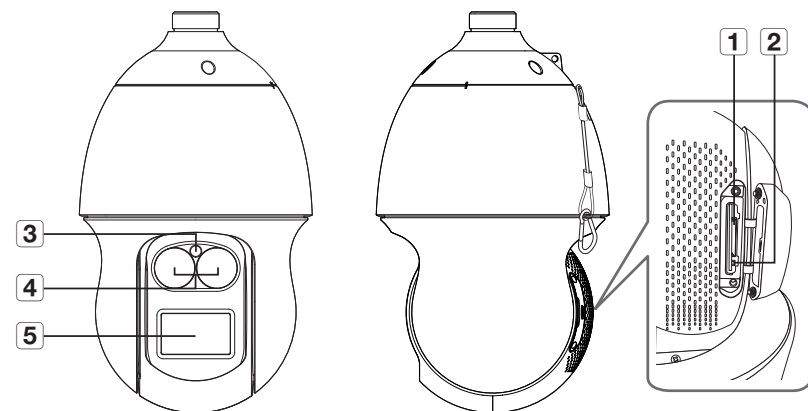
概観

外観



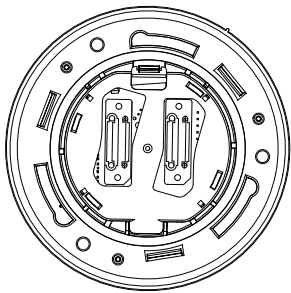
項目	説明
1 メインユニット	内部のPTZ装置を直射日光、雨、または外部の衝撃から保護します。
2 シールドカバー	レンズと本体を保護するためのシールドカバーです。
3 安全ケーブル	ケーブルは、取り付け時の製品落下を防止します。

内部

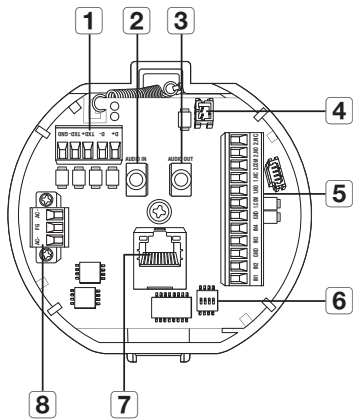


項目	説明
1 SDメモ리카ードの区画	SDメモ리카ードの区画です。 ☑ <SDメモ리카ードの挿入および取り外し>を参照して、SDメモ리카ードの挿入位置を確認してください。(14 ページ)
2 リセット・ボタン	すべてのカメラ設定を工場出荷時のデフォルトに復元します。 約5秒間押し続けてシステムを再起動します。 ■ カメラをリセットすると、DHCPを有効化されるようにネットワーク設定が調整されます。ネットワーク内にDHCPサーバーがない場合は、Device Managerプログラムを用いて基本的なネットワーク設定(IPアドレス、Subnet Mask、Gatewayなど)を再設定してから接続することができます。
3 照度センサー	入射光を検知して、赤外線LEDを制御します。
4 赤外線LED	これらの赤外線LEDは照度センサーによって制御されます。
5 レンズ	カメラのレンズ。

設置ベースの底面図



設置ベースの内部構造

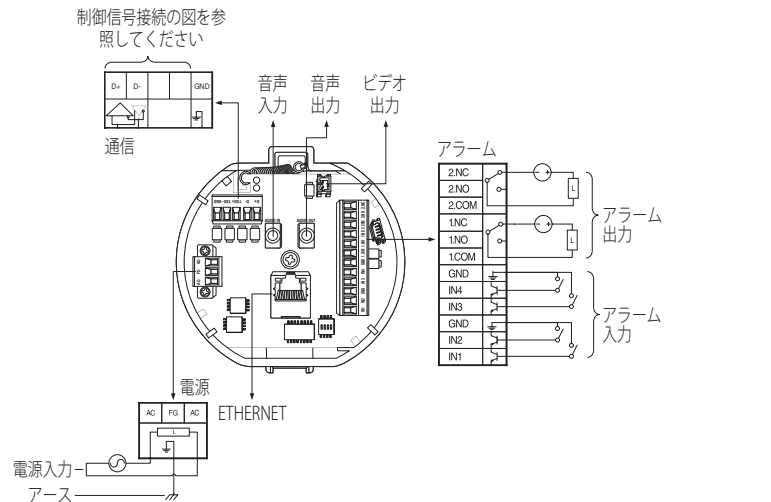


項目	説明
1 COMポート	RS-485通信に使用します。
2 音声入力ポート	音声入力ケーブルの接続に使用します。
3 音声出力ポート	音声出力ケーブルの接続に使用します。
4 ビデオ出力ポート	アナログビデオ出力ポートです。(設置用)
5 アラーム入出力ポート	アラーム入出力ケーブルの接続に使用します。
6 通信設定スイッチ	通信プロトコル(RS-485)を設定し、終了するか指定します。
7 ネットワーク接続	イーサネットケーブルを用いてネットワークと接続するポート
8 電源ポート	電源の接続に使用します。

