SONY

C-727-100-**01**(1)

デジタルビデオカメラ

テクニカルマニュアル

UMC-S3CA

お買い上げいただきありがとうございます。

⚠警告　電気製品は安全のための注意事項を守らないと、
火災や人身事故になることがあります。

この設置説明書には、事故を防ぐための重要な注意事項と製品の取り扱いかたを示してあります。
この設置説明書をよくお読みのうえ、製品を安全にお使いください。お読みになったあとは、
いつでも見られるところに必ず保管してください。

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商標について

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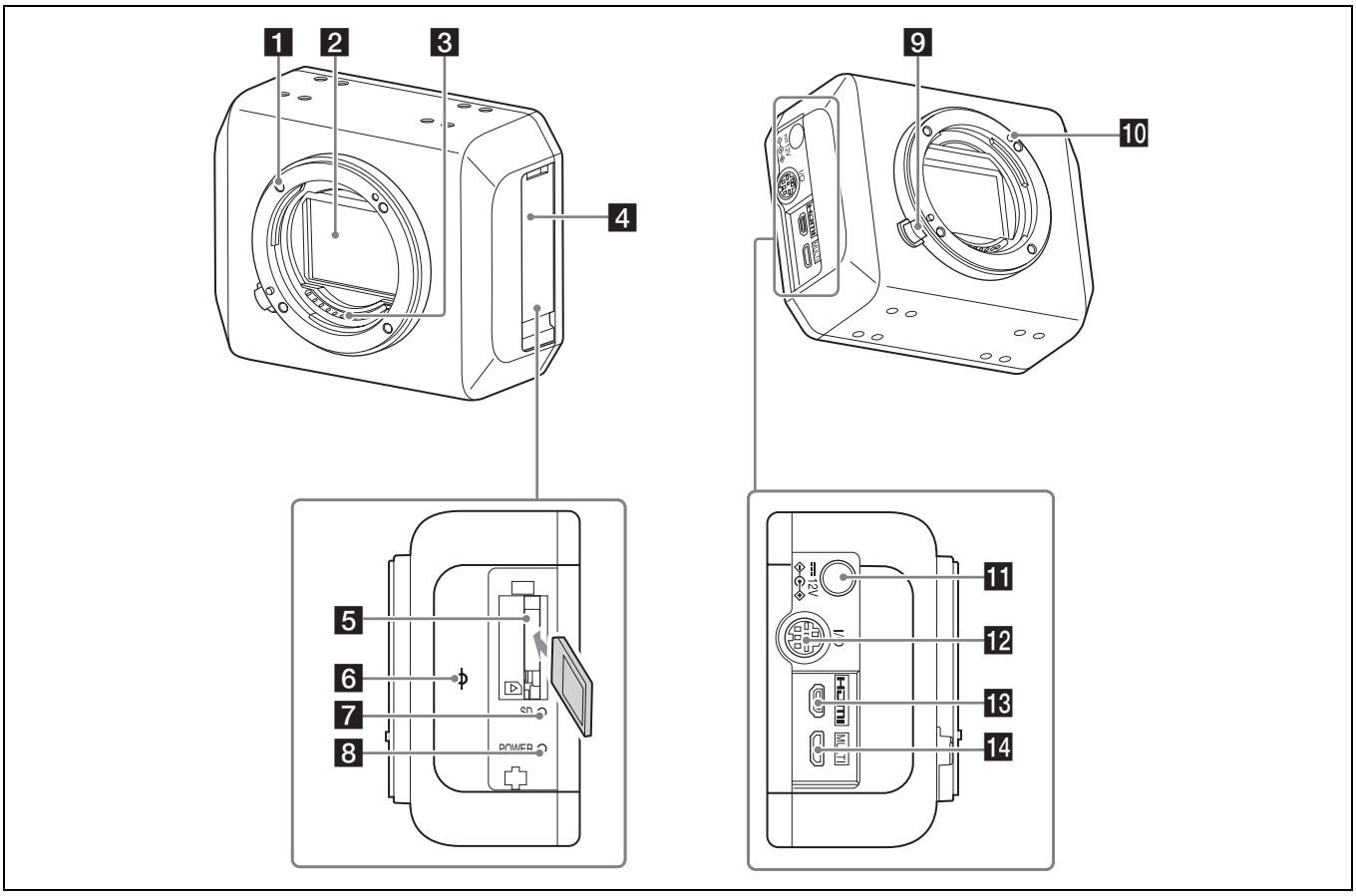
各部の名称と働き



1 マウント
E マウントレンズを取り付けます。

2 イメージセンサー

ご注意

直接手で触れないでください。

3 レンズ信号接点

ご注意

直接手で触れないでください。

4 SD メモリーカードカバー
SD メモリーカードスロットを使用するときに開いてSD メモリーカードを挿入します。

5 SD メモリーカードスロット
別売の SD メモリーカードを装着できます。
SD メモリーカードを装着することで、カメラの画像を SD メモリーカードに記録できます。
装着の際は、図のように端子面を後面側に向けて差し込み、カチッと音がするまで静かに押し込んで確実に装着してください。
取り出すときは SD メモリーカードをカチッと音がするまで押し込んでから取り外してください。
本機は、SDXC 規格および SDHC 規格の SD メモリーカードにのみ対応しています。

