

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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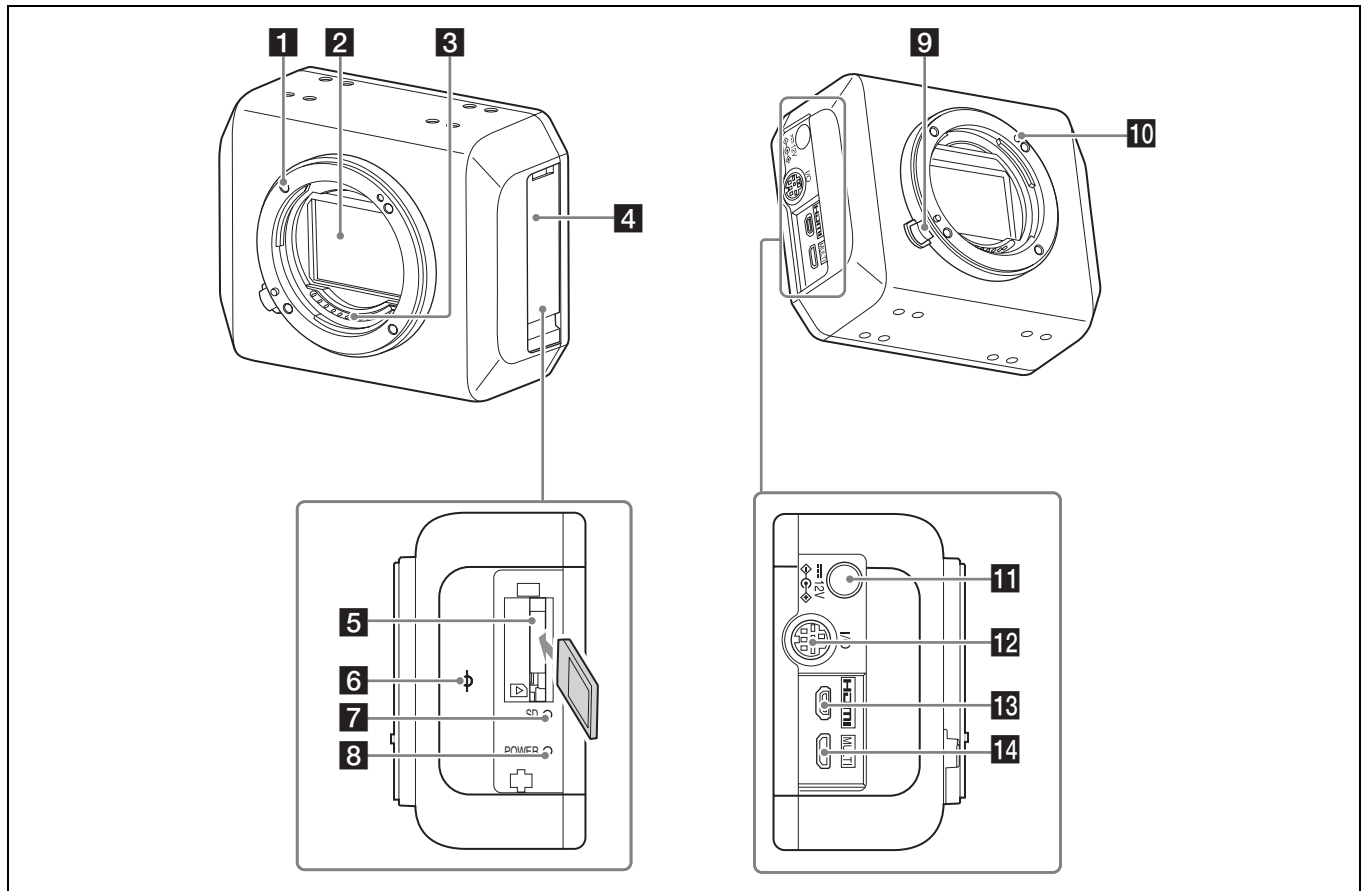
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商標について

