SONY®

高清彩色摄像机

HDC2580

Digital HDVS

操作手册 中文

1st Edition

使用产品前请仔细阅读本书，并请妥善保管。

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。

高清彩色摄像机已被划分为 1 类激光产品。

注意
未按照此处规定的程序使用控制器、进行调整或操作可能会导致危险的辐射暴露。

注意
光学仪器与本产品一起使用会增加伤害眼睛的危险性。

关于旧产品的处理
请不要将旧的产品与一般的生活垃圾一同弃置。
正确弃置旧的产品有助于避免对环境和人类健康造成潜在的负面影响。
具体处理方法请遵循当地的规章制度。

目录

概述

HDC2580 是 2/3 型高清便携式摄像机，配备有 220 万像素的 CCD。

特点

高画质与高性能

HDC2580 具有新研发的 220 万像素 2/3 型宽屏逐行 IT CCD 和信号处理 LSI，凭借比之前型号增强的 S/N、高分辨率和低拖影获得高画质。16 位 AD 转换器可提供更佳画质和增强黑色再现。

数字延伸器功能

寻像器图像的中间部分被数码放大到其尺寸的两倍。数字延伸器功能可防止使用镜头延伸器功能时产生的感光度降低（F 降低）。

> **注意**
>
> 当选择 2x 慢动作格式时，此功能不工作。
> 此功能还会将图像的分辨率降低一半。

色差校正功能

本摄像机具有 ALAC 2.0 （自动镜头色差补偿）功能。
当使用消色差镜头时，此功能会自动减轻放大倍率的色差。

有关消色差镜头的详情，请联系 Sony 销售代表或 Sony 维修代表。

标准光学数字传输装置

在摄像机和摄像机控制装置（CCU）之间进行信号的光学数字传输。

各种色彩重现功能

自适应矩阵功能

此功能精确控制计算系数，在拍摄时执行精确的色彩转换。即使在超过传统矩阵功能的色彩转换范围之外的条件下拍摄时（如在强烈的单色蓝光源下），也能进行精确的色彩转换。

多重矩阵色彩校正

除了标准的 6 轴矩阵功能，本摄像机还具有多重矩阵功能，可供您分别在 16 轴方向上调节色彩要素的色调和色度。这对多台摄像机之间的色彩匹配相当有用。

拐点饱和度

可对高亮区域中出现的色调改变和色度降低进行补偿。
可在强光下重现自然肤色。

暗部饱和度

可对暗部区域的饱和度进行补偿。因此，将矩阵色彩补偿和拐点饱和度功能一起使用可补偿所有区域中的色彩重现。

多个伽玛表格的选择

本摄像机提供 7 种标准和 4 种超伽玛表。超伽玛值可采用宽动态范围创建影片图像，与采用传统视频伽玛获取的效果不同。

用户伽玛

通过 CvpFileEditor™ 创建的伽玛表格可从 MSU-1000/1500 或 RCP-1500 系列保存到"Memory Stick"或注册到 HDC2580。

多功能细节控制功能

肤色细节功能 / 自然皮肤细节功能

与 HDC1580R 相同，此功能通过从指定色调（如肤色等）的色彩要素创建一个细节门信号，可对图像中某个色调或色度区域控制（强调或抑制）细节程度。三种色调的细节程度可分别同时进行调节。
HDC2580 具有自然皮肤细节功能，可调节细节门信号，使您希望变光滑的部位更加生动鲜明，而选择性地保持眉毛等无需变光滑的部位。

细节升频控制

升频可在 20 至 30 MHz 范围内进行调节。可为对象适当设定细节信号的浓度，从而实现高清图像表现。

H/V 率控制

可以调节水平和垂直细节的比率。

白 / 黑限制器

可分别对白色和黑色细节进行限制。

对焦辅助功能

VF 细节功能和对焦辅助指示器功能有助对焦。

VF 细节

VF 细节信号具有各种功能，并且只能添加在寻像器画面的图像上以有助于在各种情况下对焦: VF 细节信号着色、添加调制使 VF 细节信号闪烁、VF 细节信号厚化、以及根据变焦位置变更 VF 细节程度的功能。

对焦辅助指示器

寻像器画面上的对焦电平指示器可供对焦时参考。可通过将电平指示器的波动作为参考轻松决定最合适的对焦设定。

多种寻像器功能

大量寻像器显示选项

除了操作信息、斑马纹、安全区域标记和中心标记等，摄像机设定也能显示在寻像器画面上。此外，寻像器上下还排列着其他指示，如计数灯、电池警告指示以及提示不同于标准的一个或多个设定的指示。便于检查摄像机的状态。

菜单设定操作功能

使用寻像器画面或外部监视器上显示的设置菜单可快速简便地选择和设定寻像器显示项目、安全区域标记或中心标记、画面尺寸标记等。

方便用户的操作

水平仪显示功能

HDC2580 具有水平仪功能，可在寻像器屏幕和监视器上显示摄像机摇晃的程度。通过检查摄像机的水平，可实现更稳定的拍摄。

机身重心低

HDC2580，与之前的 HDC1580R 相同，采用低腰设计，外形时尚。当与 HDLA1503 大镜头适配器一起使用时，可将寻像器安装在较低位置，使寻像器位置更靠近镜头的光轴。

旋柄和 VF 滑动结构

握住手柄前端时，手柄前端上部的微突出部分可供在拍摄时稳定手持摄像机。另外，安装寻像器的前后滑动结构的可移动范围已加宽，有助于您将摄像机置于肩上拍摄时达到最舒适平衡。旋柄结构可供在 HDLA1503 上安装并使用，可使大型寻像器向前移。从而使其与标准演播室摄像机具有相同的总尺度，操作性相当于标准演播室摄像机。

可调节位置的肩垫

可根据摄像机使用者的体形、正在使用的镜头类型或拍摄方式调节肩垫的位置以便稳定拍摄。
缓压肩垫（位置固定）作为选购件有售（部件编号：A-8286-346-A）。

可编配功能的开关

可将想要的功能（如电子色温转换）编配至侧面板上可编配功能的开关。
这些开关可与 HDVF-EL75 和 HDVF-C550W 等寻像器型号上的可编配开关同步，并且可用于操作 MAGNIFICATION 等寻像器功能。
此外，两个可编配功能的开关位于手柄上方，并且可用于设定 MAGNIFICATION 等寻像器功能。

USB 接口

将 USB 驱动器连接至 USB 接口记录并读取数据。也可从 USB 驱动器载入和保存设置菜单设定。

防止触电

当电源连接不安全时，将会切断所连摄像机控制装置的供电。

选购件

安装以下选购件可进行双滤镜配置。

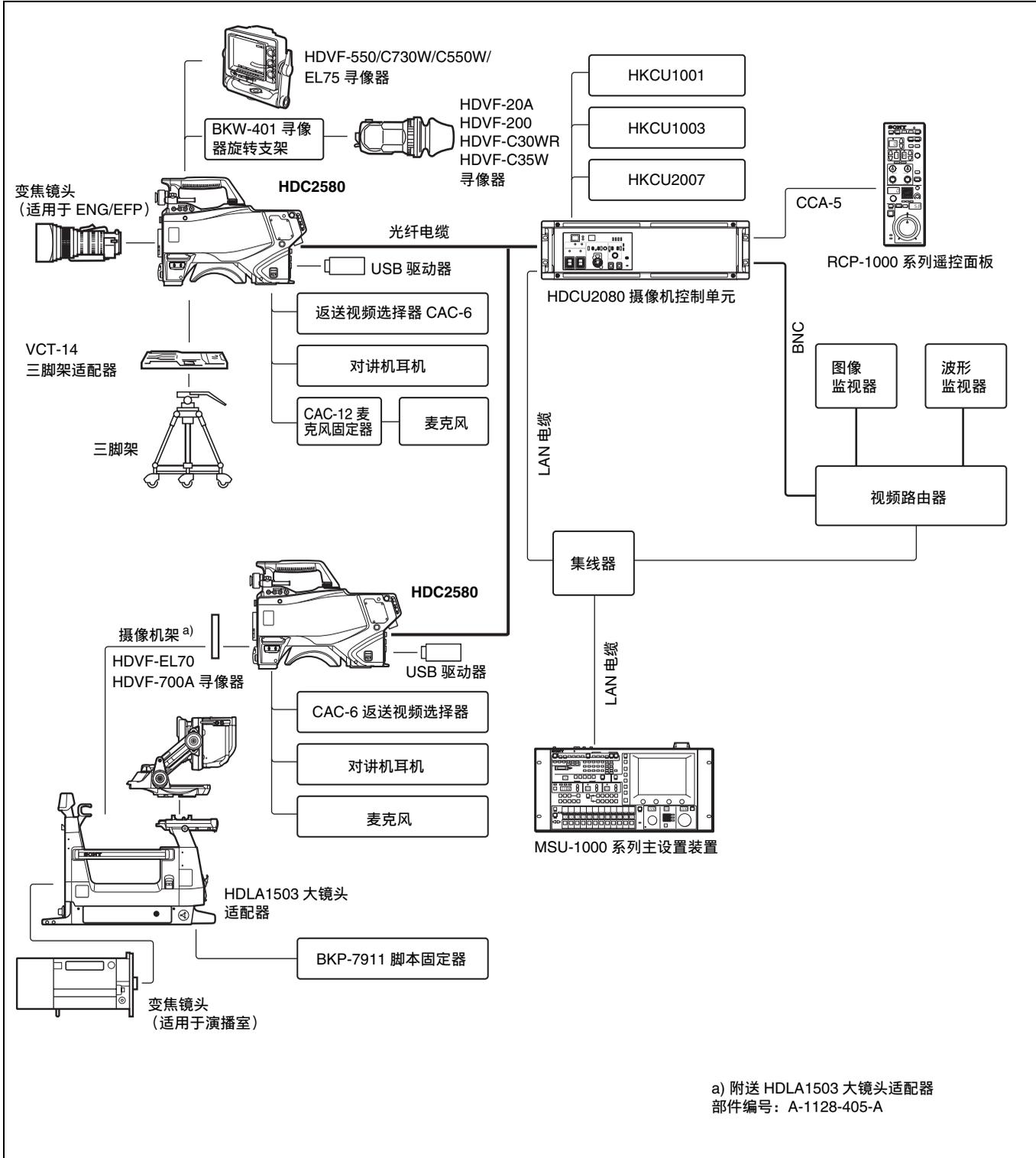*有关选购件的详情，请联系 Sony 销售代表或 Sony 维修代表。*

有关选购件的规格或更多详细信息，请参阅各选购件的使用说明书。

HKC-DF20 双滤片单元

安装 HKC-DF20 双滤片单元可进行双滤镜（CC 滤镜和 ND 滤镜）配置。

系统配置

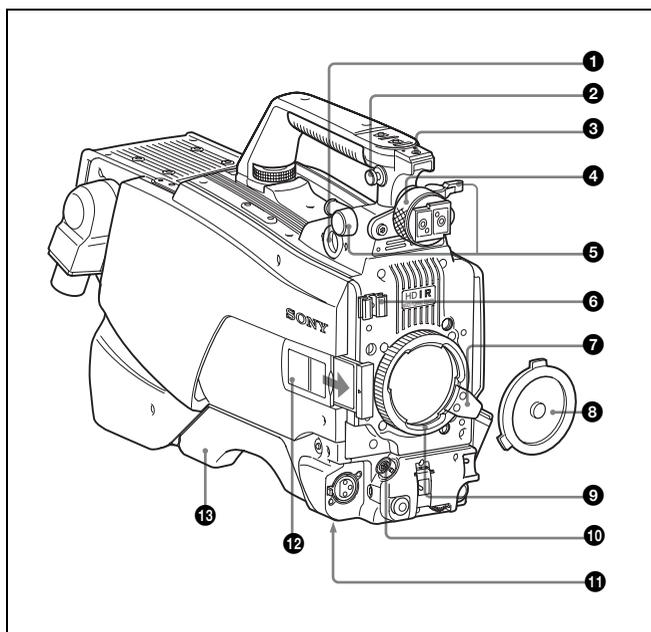图中显示的某些外围设备和相关设备已停产。有关选择设备的
建议，请联系 Sony 经销商或 Sony 销售代表。

连接例图

HDVF-550/C730W/C550W/EL75 寻像器

HDVF-20A
HDVF-200
HDVF-C30WR
HDVF-C35W
寻像器

BKW-401 寻像器旋转支架

HKCU1001

HKCU1003

HKCU2007

变焦镜头
（适用于 ENG/EFP）

HDC2580

光纤电缆

USB 驱动器

返送视频选择器 CAC-6

CCA-5

RCP-1000 系列遥控面板

HDCU2080 摄像机控制单元

对讲机耳机

VCT-14
三脚架适配器

CAC-12 麦克风固定器

麦克风

三脚架

BNC

图像监视器

波形监视器

LAN 电缆

视频路由器

HDC2580

摄像机架 a)

集线器

HDVF-EL70
HDVF-700A 寻像器

USB 驱动器

CAC-6 返送视频选择器

对讲机耳机

麦克风

LAN 电缆

HDLA1503 大镜头适配器

BKP-7911 脚本固定器

MSU-1000 系列主设置装置

变焦镜头
（适用于演播室）

a) 附送 HDLA1503 大镜头适配器
部件编号：A-1128-405-A

部件的位置和功能

配件安装

❶ VF （寻像器）接口 （20 芯）
连接寻像器电缆 （非附送）。

❷ 肩带调节柱
将肩带 （非附送）的一端安装至调节柱，并将另一端安装至摄像机另一侧的调节柱。

❸ 附件靴
使用 1/4 英寸螺丝安装附件。

❹ 寻像器左右定位环
松开此环可向左或向右调节寻像器位置。

❺ 寻像器前后定位杆和锁定旋钮
松开此杆和旋钮可向前或向后调节寻像器位置。

有关调节寻像器位置的详情，请参阅第 12 页上的 "安装寻像器"。

❻ 镜头电缆夹
用于固定镜头电缆 （非附送）。

❼ 镜头固定杆
用于将镜头固定在镜头接口内。

❽ 镜头接口盖
向上移动镜头固定杆可取下此盖。当未安装镜头时，请始终用此盖盖住镜头接口。

❾ 镜头接口
用于安装镜头。
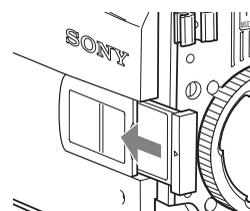
❿ LENS 接口 （12 芯）
连接镜头电缆。本摄像机可通过此电缆控制镜头功能。