対応メモリーカード	静止画	動画
SD メモリーカード	○	–
SDHC メモリーカード	○	–
SDXC メモリーカード	○	○*
microSD メモリーカード	○	–
microSDHC メモリーカード	○	–
microSDXC メモリーカード	○	○*

* 以下の条件をすべて満たす SD メモリーカード
- 容量 64 GB 以上
- SD スピードクラス 10 : CLASS 10 、または UHS スピードクラス 1 : U1 以上、100 Mbps 以上で記録する場合は、UHS スピードクラス 3 : U3 が必要です。

ご注意

- 動作確認済みの SD メモリーカードについては、ソニーの相談窓口にお問い合わせください。
- microSD メモリーカードを本機でお使いの場合は、必ず専用のアダプターに入れてお使いください。
- 取り出すときはアクセスランプが消えていることを確認してください。
  点灯または点滅しているときに取り外すと SD メモリーカード内のデータが破損するおそれがあります。

6 イメージセンサー位置表示

⊖マークがイメージセンサー面の位置となります。本機から被写体までの距離を正確に測るにはこの線の位置を参考にしてください。

7 アクセスランプ

SD メモリーカードに読み書きをしている場合、点滅します。
アクセスランプが点滅しているときは SD メモリーカードを抜いたり、電源コードを抜かないでください。
SD メモリーカード内のデータが破損するおそれがあります。

8 POWER（電源）ランプ

本機が正常に動作している場合はランプが緑色に点灯します。

9 レンズ取り外しボタン

レンズを外すとき押しながら、レンズを回して取り外します。
レンズを取り付けるときは、押さないでください。

10 マウント標点

11 ⎓ 12 V ⟐⟐⟐（DC 電源入力）端子

DC 12 V の電源供給装置へ接続します。
詳細は、「電源への接続」（8 ページ）をご覧ください。
カメラの電源を OFF する際は、I/O 端子またはマルチ／マイクロ USB 端子からコントロールしてください。
電源を OFF にすると、設定が保存されます。

12 I/O 端子

外部からカメラをコントロールできます。
詳細は、「I/O 端子への接続」（8 ページ）をご覧ください。

13 HDMI コネクタ（Type D）

市販の HDMI ケーブルを接続します。

14 マルチ／マイクロ USB 端子

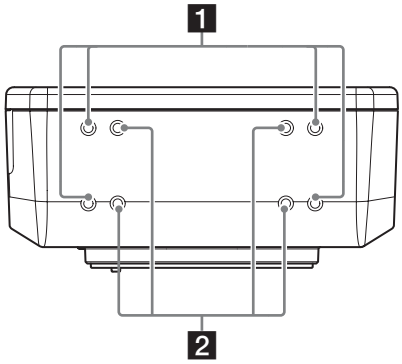
この端子にはマイクロUSB規格に対応した機器をつないで外部からカメラをコントロールできます。

ご注意

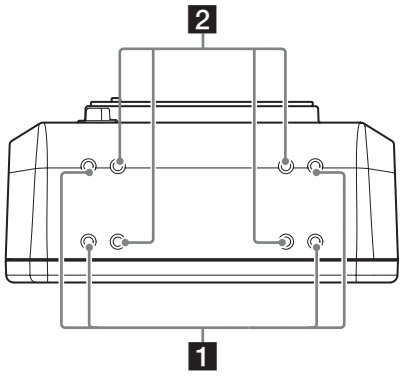
- 次のようなときにはご使用にならないでください。
  －強電界の場所
  －雷が発生しているとき
  －天候が悪いとき
  －ほこりの多い場所
- 屋内で配線する場合、11、12 は、30 m 以内、13 は、5 m 以内での配線でご使用ください。
- 14 は、3 m 以内での配線でご使用ください。
- 11、12、13、14 接続時には、ケーブルの自重や外力で、ケーブルが抜けないように固定することをおすすめします。