取付けおよび接続

カメラ配線インタフェースボード

カメラの配線については、下図を参照してください。

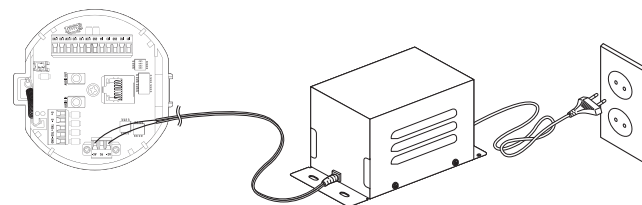


- 設定メニューのN.O.を選択します。
 - センサ入力は、接触型では“ショート”の時、或いはアクティブタイプが“低”レベルの時に作動します。
- 設定メニューからN.C.を選択します。
 - センサ入力は、接触型ではオープンの時、或いはアクティブタイプでは高インピーダンス状態（オープンコレクタ）の時に作動します。
- アラーム出力ターミナルの最大能力は、30V DC/2A、125V AC/0.5Aおよび250V AC/0.25Aです。
- アラーム入力ケーブルおよびアラーム出力ケーブルを接続する際には、各ケーブルを確実にそれぞれの端末に接続してください。
- カメラの容量を超える製品を接続する場合は、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。

定格電力	許容入力電圧	消費電流
AC 24V	AC 22V ~ 26V	6 A

- 本製品は-50℃以下の周辺温度では使用できません。
- 取り付け場所が-50℃の場合、場所によっては解凍できない場合があります。
- 本製品を低温環境に放置した場合、通常の操作状態になるまでに2時間要します。
- IR調光機能のズームは、-40℃以下の環境では速度が落ちる場合があります。
- 本製品が-20℃以下の環境に一定時間さらされた後にオンにする場合は、時刻をリセットしてください。

銅線の抵抗値(20℃ (68°F) の場合)

銅線ゲージ(AWG)	#24(0.22mm ²)	#22(0.33mm ²)	#20(0.52mm ²)	#18(0.83mm ²)
抵抗 (Ω/m)	0.078	0.050	0.030	0.018
電界 (V/m)	0.028	0.018	0.011	0.006
推奨距離 (m)	20以内	30以内	30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。

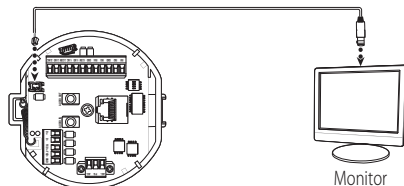
イーサネット接続

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。

取付けおよび接続

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

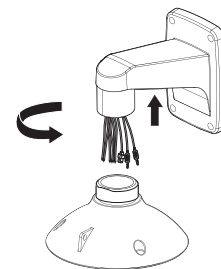
モデル	項目
SBP-300WM1	壁面取付けブラケット
SBP-300WM	
SBP-300CM	天井マウント
SBP-300LM	手すりマウント
SBP-300KM	コーナーマウント
SBP-300PM	ポールマウント

- 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。（12ページ）

ウォールマウントによる設置

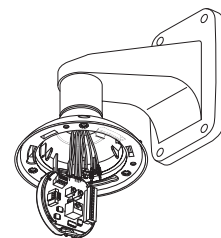
■ 設置ベースをブラケットに固定します

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扉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、9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。

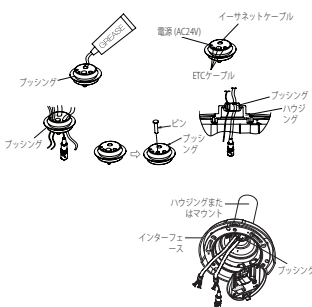
- 設置が完了するまで、カメラをコンセントに接続しないでください。設置の途中で電力を供給すると、火災や製品の破損の原因となる場合があります。



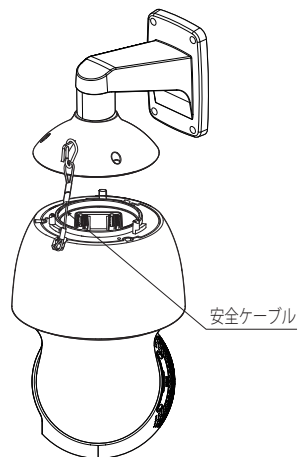
- ケーブル接続方法を確認して取り付けます。

- 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**ブッシング**が用意されています。湿気が入り込まないように、**ブッシング**を使用してハウジングを設置してください。

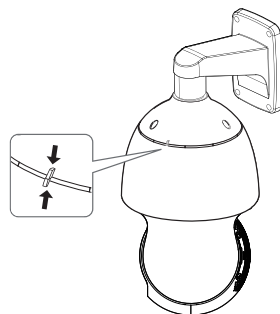
- 組立て前に、**ブッシング**に適量のグリスを塗布してください。次に、**ブッシング**のそれぞれの穴にケーブルを通してください。ケーブルが通っていない穴をピンでふさいでください。
- 次の図に示すように、**ブッシングをハウジングの内側の上部**に取付けます。その際、図に示すように、**ブッシング**に対して均等に圧力をかけて**ハウジング**をしっかりと固定してください。