⓫ 三脚架接口
当将摄像机安装在三脚架上时，请安装VCT-14三脚架适配器。
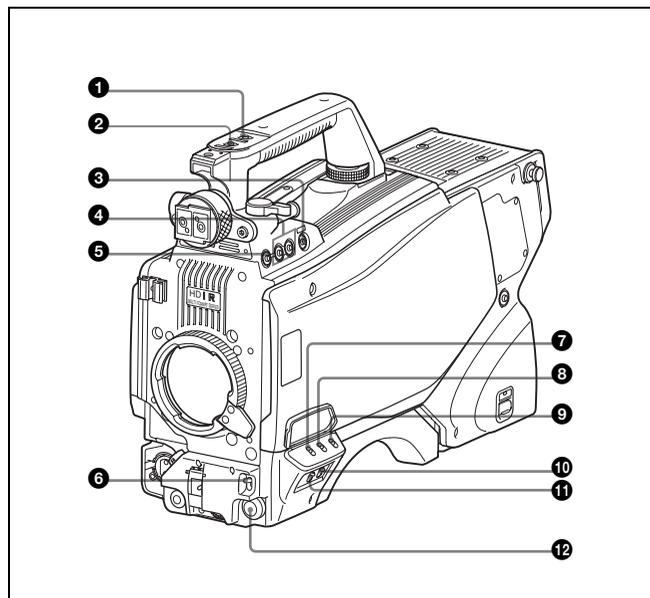
⓬ 摄像机编号
插入附送的摄像机编号标签。可以显示摄像机编号。

⓭ 肩垫
可供调节位置，以便您将摄像机置于肩上拍摄时达到最舒适状态。

有关详情，请参阅第 14 页上的 "调节肩垫位置"。

控制钮和接口

右前侧

❶ INCOM （对讲机 1）钮
当按住此按钮时，对讲机 1 麦克风变为 ON。
使用寻像器画面上显示的菜单，您还可将其他功能编配至此钮。

❷ RET 1 （返送视频 1）钮
当按此按钮时，可在寻像器画面上监视摄像机控制装置的返送视频 1 信号。此按钮可起到与机身侧面上 RET 1 钮（*第 8 页*）以及摄像机背面操作面板上的该钮 （*第 10 页*）相同的功能。
使用寻像器画面上显示的菜单，您还可将其他功能编配至此钮。

❸ 可编配开关
可使用寻像器画面上显示的菜单编配功能。

❹ 滤镜选择钮
当按住 FILTER LOCAL 钮时，按这些钮中任一个可切换内置光学滤镜（透明、1/4ND、1/16ND、1/64ND、十字）。

❺ FILTER LOCAL 钮
当按住此钮时，按任一滤镜选择钮可选择内置光学滤镜。

❻ AUTO W/B BAL（白色和黑色平衡自动调节）开关
用于当摄像机处于独立状态而未连接至摄像机控制装置时自动调节白色和黑色平衡。
WHT：自动调节白平衡。
BLK：自动调节黑平衡。

❼ GAIN 开关
用于当摄像机处于独立状态而未连接至摄像机控制装置时根据光线情况选择视频放大器的增益。
出厂设定下，该值设为 L = 0 dB，M = 6 dB，H = 12 dB。

❽ OUTPUT（输出信号选择）/AUTO KNEE 开关
用于当摄像机处于独立状态而未连接至摄像机控制装置时选择要用于输出至 VTR、寻像器或视频监视器的信号（彩条信号或摄像机视频信号）。
当摄像机视频信号正作为输出使用时，可能会使用自动拐点功能。
开关设定、输出信号以及自动拐点功能之间的关系如下表所示。

OUTPUT	AUTO KNEE	功能
BARS	OFF	输出为彩条信号。
CAM	OFF	输出为摄像机视频信号。自动拐点电路禁用。
CAM	ON	输出为摄像机视频信号。自动拐点电路启用。

❾ WHITE BAL（白平衡存储器选择）开关
用于当摄像机处于独立状态而未连接至摄像机控制装置时选择白平衡调节方式或用于储存调节值的存储器。
PRST（预设）：白平衡调节为与 3200K 色温对应的预设值。
A 或 B：选择存储器 A 或 B。

❿ DISPLAY 开关
DISPLAY 开关的功能如下所示：
DISPLAY：说明摄像机设定和工作状态的字符和信息可以显示在寻像器画面上。
OFF：寻像器画面上不会出现状态信息。
MENU：摄像机设定的菜单将显示在寻像器画面上。

⓫ STATUS/CANCEL 开关
STATUS：当寻像器画面上没有显示任何菜单时，会显示摄像机的状态信息。
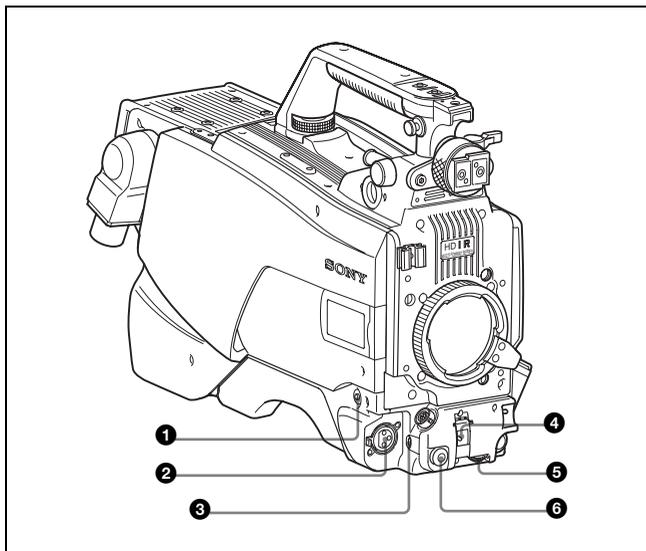**CANCEL：**当寻像器画面上显示菜单时，您可取消任何改变的设定或将显示返回上一个菜单。

⓬ MENU SEL（菜单选择）旋钮 /ENTER 钮（旋转编码器）
用于从寻像器画面上显示的菜单上选择设定（旋转旋钮），并确认设定（按按钮）。

当连接了摄像机控制装置或遥控装置（如 MSU 或 RCP 系列遥控面板）时，从外部控制装置控制 ❻ 至 ❾ 的功能，并且摄像机上的控制钮将会禁用。

左前侧

❶ RET 1（返送视频 1）钮
当按此按钮时，可在寻像器画面上监视摄像机控制装置的返送视频 1 信号。此按钮可起到与手柄上 RET 1 钮（*第 7 页*）以及摄像机背面操作面板上的该钮（*第 10 页*）相同的功能。
使用寻像器画面上显示的菜单，您还可将其他功能编配至此钮。

❷ MIC 1 IN（麦克风 1 输入）接口（XLR 3 芯）
连接麦克风。
使用 CH1 音频输入选择开关（*第 11 页*）可交替启用此接口和摄像机背面操作面板上的 AUDIO IN CH-1 接口（*第 11 页*）。

❸ MIC（麦克风）电源开关
+48V：对所连麦克风提供 +48 V 的电源。
OFF：对所连麦克风不提供电源。

❹ SHUTTER 开关
用于当摄像机处于独立状态而未连接至摄像机控制装置时设定电子快门功能。
OFF：电子快门不工作。
ON：电子快门启用。
SEL：每当开关置于此位置时，快门速度和快门模式改变。

有关详情，请参阅第 17 页上的 "设定电子快门"。
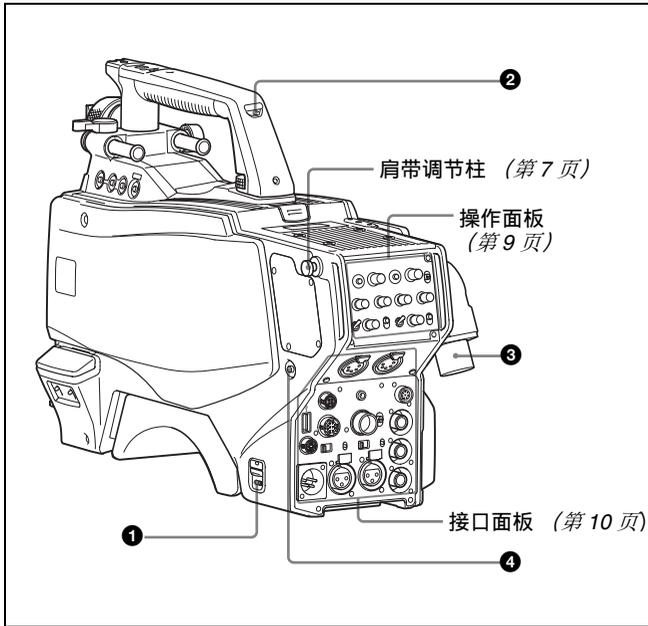
❺ INTERCOM LEVEL 控制钮
用于调节对讲机 / 耳机音量。
当摄像机背面的 INTERCOM 1 和 2 LEVEL 开关设定为 "FRONT" 时，启用对讲机音量调节。

❻ RET 2（返送视频 2）钮
当按此钮时，寻像器上的图像会改变为用摄像机背面操作面板上的 RET 2 选择开关（*第 10 页*）选择的返送视频信号。
使用寻像器画面上显示的菜单，您还可将其他功能编配至此钮。

背面

肩带调节柱 *（第 7 页）*

操作面板 *（第 9 页）*

接口面板 *（第 10 页）*

❶ **CAMERA POWER** 开关
CCU： 将从摄像机控制装置获取电源。
EXT： 将通过 DC IN 接口获取电源。

❷ 计数灯和开关
ON： 当计数信号输入所连摄像机控制装置或按 CALL 钮响应
生成呼叫信号时，计数灯亮起。
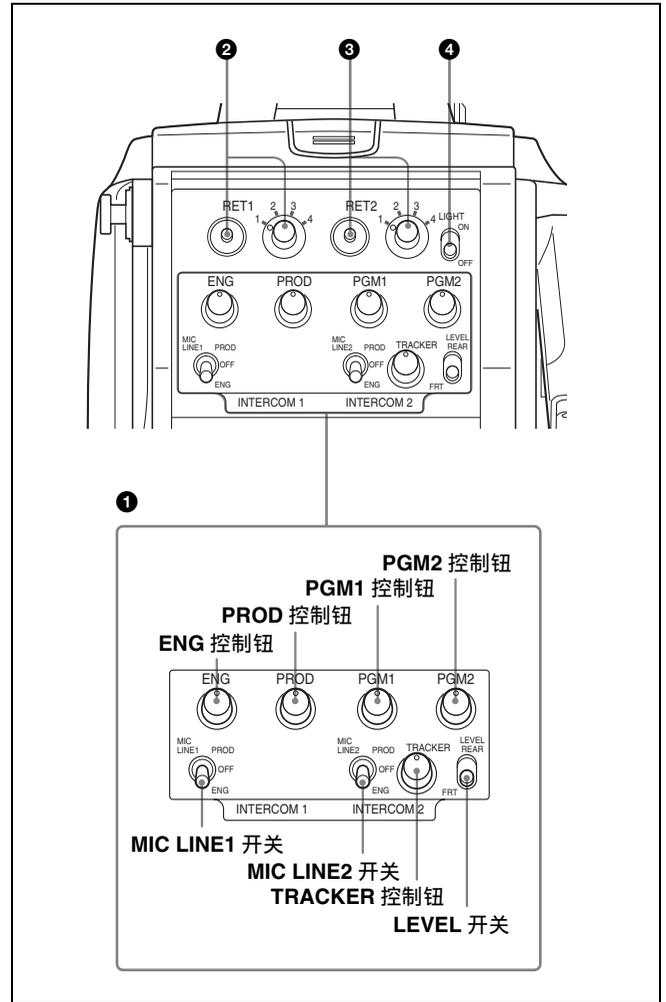**OFF：** 防止计数灯亮起。

❸ **CCU** （摄像机控制装置）接口 （光学 **/** 电子多接口）
使用光电复合电缆连接摄像机控制装置。

❹ **CALL** 钮
当按此钮时，RCP-1000 系列遥控面板或 MSU-1000 系列主设
置装置的红色计数灯会亮起。用于呼叫 RCP 或 MSU 操作者。

操作面板

PGM2 控制钮
PGM1 控制钮
PROD 控制钮
ENG 控制钮

MIC LINE1 开关
MIC LINE2 开关
TRACKER 控制钮
LEVEL 开关

❶ **INTERCOM1** 和 **INTERCOM2** 控制钮和开关
接收电平控制钮为对讲机 1 和对讲机 2 所共用。可分别为对讲
机 1 和对讲机 2 设定通话线路。

ENG （工程师线路）控制钮：
调节工程师线路的对讲机音频聆听电平。

PROD （生产商线路）控制钮
调节生产商线路的对讲机音频聆听电平。

PGM1 （程序 **1**）控制钮
调节程序 1 的音频聆听电平。

PGM2 （程序 **2**）控制钮
调节程序 2 的音频聆听电平。

TRACKER 控制钮
当使用对讲机接口时，在接口面板的 TRACKER 接口
（*第 10 页*）处调节对讲机音频聆听电平。

MIC LINE1 （对讲机麦克风线路 **1**）开关
选择对讲机 1 的通话线路。
PROD： 通过生产商线路通话
OFF： 关闭对讲机线路 1 的耳机麦克风。
ENG： 通过工程师线路通话

MIC LINE2（对讲机麦克风线路 **2**）开关
选择对讲机 2 的通话线路。
PROD：通过生产商线路通话
OFF：关闭对讲机线路 2 的耳机麦克风。
ENG：通过工程师线路通话

LEVEL 开关
REAR：用该面板上的控制钮调节对讲机音频聆听电平。
FRT：用摄像机正面的 INTERCOM LEVEL 控制钮调节对讲机
音频聆听电平。

❷ **RET 1**（返送视频 **1**）钮和选择开关
当按此按钮时，用此开关选择的返送视频信号会显示在寻像器
画面上。

❸ **RET 2**（返送视频 **2**）钮和选择开关
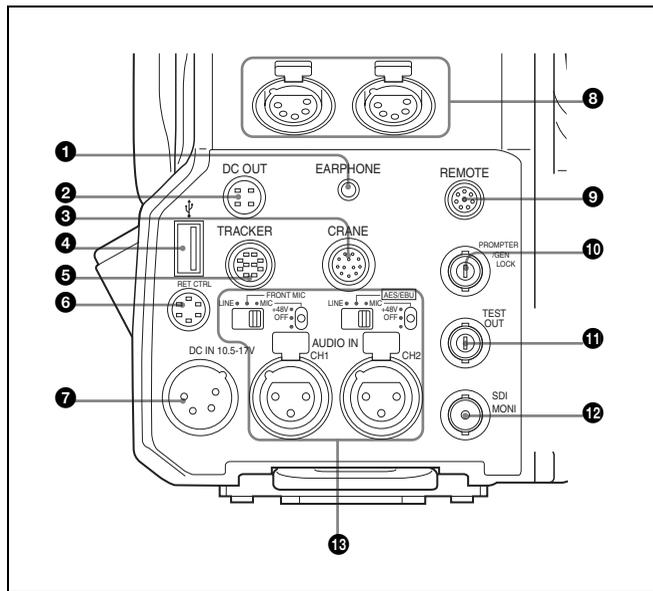当除了返送视频 1 之外还使用其他返送视频系统时，按此钮时
可在寻像器画面上监视用此开关选择的信号。

