

产品中有害物质的名称及含量



使用环境条件：
参考使用说明书中的操作条件

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
实装基板	×	○	○	○	○	○
外壳	×	○	○	○	○	○
光学组件	×	○	○	○	○	○
附属品	×	○	○	○	○	○

本表格依据 SJ/T 11364 的规定编制。

○：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。

×：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

W4-12

SONY®

REF 4-689-208-01 (1)
2017-01

4K摄像机

出版日期：2017年1月



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108-0075 Japan

使用再生纸印刷。

<http://www.sony.net/>

Printed in Japan

使用说明

使用产品前请仔细阅读本使用说明书，并请妥善保管。

MCC-S40MD

Exmor R HDMI

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- Exmor R 和 VISCA 是 Sony Corporation 的商标。
- HDMI、HDMI High-Definition Multimedia Interface 和 HDMI 标识是 HDMI Licensing LLC 在美国和其他国家的商标或注册商标。
- 本手册中提到的其他系统名称和产品名是其各自所有者的商标或注册商标。本文档中未使用 ® 和 ™ 标记。

警告

为减少火灾或电击危险，请勿让本设备受到雨淋或受潮。

为防止触电严禁拆开机壳，维修请咨询具备资格人士。

不得对本设备进行改造。



标识含义：加贴该标识的设备仅按非热带气候条件进行安全设计与评估，因此，仅适用于在非热带气候条件下安全使用，在热带气候条件下使用时，可能有安全隐患。



标识含义：加贴该标识的设备仅按海拔 2000m 进行安全设计与评估，因此，仅适用于在海拔 2000m 以下安全使用，在海拔 2000m 以上使用时，可能有安全隐患。

产品上的符号



请参阅使用说明

对于带有此标记的设备部件，请遵循使用说明中的指示进行操作。



此符号表示制造商，通常出现在制造商姓名和地址的旁边。



此符号表示序列号。



此符号表示附带文档的版本。



存放与运输温度

此符号表示存放与运输环境的可接受温度范围。



存放与运输湿度

此符号表示可接受的存放与运输环境的湿度范围。



存放与运输压力

此符号表示可接受的存放与运输环境的大气压力范围。

注意

弃置本设备或配件时，必须遵守所在国家和地区关于环境污染的法律以及所在医院关于环境污染的规定。



警告

为免发生意外伤害，在摄像机平台、安装臂或类似装置上安装本机时，请按照操作说明书上的指示操作。在摄像机平台、安装臂等装置上安装本机时，请务必使用随附的钢丝绳牢固固定本机。

注意

安装时，必须确保安装空间，便于通风和维修操作。请在本设备周围留出至少 5 厘米的间隙。

关于废弃产品的处理

请不要将废弃的产品与一般生活垃圾一同弃置。

正确处置废弃的产品有助于避免对环境 and 人类健康造成潜在的负面影响。具体的处理方法请遵循当地的规章制度。

使用注意事项

本机安全操作注意事项

- 一些人在观看视频图像时可能会感到不适，如眼疲劳、劳累或恶心。Sony 建议所有观看者在观看视频图像时要定时休息。需要的休息时长和频率视各人而定。您必须确定怎么做才是最好的。如果您有任何不适，请停止观看视频图像直到不适消失，必要时请就医。
- 请勿在振动强烈的地方或在步行或锻炼时使用本机，因为极有可能感到不适。
- 如果想要将本机连接到医疗设备进行使用，务必阅读“将本机与其他医疗设备连接时的注意事项”。

将本机与其他医疗设备连接时的注意事项

- 在开始实际使用本机前，请确保使用本机不会让您感到眼睛疲劳、劳累、恶心或其他可能在医疗程序中造成破坏的症状。务必确认没有感到眼睛疲劳、劳累、恶心或其他可能在医疗程序中造成破坏的症状。
- 如果出现或可能出现类似症状，请避免使用本机。
- 通常，视频图像抖动或快速移动、视频图像的焦点位置、被摄物体和图像捕捉模块之间的距离、视频图像中用户目光的角度、输入本机的视频图像的其他条件以及用户的健康情况等因素都容易引起如眼睛疲劳、劳累、恶心等症状。

与手术用电刀及类似设备一同使用

如果本设备与手术用电刀等同时使用，图像可能会因来自设备的强无线电波或电压而受到干扰、出现歪斜或其他异常。这不是故障。

当您 will 本设备与会发射强无线电波或电压的设备同时使用时，请在使用此类设备前确认其效果，然后以能最大程度减少无线电波干扰效果的方式安装本设备。

使用和存放位置

将本机存放在有空气调节的水平表面上。

请勿在以下场所使用和存放本机。

- 极冷或极热的位置（工作温度范围：0 °C 到 40 °C）
- 长时间暴露在阳光直射下或靠近加热器的位置（请注意，夏天车窗密闭的车内温度可能超过 50 °C）
- 极度潮湿或灰尘极多的位置
- 暴露在雨中的位置
- 振动严重的位置
- 强磁场源附近
- 强电磁波来源附近，如电视或无线电装置
- 容易发生火灾或爆炸的场所

激光束注意事项

激光束可能会损坏 CMOS 图像传感器。在使用激光束的拍摄环境中，务必小心不要让 CMOS 图像传感器表面暴露在激光束中。

避免强烈撞击

本机掉落或受到强烈撞击可能会导致故障。

散热

请勿在使用期间用衣服或类似物品盖住本机。否则可能导致内部温度升高，这可能造成故障或事故。

请勿暴露在强光下

请勿让 CMOS 图像传感器直接暴露在手术灯的强光下。

请勿暴露在温度急剧变化的环境中

摄像机图像输出可能会受到温度急剧变化、温差等的影响。

请勿让摄像机镜头面对太阳

穿过摄像机的阳光会在内部聚焦，这可能导致火灾。

录制

检查视频图像是否正常。如果视频图像失真或有其他异常，关闭电源并再次打开。

清洁

用柔软干布轻轻擦拭本机表面的灰尘。对于顽固污垢，请使用浸蘸了中性洗涤剂和水抹布擦去污垢，然后用干布擦拭。使用酒精、苯、稀释剂、杀虫剂或其他挥发性溶剂可能导致涂层劣化并剥落。

请使用浓度为 50 到 70 v/v% 的异丙醇或浓度为 76.9 到 81.4 v/v% 的乙醇清洁本机表面。

运输时

使用随附的纸箱和缓冲材料或类似包装对本机进行打包，小心不要让本机突然受到撞击。

长时间不使用本机时

请断开电源线。

湿气凝结

如果将设备突然从寒冷的地方带到温暖的场所，或者室温突然升高，设备的外表面和内部可能会形成水汽。这称为冷凝。如果发生冷凝，请关闭设备电源，待到冷凝消失后才能操作设备。冷凝仍然存在时使用设备可能会导致设备损坏。

CMOS 图像传感器特有现象

捕捉屏幕上可能显示下列 CMOS（互补金属氧化物半导体）图像传感器特有的现象。这并不表示故障。

白色斑点

虽然 CMOS 图像传感器采用高精密技术制造，在少数情况下，由于宇宙射线等

的影响，屏幕上可能会出现细微的白色斑点。这与 CMOS 图像传感器的原理有关，并不是故障。

在以下情况中，比较容易出现白色斑点。

- 在高温环境下使用时
- 当增益（灵敏度）增加时
- 使用低速快门速度时

折叠噪声

捕捉细微斑纹、条纹或线条时，拍摄的图像可能会呈现锯齿状或闪烁。

焦平面

由于读取图像信号的拾取元件（CMOS 传感器）的特性，快速移过屏幕的被摄物体可能会显得有些倾斜。

闪光带

捕捉闪光灯光束或快速闪烁的光源时，屏幕顶部和底部的亮度可能会发生变化。

闪烁

在通过荧光灯、钠光灯、水银灯或 LED 灯产生的光线下捕捉图像时，可能会出现屏幕闪烁、变色或横条纹。

请勿将本机用于医疗用途

本摄像机不适合医疗用途，包括诊断、治疗和预防。

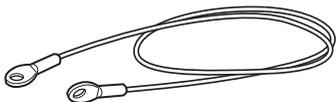
概述

包装内容

使用本产品前，请先检查本机随附的下列附件。

括号中的数字表示数量。

- 钢丝绳 (1)