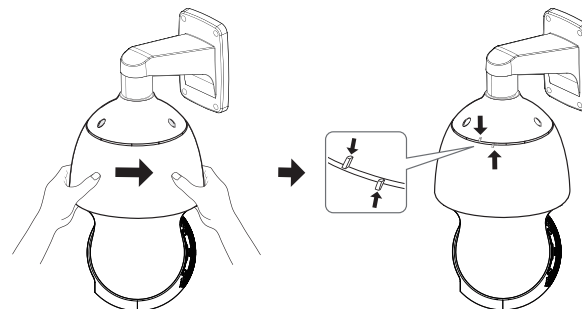
3. カメラの安全ワイヤを設置ベースに接続します。



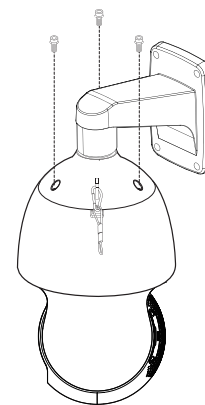
4. カメラと設置ベースの組立て
取付け方向ガイドを合わせて、設置ベースとカメラを組み立てます。



5. カメラの取付け
図に示す通り、カメラの本体を時計回りに回し、上部セクションと下部セクションのリファレンスマークの位置を定めます。



6. カメラと設置ベースの固定
図のように六角ネジを用いてインストールベースとカメラを固定させてください。



取付けおよび接続

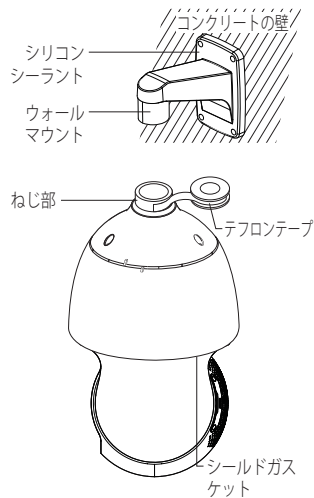
防水に関するご注意

このモデルは屋外での取り付け用の総合ハウジング製品です。

■ 本体と壁のマウントを接続し、壁に取り付ける場合

1. 垂直の壁にウォールマウントを取り付けます。傾斜のある壁に取り付けると、水分が外部ケーブルを通して本体内に広がる場合があります。
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. このガスケットが、シールドカバーがハウジング本体とは分離されて取り付けられているときに、シールドカバーから分離されていないことを確かめてください。
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。

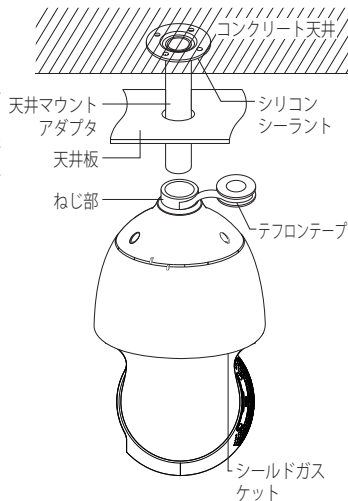
■ インストール面が平らでない場合、適切に封止できるように特に注意してください。



■ 本体と天井の取り付けアダプターを接続し、壁への取り付けを行う場合

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. このガスケットが、シールドカバーがハウジング本体とは分離されて取り付けられているときに、シールドカバーから分離されていないことを確かめてください。
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。

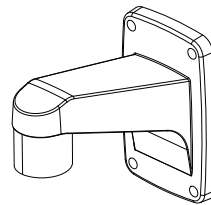


設置のためのオプション付属品

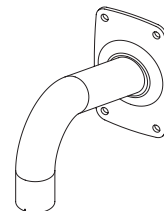
設置を容易にするため、適切なオプション付属品を購入できます。

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)

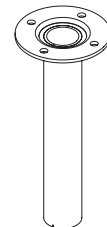


- 壁面取付けブラケット (SBP-300WM)



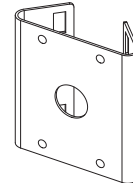
2. カメラを天井に設置する場合

- 天井マウント (SBP-300CM)



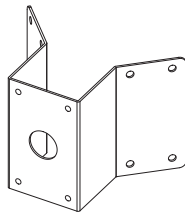
3. 長さ80mm以上の円柱にウォールマウント (SBP-300WM/SBP-300WM1) を設置する場合

- ポールマウント (SBP-300PM)



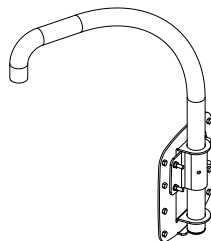
4. 壁面コーナーにウォールマウント (SBP-300WM /SBP-300WM1) を設置する場合

- コーナーマウント (SBP-300KM)