> 注意
>
> 如果同时按两个钮， RET 1 钮比 RET 2 钮优先。
> 如果同时按下 RET 1 和 RET 2 钮，当设定 OPERATION 菜单
> 的 <RETURN> 12 时，这两个钮用作 RET 3 钮。

❹ **LIGHT 开关**
设定为 ON 点亮操作面板。

接口面板

❶ **EARPHONE** 插孔 （立体声迷你插孔）
用于连接耳机以接听对讲机声音。

❷ **DC OUT**（**DC** 电源输出）接口 （**4** 芯）
用于对无线接收机 （选购）（最大 0.5 A）等设备供电。

❸ **CRANE** 接口 （**12** 芯）
用于寻像器等外部接口。

❹ **USB** 接口 （用于连接 **USB** 驱动器）
连接 USB 驱动器以保存或载入设定数据文件。

详情请参阅 "使用 USB 驱动器"（第 49 页）。

❺ **TRACKER** 接口 （**10** 芯）
用于对讲机和计数灯等外部接口。

❻ **RET CTRL**（返送控制）接口 （**6** 芯）
用于连接 CAC-6 返送视频选择器。

❼ **DC IN**（**DC** 电源输入）接口 （**XLR 4** 芯）
用于连接 AC-DN10 电源适配器以对摄像机供电。

❽ **INTERCOM1 和 2**（对讲机 **1** 和 **2**）接口 （**XLR 5** 芯）
如果连接了 XLR 5 芯耳机，可用于输入和输出对讲机音频信
号。
即使电源关闭，只要电源 LED 红色亮起时， INTERCOM 1 接
口仍可用于通过工程师线路通信。

❾ **REMOTE** 接口 （**8** 芯）
用于连接 RCP-1000/1500 系列遥控面板或 MSU-1000/1500 主
设置装置。

> 注意
>
> 当摄像机连接 CCU 时，请勿将 RCP 和 MSU 等任何遥控装置
> 连接至该接口。

❿ **PROMPTER/GENLOCK**（提示器 **1** 信号输出 **/** 外部同步锁
定信号输入）接口 （**BNC** 型）
仅当连接摄像机控制装置时， PROMPTER 功能才有效。
当未连接摄像机控制装置时， GENLOCK IN 功能和 RET IN 功
能有效。
GENLOCK IN：用于独立操作时输入外部同步锁定信号
（VBS 或 3 级同步）。
RET IN：用于独立操作时输入返送视频信号。
此接口只接受模拟 HD 信号。不接受 SDI 信号。
输入到此接口的信号无法从 TEST OUT 或 SDI OUT 接口
作为 RET OUT 输出。
无论选择哪个 RET，此接口将显示在寻像器中。
对于显示的 RET 3 信号，CHARACTER 不会重叠。
PROMPTER：用于输出提示器 1 信号 （仅当连接摄像机控制
装置时有效）。当连接具有两个提示器输入的摄像机控制
装置时，输入 1 的信号将从此接口输出。

⓫ **TEST OUT** 接口 （**BNC** 型）
用于输出模拟信号。
根据您在菜单上选择的信号而定，此接口还可输出 VBS 信号、
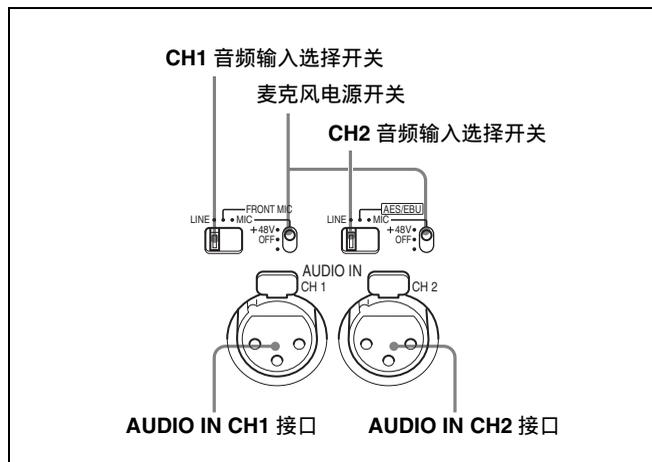与 VF 接口输出信号几乎相同的 HD 信号、 HD-SYNC 信号或
SD-SYNC 信号。

有关输出信号的详情，请参阅 "设定摄像机输出"
（第 20 页）。

⓬ **SDI-MONI**（串行数字接口）接口 （**BNC** 型）
用于 HD-SDI 或 SD-SDI 信号输出。

有关输出信号的详情，请参阅 "设定摄像机输出"
（第 20 页）。

⓭ AUDIO IN CH1 和 CH2 接口 （XLR 3 芯）和开关

连接音频信号。每个声道都有一个输入选择开关和麦克风电源开关。

CH1 音频输入选择开关

根据连接 AUDIO IN CH1 接口的设备设定为合适位置。

LINE： 当连接线路电平 （0 dBu）信号源时

FRONT MIC： 当使用连接至 MIC 1 IN 接口的麦克风时

MIC： 当连接外部麦克风时

CH2 音频输入选择开关

根据连接 AUDIO IN CH2 接口的设备设定为合适位置。

LINE： 当连接线路电平 （0 dBu）信号源时

AES/EBU： 当连接数字音频信号时 （信号必须与摄像机输出同步）。

MIC： 当连接外部麦克风时

麦克风电源开关

当麦克风连接对应的 AUDIO IN 接口时，设定是否对麦克风供电。

+48V： 提供 +48 V 的电源

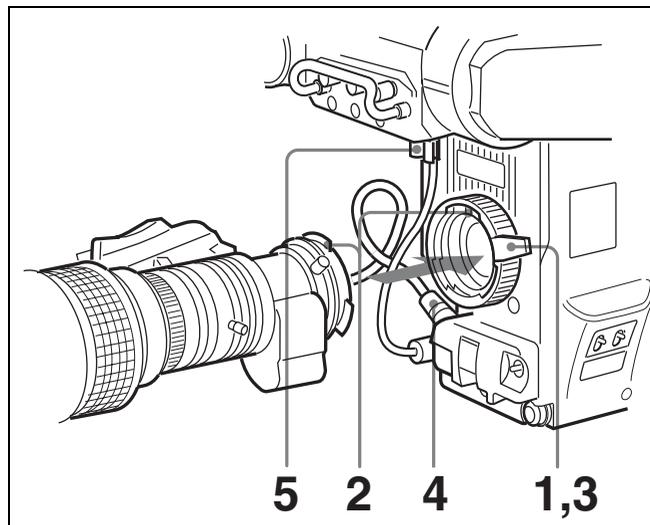**OFF：** 不提供电源

（不对最低位置编配功能。不对麦克风供电。）

> 注意

若要提供+12 V电源，请联系Sony销售代表或Sony维修代表。

准备

安装镜头

有关使用镜头的信息，请参阅镜头的使用说明书。

安装步骤

1 向上推镜头固定杆，从镜头接口上取下镜头接口盖。

2 将镜头定位片对准镜头接口上部的缺口并将镜头插入接口。

3 手持镜头时，将镜头固定杆向下推以固定镜头。

4 将镜头电缆连接至 **LENS** 接口。

5 用电缆夹固定镜头电缆。

调节凸缘焦距

以下情况下需要调节凸缘焦距（镜头接口安装平面和成像平面之间的距离）：

- 初次安装镜头时
- 更换镜头时
- 如果变焦时远摄和广角的对焦不准
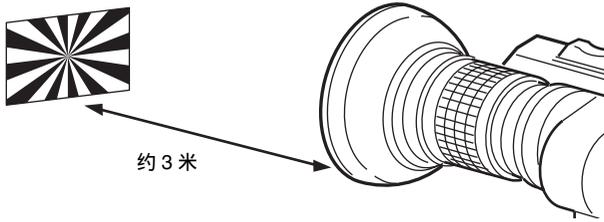
使用对焦辅助指示可更精确调节凸缘焦距。

有关对焦辅助指示，请参阅第 19 页上的 "显示对焦辅助指示"。

> 注意

用于调节凸缘焦距的镜头部件的位置因镜头而异。有关特定镜头，请参阅其使用说明书。

调节步骤

1 将光圈控制设定为手动，并完全打开光圈。

2 将凸缘焦距调节图放置在离摄像机约 **3** 米的位置，并调节灯光以获得一个合适的视频输出电平。

3 拧松 **Ff** （凸缘焦距）环锁定螺丝。

4 采用手动或电动变焦时，将变焦环设定为远摄。

5 对准凸缘焦距调节图并转动对焦环以对焦在图像上。

约 3 米

6 将变焦环设定为广角。

7 转动 **Ff** 环对好图的焦距。小心不要移动定距环。

8 重复步骤 **4** 至 **7** 直至图像远摄和广角均对好焦距。

9 拧紧 **Ff** 环锁定螺丝。

安装寻像器
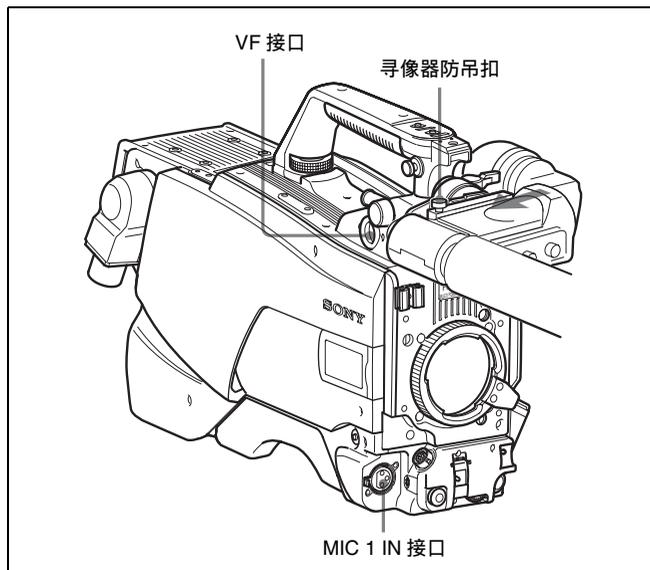
小心

当安装寻像器时，请勿让摄像机的目镜朝向阳光。直射阳光会穿过目镜，并对焦在寻像器上从而造成火灾。

安装寻像器

说明以采用 HDVF-20A/200/C30WR/C35W 寻像器为例。

有关寻像器的详情，请参阅寻像器的使用说明书。

VF 接口

寻像器防吊扣

MIC 1 IN 接口

1 以箭头方向滑动寻像器。
寻像器防吊扣自动向下弹出。

2 松开寻像器左右定位环，将寻像器左右滑至最方便的位置并拧紧此环。（请参阅以下 *"向左或右调节位置"*。）

3 将寻像器电缆连接至摄像机的 **VF** 接口。

4 将麦克风电缆连接至摄像机的 **MIC 1 IN** 接口。

调节寻像器位置

寻像器位置可能需前后左右调节以便观看。

向左或右调节位置
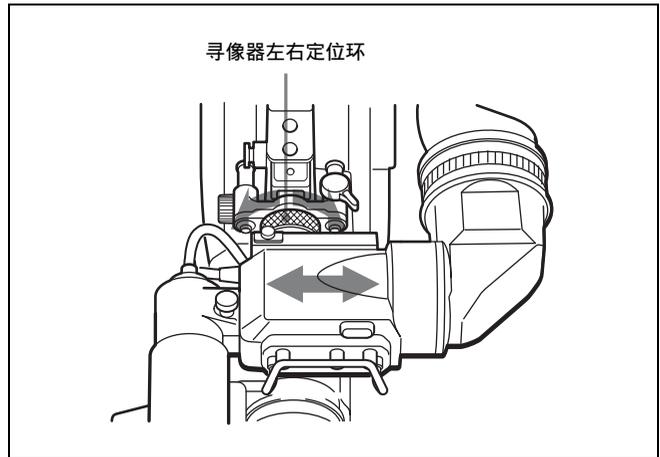
寻像器左右定位环

1 松开寻像器左右定位环。

2 将寻像器左右滑动移至一个好的观看位置。

3 拧紧寻像器左右定位环。

向前或向后调节位置
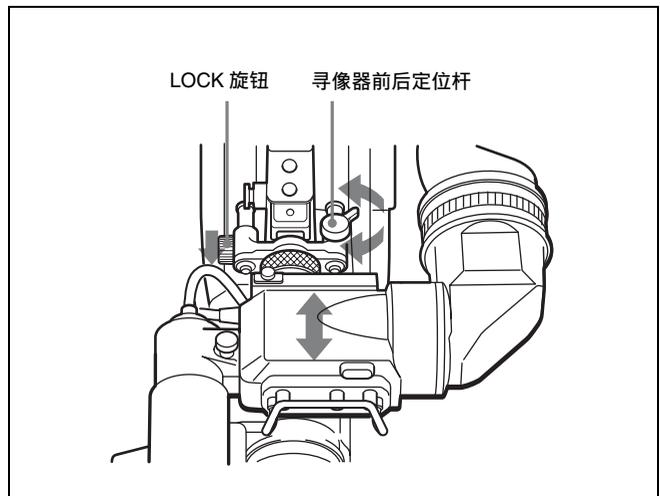
LOCK 旋钮   寻像器前后定位杆

1 松开寻像器前后定位杆和 **LOCK** 旋钮。

2 将寻像器朝摄像机前后滑动移至一个好的观看位置。

3 拧紧寻像器前后定位杆和 **LOCK** 旋钮。

拆下寻像器

松开寻像器左右定位环，提起寻像器防吊扣，然后按照与安装相反的方向滑动以拉出寻像器。

避免寻像器撞击到您的腿 （使用 BKW-401）

为了在携带摄像机时避免让寻像器撞击到您的腿，请安装 BKW-401 寻像器旋转支架 （选购）并向上旋转寻像器。
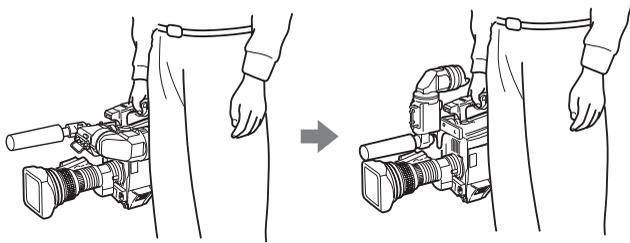
注意