上面／下面／後面

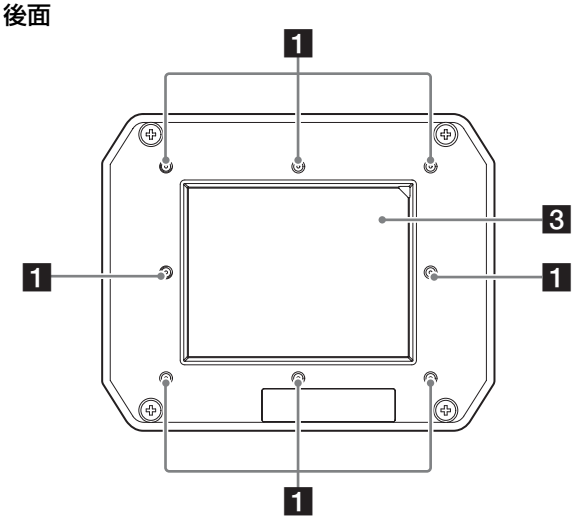
上面



下面



後面



1 カメラ取り付け用ネジ穴

カメラを固定するときに使用します。

ご注意

本機の取り付け面からのねじ込み深さが 3.5 mm のネジを使用してください。
ねじ込み深さが 4 mm を超えないようにしてください。
本機の内部を損傷して故障の原因となることがあります。

2 カメラ取り付けネジ穴／三脚アダプター取り付けネジ穴

三脚を使うときは、この 4 つのネジ穴を使って付属の三脚アダプターを取り付けます。

3 定格ラベル

本機の名称や、電気関係の定格情報が記載されています。

設置

警告

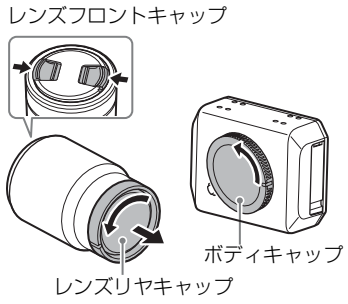
- レンズを太陽に向けて放置しないでください。
  太陽光がレンズを通して機器内部に焦点を結び、火災の原因となることがあります。
- レンズの取り付けは本書に記載されている方法に従って、確実に行ってください。
  取り付け方がゆるいと、レンズが外れて、けがの原因となります。
  1年に一度は、取り付けがゆるんでいないことを点検してください。また、使用状況に応じて、点検の間隔を短くしてください。
- 設置環境やレンズにより十分な性能が得られない場合があります。詳しくはソニーの相談窓口にお問い合わせください。

レンズを取り付ける

レンズの取り付け / 取り外しは、本機の電源を「OFF」にしてから行ってください。

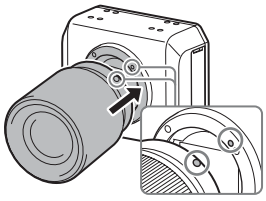
1 本機のボディキャップとレンズの後ろのレンズリヤキャップを外す。

- カメラ内部にゴミやほこりが入らないように、ほこりの少ない場所で素早く行ってください。
- 撮影するときは、レンズ前面のレンズフロントキャップも外してください。



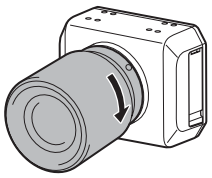
2 レンズと本機の2つの白色の点（マウント標点）を合わせてはめ込む。

- ゴミやほこりが入らないよう、マウントを下向きにして取り付けてください。



3 レンズを軽く本機に押し付けながら、「カチッ」と音がするまで矢印の方向にゆっくり回す。

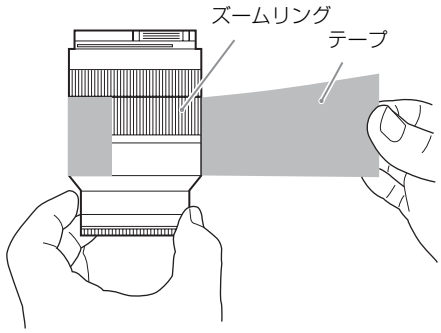
- レンズを斜めに差し込まないでください。



ご注意

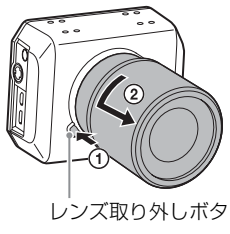
- レンズを取り付けるときは、レンズ取り外しボタンを押さないでください。
- レンズに無理な力を加えないでください。
- レンズを取り付けてカメラを持ち運ぶときは、カメラとレンズの両方をしっかり持ってください。
- ズームやピント合わせなどで繰り出たレンズ部分を持って、カメラを保持しないでください。
- ズームレンズをご使用の場合
  設置環境によりズーム位置が変わる場合があります。
  使用目的に応じてズームリングをテープで貼り、しっかり固定してください。
  推奨テープ:3M社製スコッチ® プラスチックフィルムテープ　品番 471 BLA 50 相当品