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- ・ Adobe および Adobe Reader、Adobe Flash は、Adobe Systems Incorporated（アドビシステムズ社）の商標です。
- ・ SD、microSD は SD-3C、LLC の商標です。

その他、本書で登場するシステム名、製品名は、一般に各開発メーカーの登録商標あるいは商標です。なお、本文中で ®、™ マークは明記しておりません。

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:CLASS10、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 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)

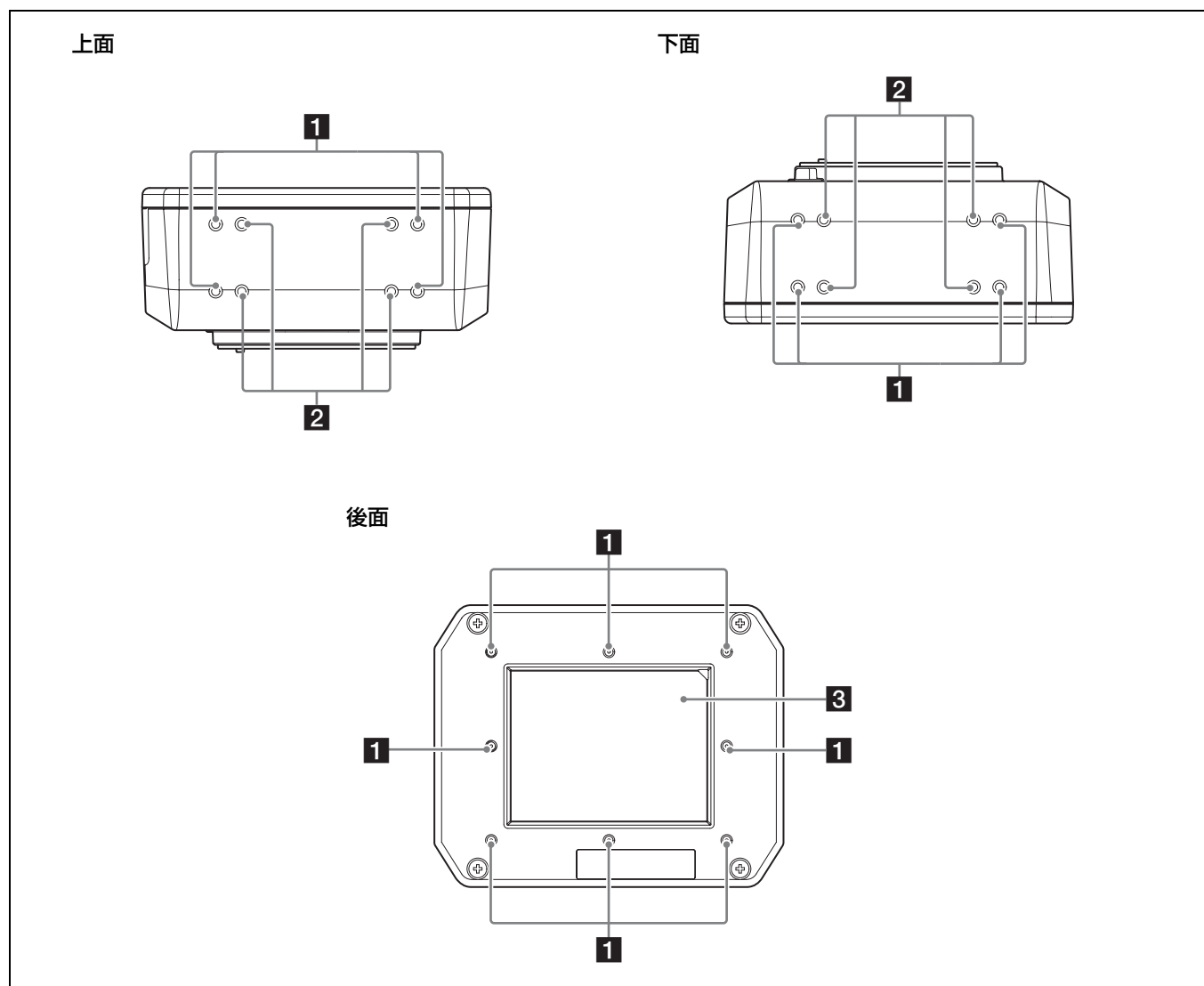
市販の HDMI ケーブルを接続します。

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。



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

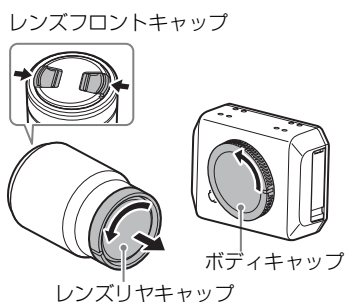
- レンズを太陽に向けて放置しないでください。
太陽光がレンズを通して機器内部に焦点を結び、火災の原因となることがあります。
- レンズの取り付けは本書に記載されている方法に従って、確実に行ってください。
取り付け方がゆるいと、レンズが外れて、けがの原因となります。
- 1年に一度は、取り付けがゆるんでいないことを点検してください。また、使用状況に応じて、点検の間隔を短くしてください。