在向上旋转之前，请将寻像器锁定在一个稍前位置。如果寻像器在其最后端位置，则寻像器旋转支架会击打到手柄。

BKW-401 安装步骤

1 按照以下插图中的箭头方向转动 **BKW-401** 旋转结构总成臂。
下一步，使用 **3** 毫米开口宽度的六角扳手，将螺栓 （**M4 × 8**）与垫圈一起取下，从寻像器前后定位结构总成分开旋转结构总成。
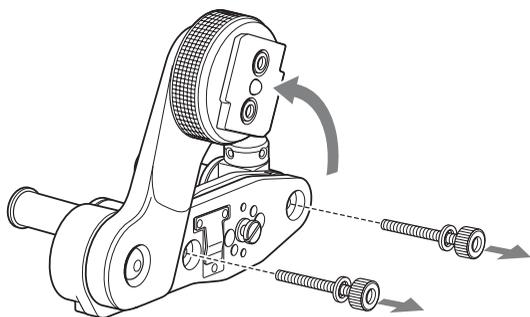
2 按照与步骤 **1** 相同方式，从前后定位装置上取下摄像机的寻像器热靴。
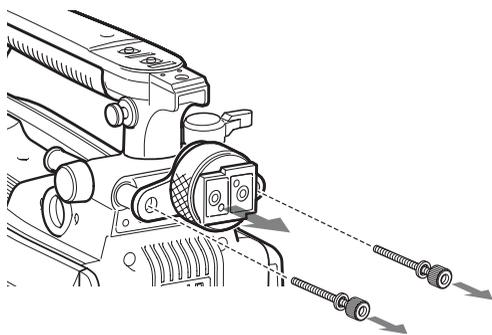
3 使用在步骤 **2** 中从摄像机上取下的两颗螺栓 （**M4 × 8**）和垫圈，将 **BKW-401** 旋转结构总成安装至摄像机。

内六角
螺栓 （M4 × 8）
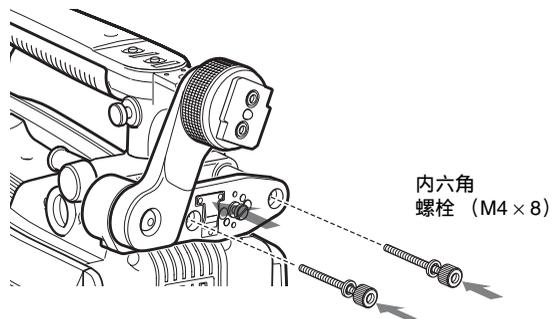
4 当向上旋转 **BKW-401** 支架臂时，请调节前后位置以便摄像机手柄不影响操作。

不影响
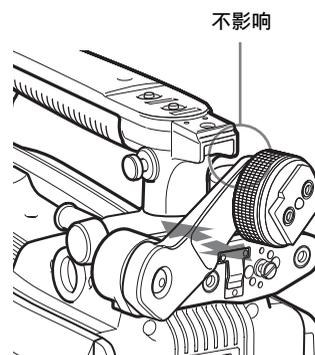
安装电缆夹带 （附送）

通过安装附送的电缆夹带将摄像机电缆固定在摄像机上。

1 将夹带架插入电缆夹带的 Ⓐ 或 Ⓑ 孔。

夹带架

Ⓑ

Ⓐ
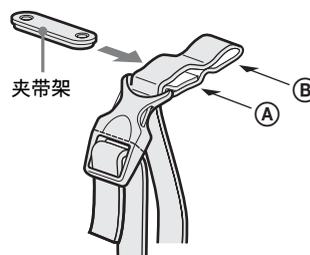
2 从摄像机上取出下图中所示的两颗 **+B3×5 螺丝**和一颗隐藏螺丝。

隐藏螺丝

+B3×5 螺丝
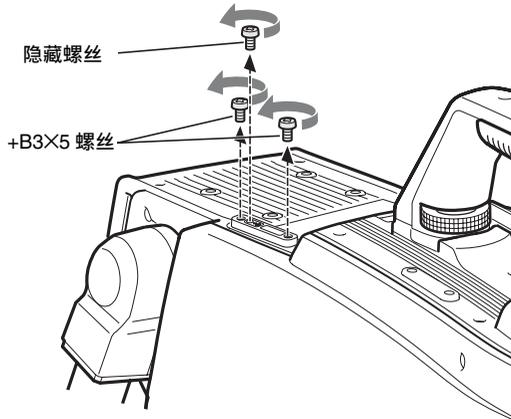
3 使用两颗附送的 **+B3×8 螺丝**将电缆夹带固定在摄像机上。

+B3×8 螺丝
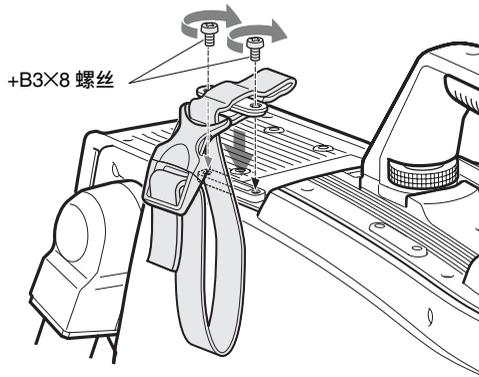
4 ① 松开夹带扣，② 用夹带绑紧电缆，③ 然后重新锁住夹带扣。

①
②
③
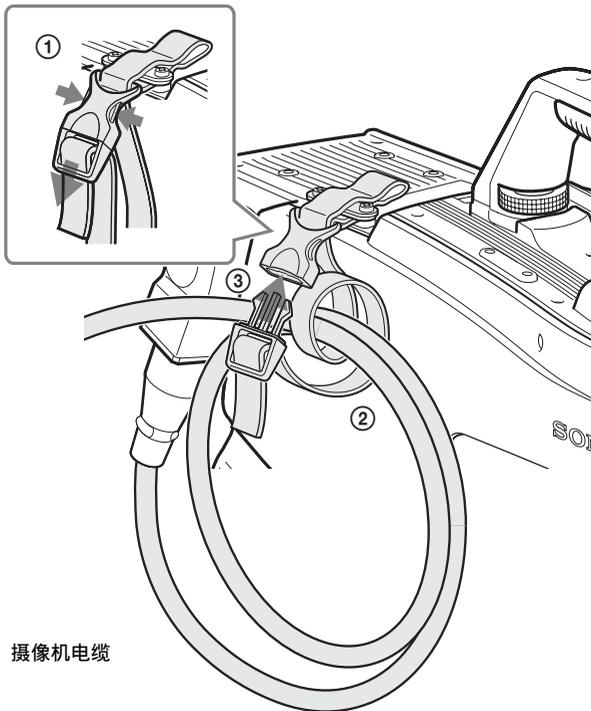
摄像机电缆

5 向下拉夹带的末端调节长度。
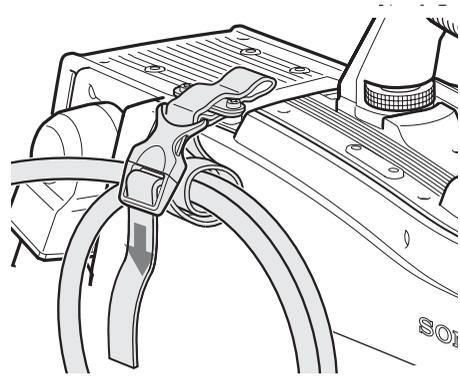
调节肩垫位置

可将肩垫从其中心位置 （出厂设定）最多向后移动 10 毫米或最多向前移动 25 毫米。此调节可帮助您将摄像机置于肩上拍摄时达到最舒适状态。

调节步骤

肩垫锁定杆

1,3

摄像机底部 **2** 肩垫
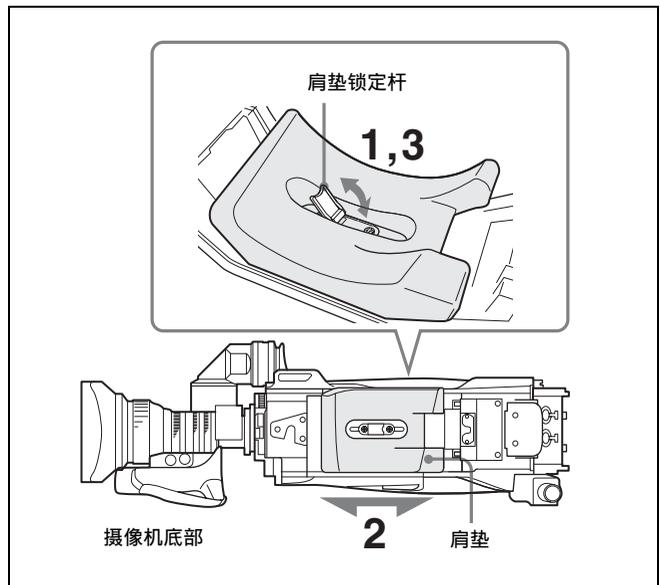
1 提起肩垫中心处的锁定杆以对肩垫解锁。

2 向后或向前滑动肩垫直至其位于最舒适位置。

3 向下移动锁定杆将肩垫锁定在所选位置。

将摄像机安装至三脚架

使用 VCT-14 三脚架适配器将摄像机安装至三脚架。

小心

- 为了摄像机和三脚架适配器的重量平衡,请选择三脚架适配器底部孔中的合适孔。如果选择了不合适的孔,摄像机可能会倾倒。
- 请检查所选孔的尺寸是否符合三脚架的螺丝尺寸。如果不符合,则三脚架适配器无法牢固安装至三脚架。

安装步骤

1 将三脚架适配器安装至三脚架并用螺丝固定。

三脚架适配器

三脚架云台
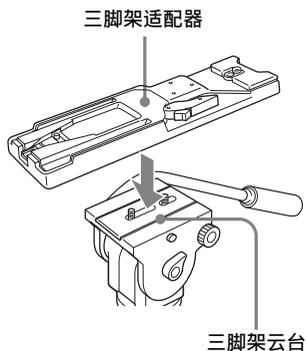
2 将摄像机置于三脚架适配器上,并将其沿三脚架适配器凹槽向前滑直至咔嗒入位。
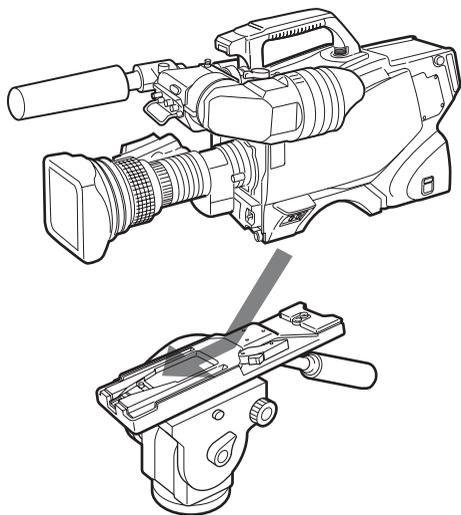
从三脚架适配器上取下摄像机

按住红色按钮并沿箭头方向拉动锁定杆。

锁定杆
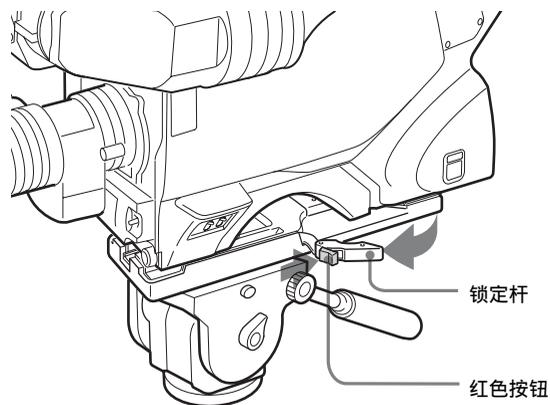
红色按钮

如果三脚架适配器的插脚未返回其原来位置

取下摄像机后,如果三脚架适配器插脚未返回其原来位置,请按住红色按钮并沿箭头方向移动锁定杆直至插脚返回原来位置。当插脚未固定时无法安装上摄像机。

原来位置
插脚
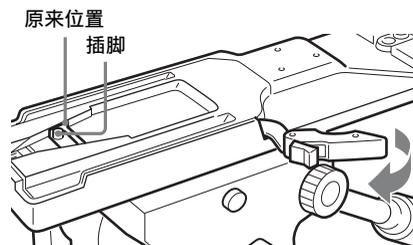
拍摄调节和设定

调节黑平衡和白平衡

为了保持高画质，需要根据情况正确设定黑平衡和白平衡。

> **注意**
>
> 当连接了摄像机控制装置或遥控装置（如 MSU 或 RCP 系列）时，将从 RCP/MSU 进行控制，并且摄像机上的开关将会禁用。

黑平衡调节

在以下情况下需要调节黑平衡：
• 首次使用摄像机时
• 当长时间不使用后使用摄像机时
• 当环境温度骤变时
• 当使用设定菜单改变增益值时
通常情况下，无须在每次打开摄像机时调节黑平衡。

白平衡调节

当光线情况改变时请务必重新调节白平衡。

关于寻像器画面

在开始调节黑平衡或白平衡后，关于调节进程和结果的信息将会显示在寻像器画面上。

> **注意**
>
> 通过自动调节设定的调节值和其他设定保存在摄像机的内存中，即使摄像机电源关闭仍会保存。

调节黑平衡

将 AUTO W/B BAL 开关朝 BLK 侧推 （向下）。
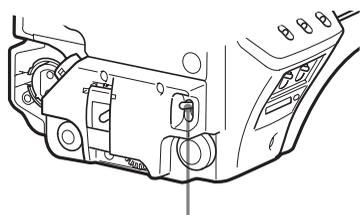
AUTO W/B BAL 开关

开始自动调节黑平衡。
在自动调节黑平衡时，会调节黑色设定和黑平衡。

在调节过程中，在寻像器画面上会显示一条类似下图中的信息。

ABB:EXECUTING
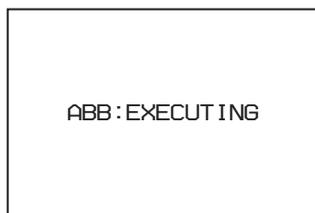
当调节过程完成时，将会显示信息 "ABB: OK"。调节值会自动保存在内存中。

> **注意**
>
> • 在黑平衡调节过程中，光圈会自动关闭。
> • 在黑平衡调节过程中，增益开关电路会自动工作，并且寻像器画面将会闪烁几次。这并非故障。

当自动黑平衡调节失败时

如果自动黑平衡调节过程未成功完成，则寻像器画面上将显示三秒左右的出错信息 "ABB: NG"。
如果显示出错信息，请尝试重新调节黑平衡。
如果几次尝试后出错信息仍然继续显示，则摄像机需要内部检查。

关于黑平衡内存

即使摄像机电源关闭时，保存在内存中的黑平衡值将仍然会保留。

调节白平衡

1 将 **WHITE BAL** 开关设定在 **A** 或 **B**。
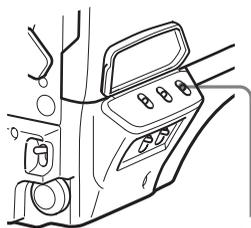
WHITE BAL 开关