ズームリングにテープを一周巻いて固定します。



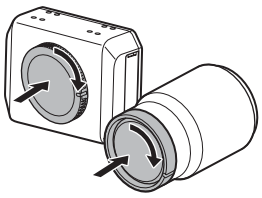
レンズを取り外すには

1 レンズ取り外しボタンを押しながら、レンズを矢印の方向に止まるまで回して取り外す。



2 本機にボディキャップを、レンズの前後にキャップを取り付ける。

- キャップは、ほこりを落としてから取り付けてください。

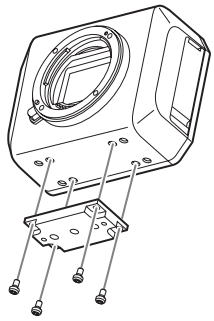


レンズ交換時のご注意

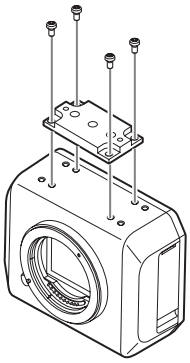
レンズ交換の際に、カメラ内にゴミやほこりが入ってイメージセンサー（光を電気信号に変える部分）表面に付着すると、撮影条件によっては、ゴミやほこりが画像に写り込むことがあります。
レンズの取り付け／取り外しを行う際には、ほこりの少ない場所ですばやく行ってください。

三脚アダプターを取り付ける

カメラの上面または下面のカメラ取り付けネジ穴／三脚アダプター取り付けネジ穴（内側の 4 か所）を使って付属の三脚アダプターを取り付けます。



下面に取り付ける場合



上面に取り付ける場合

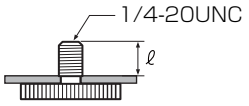
ご注意

- カメラに取り付けるときは、付属のネジ（M3 × 6）を使用してください。（推奨締付けトルク：0.6 N・m）
- 激しく振動する場所や装置への設置、使用は行わないでください。
- 取り付け面は、段差のない平面としてください。

設置についてのご注意

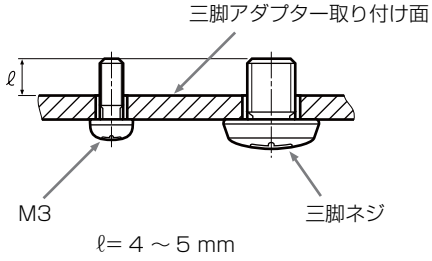
本機の上面または下面の 4 か所の M3 ネジ穴に付属のトライポッドアダプターを取り付けてから、三脚に取り付けます。三脚用ネジは次のものを使用してください。

1/4-20UNC
ℓ= 4.5 ～ 5.5 mm のネジを使用してください。飛び出し量が 5.5 mm を越えないようにしてください。



M3 ネジ（別売）を使用する場合

- 三脚アダプターの取り付け面からの飛び出し量（ℓ）が 4 ～ 5 mm のネジを使用してください。
- 飛び出し量が 5.5 mm を越えないようにしてください。



ℓ= 4 ～ 5 mm

接続

電源への接続

電源ケーブルを 12 V 端子へ接続する。

- 電源の使用電圧範囲は 9 V ～ 13.2 V です。（本機で受ける電圧（受電端電圧）の保証範囲です。）
- 配線には、UL ケーブル（VW-1 style 10368）をご使用ください。
- 本機への電源は 22 VA 以上の供給能力がある電源供給装置をご使用ください。
- 12 V 電源端子は IEC60130-10（JEITA 規格 RC-5320A）TYPE4 に準拠した外部電源プラグをご使用ください。
- **推奨電源ケーブル**

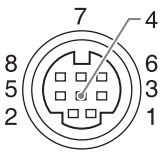
ケーブル（AWG）	#20	#18	#16
最大ケーブル長（m）	10	20	30