- 钢丝绳固定螺丝 ⊕ M4×8 (1)
- 使用说明 (1)
- 保修手册 (1)

特点

本机是 4K 彩色摄像机，配备可提供有效分辨率约 1420 万像素的 1 英寸 CMOS 图像传感器。本机可以输出 4K 分辨率的高质量图像，其分辨率是全高清（1920×1080 像素）分辨率的四倍。

可以同时进行 HDMI/SDI 输出

作为标准，本机支持 HDMI/SDI 输出，能够同时输出 4K 图像 (HDMI) 和 HD 图像 (SDI)。

光学变焦 × 清晰影像变焦

使用光学变焦（12 倍）和清晰影像变焦（QFHD：1.67 倍、HD/SD：2.0 倍），可以缩放图像且图像质量降低幅度减少（QFHD：20 倍、HD/SD：24 倍）。此外，通过结合光学变焦（12 倍）和数字变焦（12 倍），还可以缩放最多 144 倍。

曝光补偿

本机配备曝光校正功能。

图像稳定

图像稳定功能可以校正安装摄像机时安装臂产生的震动。

采用 VISCA 摄像机协议

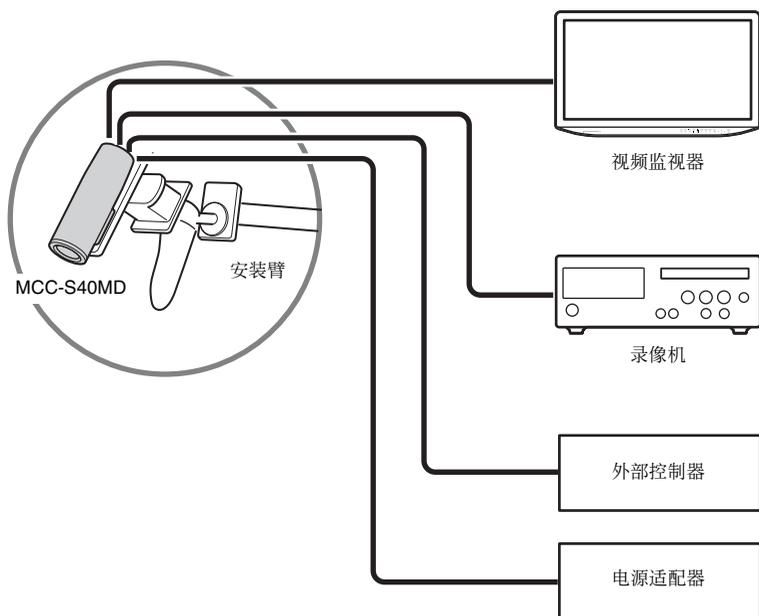
本机配备 RS232C 通信接口，支持 VISCA 摄像机协议。这意味着您可以使用 VISCA 摄像机协议，通过远程操作设置和调整摄像机功能。

有关 VISCA 协议和控制命令的详细信息，请联系当地 Sony 代表并参阅单独提供的协议手册。

系统配置示例

本机可以搭配单独出售的设备来配置摄像机系统。
通过使用外部控制器，可以执行对焦、白平衡和亮度调整。

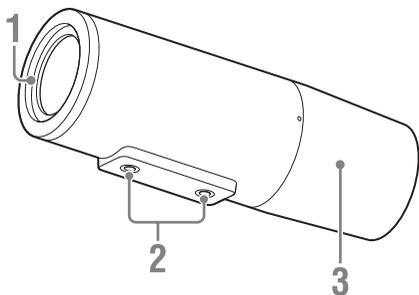
系统配置图



有关连接设备的详细信息，请参阅“安装和连接”（第17页）。

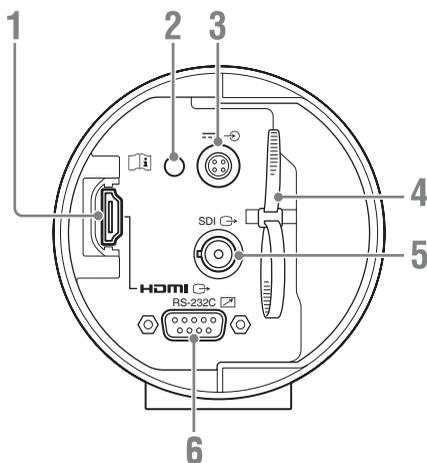
部件名称和功能

有关各个功能及其使用方法的详细信息，请参阅括号中的页面。



- 1. 滤镜螺纹 (φ 67 毫米)**
可以安装各种市售的滤镜。
- 2. 三脚架螺丝孔 (第 17 页)**
将本机安装到安装臂时，使用这些螺丝将本机固定到位。
- 3. 后盖 (第 17 页)**
此盖可防止污垢和灰尘沾附到接口部分，让清洁更容易。

取下后盖的背面



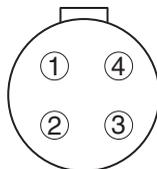
- 1. HDMI 输出接口 (A 型) (第 20 页)**
从本机输出 4K 视频作为 HDMI 信号。
使用指定了电缆类型徽标的 Sony 高速 HDMI 电缆连接此接口。
- 2. 钢丝绳固定螺丝孔 (第 18 页)**
用随附的螺丝安全固定钢丝绳。
- 3. DC IN (直流电源输入) 接口 (第 17 页)**
连接直流电源。

接口：务必使用广濑电机株式会社 (Hirose Electric Co., Ltd.)生产的 HR10A-7P-4S(73)接口。

电源：务必使用满足下列条件的 9 V 至 24 V 电源：电压为 9 V 时，可为本机的输入端口提供 1 A 或更大电流；电压为 24 V 时，可为本机的输入端口提供 0.4 A 或更大电流。

电源线：务必使用额定电压为 30 V 或以上、电流为 2 A 或以上的电源线。

电源接口极性
HR10G-7R-4P(73) (HIROSE ELECTRIC)



引脚编号	功能
1	GND
2	NC
3	NC
4	Vin (9 V 至 24 V)

- 4. 尼龙扎带 (用于 HDMI 电缆) (第 20 页)**
固定 HDMI 电缆，使其不会断开连接。

5.  **SDI 输出接口 (BNC) (第 17 页)**

从本机输出视频作为 SDI 信号。使用接口连接要用于确定 (例如) 视角的监视器。

6.  **RS-232C 接口 (D-sub 9 针) (第 17 页)**

使用 VISCA 连接外部控制器。

本章概要介绍本机的各项功能。

有关各项功能的详细信息，请参阅单独发布的“协议手册”。要获取“协议手册”，请联系 Sony 销售代表。

一般

• 电源 On/Off

本机没有电源开关。本机通过 On/Off 直流电源来 On/Off 本机。

变焦

本机带有一个 12 倍的光学变焦镜头。当使用数字变焦镜头时，本机可以放大最多 144 倍。

- 光学 12 倍， $f = 9.3$ 毫米到 111.6 毫米（F2.8 到 F4.5）

水平视角约 70.7 度（广角端）至 6.2 度（长焦端）。数字变焦功能通过在水平和垂直方向扩展每个图像来放大被摄物体的中心。使用 144 倍变焦时，有效像素会降低到 1/12 且分辨率会受到影响。