- 設置環境やレンズにより十分な性能が得られない場合があります。詳しくはソニーの相談窓口にお問い合わせください。

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。

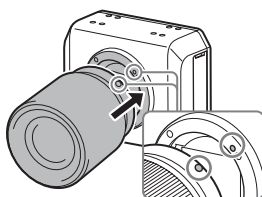
- 1 本機のボディキャップとレンズの後ろのレンズリヤキャップを外す。

- 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。



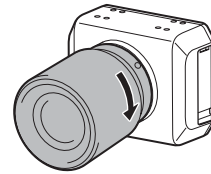
- 2 レンズと本機の2つの白色の点（マウント標点）を合わせてはめ込む。

- 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。

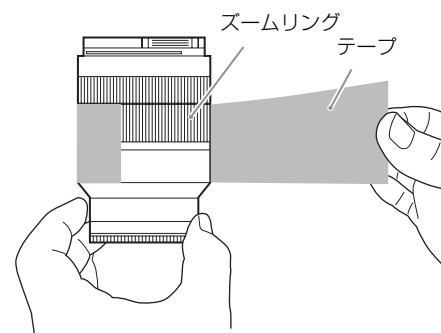
- レンズを斜めに差し込まないでください。



ご注意

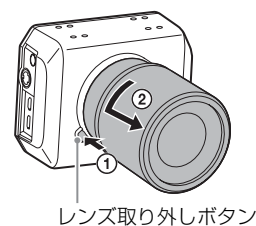
- レンズを取り付けるときは、レンズ取り外しボタンを押さないでください。
- レンズに無理な力を加えないでください。
- レンズを取り付けてカメラを持ち運ぶときは、カメラとレンズの両方をしっかり持ってください。
- ズームやピント合わせなどで繰り出したレンズ部分を持って、カメラを保持しないでください。
- ズームレンズをご使用の場合
設置環境によりズーム位置が変わる場合があります。
使用目的に応じてズームリングをテープで貼り、しっかり固定してください。
推奨テープ: 3M 社製スコッチ® プラスチックフィルムテープ 品番 471 BLA 50 相当品