I/O 端子への接続

8PIN ミニ DIN ケーブルを I/O 端子へ接続する

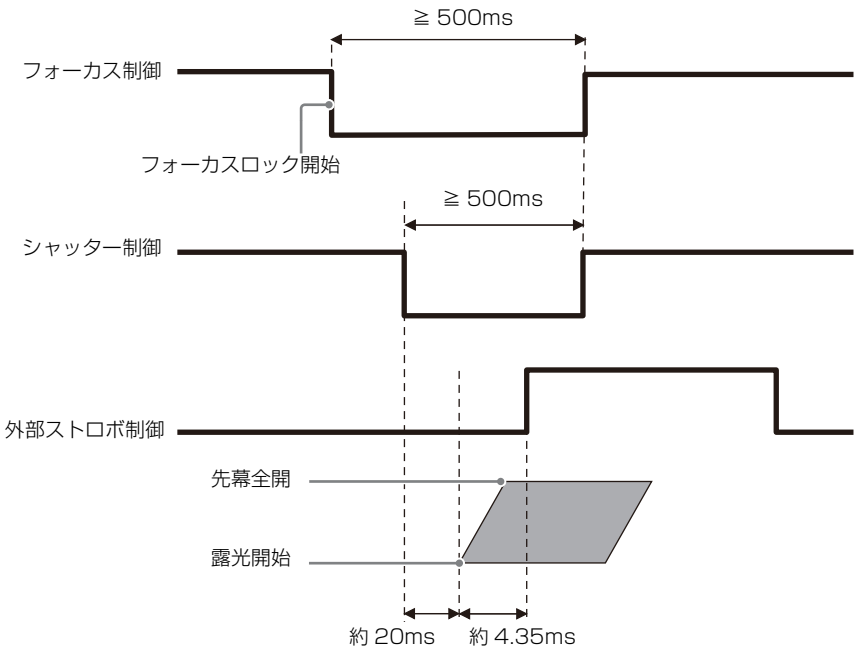
8PIN ミニ DIN に準拠したプラグをご使用ください。

ピン配置図



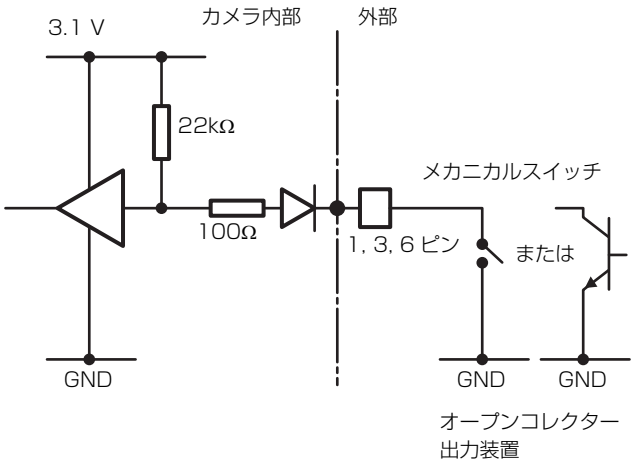
ピン番号	入出力	名称	機能
1	入力	シャッター制御端子	“Low” 入力で撮影を行います
2	出力	外部ストロボ制御端子	メカシャッター使用時に、先幕全開後から露光終了まで “High” 出力します
3	入力	フォーカス制御端子	“Low” 入力でカメラのフォーカスロックを行います
4	GND	GND 端子	“GND” に接続します
5	入力	外部同期端子（内部 75Ω 終端）	同期信号を入力してください （外部同期状態になると POWER ランプの色が橙色に点灯します）
6	入力	電源 OFF/ON 制御端子	“Low” 入力（min:500ms）で OFF ⇔ ON を切り替えます
7	入力	拡張端子	何も接続しないでください
8	GND	GND 端子	“GND” に接続します

推奨タイミング図

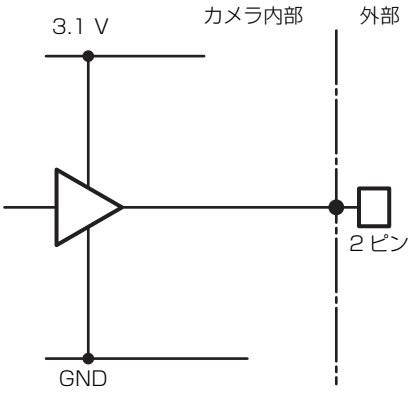


I/O 端子　回路図

1, 3, 6 ピン



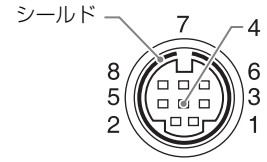
2 ピン



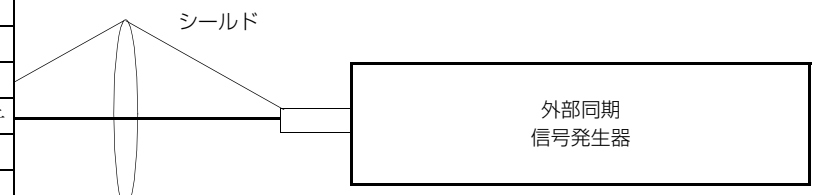
外部同期ケーブルを I/O 端子へ接続する

外部同期信号発生器に接続する場合は、8 PIN ミニ DIN に準拠したプラグを使って変換ケーブルを作製してください。
外部同期を使用する場合は、カメラを外部同期に対応した状態に設定し、外部同期信号を入力してください。
スター接続でご使用ください。