变焦方法

• 光学变焦

此方法通过使用镜头进行变焦。

• 清晰影像变焦

此图像变焦功能可使图像质量降低幅度减少。

这允许采用 QFHD 获取 1.67 倍的放大图像，并采用 HD/SD 获取 2 倍的放大图像，而图像质量几乎不受影响。

• 数字变焦

使用此变焦功能可以按照更高的变焦倍数来缩放图像，但会降低图像质量。

变焦模式

通过组合三种变焦方法，可提供以下模式。

• 组合模式

此模式通过组合光学变焦和数字变焦按如下方式工作。

数字变焦Off：仅使用光学变焦工作。

清晰影像变焦：光学变焦和数字变焦（仅清晰影像变焦）彼此配合使用。

数字变焦On：光学变焦和数字变焦（包括清晰影像变焦）彼此配合使用。

• 分离模式

此模式可以单独使用光学变焦和数字变焦（包括清晰影像变焦）。

可以从任何等级的光学放大使用数字变焦放大。

对焦

对焦模式

对焦模式有下列几种。

• 自动对焦模式

自动对焦 (AF) 可自动调整对焦位置，在考虑到高亮度和强烈对比组件的情况下，最大化中心测量区域的高频图像内容。广角端的最小对焦距离是 80 毫米，长焦端的最小对焦距离是 1000 毫米。

• 自动对焦变焦触发模式

更改对焦模式后，会按照和仅适用于设置时间的自动对焦模式相同的方式执行对焦调整操作，然后停止。

• 单次触发模式

当发送 Trigger 命令时，镜头会移动以调整被摄物体的对焦。对焦镜头会保持此位置不变，直到输入下一个 Trigger 命令。

• 手动对焦模式

手动设置对焦。

当使用自动对焦功能难以正确对焦或希望固定对焦位置时，此模式非常有效。

聚焦区域

屏幕内用于在可通过使用点对焦模式设置选择自动对焦时调整对焦的区域（聚焦区域）模式。

例如，当使用正常自动对焦难以对焦目标被摄物体时使用此区域模式。

当点对焦模式设为 On 时，可以调整指定部分的对焦。在通过按照 16（垂直）

×16（水平）的方式分割整个屏幕得到的区域内，指定要调整对焦的范围。当点对焦模式设为 Off 时，调整对焦时，对焦区域会始终固定在中心位置。

自动对焦灵敏度

可以更改自动对焦操作时的灵敏度。

• 普通

增加对焦时的追踪速度。在捕捉频繁移动的被摄物体时使用此模式。

• 低

增强对焦稳定性。当照明度较低时，即使亮度有些许不同，也不会执行自动对焦，以获取稳定图像。

对焦 IR 校正

例如，在本机上使用 NIR（近红外技术）时，可以执行对焦校正。这对自动对焦和手动对焦操作都有效。

• 标准

使用近红外技术时不会执行像差校正。

• IR 灯

使用近红外技术时会执行像差校正。

白平衡

白平衡有下列模式。

• 预设

调整到适合氙气灯的白平衡。5800 K 视为基础值。

• 一键式白平衡

一键式白平衡功能可在设置被摄物体的照明条件后强行捕捉白色，让您能够按照设置的条件捕捉图像。此功能可以获取被摄物体的自然色，而不会受到周围照明条件的影响。要设置此模式，捕捉您想要捕捉白色的被摄物体并发送一键式白平衡触发器。

关闭电源后会丢失一键式白平衡数据。如果关闭电源，请再次设置一键式白平衡。

默认情况下，系统会将白平衡设为此模式。

此外，还可以在红色方向或蓝色方向移动以一键式白平衡捕捉的基准。

• 手动白平衡

此模式可以手动将 R 增益和 B 增益设为 256 步进中的任何值。

曝光模式

可以在从低到高的照明条件下对被摄物体的光学输出进行各种曝光调整。

• 全自动

自动调整光圈、增益和快门速度。

• 快门优先

自动调整光圈和增益，且可以任意设置快门速度来进行调整。

可以根据被摄物体的移动和亮度来设置快门速度。设置低速快门时，可以根据被摄物体的亮度调整低速快门的速度。但是，因为是通过存储器输出，所以自动对焦的跟踪能力将会下降且显示的帧数也会减少。光圈和增益会自动调整。

• 光圈优先

自动调整增益和快门速度，且可以任意设置快门速度来进行调整。

可以将光圈设为从 F2.8 到 F11 的 17 步进中的任意一个。

• 增益优先

自动调整光圈和快门速度。

• 手动

可以通过将快门速度、光圈和增益设为任意值来进行调整。

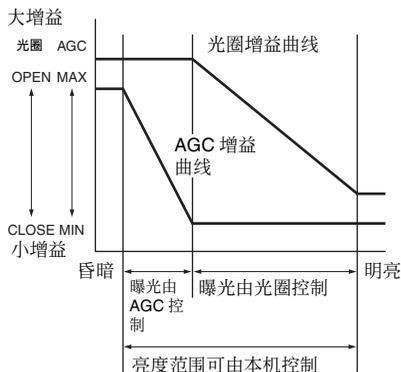
• 明亮

调整增益和光圈组合。

此模式适用于在增益和光圈为固定值时，以摄像机灵敏度常数进行捕捉。亮度控制是使用增益和光圈组合的亮度调整功能。曝光在暗处由增益控制，在亮处由光圈控制。

从全自动或快门优先模式切换到明亮模式时，会保留切换前的状态。

当曝光模式为全自动模式或快门优先模式时，只能切换到明亮模式。



从快门优先模式切换到明亮模式时，快门优先模式中设置的快门速度会保持不变。

高速快门上限

当被摄物体变亮时，快门速度会增加。此功能可限制快门速度的上限。此功能可抑制在捕捉明亮的被摄物体时产生的波动，从而实现平滑运动。

当曝光模式为全自动、光圈优先或增益优先时的高速快门限制功能。

低速快门下限

当被摄物体变暗时，快门速度会降低且增益会升高。此功能可限制快门速度的下限。此功能可降低在捕捉暗处移动的被摄物体时可能会产生的模糊效果。

当曝光模式为全自动、光圈优先或增益优先时的低速快门限制功能。

低速快门

在暗处（被摄物体处于照明条件不足的情况下）拍摄时，可以在增益达到最大值后调低快门速度。

低速快门适用于在暗处拍摄时降低视频中可能出现的噪音。

增益限制设置

可以限制增益的上限。在图像信噪比特别重要时，请使用此设置。此设置在曝光模式为全自动、快门优先或光圈优先时起作用。

增益点设置

可以设置 0 dB 和增益限制之间的中间值，以更改当达到增益设置值时的快门速度。此设置在曝光模式为全自动或光圈优先时起作用。

ECS 模式

扩展清晰扫描 (ECS) 功能用于控制快门速度，减少（例如）拍摄无影灯和无影照明源时的闪烁，以及捕捉到闪烁时出现的黑白横线。

此模式在曝光模式设为手动或快门优先时起作用。

曝光补偿

曝光补偿功能可在使用 AE 时调整亮度。与标准亮度“0”相比，此功能可以 1.5 dB 为步进来增加或降低亮度。

慢自动曝光模式（慢 AE）

慢 AE（自动曝光）响应功能可以降低曝光响应速度。通常，摄像机会设置为可以在约 1 秒内自动获得最佳曝光。使用慢 AE 功能可将曝光响应速度降低约 1 秒至 15 秒（当正常快门时）。