ズームリングにテープを一周巻いて固定します。



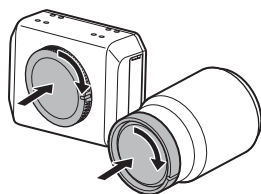
レンズを取り外すには

- 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。



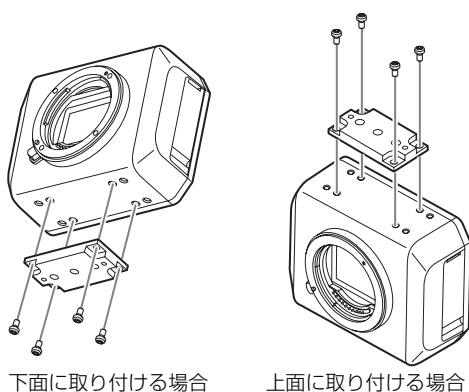
レンズ交換時のご注意

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。



ご注意

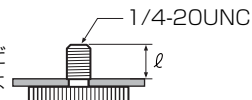
- カメラに取り付けるときは、付属のネジ（M3 × 6）を使用してください。（推奨締付けトルク：0.6 N・m）
- 激しく振動する場所や装置への設置、使用は行わないでください。
- 取り付け面は、段差のない平面としてください。

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。

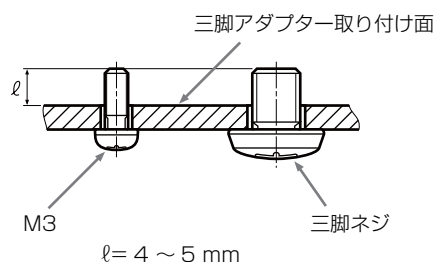
1/4-20UNC

$\ell = 4.5 \sim 5.5$ 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。



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

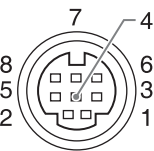
ケーブル（AWG）	#20	#18	#16
最大ケーブル長（m）	10	20	30