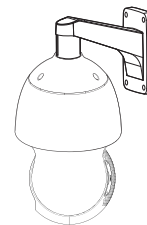


5. 建物の屋根に設置する場合

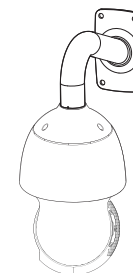
- 手すりマウント (SBP-300LM)



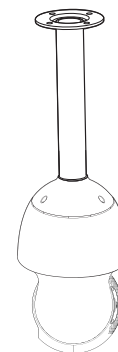
■ マウント用継手



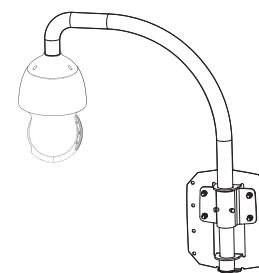
壁面取付けブラケット (SBP-300WM1)



壁面取付けブラケット (SBP-300WM)



天井マウント (SBP-300CM)



手すりマウント (SBP-300LM)

取付けおよび接続

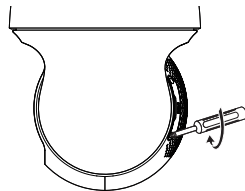
SD メモリカードの挿入および取り外し

- 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。
- 雨の中または湿度の高い環境でSDメモリーカードを取り外さないことをお勧めします。
- カメラ本体、シールドカバー、SDホルダージャケットを組み立てる場合、水分の浸透を防ぐためにねじを締めます。
- SDメモリーカードを取り付ける、または取り外すとき、最初に本体を床に置き、部品の欠品や落下の事故を防ぎます。

SD メモリカードの挿入

1. SDホルダーブラケットの2本のねじを、このドライバーを使って時計回りに回してゆるめます。

- ねじを取り外さないでください。

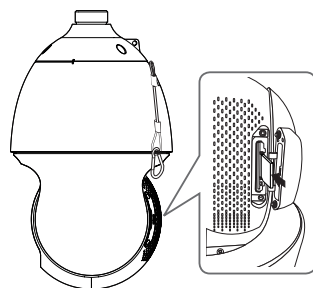


2. SDホルダーブラケットを引き出し、SDメモリカードを図中にあるように矢印の方向へ押しします。

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

3. SDメモリカードを挿入した後、分解のときと逆の手順でカメラを組み立てます。

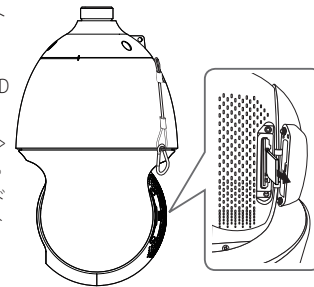
- カメラを組み立てるとき、水分の浸透を防ぐため、ねじをきつく締めます。



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。

- SDメモリカードを除去する時には強く押してから手を離す場合、SDメモリカードが飛び出ることがあるためご注意ください。
- SDメモリカードを除去する前に<ストレージ>からデバイスを<Off>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。



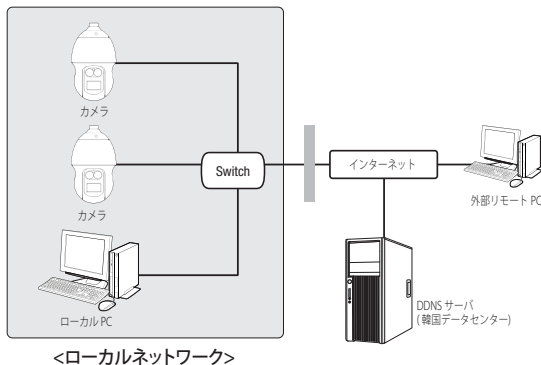
ネットワーク接続と設定

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

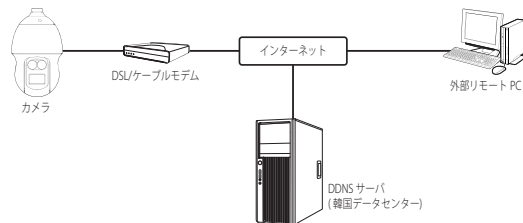
LAN のローカル PC からカメラに接続する

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。(17ページ)

カメラを直接DHCPベースのDSL/ケーブルモデムに接続する

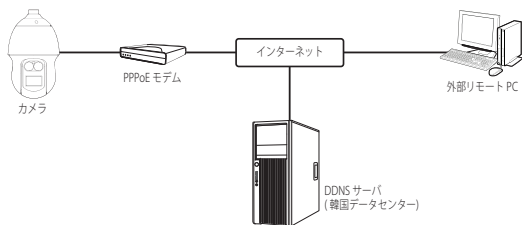


1. ユーザーのPCをネットワークカメラに直接接続します。
2. Device Managerを使用してカメラのIPアドレスをユーザーのパソコンからインターネットブラウザで接続できるIPアドレスに変更してください。
3. インターネットブラウザを使用してWeb Viewerと接続します。
4. [設定]ページに移動します。
5. [ネットワーク] - [DDNS]に移動し、DDNSの設定を行います。
6. [Basic] - [IP & ポート]へ移動し、IP方式を [DHCP] に設定します。
7. PCから取り外したカメラを直接モデムに接続します。
8. カメラを再起動します。