ピン配置図

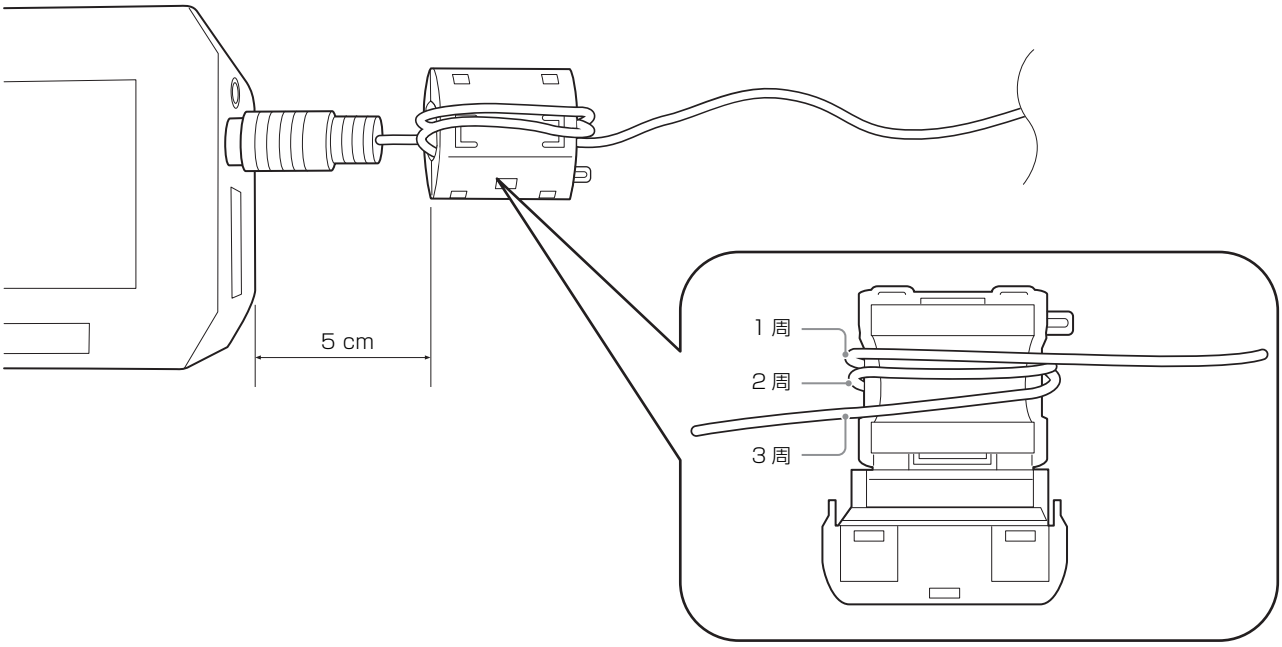


ピン番号	名称
1	
2	
3	
4	GND
5	外部同期端子
6	
7	
8	GND
シールド	GND



ご注意

- シールドタイプの 75Ω 同軸ケーブルを使用してください。
- カメラの GND と信号発生器の GND を接続してください。
- 外部環境からのノイズで誤動作する場合、付属のフェライトコアをご使用いただくと、症状が軽減される場合があります。
  - フェライトコアの位置は本体から 5 cm 以内になるように取り付けてください。
  - フェライトコアにケーブルを 3 周巻き付けてください。
  - ケーブルはフェライトコアとの隙間が空かないようにぴったり巻いてください。



外部同期に対応した設定と入力信号

	動画モード時の記録設定	入力可能な外部同期信号
4K モード	3,840 × 2,160（29.97P, 100 Mbps）	1,920 × 1,080/59.94i
	3,840 × 2,160（29.97P, 60 Mbps）	720 × 486/59.94i（NTSC）
FHD モード	1,920 × 1,080（59.94P, 50 Mbps）	
	1,920 × 1,080（29.97P, 50 Mbps）	
4K モード	3,840 × 2,160（25P, 100 Mbps）	1,920 × 1,080/50i
	3,840 × 2,160（25P, 60 Mbps）	720 × 576/50i（PAL）
FHD モード	1,920 × 1,080（50P, 50 Mbps）	
	1,920 × 1,080（25P, 50 Mbps）	
4K モード	3,840 × 2,160（23.98P, 100 Mbps）	1,920 × 1,080/47.95i（23.98PsF）
	3,840 × 2,160（23.98P, 60 Mbps）	
FHD モード	1,920 × 1,080（23.98P, 50 Mbps）	

次の場合、外部同期は対応していません。

- 動画モード時の記録設定が1,920 × 1,080（119.88P, 100 Mbps）、1,920 × 1,080（100P, 100 Mbps）、1,920 × 1,080（119.88P, 60 Mbps）、1,920 × 1,080（100P, 60 Mbps）のとき。
- 静止画モード、ハイフレームモードに設定されているとき。