例如，如果在正常设置下有高亮光线进入屏幕（约 1 秒），摄像机会立即调整曝光以便可以捕捉到高亮光线。换言之，最终结果是被摄物体周围除高亮光线以外的任何部分都会变得十分昏暗且无法分辨。

但是，如果使用慢 AE 功能，响应时间会变得更长，因此即使短时间捕捉高亮光线，被摄物体四周也可以被正确识别。

提示

由于响应速度视被摄物体而不同，配置的速度只能是粗略估计。

边缘增强（光圈）

此功能可增强被摄物体的边缘。当设为自动时，此功能可进行自动调整。将此功能设为手动可以调整多个设置项目。增益提高时产生的颗粒度可能变为

明显的噪声，因为此颗粒度还可因为边缘增强而显示边缘。通过调整级别或调整勾边时影响噪声的边缘增强的量来降低边缘增强的强度。

带宽设置

可以通过带宽设置配置轮廓强调信号的宽度。

勾边调整 (Crispening: 降噪功能)

可以限制通常会添加到整个图像的边缘信号（细节信号），从而在电平较低时不会进行添加。

设置勾边让您可以降低噪声。

H/V 平衡 (纵横比功能)

可以设置边缘校正信号分量的垂直和水平比率。

可使用此功能调整边缘以适合将显示视频的监视器。

B/W 平衡

可以更改变应用到低亮度端的黑色边缘（细节）和应用到高亮度端的白色边缘的平衡。

可以为该设置选择从类型 1（黑色边缘强但白色边缘弱的比率）到类型 5（白色边缘强但黑色边缘弱的比率）的五种类型的任意一种。

边缘增强限制

通过设置最大值，可以限制应用到低亮度端的黑色边缘增强的量，以及应用到高亮度端的白色边缘增强的量。

高亮边缘增强

可以调整应用到明亮被摄物体的边缘增强的等级。

此功能适用于在极其明亮的背景下进一步增强明亮被摄物体的边缘。

增强对比度 (超低频增强)

可以增强图像的低频信息。

这适用于改善对比度和分辨率。

高分辨率模式

可以增强边缘以生成分辨率更高的图像。

明暗对比较正功能 (VE:Visibility Enhancer)

此功能可自动校正亮度和对比度，根据拍摄场景校正明亮区域过度曝光和昏暗区域曝光不足的亮度，让这些区域都能清晰可见。

减少闪烁

减少图像中的闪烁现象。

在通过荧光灯、钠光灯、水银灯或其他放电管或通过 LED 灯产生的光线下捕捉图像时，屏幕可能会出现闪烁、变色或横条纹。此功能适用于减少此类图像中的闪烁现象。

图像稳定

可以校正安装臂产生的震动。

此设备的图像稳定可以在光学图像稳定、电子图像稳定和混合图像稳定中选择。

ND 控制

可以切换要使用的 ND 滤镜。

通过组合密度为 1/4H 和 1/16 的两个 ND 滤镜，可以控制光衰减为 0、1/4、1/16 和 1/64。

降噪

降噪 (NR) 功能可去除噪声（固定图案噪声、随机噪声等），提供更清晰的图像。本机同时具备 2D NR（空间降噪）和 3D NR（暂时降噪）功能。

使用 NR 功能时，您可以设置降噪（固定的 2D NR/3D NR 混合）的等级（NR 等级）。

可以为 NR 等级设置选择 Off、等级 1 至等级 5 以及启用 2D NR/3D NR 七个项目中的任意一个。如果选择等级 1 至等级 5，值越大，降噪效果越强。如果选择启用 2D NR/3D NR，可以单独设置 2D NR 和 3D NR。

NR 效果会以增益为基础按等级应用，此设置值可决定效果的极限。在明亮条件下，即使更改等级，NR 功能也不会起作用。

伽马可变模式

可以在摄像机包含的 7 种伽马曲线图案中选择用于伽马校正的图案。

伽马偏移

可以在 -64 到 +64 之间设置每种伽马变异模式的亮度。

低速快门 On/Off

当设为 On 时，摄像机会在被摄物体亮度较低时自动启用低速快门。此功能在曝光模式设为全自动、光圈优先或增益优先时启用。默认设置为低速快门 Off。

ICR（取下 IR 止滤镜）模式

可以通过机械方式运行或关闭 CMOS 前面的 IR 止滤镜。

可以通过取下 IR 止滤镜来增加红外线范围的灵敏度，以便捕捉较暗处的图像。

当 ICR 模式设为 On 时，图像会变为黑白。

色彩矩阵

使用色彩矩阵设置可以配置用于计算输出图像颜色变化值的矩阵。

• Off

使用以标准色彩输出图像的矩阵。禁用后文描述的色彩增益、色彩相位和矩阵系数设置功能。

• On（标准）

使用以标准色彩输出图像的矩阵。启用后文描述的色彩增益、色彩相位和矩阵系数设置功能。

• On（高饱和度）

使用以高饱和度色彩输出图像的矩阵。启用后文描述的色彩增益、色彩相位和矩阵系数设置功能。

颜色增益变化

可以调整输出图像的饱和度（色彩亮度）。如果希望图像颜色鲜艳，此功能将非常有用。

在增益设置中，可以选择普通分辨率和调整范围（正常命令模式）或高分辨率和宽调整范围（扩展命令模式）。

使用正常命令模式可以在约 60% 到约 200% 之间设置。默认值为 100%。

使用扩展命令模式可以在 0% 到约 200% 之间设置。默认值为 100%。

色彩相位变化

可以调整输出图像的色彩相位（色调不同）。

在色彩相位设置中，可以选择普通分辨率（正常命令模式）或高分辨率（扩展命令模式）。

可用设置范围约为 -14 度到 +14 度。约 +14 度之间设置。默认值为 0 度。

矩阵系数设置

通过配置六个矩阵系数（R-G、R-B、G-R、G-B、B-R 和 B-G），可以调整整个图像的色调。

视频效果

本机具有下列视频效果功能。

• 垂直和水平翻转 (Picture Flip)

按垂直和水平方向翻转输出的摄像机图像。

• 水平翻转 (LR Reverse)

从水平方向翻转输出的摄像机图像。

• 彩条 (Color Bar)

输出彩条。

为彩条选择设置 Off、On（彩条 100%，8 种颜色）、On（彩条 100%，7 种颜色）和 On（灰度）中的任意一个。

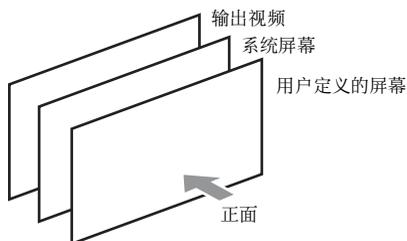
• 静态图像输出 (Picture Freeze)

捕捉摄像机输入视频的一个图像并继续输出该图像。

系统屏幕 (Display)