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

ネットワーク接続と設定

PPPoEモデムへのカメラの直接接続

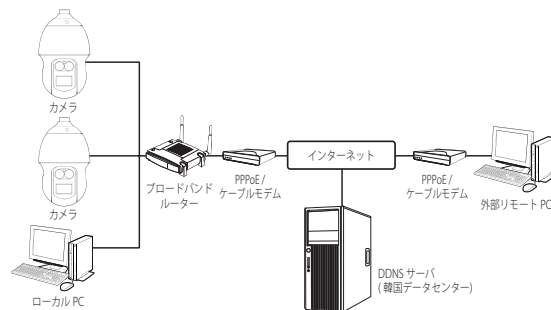


1. ユーザのPCをネットワークカメラに直接接続します。
2. Device Managerを使用してカメラのIPアドレスをユーザーのパソコンからインターネットブラウザで接続できるIPアドレスに変更してください。
3. インターネットブラウザを使用してWeb Viewerと接続します。
4. [設定]ページに移動します。
5. [ネットワーク] - [DDNS]に移動し、DDNSの設定を行います。
6. [Basic] - [IP & ポート] の設定ページへ移動し、IP方式を [PPPoE] に設定し、サービスのIDとパスワードを入力します。
7. PCから取り外したカメラを直接モデムに接続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

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

PPPoE/ケーブルモデムでカメラとブロードバンドルーターを接続する

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



ブロードバンドルーターに接続したローカル PC のネットワーク環境の設定は

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

- 手順: <Network> → <Properties> → <Local Area Connection> → <General> → <Properties> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> または <Use the following IP address>。
 - <Use the following IP address> を選択する場合には、以下の手順を実行します:
 - 例1) ブロードバンドルーターのアドレス (LAN IP) が 192.168.1.1
IP アドレス: 192.168.1.100
サブネットマスク: 255.255.255.0
デフォルト ゲートウェイ: 192.168.1.1
 - 例2) ブロードバンドルーターのアドレス (LAN IP) が 192.168.0.1
IP アドレス: 192.168.0.100
サブネットマスク: 255.255.255.0
デフォルト ゲートウェイ: 192.168.0.1
 - 例3) ブロードバンドルーターのアドレス (LAN IP) が 192.168.xxx.1
IP アドレス: 192.168.xxx.100
サブネットマスク: 255.255.255.0
デフォルト ゲートウェイ: 192.168.xxx.1
- ブロードバンドルーターのアドレスに関しては、製品のユーザガイドを参照してください。
 - ブロードバンドルーターのポートフォワーディングの詳細については、「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。(19ページ)

DEVICE MANAGERを使用する



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

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。(19 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。

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。

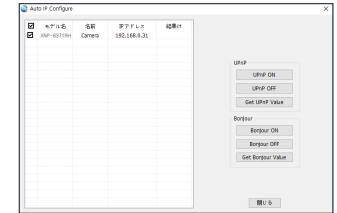
- 動的IP環境の例
 - カメラに接続しているブロードバンドルーターが、DHCPサーバーでIPアドレスを割り当てられている場合
 - DHCPプロトコルを使用して直接カメラをモデムに接続する場合
 - IPがLAN経由で内部DHCPサーバーに割り当てられている場合

- 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、VNP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。

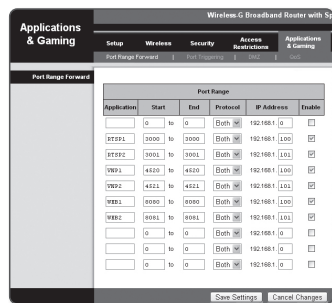


ポートフォワード (ポートマッピング) の設定

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。

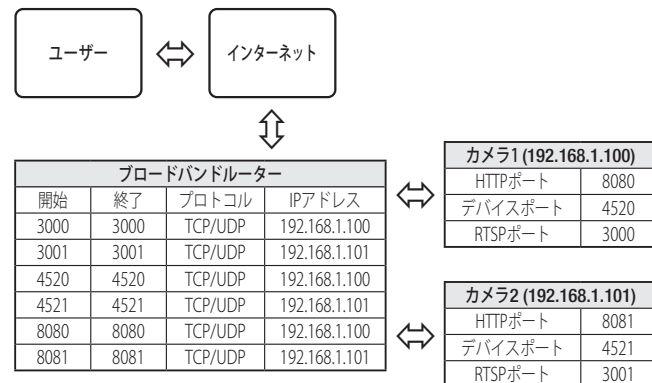


- ポートフォワーディング設定の説明は、CISCO IPのルーターで設定した例示です。
- 設定は、接続しているブロードバンドルーターのモデルによって異なる場合があります。詳細は、該当するルーターのユーザーマニュアルを参照してください。