2 根据光线条件选择滤镜设定。
当按住 FILTER LOCAL 钮时，按滤镜选择 UP 或 DOWN 钮。
每按一次 UP 或 DOWN 钮依次切换可用的光学滤镜。
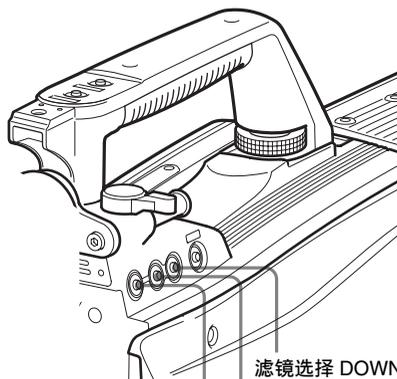
滤镜选择 DOWN 钮

滤镜选择 UP 钮

FILTER LOCAL 钮

光学滤镜	
1	透明
2	1/4 ND
3	1/16 ND
4	1/64 ND
5	十字

3 将一个白色图案放置在与拍摄对象相同的光线条件下，对其放大变焦使画面上出现一个白色区域以满足下图所示的位置和数量要求。

可在拍摄对象附近用一个白色物体（白布、白墙等）取代白色图案。

长方形居中显示在画面上。各边的长度须至少为画面高和宽的 70%。
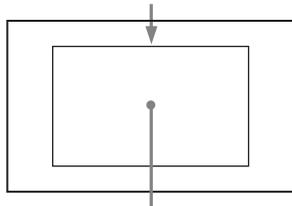
在此长方形内，必须有一块大于整个画面 10% 的白色区域。

注意

小心不要在此长方形内有任何高亮的点。

4 调节镜头光圈孔。

手动调节的镜头：将孔设定为合适值。

自动光圈控制的镜头：将镜头的自动／手动光圈控制开关设定为自动。

5 将 **AUTO W/B BAL** 开关推至 **WHT** 并松开此开关。
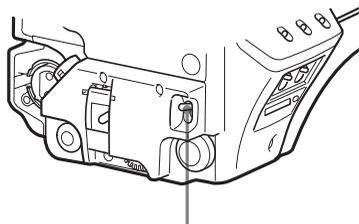
AUTO W/B BAL 开关

开关将回到中央位置，并执行调节。

在调节过程中，寻像器画面上将显示信息 "AWB: EXECUTING"。
将会显示一条类似下图中的信息，调节过程即完成。调节值会自动保存在步骤 **1** 中所选的内存（A 或 B）中。
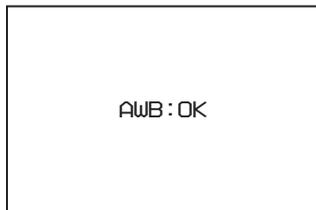
注意

当使用具有自动光圈控制功能的变焦镜头时，可能会出现抖动[1]。调节镜头的光圈增益控制（标有 IG、IS、S 等）。

[1] 抖动：自动光圈反复响应，图像忽明忽暗。

更多信息，请参阅镜头的使用说明书。

当自动白平衡调节失败时

如果白平衡调节过程未成功完成，则寻像器画面上将显示三秒左右的出错信息 "AWB: NG"。
如果显示出错信息，请尝试重新调节白平衡。
如果几次尝试后出错信息仍然继续显示，则摄像机需要内部检查。

当没有时间调节白平衡时

将 WHITE BAL 开关设定在 PRST。白平衡将根据滤镜设定自动进行设定。

关于白平衡内存

即使摄像机电源关闭时，保存在内存中的白平衡值将仍然会保留。
有两个白平衡内存，A 和 B。当 AUTO W/B BAL 开关推至 WHT 侧时，白平衡将会自动根据滤镜设定调节。调节值会保存在所选内存中。每个内存最多可保存五个调节值，总共为 10 个。

设定电子快门

本部分介绍可用于电子快门的不同模式，并提供设定快门模式和快门速度的步骤。

注意

当连接了摄像机控制装置或遥控装置（如 MSU-1000/1500 主设置装置和 RCP-1000/1500 系列遥控面板）时，从外部控制装置控制电子快门，并且摄像机上的控制钮将会禁用。

关于快门模式

可与摄像机电子快门一起使用的快门模式和可选择的快门速度如下所示：

快门模式和速度

快门模式	快门速度	用途
标准	1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000 秒	用于获得快速移动对象的清晰图像
ECS（扩展清晰扫描）	在 50.00 Hz 至 4700 Hz 范围内连续可变	用于在视频监视器上获得没有水平横线的图像

注意

使用人工照明，特别是荧光灯和水银蒸汽灯，虽然亮度稳定，但实际上红色、绿色和蓝色分量的强度因电源频率而有所变化。此现象称为 "闪烁"。在这些照明条件下使用电子快门时，有时闪烁会更加明显。特别是当电源频率为 60 Hz 时，彩色闪烁明显。在电源频率为 50 Hz 的地区，将快门速度设定为 1/100 秒将减轻闪烁。

选择快门模式和速度

在快门模式和标准模式中的快门速度可使用 SHUTTER 开关设定。

设定快门模式和标准模式中的快门速度

1 将 **SHUTTER** 开关从 **ON** 位置推至 **SEL** 位置。
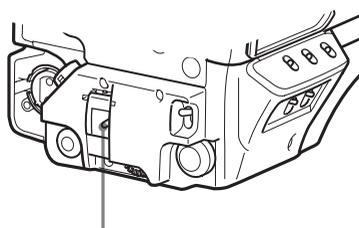
SHUTTER 开关

当前快门设定将显示在寻像器画面的设定变更 / 调节进程信息显示区域内，时间约三秒钟。
例："SHUTTER: 1/250"

2 在显示消失之前，重新将 **SHUTTER** 开关推至 **SEL** 位置。重复此操作直至显示想要的模式或速度。
当显示所有模式和速度时，将会按以下顺序显示：

标准模式

1/60 → 1/125 → 1/250 → 1/500 →1/1000 →1/2000

ECS 模式

设定对焦辅助功能

使用 OPERATION 菜单，可启用更易于在寻像器上对焦的辅助功能。

添加 VF 细节信号

在寻像器画面上将 VF 细节信号添加至图像的锐利边缘更易于通过细节信号的变化或从细节信号转换的色彩 (色彩细节) 查看对焦情况。
细节信号最强处的对焦设定为最合适的对焦设定。

1 打开摄像机。

2 当按住 **MENU SEL** 旋钮 **/ENTER** 钮时将 **DISPLAY** 开关设定为 **MENU**。
摄像机进入菜单模式，画面右上角显示 "TOP"。

3 旋转 **MENU SEL** 旋钮 **/ENTER** 钮以将箭头标记 (➔) 对准 "TOP"，并按 **MENU SEL** 旋钮 **/ENTER** 钮。
显示 TOP MENU 画面。

```
<TOP MENU>

➔USER
 USER MENU CUSTOMIZE
 ALL
 ·OPERATION
 ·PAINT
 ·MAINTENANCE
 ·FILE
 ·DIAGNOSIS
```
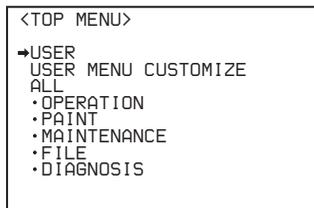
4 旋转 **MENU SEL** 旋钮 **/ENTER** 钮以将箭头标记 (➔) 对准 **OPERATION**，并按 **MENU SEL** 旋钮 **/ENTER** 钮。
显示 OPERATION 菜单的 CONTENTS 页。

```
      CONTENTS      00   TOP
↓↓
➔01.<VF DISPLAY>
 02.<'!'IND>
 03.<VF MARKER>
 04.<VF DETAIL>
 05.<FOCUS ASSIST>
 06.<ZEBRA>
 07.<CURSOR>
 08.<SPIRIT LEVEL>
 09.<VF OUT>
 10.<SWITCH ASSIGN1>
```

5 旋转 **MENU SEL** 旋钮 **/ENTER** 钮以将箭头标记 (➔) 对准 **<VF DETAIL>**，并按 **MENU SEL** 旋钮 **/ENTER** 钮。
显示 <VF DETAIL> 页。

```
<VF DETAIL>      ➔ 04 TOP

VF DETAIL :  ON   (25%)
 CRISP    :  0
 FREQUENCY:  9M
 FLICKER  :  OFF
 AREA     :  70%
 ZOOM LINK:  ON   100%
COLOR DETAIL :  ON  BLUE
 PEAK COLOR  :  ON
 CHROMA LEVEL: 100%
```
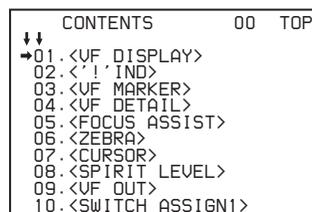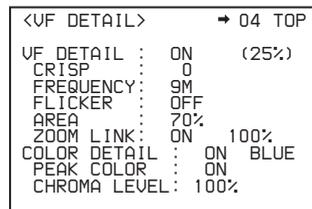
6 旋转 **MENU SEL** 旋钮 **/ENTER** 钮以将箭头标记 (➔) 对准要设定的项目，并按 **MENU SEL** 旋钮 **/ENTER** 钮。

使用 VF 细节信号
将 VF DETAIL 设定为 ON 启用 VF 细节功能，以将细节信号添加至图像的锐利边缘。可在 0 至 100% (预设为 25%) 范围内调节信号等级 (强度)。
可用以下菜单项目调节细节信号的特性。
CRISP：调节以消除细节信号的精细部分。
FREQUENCY：改变锐利边缘的检测带。
FLICKER：将可闪烁细节信号的功能设定为 ON/OFF，可更便于在寻像器画面上检查信号。
AREA：限制显示细节信号的区域。
ZOOM LINK：在全屏 WIDE 位置设定 VF 细节电平。(VF 细节电平根据变焦位置改变。)

使用色彩细节
将 COLOR DETAIL 设定为 ON 以将 VF 细节信号转换为指定色彩。可更便于在 LCD 屏幕 (包括寻像器画面) 上查看信号。可在 ON 旁边栏里选择显示色彩。
您可用以下菜单项目调节色彩。
PEAK COLOR：将可改变细节信号最强处的色彩的功能设定为 ON/OFF。
CHROMA LEVEL：用于减少视频信号的色度成分 (仅限寻像器上的视频信号)。

7 旋转 **MENU SEL** 旋钮 **/ENTER** 钮显示想要的设定并按 **MENU SEL** 旋钮 **/ENTER** 钮。

8 若要完成调节，将 **DISPLAY** 开关设定为 **OFF** 以退出菜单模式。

显示对焦辅助指示

对焦辅助指示功能会提取对象的不规则性并将集成值转换为电平指示，可显示对焦情况。

电平指示（其位置和操作可调节。）
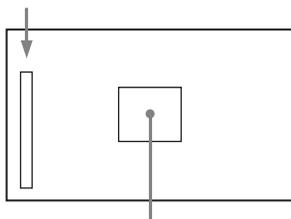
显示对焦检测区域的区域标记（其尺寸和位置可调节。）

指示显示最大电平处的对焦设定为最合适的对焦设定。（指示范围会根据像素或拍摄环境有较大改变。必要时用 GAIN 和 OFFSET 进行调节。）

1 显示 **OPERATION** 菜单的 **CONTENTS** 页（请参阅"添加 **VF** 细节信号"中的步骤 **1** 至 **4**）。

2 旋转 **MENU SEL** 旋钮 **/ENTER** 钮以将箭头标记（➜）对准 **<FOCUS ASSIST>**，并按 **MENU SEL** 旋钮 **/ENTER** 钮。
显示 <FOCUS ASSIST> 页。

```
<FOCUS ASSIST>    ➜ 05 TOP

INDICATOR : OFF
 MODE     : BOX    BOTTOM
 LEVEL    : 3      QUICK
 GAIN     : 50
 OFFSET   : 50
AREA MARKER: ON
 SIZE     : MIDDLE
 POSITION : CENTER
 POSITION H: 50
 POSITION V: 50
```
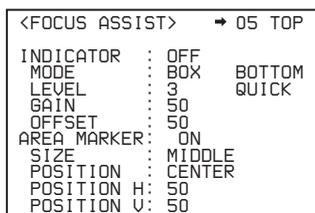
3 旋转 **MENU SEL** 旋钮 **/ENTER** 钮以将箭头标记（➜）对准要设定的项目，并按 **MENU SEL** 旋钮 **/ENTER** 钮。

使用电平指示
将 INDICATOR 设定为 ON 在寻像器上显示电平指示。
可用以下菜单项目设定显示格式。
MODE：设定指示的类型和位置。
LEVEL：设定指示的浓度和响应速度。
GAIN：设定指示的灵敏度。[1]
OFFSET：设定对焦检测值的偏移。[2]

[1]通常，指示的灵敏度会与 AREA MARKER SIZE 设定值一起自动设定为最合适值。根据拍摄环境而定，当无法获得最合适灵敏度值时，请使用此设定。
[2]通常，最合适偏移会自动与 AREA MARKER SIZE 和 MASTER GAIN 设定值一起设定。根据拍摄环境而定，当无法获得最合适偏移时，请使用此设定。

使用区域标记
将 AREA MARKER 设定为 ON 可在寻像器画面上将对焦的检测区域显示为标记。
您可用以下菜单项目设定检测区域的尺寸和位置。
SIZE：检测区域的尺寸可调节。（如果区域尺寸太大，区域中会包括对象和背景，使指示显示易于偏离对象。）
POSITION：粗略设定检测区域的位置。
POSITION H：在水平方向上精细调节检测区域的位置。
POSITION V：在垂直方向上精细调节检测区域的位置。

4 旋转 **MENU SEL** 旋钮 **/ENTER** 钮显示想要的设定并按 **MENU SEL** 旋钮 **/ENTER** 钮。

5 若要完成调节，将 **DISPLAY** 开关设定为 **OFF** 以退出菜单模式。

注意

• 电平指示和效果区域标记无法同时显示，后面设定为 ON 的项目优先显示。
• 区域标记和宽高安全标记无法同时显示，后面设定为 ON 的项目优先显示。
• 当显示对焦辅助指示时，请检查是否已精确调节凸缘焦距。
  有关凸缘焦距，请参阅第 11 页上的"调节凸缘焦距"。