系统屏幕显示在输出视频的固定位置叠加的一个预定字符串。

可以通过系统屏幕设置显示或隐藏此字符串。



有关显示系统屏幕的项目和坐标的详细信息，请参阅“OSD 状态列表”（第 23 页）。

摄像机状态的存储

无论摄像机电源是 On 或 Off，此摄像机始终将摄像机状态存储在内部存储器中。

将摄像机设置恢复为默认值

执行重置命令。

有关详细信息，请参阅单独发布的“协议手册”。

提供命令列表

有关命令列表的详细信息，请联系 Sony 销售代表。

输出模式

确定 HDMI 格式后，系统也会同时自动确定 SDI 格式。视连接的设备而定，还会自动配置 RGB 4:4:4 和 YCbCr 4:2:2 之间的切换。

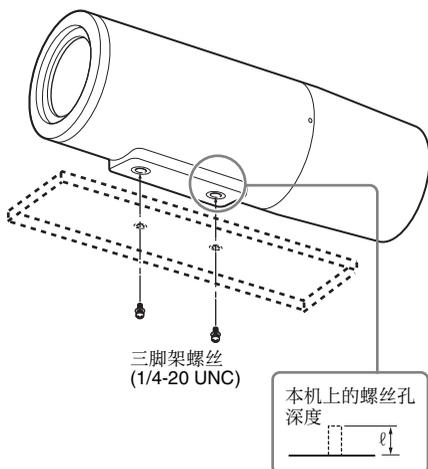
注意

更新格式设置后，关闭本机并重启以应用配置的设置。

HDMI 规格		SDI 规格	
HDMI 格式	HDMI 彩色空间	SDI 格式	SDI 彩色空间
4K (3840×2160) @29.97p	RGB 4:4:4 (限制) YCbCr 4:2:2 (限制)	HD (1920×1080)@59.94p	YCbCr 4:2:2 (限制)
4K (3840×2160) @25p	RGB 4:4:4 (限制) YCbCr 4:2:2 (限制)	HD (1920×1080)@50p	YCbCr 4:2:2 (限制)
HD (1920×1080) @59.94p	RGB 4:4:4 (限制) YCbCr 4:2:2 (限制)	HD (1920×1080)@59.94p	YCbCr 4:2:2 (限制)
HD (1920×1080) @50p	RGB 4:4:4 (限制) YCbCr 4:2:2 (限制)	HD (1920×1080)@50p	YCbCr 4:2:2 (限制)
HD (1920×1080) @59.94i	RGB 4:4:4 (限制) YCbCr 4:2:2 (限制)	HD (1920×1080)@59.94i	YCbCr 4:2:2 (限制)
HD (1920×1080) @50i	RGB 4:4:4 (限制) YCbCr 4:2:2 (限制)	HD (1920×1080)@50i	YCbCr 4:2:2 (限制)
SD (720×480) @59.94p	RGB 4:4:4 (限制) YCbCr 4:2:2 (限制)	无输出	
SD (720×576) @50p	RGB 4:4:4 (限制) YCbCr 4:2:2 (限制)	无输出	

安装

将本机安装到安装臂。
使用三脚架螺丝孔将本机底部固定到安装臂。



$l = 7$ 毫米

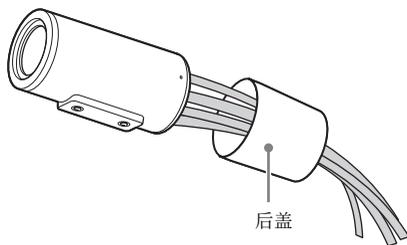
固定螺丝时，每一颗螺丝旋入孔内的长度都不得少于 4.5 毫米。

注意

- 如果安装臂有振动，将图像稳定功能设为 On。如果问题仍未解决，请从振动源采取单独措施。
- 请使用长度在 4.5 毫米到 7 毫米的范围内的螺丝，螺丝过短可能会导致无法牢固固定，螺丝过长可能会损坏本机的内部。
- 视安装基座的形状而定，可能会因为基座与摄像机镜头的位置关系而阻碍拍摄。安装摄像机时，不要让安装基座或其他部件进入摄像机的视角范围。

连接

取下后盖，然后将电缆和提供的钢丝绳穿过后盖并连接到本机后部，如图所示。

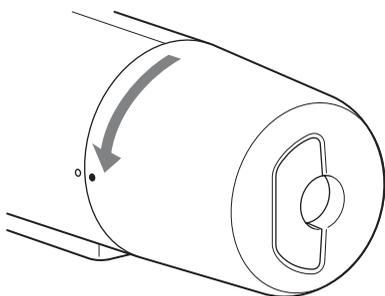


提示

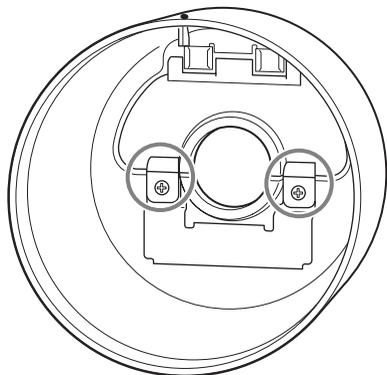
完成钢丝绳安装并连接电缆后，务必盖上后盖。

取下后盖

- 1 逆时针转动后盖将其取下。



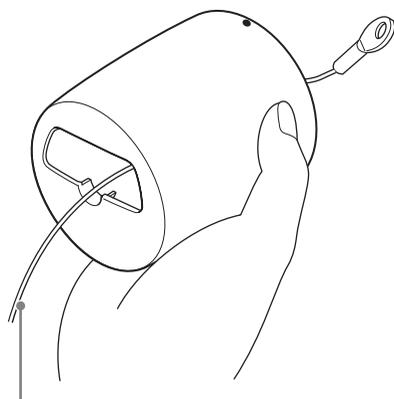
- 2 使用十字螺丝刀拧松后盖内部的两颗螺丝 (⊕M2)。



安装钢丝绳

务必安装随附的钢丝绳，防止本机掉落。

- 1 打开后盖的盖子，将钢丝绳穿过后盖。
定位底部的半圆形将减少钢丝绳的移动。

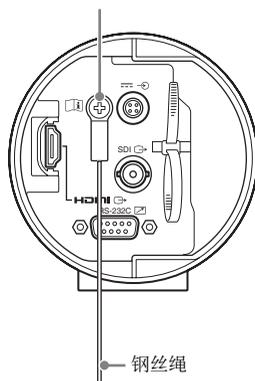


钢丝绳 (随附)

- 2 使用随附的钢丝绳固定螺丝 (⊕M4×8) 将钢丝绳安装到用于固定钢丝绳的螺丝孔。

牢牢固定钢丝绳。

钢丝绳固定螺丝 (随附)