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。

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>

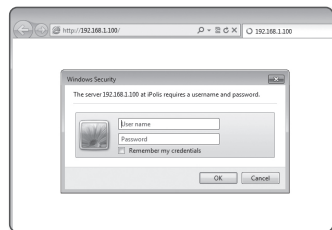


- DDNSを有効にするためには、DDNSのウェブサイト(<http://ddns.hanwha-security.com>)で会員登録をした後、**[My DDNS]>[製品登録]**で先に製品を登録する必要があります。

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

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

その場合、DDNSによるIPアドレスの変更は通知されません。

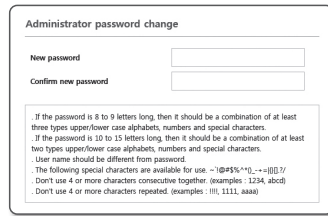
動的なIPベースのデバイスをDDNSサーバーに登録すると、そのデバイスにアクセスするときに、変更されたIPを簡単に確認することができます。

使用するデバイスを<DDNS>サーバーに登録するには、http://ddns.hanwha-security.comにアクセスして最初にデバイスを登録し、Web Viewerの<ネットワーク> - <DDNS>を設定し、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：~!@#\$%^&*()_+=|000?/
- 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。

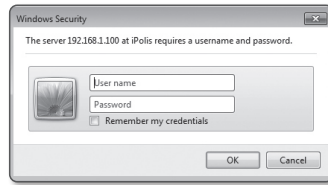


ログイン

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

ウェブビューアーは、既存のプラグイン・ウェブビューアーと新しいフリー・ウェブビューアーが共に内蔵されています。これによってChrome、EDGE、FireFox(Windows 64bitのみ)など、プラグインに対応しない最新のブラウザ環境でもウェブビューアーを使用することができます。プラグインがインストールできるIE、Safariブラウザではプラグインをインストールすることを推奨します。ブラウザ環境によって次のような違いが生じることになります。

- **Chrome、FireFox(Windows 64bitのみ)、EDGE、Safariブラウザ**：プラグインを使用できないブラウザ環境であるが、プラグインフリーウェブビューアーが搭載されウェブビューアーを使用することができます。
 - プラグインフリーウェブビューアーは、映像コーデック&解像度によってプラグインウェブビューアーより性能が低い場合があります。
 - ライブ映像に遅延が発生する場合、プラグインフリープロファイル(H.264のHD(1280x720) 20FPS)を自動作成します。
 - 再生の場合、コーデック&解像度によって遅延が発生することがあります。
 - プラグインフリー機能は、Chromeブラウザに最適化されています。
- **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。

WebViewerプラグインのインストール

IEブラウザでプラグインフリーウェブビューアにアクセスして現在再生されている動画以外のコーデックでライブ要求したり、録画映像の再生などの機能を使用しようとする場合、インストールメッセージが表示されます。この場合、ウェブビューアプラグインをインストールすると、正常に機能を使用することができます。

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。**[Click Here]**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。

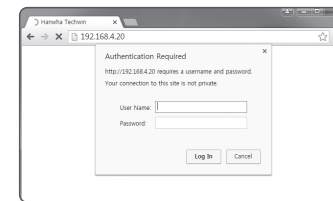
4. Webビューアプラグインの古いバージョンがインストールされている場合は、通知ウィンドウに古いバージョンが削除されますと表示されます。通知ウィンドウが表示されたら、**[Yes]**をクリックします。
5. **[OK]** をクリックします。
Webビューアプラグインの古いバージョンは削除されます。
6. Webビューアプラグインのインストールを開始するには **[Install]** をクリックします。
7. **[Finish]** をクリックします。
Webビューアプラグインのインストールは完了しました。

■ お使いのInternet Explorerで、WebViewer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。どうしても問題が解決しない場合、『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』にカメラのIPまたはドメインを登録してください。

プラグインフリーのWEB VIEWERの使用

Google ChromeやMozilla Firefox、MS Edgeウェブブラウザからカメラにアクセスすると、別途のプラグインはインストールできないが、プラグインをインストールしなくてもカメラ映像をリアルタイムで確認&制御できます。

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・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. 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。

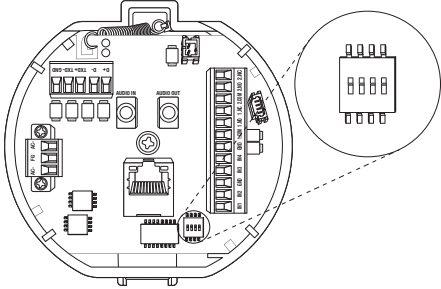
DIPスイッチの設定

プロトコルとID DIPスイッチの設定方法

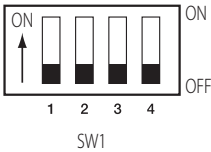
通信スイッチとID DIPスイッチを使用してカメラシステムのさまざまな設定を制御できます。製品を設置する前に、設置環境に合わせてDIPスイッチを設定してください。

- 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	リザーブド
2	終了設定1
3	終了設定2
4	リザーブド