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

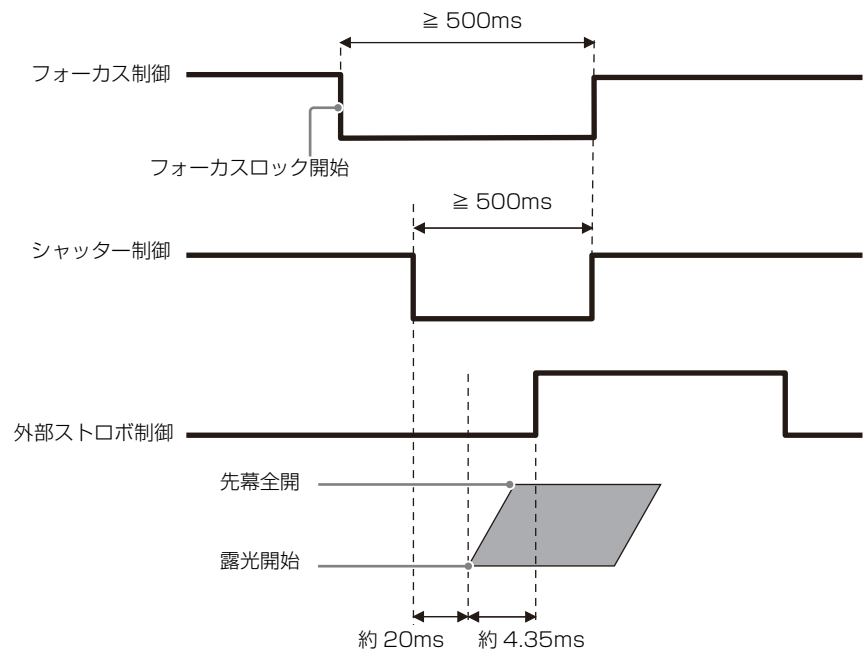
8PIN ミニ DIN に準拠したプラグをご使用ください。

ピン配置図



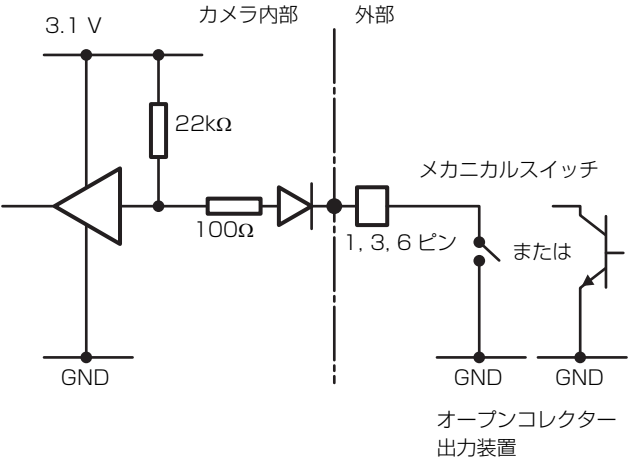
ピン番号	入出力	名称	機能
1	入力	シャッター制御端子	“Low” 入力で撮影を行います
2	出力	外部ストロボ制御端子	メカシャッター使用時に、先幕全開後から露光終了まで “High” 出力します
3	入力	フォーカス制御端子	“Low” 入力でカメラのフォーカスロックを行います
4	GND	GND 端子	“GND” に接続します
5	入力	外部同期端子（内部 75Ω 終端）	同期信号を入力してください (外部同期状態になると POWER ランプの色が橙色に点灯します)
6	入力	電源 OFF/ON 制御端子	“Low” 入力（min:500ms）で OFF ⇄ ON を切り替えます
7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