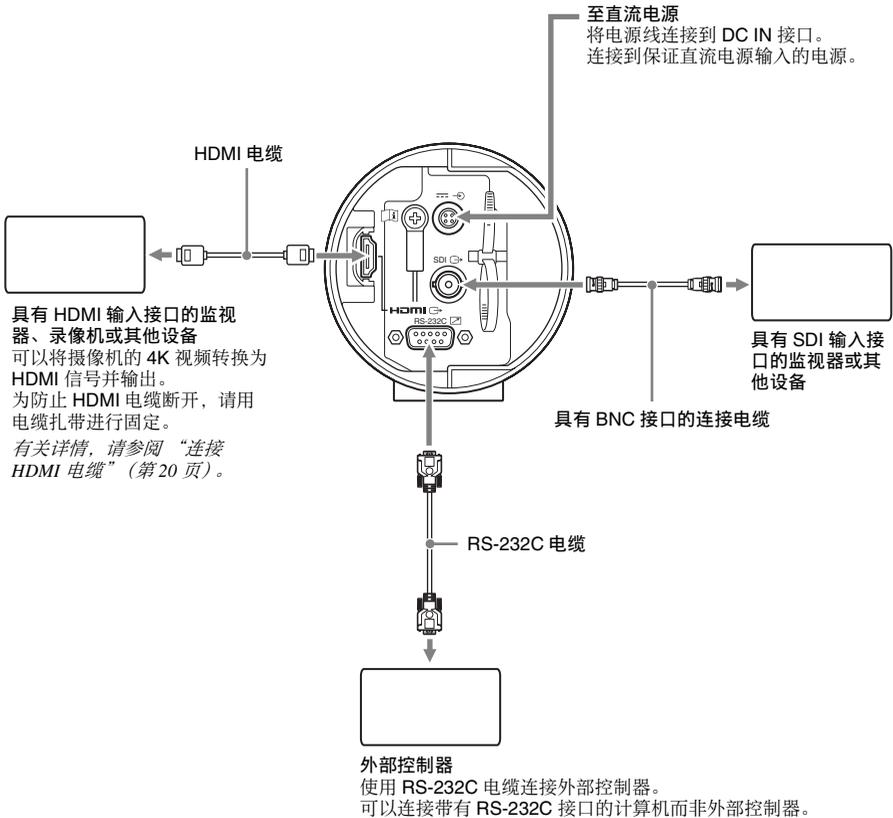


警告

请使用随附的螺丝固定钢丝绳。如果使用随附螺丝以外的螺丝，钢丝绳可能无法有效发挥作用，可能会导致本机掉落。

连接电缆

连接电源线和各种连接电缆。



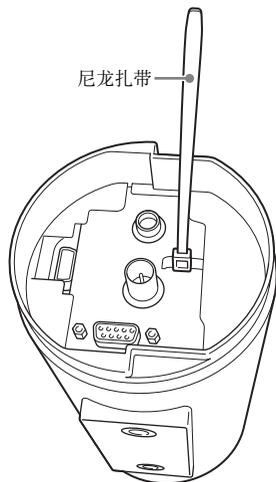
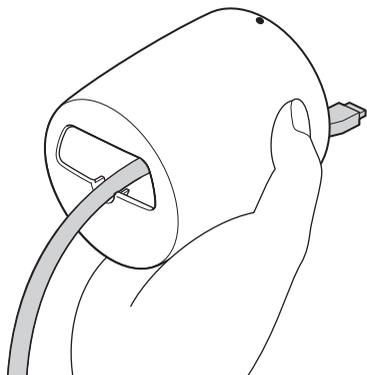
连接 HDMI 电缆

用尼龙扎带固定 HDMI 电缆，防止电缆断开连接。

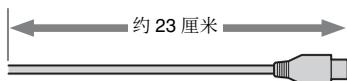
为便于理解，图中仅介绍了 HDMI 电缆的连接。

1 将 HDMI 电缆穿过后盖。

定位底部的半圆形将减少电缆移动。



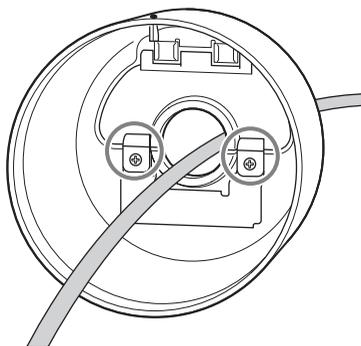
- ① 从 HDMI 电缆接口末端测量约 23 厘米。



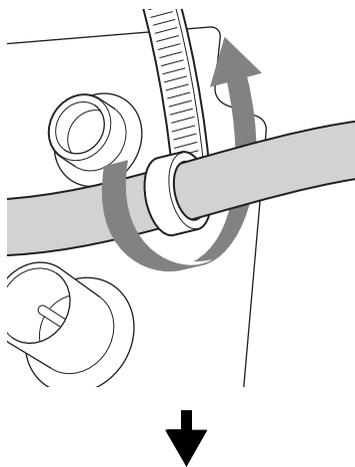
2 在电缆穿过后盖之后盖上盖子，然后使用十字螺丝刀拧紧后盖内部的两颗螺丝 (⊕M2)。

在钢丝绳和所有其他电缆都穿过后盖后拧紧螺丝。

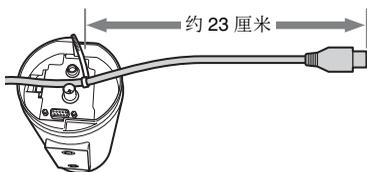
请注意把电缆捆好理顺。



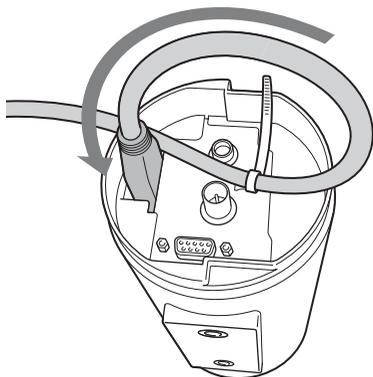
- ② 将尼龙扎带缠绕在电缆上并固定电缆。



3 在离接口末端约 23 厘米的位置处用尼龙扎带固定 HDMI 电缆。



- 4 将HDMI电缆的接口插入HDMI输出接口。

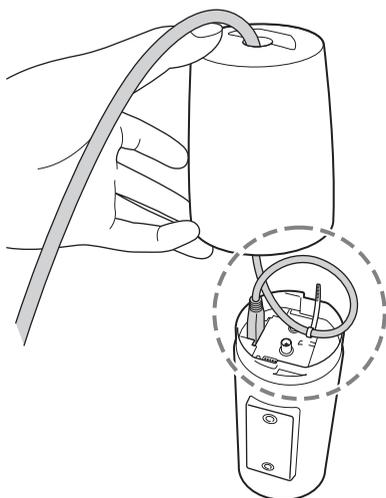


安装后盖

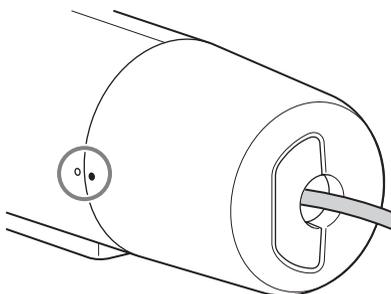
连接钢丝绳、电源电缆和各种连接电缆后，请装上后盖。

为简便起见，图中在说明时仅示出了一条 HDMI 电缆。

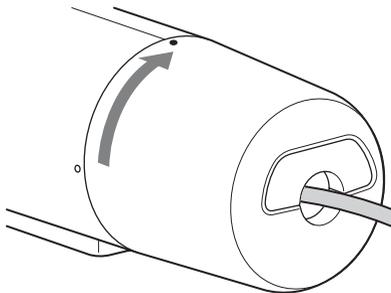
- 1 将后盖装到本机时进行调整，让 HDMI 电缆的绕线部分适合后盖内部。



- 2 将后盖上的○标记对准本机上的○标记。



- 3 从背面顺时针转动后盖将其固定。转动后盖直到其锁定到位。



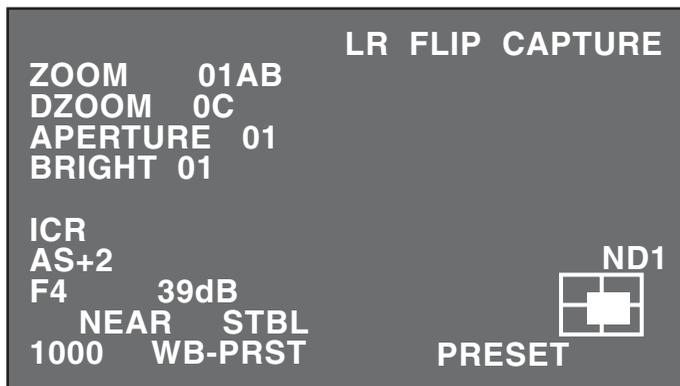
故障排除

在确定发生故障前，请先检查下列项目。如果在检查下列项目后仍有问题，请联系 Sony 服务代表。

症状	原因	解决方案
电源未开启。	是否已将电源电缆正确连接到本机的 DC IN 接口？	请始终牢固插入接口。
连接的视频监视器上未显示图像。	视频连接电缆未正确连接。	检查本机和视频监视器的连接情况。
	摄像机曝光设置不正确。	检查曝光模式设置。
无法从外部控制器操作摄像机。	VISCA 未正确连接。	检查本机上的 RS-232C 接口和外部控制器上的 RS-232C 接口的连接和布线。
	VISCA 通信方法设置不正确。	检查外部控制器上的设置是否正确配置。
	通信波特率设置不一样。	检查波特率的设置是否正确。
连接到计算机时无法进行 VISCA 通信。	计算机未正确连接。	检查本机和计算机的连接情况。
		检查外部控制器上的 VISCA 通信方法是否设置正确。
		检查本机是否与外部控制器通信良好。
本机无法操作。	—	从电源断开电源线，稍等片刻后再重试。