- 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

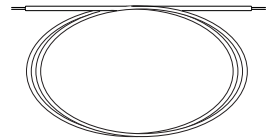
制御信号接続

- 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。

仕様

項目		説明
映像	撮像素子	1/2" 2.17M CMOS
	合計画素数	1952(H) X 1113(V), 2.17M
	有効画素数	1937(H) X 1097(V), 2.12M
	走査システム	プログレッシブスキャン
	最低照度	色:0.01ルクス (1/30秒, F1.5) 白黒:0ルクス (IR LED入)
	S/N比	50dB
	ビデオ出力	CVBS: 1.0Vp-p/75Ωコンポジット、720x480(N)、720x576(P)、取付け用
レンズ	焦点距離 (ズーム倍率)	6~222mm(光学37X)
	最大口径比	F1.5 (広角) ~ F4.6 (望遠)
	画角	H: 59.3°(広角) ~ 1.9°(望遠) / V: 35.8°(広角) ~ 1.1°(望遠)
	最短被写体距離	広角 1.5m、望遠 2m
	焦点制御	自動 / 手動 / ワンショットAF
	レンズタイプ	DC自動絞り
	マウントタイプ	ボードインタイプ
パンニング/ チルト/回転	パンニング範囲	360°エンドレス
	パンニング速度	プリセット: 400°/秒、マニュアル: 0.024°/ 秒 ~ 250°/秒
	チルト範囲	190°(-5° ~ 185°)
	チルト速度	プリセット: 300°/秒、マニュアル: 0.024°/ 秒 ~ 250°/秒
	シーケンス	プリセット(各300)、スウィング、グループ(各6)、トレース、ツアー、オートラン、スケジュール
	プリセット精度	±0.2°
	方位角	はい (E/W/S/N/NE/NW/SE/SW OSD)
	オートトラッキング	Off / On

	項目	説明
操作関係	カメラタイトル	オン/オフ(最大85文字表示) - W/W : 英語/数字/特殊文字 - 共通 : マルチライン(最大5)、カラー(グレー/グリーン/レッド/ブルー/ブラック/ホワイト)、透明、解像度ごとにオートスケール
	昼/夜	自動(ICR)/カラー/白黒/スケジュール
	逆光補正	Off / BLC / HLC / WDR
	ワイドダイナミックレンジ	150デシベル
	コントラスト強調	SSDR (Off / On)
	デジタルノイズリダクション	SSNR5 (2D+3Dノイズフィルタ) (Off / On)
	デジタル手ブレ補正	オフ/オン(ジャイロ内蔵)
	曇り除去 (Optical)	オート / マニュアル / オフ
	モーション検知	Off / On(8, 四角)
	プライバシーマスク	切/入(4点で24個の四角プライバシー領域設定可能) - 色: グレー/緑/赤/青/黒/白 - マスクモード用ズーム率オプション - モザイクオプション
	利得調整	Off / 低 / 中 / 高
	ホワイトバランス	ATW / AWC / 手動 / 屋内 / 屋外(水銀&ナトリウムを含む)
	電子シャッター速度	最小 / 最大 / アンチフリッカー (2 ~ 1/12,000秒)
	デジタルズーム	32x
	画像回転	フリップ / ミラー : オン/オフ
	ビデオ&オーディオ分析	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、音声検知、顔検知、モーション検知、霧検知、サウンド分類
	シリアルインターフェイス	RS-485 - Samsung-T, Pelco-D/P, Panasonic, Bosch, AD, GE, Vicon, Honeywell
	アラーム入出力	入力4個/出力2個(リレー式)
	アラームトリガー	アラーム入力、モーション検出、ビデオ&オーディオ分析、ネットワーク切断