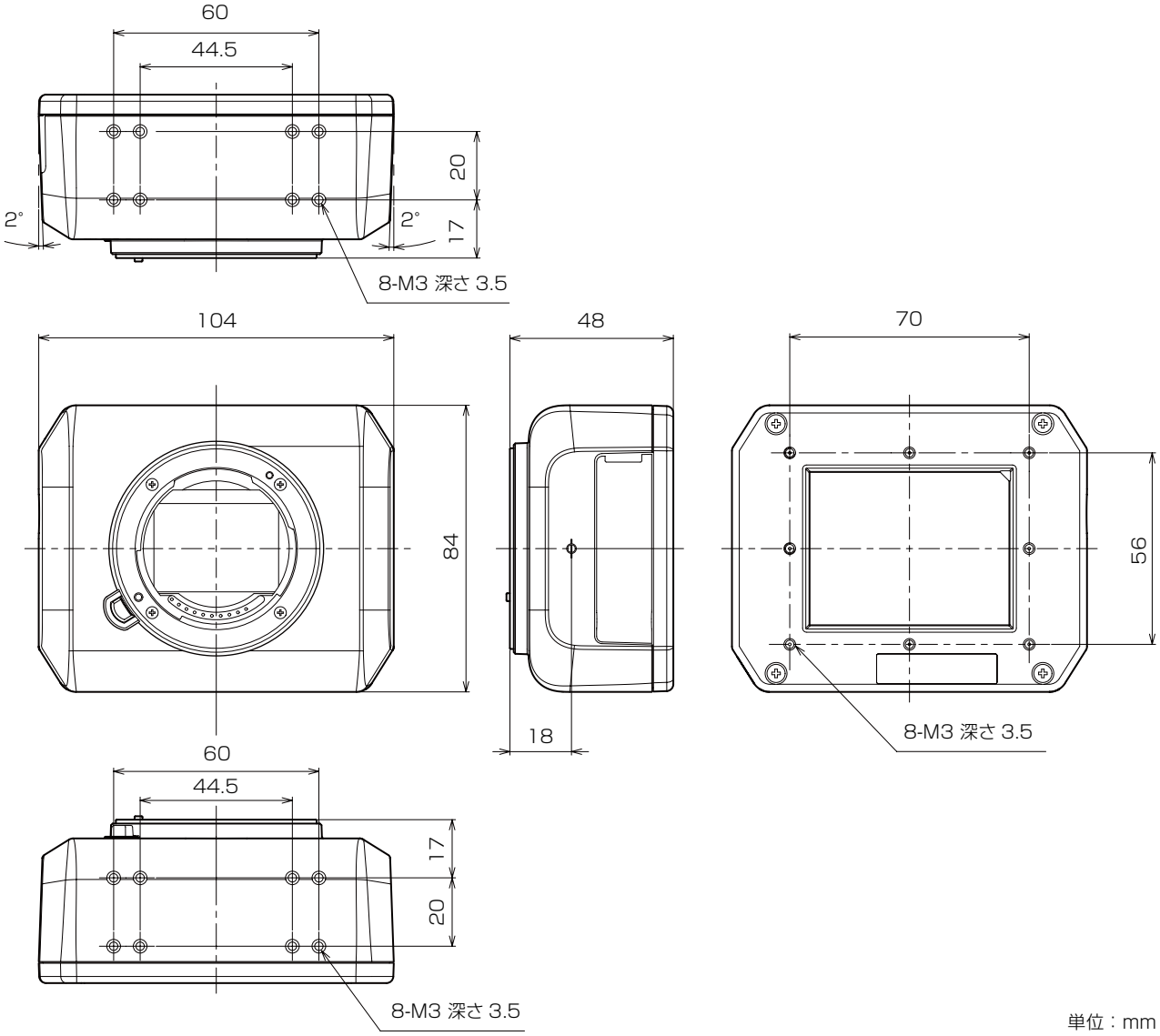
ご注意

- 外部同期信号を入力後、外部同期状態に変わるまで設定変更は行わないでください。
- 外部同期信号が不安定な場合は、外部同期状態になりません。
- サブキャリアは同期しません。
- 次の場合、画像やデータなどが乱れて誤動作となる恐れがあります。
  - 入力可能な外部同期信号以外を入力したとき。
  - 外部同期が非対応の場合に外部同期信号を入力したとき。
  - 動画記録中に外部同期信号を変更したとき。
    変更する場合は、記録を停止したのち再度信号を入力してください。