OSD 状态列表

屏幕上显示系统的各个项目，如下所示。



显示每个项目的状态，如下所示。

Zoom位置

状态	显示	备注
无 Zoom 操作		不显示文本
DZoom Off	Z O O M Δ Δ Δ Δ	变焦操作后显示设置时
DZoom On	Z O O M (C) Δ Δ Δ Δ	间。

- “Δ Δ Δ Δ” 部分表示4位六边形数。
- “Δ Δ Δ Δ” 表示与Zoom Position值对应的值将通过变焦调整的变焦位置规格来设置。
例如：01AB, 45CD

DZoom位置

状态	显示	备注
无 Zoom 操作		不显示文本
Separate 模式	D Z O O M Δ Δ	

- “Δ Δ” 部分表示2位六边形数。
- “Δ Δ” 表示与DZoom Position值对应的值将通过变焦调整的变焦位置规格来设置。
例如：0C

此外，视变焦组合而定，显示会改变，如下所示。

变焦组合	显示项目	显示
Separate（单独模式）	Zoom 位置	显示 DZoom Off
	DZoom 位置	显示 Separate mode
使用 Combine（组合模式），但 DZoom Off	Zoom 位置	显示 DZoom Off
	DZoom 位置	无显示
使用 Combine（组合模式），同时 DZoom On 或使用 Clear Image Zoom（清晰图像变焦）	Zoom 位置	显示 DZoom On
	DZoom 位置	无显示

Aperture（边缘增强）

状态	显示	备注
无操作		不显示文本
操作	A P E R T U R E Δ Δ	设置时间段后消失。

- “Δ Δ”部分表示2位六边形数。
- 正常命令模式下，“Δ Δ”的第一位数固定为0。
- “Δ Δ”表示与边缘增强等级的设置值对应的值。

Bright（明亮模式）

状态	显示	备注
非明亮模式		不显示文本
明亮模式	B R I G H T Δ Δ	

- “Δ Δ”部分表示2位六边形数。
- “Δ Δ”表示与Bright Position设置值对应的值。

ICR（取下IR止滤镜）

状态	显示	备注
ICR Off		不显示文本
ICR On	I C R	

曝光补偿

在正常命令模式中时

状态	显示	备注
曝光补偿 Off		不显示文本
曝光补偿 On, 步长 7	A S + 7	
曝光补偿 On, 步长 6	A S + 6	
曝光补偿 On, 步长 5	A S + 5	

状态	显示	备注
曝光补偿 On, 步长 4	A S + 4	
曝光补偿 On, 步长 3	A S + 3	
曝光补偿 On, 步长 2	A S + 2	
曝光补偿 On, 步长 +1	A S + 1	
曝光补偿 On, 步长 0	A S + 0	
曝光补偿 On, 步长 -1	A S - 1	
曝光补偿 On, 步长 -2	A S - 2	
曝光补偿 On, 步长 -3	A S - 3	
曝光补偿 On, 步长 -4	A S - 4	
曝光补偿 On, 步长 -5	A S - 5	
曝光补偿 On, 步长 -6	A S - 6	
曝光补偿 On, 步长 -7	A S - 7	

在扩展命令模式中时

状态	显示	备注
曝光补偿 Off		不显示文本
曝光补偿 On, 曝光补偿等级 +127	A S + 1 2 7	
曝光补偿 On, 曝光补偿等级 +0	A S + 0	
曝光补偿 On, 曝光补偿等级 -128	A S - 1 2 8	

光圈

状态	显示	备注
Auto		不显示文本
Manual F2.8	F 2 . 8	
Manual F3.1	F 3 . 1	
Manual F3.4	F 3 . 4	
Manual F3.7	F 3 . 7	
Manual F4	F 4	
Manual F4.4	F 4 . 4	
Manual F4.8	F 4 . 8	
Manual F5.2	F 5 . 2	
Manual F5.6	F 5 . 6	
Manual F6.2	F 6 . 2	
Manual F6.8	F 6 . 8	
Manual F7.3	F 7 . 3	
Manual F8	F 8	
Manual F8.7	F 8 . 7	

状态	显示	备注
Manual F9.6	F 9 . 6	
Manual F10	F 1 0	
Manual F11	F 1 1	

增益

状态	显示	备注
Auto		不显示文本
Manual 39dB	3 9 d B	
Manual 36dB	3 6 d B	
Manual 33dB	3 3 d B	
Manual 30dB	3 0 d B	
Manual 27dB	2 7 d B	
Manual 24dB	2 4 d B	
Manual 21dB	2 1 d B	
Manual 18dB	1 8 d B	
Manual 15dB	1 5 d B	
Manual 12dB	1 2 d B	
Manual 9dB	9 d B	
Manual 6dB	6 d B	
Manual 3dB	3 d B	
Manual 0dB	0 d B	

对焦模式/ AF灵敏度

对焦模式

状态	显示	备注
AUTO FOCUS		不显示文本
MANUAL FOCUS (NEAR END)	N E A R	接近限值时显示
MANUAL FOCUS (FAR END)	F A R	当 Inf 到 Over Inf 时显示
MANUAL FOCUS	M F	
One Push AF	M F	

AF 灵敏度

状态	显示	备注
正常 AF 灵敏度		不显示文本
低 AF 灵敏度	S E N S L	

图像稳定

状态	显示	备注
图像稳定 Off		不显示文本
图像稳定 On	S T B L	

快门速度

状态	显示	备注
Auto		不显示文本
Manual 1/10000	1 0 0 0 0	
Manual 1/6000	6 0 0 0	
Manual 1/4000	4 0 0 0	
Manual 1/3500	3 5 0 0	
Manual 1/3000	3 0 0 0	
Manual 1/2500	2 5 0 0	
Manual 1/2000	2 0 0 0	
Manual 1/1750	1 7 5 0	
Manual 1/1500	1 5 0 0	
Manual 1/1250	1 2 5 0	
Manual 1/1000	1 0 0 0	
Manual 1/725	7 2 5	
Manual 1/600	6 0 0	
Manual 1/500	5 0 0	
Manual 1/425	4 2 5	
Manual 1/350	3 5 0	
Manual 1/300	3 0 0	
Manual 1/250	2 5 0	
Manual 1/215	2 1 5	
Manual 1/180	1 8 0	
Manual 1/150	1 5 0	
Manual 1/125	1 2 5	
Manual 1/120	1 2 0	
Manual 1/100	1 0 0	
Manual 1/90	9 0	
Manual 1/75	7 5	
Manual 1/60	6 0	
Manual 1/50	5 0	
Manual 1/30	3 0	
Manual 1/25	2 5	
Manual 1/15	1 5	
Manual 1/12	1 2	

状态	显示	备注
Manual 1/8	8	
Manual 1/6	6	

白平衡模式

状态	显示	备注
Preset	W B - P R S T	
One Push WB	O N E P U S H	请见下文
Manual	W B - M A N	

当为 One Push WB 时，文本的颜色以及亮起 / 闪烁状态会更改，如下所示。

状态	显示	备注
在 One Push WB 捕捉之后	O N E P U S H	亮起绿色
在 One Push WB 捕捉期间	O N E P U S H	闪烁绿色
在 One Push WB 捕捉之前	O N E P U S H	闪烁白色