设定摄像机输出

您可以通过菜单操作指定从摄像机直接输出的视频信号。

注意

MAIN（摄像机图像）、RET（返送视频）或 VF（与寻像器画面上显示相同的图像）设定为 SD-SDI 和 VBS 所共用。无法输出不同信号。

用于输出设定的菜单页在出厂时已注册到 USER 菜单。
- <OUTPUT FORMAT>
- <TEST OUT>
- <SDI OUT>

将以下菜单项目设定为表中所示的设定。

有关菜单操作和 USER 菜单的详情，请参阅第 22 页上的"菜单操作"。

输出正在拍摄的信号 （摄像机图像）

通过在 <SDI OUT> 或 <TEST OUT> 页上将 CHARACTER 设定为"ON"，可将与寻像器画面上显示相同的文字信息添加到输出信号。

作为 HD-SDI 输出

菜单页	项目	设定
<SDI OUT>	SDI-MONI OUT	MAIN

作为 SD-SDI 输出

菜单页	项目	设定
<SDI OUT>	SDI-MONI OUT	SD-SDI
	DOWN CONVERTER SELECT	MAIN

作为 VBS 输出

菜单页	项目	设定
<TEST OUT>	OUTPUT	VBS
	DOWN CONVERTER SELECT	MAIN

持续输出返送视频

- 当连接了摄像机控制装置时，可以从摄像机输出发送到摄像机控制装置的信号之一。
- 将输出最后选择的返送信号。
- 通过在 <SDI OUT> 或 <TEST OUT> 页上将 CHARACTER 设定为"ON"，可将与寻像器画面上显示相同的文字信息添加到输出信号。

作为 HD-SDI 输出

菜单页	项目	设定
<SDI OUT>	SDI-MONI OUT	RET

作为 SD-SDI 输出

菜单页	项目	设定
<SDI OUT>	SDI-MONI OUT	SD-SDI
	DOWN CONVERTER SELECT	RET

作为 VBS 输出

菜单页	项目	设定
<TEST OUT>	OUTPUT	VBS
	DOWN CONVERTER SELECT	RET

输出与寻像器画面上相同的图像

- 通过 HD-SDI，根据 VF MARKER、CHARACTER、VF DETAIL、ZEBRA 等的设定，您可以获得包含与寻像器画面上显示相同的信息的信号。用于添加信息的 ON/OFF 或其它设定与寻像器的设定相同。输出与切换 Y、R、G 和 B 或切换到返送信号同步。
- 通过SD-SDI或VBS，输出仅与在返送信号和摄像机图像之间切换同步。与切换 Y、R、G 和 B 并不对应。CHARACTER 之外的信息 （如 VF MARKER、VF DETAIL、ZEBRA）无法添加到输出。

作为 HD-SDI 输出

菜单页	项目	设定
<SDI OUT>	SDI-MONI OUT	VF

作为 SD-SDI 输出

菜单页	项目	设定
<SDI OUT>	SDI-MONI OUT	SD-SDI
	DOWN CONVERTER SELECT	VF

作为 VBS 输出

菜单页	项目	设定
<TEST OUT>	OUTPUT	VBS
	DOWN CONVERTER SELECT	VF

寻像器画面状态显示

除了视频图像，寻像器还能显示说明摄像机设定和操作状态的文本和信息，以及中心标记或安全区域标记等项目。

当 DISPLAY 开关设定为 ON 时
使用菜单或相关开关设定为 ON 的项目将会显示在画面的上下边缘。
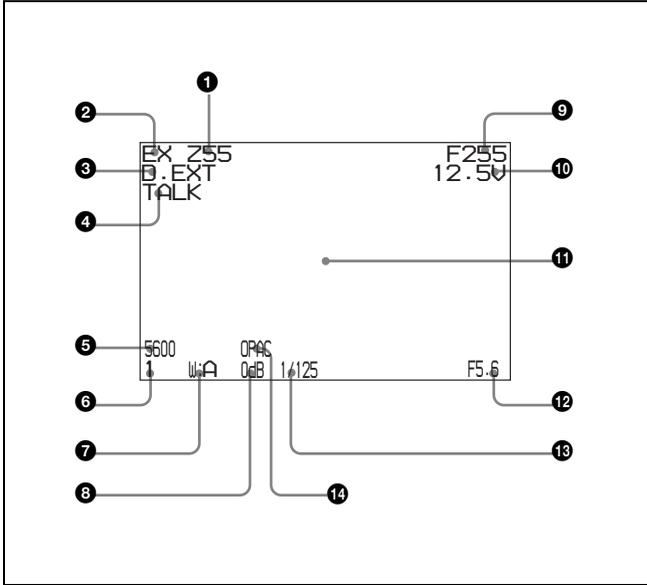
❶ 变焦位置
在广角 (0) 和远摄 (99) 之间指示变焦透镜的近似位置。显示距远摄端的距离。

❷ 镜头延伸器
当使用镜头延伸器时显示 "EX"。

❸ 数字延伸器
当使用数字延伸器时显示 "D.EXT"。

❹ TALK 指示
当对讲机麦克风设定为 ON 时显示。

❺ 5600K 模式
当 5600K 设定为 ON 时显示。

❻ 滤镜
显示当前选择的滤镜类型。数字（1、2、3、4 或 5）表示 ND 滤镜。

❼ 白平衡内存
显示当前选择的白平衡自动调节内存。
W:A： WHITE BAL 开关设定为 "A"
W:B： WHITE BAL 开关设定为 "B"
W:P： WHITE BAL 开关设定为 "PRST"

❽ 增益值
显示用 GAIN 开关设定的视频增益值 (dB)。

❾ 对焦位置
以数值方式显示变焦镜头的对焦位置（0 至 255（无限远））。

注意
仅当连接了串行通信镜头时才显示。

❿ 电池电压
显示输入电压。

⓫ 设定变更 / 调节进程信息区域
仅当菜单的 MESSAGE 项目设定为非 OFF 时才使用此区域。

⓬ F 值
指示镜头 F （光圈孔）值。

⓭ 快门 /ECS
显示快门 /ECS 状态。如果电子快门设定为 OFF，则不显示内容。

⓮ 光轴补偿 （OPAC）模式
当光轴补偿设定为 ON 时显示。

当将 CANCEL/STATUS 开关朝 STATUS 一侧按时
状态显示会改变以显示以下项目：
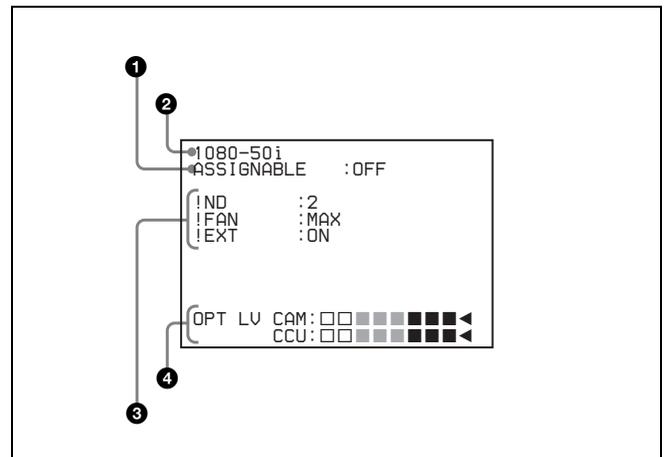
❶ 可编配开关指示
指示编配至可编配开关 （第 8 页）的功能。

有关可编配的功能，请参阅 OPERATION 菜单 <SWITCH ASSIGN1> （第 34 页）。

❷ 格式指示
显示当前视频格式。

❸ '！'指示区域
此区域用于以 < '！'IND> 功能显示异常状态。使用菜单可设定显示选项。

详情请参阅 OPERATION 菜单 < '！'IND> （第 32 页）。

❹ 光接收等级指示
此区域分段显示光接收等级。
CAM： 摄像机 CCU 接口 *（第 9 页）*处的光接收等级
CCU： CCU 的 CAMERA 接口处的光接收等级

注意
如果连接了 HDCU2080 以外的摄像机控制装置，可能无法获得校正指示。

菜单操作

显示在寻像器画面上的菜单可进行各种摄像机设定。
以下控制钮用于操作菜单。

DISPLAY 开关

CANCEL/STATUS 开关

按

旋转
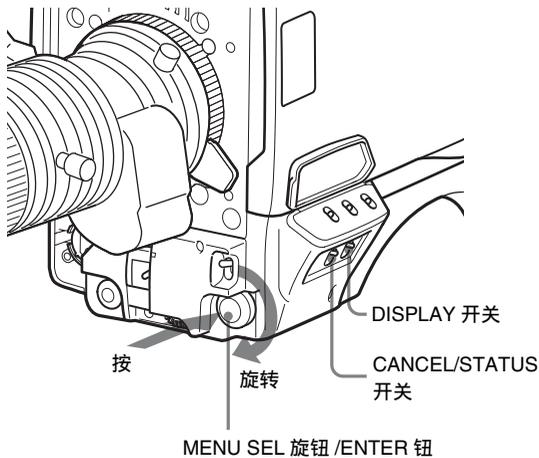
MENU SEL 旋钮 /ENTER 钮

开始菜单操作

显示菜单页

将 DISPLAY 开关从 OFF 设定为 MENU。
将会显示上次操作的菜单页。（如果是首次，则会显示
OPERATION 菜单的 CONTENTS 页。）

显示 TOP MENU 画面

如果在按住 MENU SEL 旋钮 /ENTER 钮时将 DISPLAY 开关从
OFF 设定为 MENU，则画面的右上角会显示 "TOP"。
选择会显示 TOP MENU 画面，画面上会列出可用菜单，您可
在此画面上选择菜单。

TOP MENU 画面

```
<TOP MENU>

➜USER
 USER MENU CUSTOMIZE
 ALL
 ·OPERATION
 ·PAINT
 ·MAINTENANCE
 ·FILE
 ·DIAGNOSIS
```
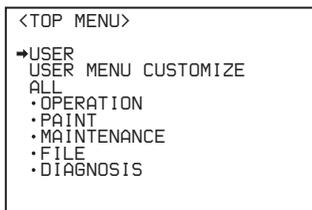
禁用 "TOP" 指示

将电源关闭一次然后打开，或在将 CANCEL/STATUS 开关按
至 CANCEL 端时将 DISPLAY 开关从 OFF 设定为 MENU。这
样可禁用 TOP 选择。

可用菜单

USER 菜单

为了方便，此菜单包括从 OPERATION、 PAINT、
MAINTENANCE、FILE 和 DIAGNOSIS 菜单中选择的菜单页。
可用 USER MENU CUSTOMIZE 菜单更改、添加和删除菜单
页。

USER MENU CUSTOMIZE 菜单

此菜单可供您编辑 USER 菜单。

有关 USER 菜单的详情，请参阅第 24 页上的 "编辑 USER
菜单"。

ALL 菜单

此菜单可供您像单个菜单一样控制 OPERATION 菜单、PAINT
菜单、MAINTENANCE 菜单、FILE 菜单和 DIAGNOSIS 菜单
的所有项目。

OPERATION 菜单

此菜单含有供摄像机操作者使用摄像机的项目。主要是允许寻
像器、对讲机和开关设定。

PAINT 菜单

此菜单含有在使用波形监视器监视从摄像机输出的波形时进行
详细图像调节的项目。使用此菜单通常需要视频工程师的支
持。
尽管您还能使用外部遥控面板或主设置装置在本菜单上设定项
目，但在室外单独使用摄像机时菜单有效。

MAINTENANCE 菜单

此菜单含有执行摄像机维修操作的项目，如更改系统或设定常
用 "绘画" 项目等。

FILE 菜单

此菜单用于执行菜单操作，如写入或清除参考文件。

DIAGNOSIS 菜单

此菜单可供您确认自检信息。

在 TOP MENU 画面上选择菜单

1 旋转 **MENU SEL 旋钮 /ENTER** 钮将箭头标记（➜）对准想
要的菜单指示。

2 按 **MENU SEL 旋钮 /ENTER** 钮。
显示所选菜单的最近一次操作页或 CONTENTS 页。

选择页面

从 CONTENTS 页选择页时

例：OPERATION 菜单的 CONTENTS 页

如果画面可滚动显示，则箭头将会指示
滚动方向。

```
     CONTENTS       00  TOP
⇅  01.<VF DISPLAY>
    02.<'!'IND>
    03.<VF MARKER>
➜  □04.<VF DETAIL>
    05.<FOCUS ASSIST>
    06.<ZEBRA>
    07.<CURSOR>
    08.<SPIRIT LEVEL>
    09.<VF OUT>
    10.<SWITCH ASSIGN1>
```

➜ 标记
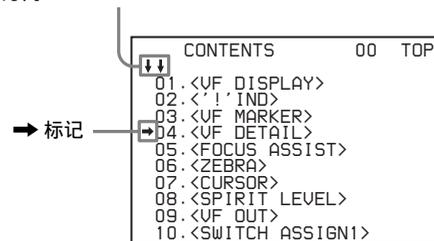
旋转 MENU SEL 旋钮 /ENTER 钮将箭头标记 （➜）对准想要
的页面指示，然后按 MENU SEL 旋钮 /ENTER 钮。

显示所选页面。

页码

```
<VF DETAIL>        ➜ 04  TOP

VF DETAIL :   ON      25%
  CRISP    :    0
  FREQUENCY:    9M
  FLICKER  :   OFF
  AREA     :   70%
  ZOOM LINK:   ON     100%
COLOR DETAIL :   ON   BLUE
  PEAK COLOR :   ON
  CHROMA LEVEL: 100%
```
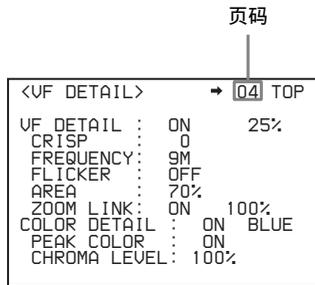
改变显示页

1 检查箭头标记 （➜）是否位于页码的左侧，然后按 **MENU SEL 旋钮 /ENTER 钮**。
箭头标记 （➜）改变为闪烁问号 （**?**）标记。

闪烁

```
<VF DETAIL>        ? 04  TOP

VF DETAIL :   ON      25%
  CRISP    :    0
  FREQUENCY:    9M
  FLICKER  :   OFF
  AREA     :   70%
  ZOOM LINK:   ON     100%
COLOR DETAIL :   ON   BLUE
  PEAK COLOR :   ON
  CHROMA LEVEL: 100%
```
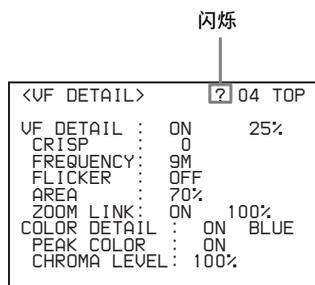
2 旋转 **MENU SEL 旋钮 /ENTER 钮**翻页。

3 当显示所需页面时，按 **MENU SEL 旋钮 /ENTER 钮**。
"**?**"标记将会变回箭头标记（➜），并可用显示页进行操作。

返回 TOP MENU 画面
将箭头标记（➜）对准菜单页右上方的"TOP"，然后按 MENU SEL 旋钮 /ENTER 钮。

```
<VF DETAIL>         04➜TOP

VF DETAIL :   ON      25%
  CRISP    :    0
  FREQUENCY:    9M
  FLICKER  :   OFF
  AREA     :   70%
  ZOOM LINK:   ON     100%
COLOR DETAIL :   ON   BLUE
  PEAK COLOR :   ON
  CHROMA LEVEL: 100%
```
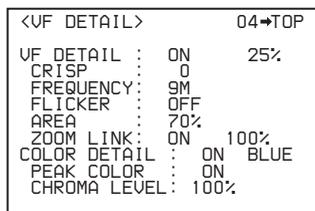
恢复 TOP MENU 画面。