主な仕様

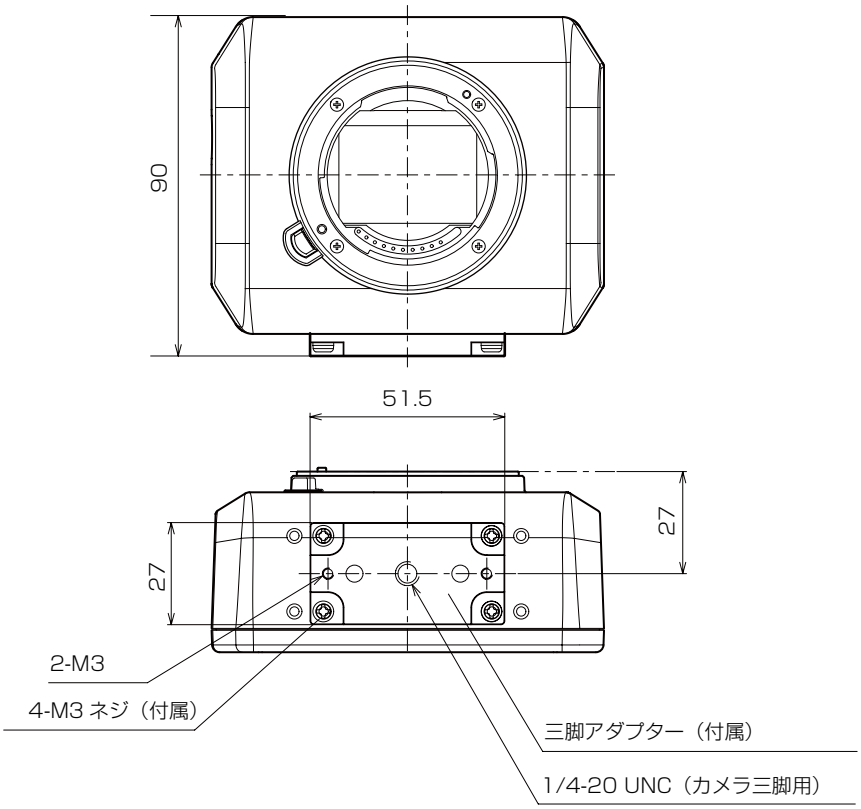
カメラ	
イメージセンサー	35mm フルサイズ "Exmor" CMOS センサー
有効画素数	約 1,220 万画素
レンズタイプ	E マウントレンズ（オプション）
静止画	
記録方式	JPEG（DCF Ver.2.0、Exif Ver.2.3、MPF Baseline）準拠、 RAW（ソニー ARW 2.3 フォーマット）
解像度（3：2）	L: 4,240 × 2,832（12M）、M: 2,768 × 1,848（5.1M）、S: 2,128 × 1,416（3.0M）
解像度（16：9）	L: 4,240 × 2,384（10M）、M: 2,768 × 1,560（4.3M）、S: 2,128 × 1,200（2.6M）
ビデオ	
記録方式	MPEG-4 AVC/H.264 XAVC S ver.1.0 規格準拠 映像：MPEG-4 AVC/H.264
4K モード	3,840 × 2,160（29.97P, 100 Mbps） 3,840 × 2,160（25P, 100 Mbps） 3,840 × 2,160（23.98P, 100 Mbps） 3,840 × 2,160（29.97P, 60 Mbps） 3,840 × 2,160（25P, 60 Mbps） 3,840 × 2,160（23.98P, 60 Mbps）
FHD モード	1,920 × 1,080（119.88P, 100 Mbps） 1,920 × 1,080（100P, 100 Mbps） 1,920 × 1,080（119.88P, 60 Mbps） 1,920 × 1,080（100P, 60 Mbps） 1,920 × 1,080（59.94P, 50 Mbps） 1,920 × 1,080（50P, 50 Mbps） 1,920 × 1,080（29.97P, 50 Mbps） 1,920 × 1,080（25P, 50 Mbps） 1,920 × 1,080（23.98P, 50 Mbps）
ハイフレームモード	1,920 × 1,080（29.97P, 16 Mbps） 1,920 × 1,080（25P, 16 Mbps） 1,920 × 1,080（23.98P, 12 Mbps）
インターフェース	
映像出力	HDMI（type D）× 1
マルチ／マイクロ USB 端子	USB 通信　Hi-Speed USB（USB 2.0）× 1
I/O 端子	8PIN ミニ DIN　凹× 1
カードスロット	SD メモリーカードスロット（SDHC/SDXC メモリーカード対応）× 1
一般	
電源	DC 12 V　− 25% + 10%（9 V ～ 13.2 V）
消費電力	最大約 19 W（レンズ込み）
使用温度	0 ℃ ～ 45 ℃
保管温度	− 20 ℃～+ 60 ℃
動作湿度	20 % ～ 80 %（結露なきこと）
保管湿度	20 % ～ 80 %（結露なきこと）

カメラ本体の外形寸法（直径×高さ）
［記載の外形寸法は、おおよその数値です。］

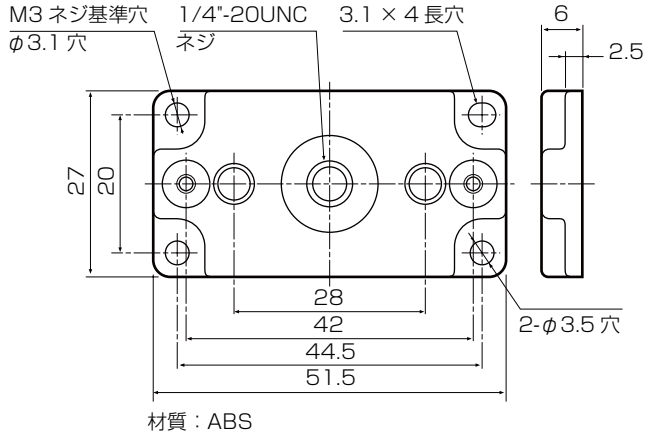


単位：mm

三脚アダプターを取り付けたときの外形寸法（直径×高さ）
[記載の外形寸法は、おおよその数値です。]



三脚アダプターの外形寸法（直径×高さ）
[記載の外形寸法は、おおよその数値です。]



単位：mm

質量	約 395 g（カメラ本体のみ）
付属品	三脚アダプター（1）、三脚アダプター固定用ネジ（4）、安全のために（1）、 フェライトコア（1）

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libnl-headers

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