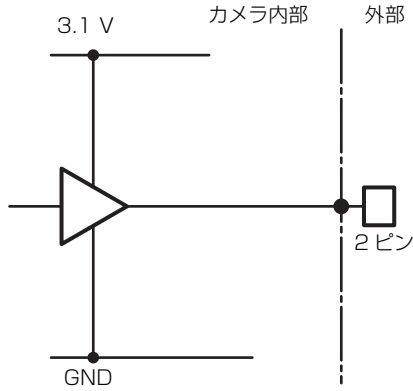


I/O 端子 回路図

1, 3, 6 ピン



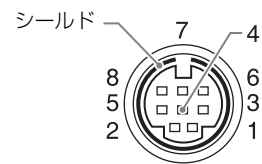
2 ピン



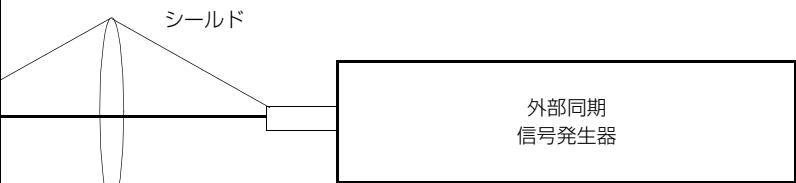
外部同期ケーブルを I/O 端子へ接続する

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

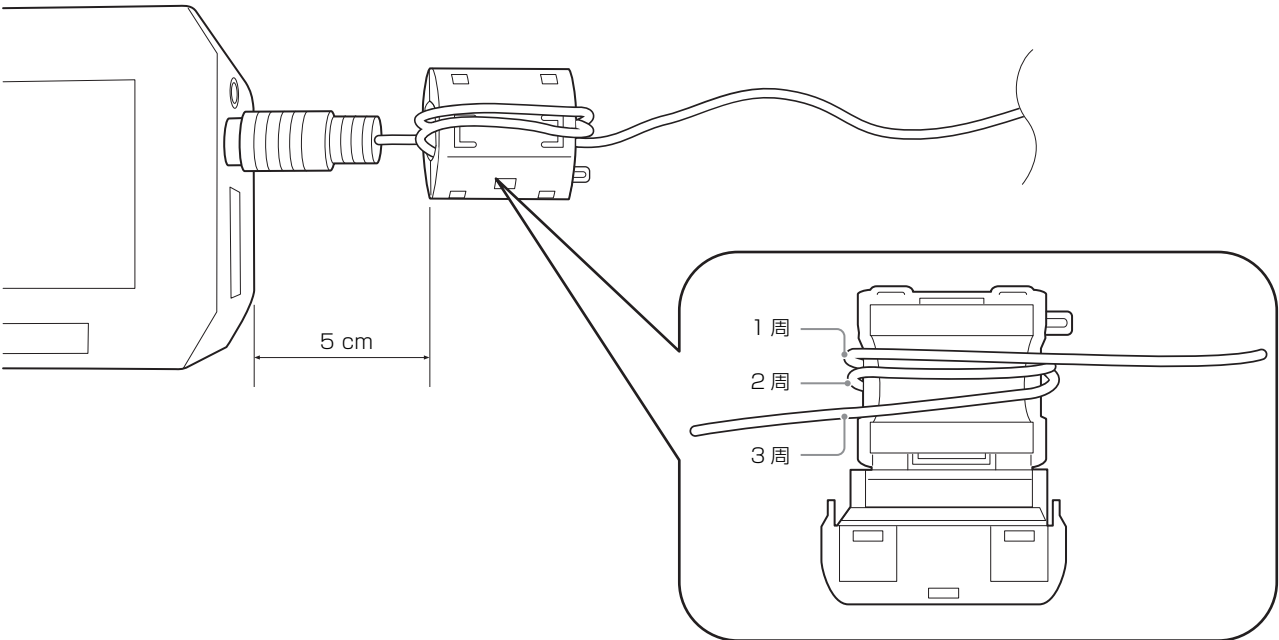


ピン番号	名称
1	
2	
3	
4	GND
5	外部同期端子
6	
7	
8	GND
シールド	GND



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。

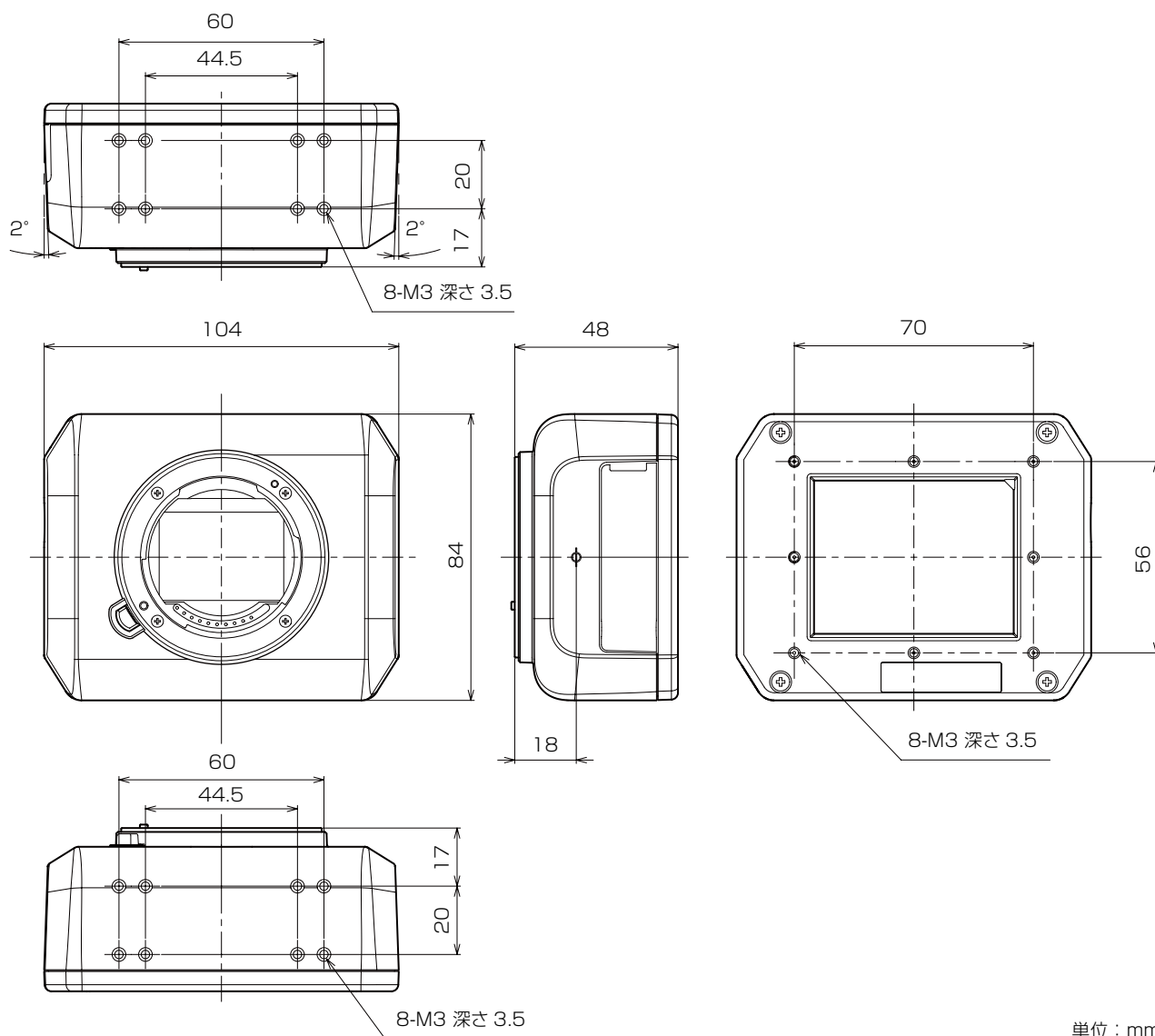
ご注意

- 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