设定菜单项目

如果在页码的左侧闪烁 "**?**"标记，请按 MENU SEL 旋钮 /ENTER 钮将其变为箭头标记（➜）。可在显示页上进行设定。

1 旋转 **MENU SEL 旋钮 /ENTER 钮**将箭头标记（➜）对准想要的项目。

2 按 **MENU SEL 旋钮 /ENTER 钮**。
箭头标记 （➜）改变为闪烁 "**?**"标记。

3 旋转 **MENU SEL 旋钮 /ENTER 钮**改变设定值。
当旋钮快速旋转时，数值将快速变化；当慢速旋转时，数值将慢速变化。

重设更改的值
如果在按 MENU SEL 旋钮 /ENTER 钮之前将 CANCEL/ STATUS 开关朝 CANCEL 端按，则设定将会返回其以前值。

中断设定
将 DISPLAY 开关设定为 OFF 以关闭菜单画面显示。
通过将 DISPLAY 开关设定回 MENU 可重新开始设定操作。

4 按 **MENU SEL 旋钮 /ENTER 钮**。
"**?**"标记将会变回箭头标记 （➜），并将注册新设定。

5 若要在相同菜单页上更改其他设定项目，请重复步骤 **1** 至 **4**。

指定字符串

当箭头标记 （➜）对准要指定文件 ID 等字符串的项目时按 MENU SEL 旋钮 /ENTER 钮，会显示光标和可选字符列表。
显示的光标可通过旋转 MENU SEL 旋钮 /ENTER 钮移动。

1 将光标置于想要输入字符的位置，然后按 **MENU SEL 旋钮 /ENTER 钮**。
另一个光标出现在字符列表上。

2 将光标置于要输入的字符处，然后按 **MENU SEL 旋钮 / ENTER 钮**。
重复步骤 **1** 和 **2**。

通过在字符列表下的行上选择 INS，您可在光标位置处输入一个空格。

选择 DEL 删除光标位置处的字符。

通过选择 RET 可在不改变字符的情况下返回步骤 **1**。

如果输入允许的最大字符数 （至一行右侧末端的停止标记），光标会移至字符列表下的行上的 ESC。

若要注册已设定的新字符串，请选择 END 并按 MENU SEL 旋钮 /ENTER 钮。

若要复原之前的字符串，请选择 ESC 并按 MENU SEL 旋钮 /ENTER 钮。

使菜单项目返回其标准值

选择要返回其标准值的菜单项目，然后当显示箭头标记 （➜） 时按住 MENU SEL 旋钮 /ENTER 钮约 3 秒钟。
如果在 FILE 菜单的 <FILE CLEAR> 页上将"10 SEC CLEAR" 设定成了 ON，则通过再按住 MENU SEL 旋钮 /ENTER 钮 10 秒钟可将选择项目的参考文件中的设定返回出厂设定值。

结束菜单操作

将 DISPLAY 开关置于 OFF 端。

编辑 USER 菜单

可从 OPERATION、PAINT、MAINTENANCE、FILE 和 DIAGNOSIS 菜单选择所需页和项目，并将其注册到 USER 菜单。

如果对 USER 菜单指定常用的页面或项目，则您可轻松调出并使用。

以下页面包含在出厂设定的 USER 菜单上：

菜单页标题	USER 菜单编号	源菜单 / 页码	
<VF OUT>	U01	OPERATION	08
<VF DETAIL>	U02	OPERATION	04
<FOCUS ASSIST>	U03	OPERATION	05
<VF DISPLAY>	U04	OPERATION	01
< '!' IND>	U05	OPERATION	02
<VF MARKER>	U06	OPERATION	03
<CURSOR>	U07	OPERATION	07
<ZEBRA>	U08	OPERATION	06
<SWITCH ASSIGN1>	U09	OPERATION	09
<SWITCH ASSIGN2>	U10	OPERATION	10
<HEADSET MIC>	U11	OPERATION	12
<TEST OUT>	U12	MAINTENANCE	M09
<SDI OUT>	U13	MAINTENANCE	M10
<ROM VERSION>	U14	DIAGNOSIS	D03

有关各页上的项目，请参阅第 27 页上的 "菜单列表" 中表格内对应的源菜单页。

通过添加、删除或替换页面，USER MENU CUSTOMIZE 菜单可供您配置只含有所需页和项目的 USER 菜单。

按项目编辑

USER MENU CUSTOMIZE 菜单可供您将新页面添加至 USER 菜单并将所需项目添加至该页。

当 EDIT 页含有出厂预设项目时，USER 1 EDIT 至 USER 19 EDIT 页在其初始状态下为全部空白。其中每一页最多可注册 10 个项目，包括空白行。

将项目添加至页面
方式如下所示。

1 将 **CANCEL/STATUS** 开关朝 **STATUS** 端按时，将 **DISPLAY** 开关从 **OFF** 位置移至 **MENU** 位置。
出现 TOP MENU 画面。

2 旋转 **MENU SEL** 旋钮 **/ENTER** 钮将箭头标记 （➡）移至 "**USER MENU CUSTOMIZE**"，然后按 **MENU SEL** 旋钮 **/ ENTER** 钮。
如果这是首次显示 USER MENU CUSTOMIZE 菜单，则会出现菜单的 CONTENTS 页。

```
     CONTENTS      E00 TOP
 ↓↓
  01.EDIT PAGE
  02.USER 1 EDIT
→03.USER 2 EDIT
  04.USER 3 EDIT
  05.USER 4 EDIT
  06.USER 5 EDIT
  07.USER 6 EDIT
  08.USER 7 EDIT
  09.USER 8 EDIT
  10.USER 9 EDIT
```

如果之前已使用过 USER MENU CUSTOMIZE 菜单，则出现上一次读取的页面。

3 如果显示 **CONTENTS** 页，请旋转 **MENU SEL** 旋钮 **/ ENTER** 钮将箭头标记 （➡）移至 **USER 1 EDIT** 至 **USER 19 EDIT** 的任何一个，然后按 **MENU SEL** 旋钮 **/ ENTER** 钮显示该页。
如果显示不同页面，请旋转 **MENU SEL** 旋钮 **/ENTER** 钮直至所需页出现，然后按 **MENU SEL** 旋钮 **/ENTER** 钮选择该页。
例：当选择 USER 2 EDIT 页时

```
      USER 2 EDIT  E03 TOP

  →
```

4 将箭头标记 （➡）移至要添加的项目 （如果该页上无任何项目，则无需此操作，如步骤 **3** 图中所示），然后按 **MENU SEL** 旋钮 **/ENTER** 钮。
出现 EDIT FUNCTION 画面。

```
     EDIT FUNCTION    ESC

  →INSERT
   MOVE
   DELETE
   BLANK
```

5 将箭头标记（➡）移至 "**INSERT**"，并按 **MENU SEL** 旋钮 **/ENTER** 钮。
出现添加了上一个项目的页面。

```
  <SW STATUS>     P01 ESC

  FLARE    :→ ON
  GAMMA    :  ON
  BLK_GAM  : OFF
  KNEE     :  ON
  WHT CLIP :  ON
  DETAIL   :  ON
  LVL DEP  :  ON
  SKIN DTL : OFF
  MATRIX   : OFF
```

6 添加项目。

① 旋转 MENU SEL 旋钮 /ENTER 钮直至出现有所需项目的页面，然后按 MENU SEL 旋钮 /ENTER 钮。

② 旋转 MENU SEL 旋钮 /ENTER 钮将箭头标记（➡）移至所需项目，然后按 MENU SEL 旋钮 /ENTER 钮。

重新出现 USER 2 EDIT 页面，显示新增的项目。

7 重复步骤 **4** 至 **6** 添加其他项目。
最多可在一页上添加 10 个项目。

从页面上删除项目

方式如下所示：

1 将箭头标记 （➡）移至要删除的项目，并按 **MENU SEL**
旋钮 /ENTER 钮。
出现 EDIT FUNCTION 画面。

2 选择 "**DELETE**"，并按 **MENU SEL** 旋钮 **/ENTER** 钮。
之前显示的页面重新出现，并且在右上方出现信息
"DELETE OK? YES➡NO"。

3 若要删除，旋转 **MENU SEL** 旋钮 **/ENTER** 钮将箭头标记
（➡）移至 "**YES**"，然后按 **MENU SEL** 旋钮 **/ENTER**
钮。

改变页面上项目的顺序

方式如下所示：

1 旋转 **MENU SEL** 旋钮 **/ENTER** 钮将箭头标记（➡）移至要
移动的项目，然后按 **MENU SEL** 旋钮 **/ENTER** 钮。
出现 EDIT FUNCTION 画面。

2 选择 **MOVE**，然后按 **MENU SEL** 旋钮 **/ENTER** 钮。
之前显示的页面重新出现。

3 旋转 **MENU SEL** 旋钮 **/ENTER** 钮将箭头标记（➡）移至想
要将项目移动至的位置，然后按 **MENU SEL** 旋钮 **/**
ENTER 钮。

```
      ITEM MOVE        ESC
↓↓
➡VF OUT      : COLOR

 VF DETAIL   : OFF

 MARKER      :  ON
 CURSOR      : OFF
 ZEBRA SW    : OFF
             :   1
●ASSIGNABLE  : OFF
```

步骤 **1** 中选择的项目移至步骤 **3** 中选择的位置。
在上例中，"ASSIGNABLE" 移至顶部，并且其他项目向
下移一行。

插入空行

方式如下所示：

1 旋转 **MENU SEL** 旋钮 **/ENTER** 钮将箭头标记（➡）移至想
要插入空行的项目上方。
出现 EDIT FUNCTION 画面。

2 选择 "**BLANK**"，然后按 **MENU SEL** 旋钮 **/ENTER** 钮。
重新出现之前显示的页面，并在指定项目上方插入一个空
行。

> **注意**

无法将一个空行插入已经注册了 10 个项目的页面上。

按页编辑

使用 USER MENU CUSTOMIZE 菜单的 EDIT PAGE，可将页
面添加至 USER 菜单、从 USER 菜单删除页面或替换页面。

添加页面

方式如下所示：

1 在 **TOP MENU** 画面上选择 "**USER MENU**
CUSTOMIZE"。
如果这是首次显示 USER MENU CUSTOMIZE 菜单，则会
出现菜单的 CONTENTS 页。如果之前已使用过该菜单，
则会出现上一次读取的页面。

2 如果显示 **CONTENTS** 页，请旋转 **MENU SEL** 旋钮 **/**
ENTER 钮将箭头标记 （➡）移至 "**EDIT PAGE**"，然
后按 **MENU SEL** 旋钮 **/ENTER** 钮显示 **EDIT PAGE** 画
面。
如果显示不同页，请旋转 **MENU SEL** 旋钮 **/ENTER** 钮直
至 **EDIT PAGE** 画面出现，然后按 **MENU SEL** 旋钮 **/**
ENTER 钮选择该页。

```
     EDIT PAGE    E01 TOP
↓↓
 01.<VF OUT>
➡02.<VF DETAIL>
 03.<FOCUS ASSIST>
 04.<VF DISPLAY>
 05.<'!' IND>
 06.<VF MARKER>
 07.<CURSOR>
 08.<SPIRIT LEVEL>
 09.<ZEBRA>
 10.<SWITCH ASSIGN1>
```

3 旋转 **MENU SEL** 旋钮 **/ENTER** 钮将箭头标记（➡）移至要
添加页面的位置，然后按 **MENU SEL** 旋钮 **/ENTER** 钮。
出现 EDIT FUNCTION 画面。

```
    EDIT FUNCTION     ESC

➡INSERT
 MOVE
 DELETE
```

4 选择 **INSERT**，然后按 **MENU SEL** 旋钮 **/ENTER** 钮。
出现选择画面。

```
      CONTENTS        ESC
↓↓
➡01.USER 1
 02.USER 2
 03.USER 3
 04.USER 4
 05.USER 5
 06.USER 6
 07.USER 7
 08.USER 8
 09.USER 9
 10.USER 10
```

5 旋转 **MENU SEL** 旋钮 **/ENTER** 钮将箭头标记（➡）移至所
需页面，然后按 **MENU SEL** 旋钮 **/ENTER** 钮。
这样可将所选页面的页码和名称添加到步骤 **3** 中选择的项
目上方。

取消添加页面

在步骤**5**中按MENU SEL旋钮/ENTER钮之前，请旋转MENU
SEL 旋钮 **/ENTER** 钮将箭头标记 （➡）移至画面右上方的
"ESC"，然后按 MENU SEL 旋钮 **/ENTER** 钮。
重新出现 EDIT PAGE 画面。

删除页面

方式如下所示：

1 在 **USER MENU CUSTOMIZE** 菜单的 **EDIT PAGE** 画面上，将箭头标记（➡）移至要删除的页面，并按 **MENU SEL** 旋钮 **/ENTER** 钮。
出现 EDIT FUNCTION 画面。

2 选择"**DELETE**"，然后按 **MENU SEL** 旋钮 **/ENTER** 钮。
之前显示的页面重新出现，并且在右上方出现信息"DELETE OK? YES➡NO"。

```
        ITEM DELETE        ESC
   DELETE OK?   YES→NO
 01.<VF OUT>
 02.<VF DETAIL>
 03.<FOCUS ASSIST>
●04.<VF DISPLAY>
 05.<'!' IND>
 06.<VF MARKER>
 07.<CURSOR>
 08.<SPIRIT LEVEL>
 09.<ZEBRA>
 10.<SWITCH ASSIGN1>
```

3 若要删除，旋转 **MENU SEL** 旋钮 **/ENTER** 钮将箭头标记（➡）移至"**YES**"，然后按 **MENU SEL** 旋钮 **/ENTER** 钮。

移动页面
方式如下所示：

1 显示 **USER MENU CUSTOMIZE** 菜单的 **EDIT PAGE** 画面。旋转 **MENU SEL** 旋钮 **/ENTER** 钮将箭头标记（➡）移至想要移动的页面。
出现 EDIT FUNCTION 画面。

2 选择"**MOVE**"，然后按 **MENU SEL** 旋钮 **/ENTER** 钮。
重新出现 EDIT PAGE 画面。

3 旋转 **MENU SEL** 旋钮 **/ENTER** 钮将箭头标记（➡）移至想要将步骤 **1** 中选择的页面移动至的位置。

```
        ITEM MOVE         ESC
↓↓
  01.<VF OUT>
  02.<VF DETAIL>
  03.<FOCUS ASSIST>
→04.<VF DISPLAY>
  05.<'!' IND>
  06.<VF MARKER>
  07.<CURSOR>
  08.<SPIRIT LEVEL>
●09.<ZEBRA>
  10.<SWITCH ASSIGN1>
```