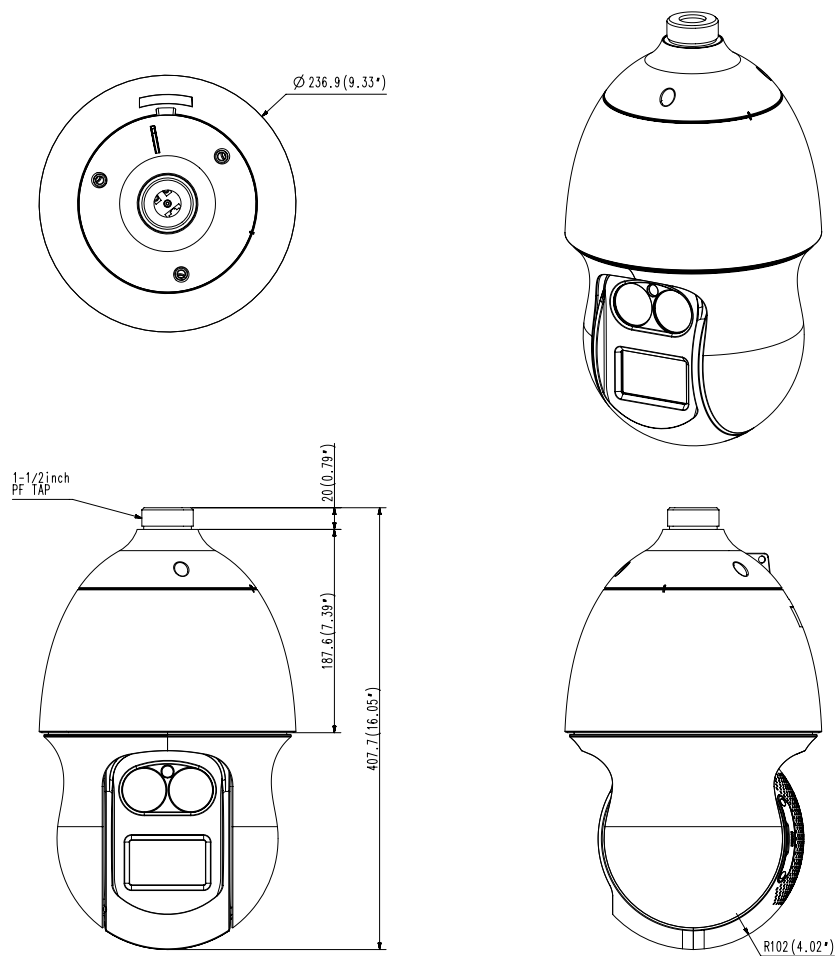
項目		説明
操作関係	アラームイベント	- FTP、Eメール経由のファイルアップロード - E-Mail、TCP、HTTPでの通知 - メモリーまたはNASに録画(アラームトリガー)を行うローカルストレージ(SD/SDHC/SDXC) - 外部出力 - PTZプリセット
	オーディオ入力	選択可能(マイク入力/ライン入力)、供給電圧: 2.5VDC(4mA)、入力インピーダンス: 約2Kオーム
	オーディオ出力	ライン出力(3.5mmモノジャック)、最大出力レベル: 1Vrms
	ピクセル数	対応
ネットワーク	イーサネット	RJ-45 (10/100BASE-T)
	ビデオ圧縮フォーマット	H.264 (MPEG-4 Part 10/AVC) : H.265、モーションJPEG
	解像度	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
	最大フレームレート	H.265/H.264: すべての解像度で最大60fps モーションJPEG: すべての解像度で最大30fps
	スマートコーデック	マニュアルモード(領域ベース: 各5)
	ビデオ品質調整	H.264/H.265/MJPEG: ビットレートレベルコントロール
	ビットレート制御方式	H.264/H.265: CBRまたはVBR、WiseStream付 モーションJPEG: VBR
	ストリーミング機能	マルチストリーミング(最大10プロファイル)
	音声圧縮フォーマット	G.711 u-law /G.726 選択可能 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

項目		説明
ネットワーク	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
	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20ユーザー
	エッジストレージ	SD/SDHC/SDXC(最大 128GB) - 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。 - メモリーが接続されると、カメラにより自動的に検出できます。 - メモリーステータスディスプレイ(準備/エラー/録画中/フォーマット/ロック) NAS(ネットワーク・アタッチト・ストレージ) インスタント録画用ローカルPC(プラグインビューアのみ)
	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 2.0(HTTP API) WiseNet・オープンプラットフォーム
	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ページの言語	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 対応ブラウザ: Google Chrome、MS Edge、Mozilla Firefox(Window 64bitのみ)、Apple Safari 10(Mac OS Xのみ) プラグインWeb Viewer 対応ブラウザ: MS Explorer 11、Apple Safari 10(Mac OS Xのみ)
	集中管理ソフトウェア	SmartViewer

項目		説明
環境関係	動作温度/湿度	-50℃～+55℃ (-58°F～+131°F) / RH90%以下
	保存温度/湿度	-50℃～+60℃ (-58°F～+140°F) / RH90%以下
	保護等級	IP66
	バンドル抵抗	IK10
電気関係	入力電圧/電流	AC24V±10%
	消費電力	90W(ヒーター入時、IR入時), 60W(ヒーター切時、IR入時)
メカニカル	色/材質	ブラック(ヘッド) + アイボリー(本体) / プラスチック+金属
	寸法 (Ø x H)	Ø236.9 x H407.7 mm
	重量	7.1kg

製品ビュー

単位: mm (インチ)



トラブルシューティング

問題	解決策
Windows 10のユーザーがChrome、Firefoxからウェブビューアにアクセスする場合、マイクのボリュームが周期的に変更されます。	マイクドライバーがRealtekドライバーに設定された場合に発生する現象です。マイクドライバーをHigh Definition Audioデバイス(Windowsデフォルトのドライバー)または他社のドライバーに変更してインストールしてください。
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
音声入力の設定されているが、音声録音できません。	<Basic>-<ビデオprofile>で<音声入力>チェックボックスを選択してください。
<アナリティクス>で<モーション検知>を<使用>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。
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。
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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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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Mark Gates

Ajay Tirumala

Jim Ferguson

Jon Dugan

Feng Qin

Kevin Gibbs

John Estabrook

National Laboratory for Applied Network Research

National Center for Supercomputing Applications

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jloup@gzip.org madler@alumni.caltech.edu

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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