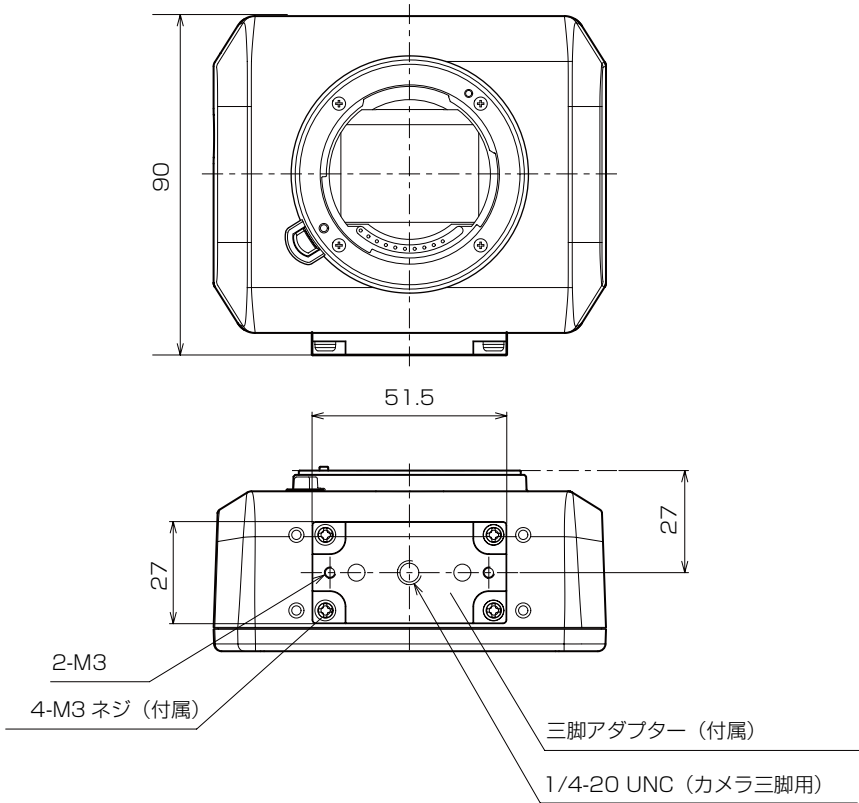
カメラ	
イメージセンサー	35mm フルサイズ "Exmor" CMOS センサー
有効画素数	約 1,220 万画素
レンズタイプ	E マウントレンズ (オプション)
静止画	
記録方式	JPEG (DCF Ver.2.0、Exif Ver.2.3、MPF Baseline) 準拠、RAW (ソニー ARW 2.3 フォーマット)
解像度 (3:2)	L: 4,240 × 2,832 (12M)、M: 2,768 × 1,848 (5.1M)、S: 2,128 × 1,416 (3.0M)
解像度 (16:9)	L: 4,240 × 2,384 (10M)、M: 2,768 × 1,560 (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 °C ~ 45 °C
保管温度	- 20 °C ~ + 60 °C
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。]