水平翻转(LR Reverse)

状态	显示	备注
LR Reverse Off		不显示文本
LR Reverse On	L R	

垂直和水平翻转(Picture Flip)

状态	显示	备注
Picture Flip Off		不显示文本
Picture Flip On	F L I P	

静态图像输出(Picture Freeze)

状态	显示	备注
Picture Freeze Off		不显示文本
Picture Freeze On	C A P T U R E	绿色

自定义预设/位置预设

状态	显示	备注
无预设操作		不显示文本

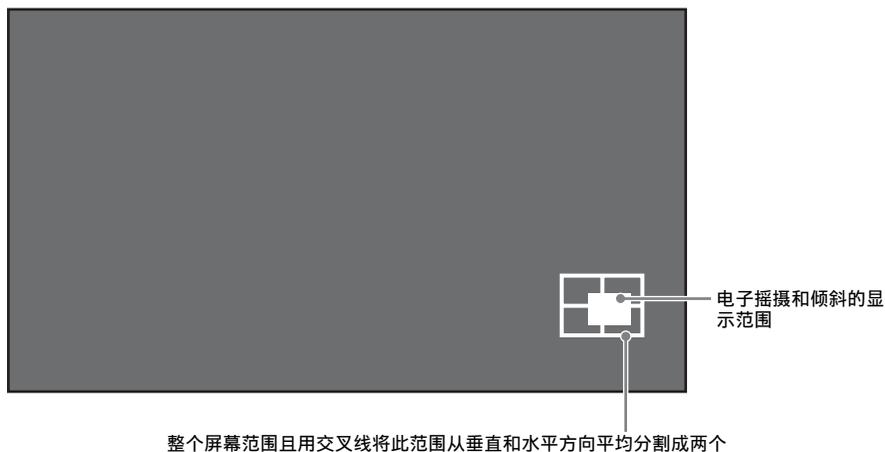
状态	显示	备注
自定义预设 Set	P R E S E T	设置时间段后消失。
自定义预设 Reset	R E S E T	
自定义预设 Recall	R E C A L L	
位置预设 Set	P R E S E T P O S Δ Δ	
位置预设 Reset	R E S E T P O S Δ Δ	
位置预设 Recall	R E C A L L P O S Δ Δ	

- “POS Δ Δ”部分表示位置预设编号靠右对齐。
例如：当设置位置预设3 → PRESET POS 3时

电子摇摄和倾斜位置

电子和摇摄倾斜位置的显示项目如下所示。

显示示例：



附录

ND滤镜

状态	显示	备注
ND 滤镜 Clear		不显示文本
ND 滤镜 ND1	N D 1	1/4ND
ND 滤镜 ND2	N D 2	1/16ND
ND 滤镜 ND3	N D 3	1/64ND

规格

一般

输入电压

9 V至24 V直流

输入电流

1 A (9 V时) 至0.4 A (24 V时)

工作温度

0 °C 至 40 °C

工作湿度

20% 至 80% (无冷凝)

工作压力

700 hPa至1060 hPa

存放与运输温度

-20 °C 至 +60 °C

存放与运输湿度

20% 至 90% (无冷凝)

存放与运输压力

700 hPa至1060 hPa

质量

约1200 克

尺寸

约90 (宽) × 93 (高) × 269 (深) 毫米 (不包括凸出部分)

附件

请参阅“*包装内容*”(第6页)

系统

产品类型

摄像机带有集成镜头

图像设备

Exmor R 1英寸CMOS固态图像传感器
总像素: 约2090万
有效像素: 约1420万

变焦功能

清晰影像变焦模式

(QFHD): 光学变焦: 12倍; 数字变焦: 1.67倍; 最大: 20倍

(HD/SD): 光学变焦: 12倍;

数字变焦2.0倍; 最大: 24倍

数字变焦模式: 光学变焦: 12倍;

数字变焦12倍; 最大: 144倍

焦距

f (广角) 至f (长焦): 9.3 毫米至111.6 毫米

F2.8至F4.5

ND滤镜

内部 (输入/输出)

可以组合两个光密度为1/4和1/16的ND滤镜。

(0、1/4、1/16和1/64)

IR止滤镜

内部 (输入/输出, 可拆卸)

图像稳定

电子、光学和混合

最小物距

80毫米 (广角) 至1000毫米 (长焦)

最低照度

0.2 lux

快门速度

1/6至1/10000

水平分辨率

1800条电视线或更多

对焦系统

自动/手动

灵敏度

F6.2 (标准)

曝光控制

自动/手动

光圈控制

自动/手动

增益

0 dB至39 dB

白平衡

自动/手动

信噪比

61 dB (标准)

对比度增强

可用

数字降噪

可用(2D/3D)

彩条

可用

图像旋转

水平+垂直

图像翻转

水平

静止图像输出

可用

图像配置文件

6

摄像机控制

接口: RS-232C

协议: VISCA

I/O连接

视频输出

HDMI 1.4b (A型)

不支持CEC功能

兼容SDI (BNC)

SMPTE 292/424标准

控制输入

RS-232C (D-sub 9针)

电源接口

HR10G-7R-4P(73) (DC IN接口)

设计和规格说明如有更改, 恕不另行通知。

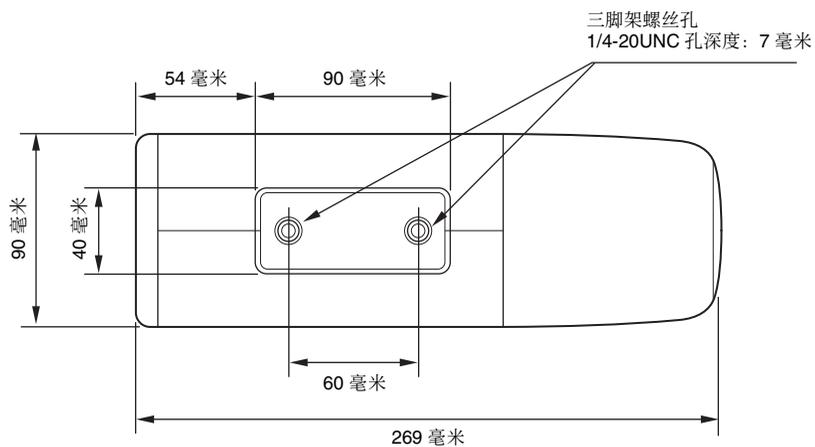
注意

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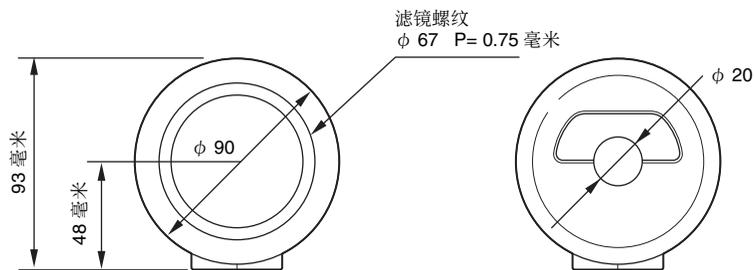
视频信号

	HDMI 输出	SDI 输出
QFHD	(3840×2160)@29.97p、25p	无
HD	(1920×1080)@59.94p、50p、59.94i、50i	(1920×1080)@59.94p、50p、59.94i、50i
SD	(720×480)@59.94p、(720×576)@50p	无

尺寸



案例



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```
[linux-kernel]
[busybox]
[dosfstools]
[e2fsprogs]
[gcc-gplv3-libs]
[glibc]
[procps]
[util-linux-ng]
```

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