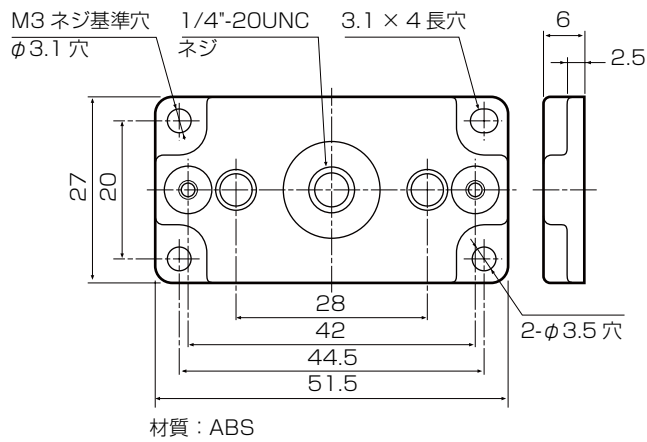


単位：mm

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）

本機の仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

ライセンスについて

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ソースコードは、Web で提供しております。

ダウンロードする際には、以下の URL にアクセスしてください。
<http://oss.sony.net/Products/Linux/>

なお、ソースコードの中身についてのお問い合わせはご遠慮ください。

オープンソースソフトウェアのライセンスについて

ライセンス内容に関しては下記内容をご一読ください。

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 - (イ) 指定デバイス及びその構成部分の稼働状況
 - (ウ) 指定デバイス、許諾ソフトウェア、許諾ソフトウェアに関連するコンテンツ又は対象外ソフトウェアの構成情報
 - (エ) 指定デバイス、許諾ソフトウェア、許諾ソフトウェアに関連するコンテンツ又は対象外ソフトウェア、若しくはそれらの使用状況、使用頻度情報（お客様がどの機能を稼働状態にしたか及び関連する統計データを含みます）
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 - (イ) 許諾ソフトウェアのアップデート版 / アップグレード版を提供するための許諾ソフトウェアの機能の管理
 - (ウ) ソニー、ソニーの関連会社又は第三者の提供する製品、ソフトウェア及びサービスの開発・性能向上
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第10条（著作権保護及び自動アップデート）

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2. お客様は、お客様がソニー又はソニーの指定する第三者（ソニーの関連会社を含む）のサーバーに指定デバイスを接続する際、次の各号に同意するものとします。
 - (ア) 許諾ソフトウェアのセキュリティ機能の向上、エラーの修正等の目的で許諾ソフトウェアが適宜自動的にアップデートされること、
 - (イ) 当該許諾ソフトウェアのアップデートに伴い、許諾ソフトウェアの機能が追加、変更又は削除されることがあること
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mDNSResponder

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cfg80211

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special circumstances.

For example, on rare occasions, there may be a special need to
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a de-facto standard. To achieve this, non-free programs must be
allowed to use the library. A more frequent case is that a free
library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
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system.

Although the Lesser General Public License is Less protective of the
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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That's all there is to it!

libnl-headers

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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bzip2/libbzip2

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