4 按 **MENU SEL** 旋钮 **/ENTER** 钮。
步骤 **1** 中选择的页面移至步骤 **3** 中选择的位置。
在上例中，<ZEBRA> 移至"04"位置，<VF DISPLAY> 和以下页面向下移一行。

菜单列表

本部分在表格内介绍要在寻像器画面上显示的菜单。
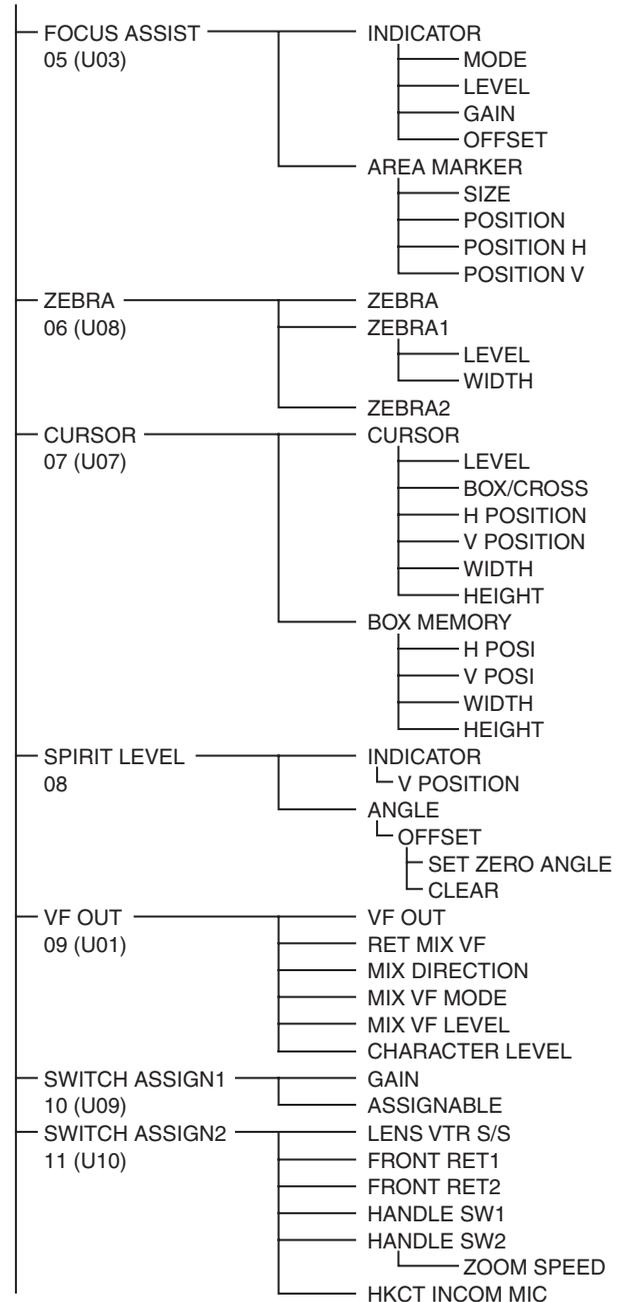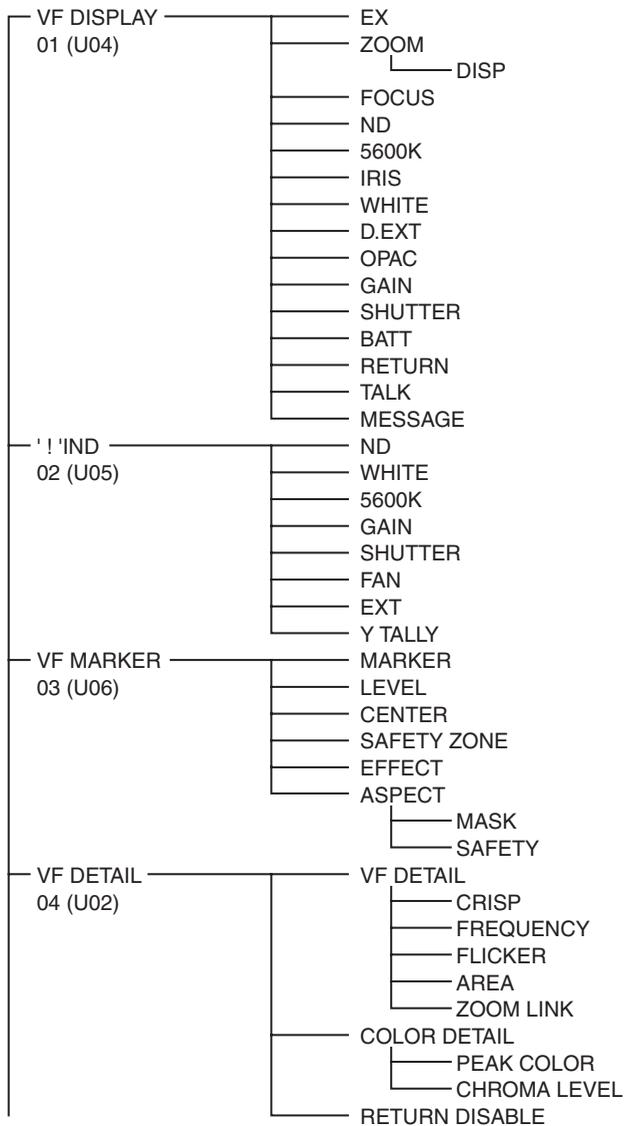- 有关在出厂时已在 USER 菜单中注册的页面，USER 菜单页码会显示在表格内编号栏中的括号内。
- 各菜单还有 CONTENTS 页 （编号 00）。

菜单树

OPERATION 菜单

```
VF DISPLAY ──────── EX
01 (U04)          ── ZOOM
                         └── DISP
                  ── FOCUS
                  ── ND
                  ── 5600K
                  ── IRIS
                  ── WHITE
                  ── D.EXT
                  ── OPAC
                  ── GAIN
                  ── SHUTTER
                  ── BATT
                  ── RETURN
                  ── TALK
                  ── MESSAGE
' ! 'IND ─────────── ND
02 (U05)          ── WHITE
                  ── 5600K
                  ── GAIN
                  ── SHUTTER
                  ── FAN
                  ── EXT
                  ── Y TALLY
VF MARKER ───────── MARKER
03 (U06)          ── LEVEL
                  ── CENTER
                  ── SAFETY ZONE
                  ── EFFECT
                  ── ASPECT
                         ── MASK
                         └── SAFETY
VF DETAIL ───────── VF DETAIL
04 (U02)                 ── CRISP
                         ── FREQUENCY
                         ── FLICKER
                         ── AREA
                         └── ZOOM LINK
                  ── COLOR DETAIL
                         ── PEAK COLOR
                         └── CHROMA LEVEL
                  ── RETURN DISABLE
```

```
FOCUS ASSIST ────── INDICATOR
05 (U03)                 ── MODE
                         ── LEVEL
                         ── GAIN
                         └── OFFSET
                  ── AREA MARKER
                         ── SIZE
                         ── POSITION
                         ── POSITION H
                         └── POSITION V
ZEBRA ───────────── ZEBRA
06 (U08)          ── ZEBRA1
                         ── LEVEL
                         └── WIDTH
                  ── ZEBRA2
CURSOR ──────────── CURSOR
07 (U07)                 ── LEVEL
                         ── BOX/CROSS
                         ── H POSITION
                         ── V POSITION
                         ── WIDTH
                         └── HEIGHT
                  ── BOX MEMORY
                         ── H POSI
                         ── V POSI
                         ── WIDTH
                         └── HEIGHT
SPIRIT LEVEL ────── INDICATOR
08                       └ V POSITION
                  ── ANGLE
                         └ OFFSET
                              ├ SET ZERO ANGLE
                              └ CLEAR
VF OUT ──────────── VF OUT
09 (U01)          ── RET MIX VF
                  ── MIX DIRECTION
                  ── MIX VF MODE
                  ── MIX VF LEVEL
                  ── CHARACTER LEVEL
SWITCH ASSIGN1 ──── GAIN
10 (U09)          ── ASSIGNABLE
SWITCH ASSIGN2 ──── LENS VTR S/S
11 (U10)          ── FRONT RET1
                  ── FRONT RET2
                  ── HANDLE SW1
                  ── HANDLE SW2
                         └── ZOOM SPEED
                  ── HKCT INCOM MIC
```

PAINT 菜单

```
─ RETURN ──────────── RET1 SW SEL
  12                   RET2 SW SEL
                       RET3 SW SEL
                       RET1 SW + RET2 SW
─ HEADSET MIC ─────── INTERCOM1
  13 (U11)                ├── LEVEL
                          ├── POWER
                          └── UNBAL
                       INTERCOM2
                          ├── LEVEL
                          ├── POWER
                          └── UNBAL
─ INTERCOM1 ───────── INTERCOM1 RECEIVE SELECT
  14                      ├── ENG
                          ├── PROD
                          ├── PGM1
                          ├── PGM2
                          ├── TRACKER
                          └── SIDE TONE
─ INTERCOM2 ───────── INTERCOM2 RECEIVE SELECT
  15                      ├── ENG
                          ├── PROD
                          ├── PGM1
                          ├── PGM2
                          ├── TRACKER
                          └── SIDE TONE
─ TRACKER ─────────── TRACKER RECEIVE SELECT
  16                      ├── ENG
                          ├── PROD
                          ├── PGM1
                          └── PGM2
                       INPUT LEVEL
                       OUTPUT LEVEL L-CH
                       OUTPUT LEVEL R-CH
─ EARPHONE ────────── EARPHONE RECEIVE SELECT
  17                      ├── ENG
                          ├── PROD
                          ├── PGM1
                          ├── PGM2
                          └── TRACKER
─ OPERATOR FILE ───── READ (USB → CAM)
  18                   WRITE (CAM → USB)
                       PRESET
                       FILE ID
                       CAM CODE
                       DATE
```

```
─ SW STATUS ───────── FLARE
  P01                  GAMMA
                       BLK GAM
                       KNEE
                       WHT CLIP
                       DETAIL
                       LVL DEP
                       SKIN DTL
                       MATRIX
─ VIDEO LEVEL ─────── WHITE
  P02                  BLACK
                       FLARE
                       GAMMA
                       V MOD
                       FLARE
                       V MOD
                       D. SHAD
                       TEST
─ COLOR TEMP ──────── WHITE
  P03                     └── AUTO WHITE
                              BALANCE
                       COLOR TEMP
                       BALANCE
                       MASTER
─ GAMMA ───────────── LEVEL
  P04                  COARSE
                       TABLE
                       GAMMA
                       TEST
─ BLACK GAMMA ─────── LEVEL
  P05                  RANGE
                       TEST
─ SATURATION ──────── SATURATION
  P06                  LOW KEY SAT
                       RANGE
                       TEST
─ KNEE ────────────── K POINT
  P07                  K SLOPE
                       KNEE
                       KNEE MAX
                       KNEE SAT
                       AUTO KNEE
                          ├── POINT LIMIT
                          └── SLOPE
                       ABS
─ WHITE CLIP ──────── W CLIP
  P08                  ABS
─ DETAIL 1 ────────── DETAIL
  P09                  LEVEL
                       LIMITER M
                       LIMITER WHT
                       LIMITER BLK
                       CRISP
                       LEVEL DEPEND
                       ABS
```

DETAIL 2
P10
- H/V RATIO
- FREQ
- MIX RATIO
- KNEE APT
- DTL H/V MODE
- ABS

SKIN DETAIL
P11
- SKIN DTL
- SKIN GATE
- ABS
- NATURAL SKINDTL
- ZOOM LINK
  - TELE
  - WIDE
- CH SW
- HUE
- PHASE
- WIDTH
- SAT
- LEVEL

USER MATRIX
P12
- R-G
- R-B
- G-R
- G-B
- B-R
- B-G
- MATRIX
  - PRESET
  - USER
  - MULTI
- ADAPTIVE MATRIX

MULTI MATRIX
P13
- PHASE
- HUE
- SAT
  - ALL CLEAR
- GATE
- MATRIX
  - PRESET
  - USER
  - MULTI

SHUTTER
P14
- SHUTTER
- ECS FREQ

NOISE SUPPRESSION
P15
- SUPPRESSION

FLICKER REDUCTION
P16
- REDUCTION
- POWER LINE FREQUENCY

SCENE FILE
P17
- 1
- 2
- 3
- 4
- 5
- STORE
- STANDARD
- READ (USB → CAM)
- WRITE (CAM → USB)
- FILE ID
- CAM CODE
- DATE

MAINTENANCE 菜单

AUTO SETUP
M01
- AUTO BLACK
- AUTO WHITE
- AUTO LEVEL
- AUTO WHITE SHADING
- AUTO BLACK SHADING
- TEST

WHITE SHADING
M02
- V SAW
- V PARA
- H SAW
- H PARA
- WHITE
- AUTO WHITE SHADING
- WHITE SHAD MODE

BLACK SHADING
M03
- V SAW
- V PARA
- H SAW
- H PARA
- BLK SET
- BLACK
- MASTER GAIN
- AUTO BLACK SHADING
- 2D BLACK SHADING

OHB MATRIX
M04
- PHASE
- HUE
- SAT
  - ALL CLEAR
- OHB MATRIX
- MATRIX

AUTO IRIS
M05
- AUTO IRIS
- WINDOW
- OVERRIDE
- IRIS LEVEL
- APL RATIO
- IRIS GAIN
- IRIS CLOSE

LENS
M06
- F NO. DISP
- ALAC
- OPAC
  - H SHIFT
  - V SHIFT
  - MARKER
    - CENTER
      - H POS
      - V POS

MIC GAIN
M07
- MIC1
- MIC2

CALL/TALLY
M08
- CCU CALL
- CAM CALL
- UP TALLY BRIGHTNESS
  - TALLY
  - NUMBER
- CAMERA NUMBER
- NUMBER DISPLAY

```
TEST OUT ──────────────── OUTPUT
M09 (U12)              ── VBS-OUT
                            ── CHARACTER
                            ── GAIN
                            ── CHROMA
                         ── SYNC-OUT
                            ── V-PHASE
                            ── H-PHASE
                         ── DOWN CONVERTER
                            ── SELECT
                            ── ASPECT

SDI OUT ──────────────── SDI-MONI OUT
M10 (U13)                ── CHARACTER
                         ── EMB AUDIO
                      ── DOWN CONVERTER
                         ── SELECT
                         ── ASPECT

TRUNK ─────────────────── TRUNK
M11                      ── INTERFACE
                      ── AUX REMOTE

GENLOCK ───────────────── REFERENCE
M12                   ── GENLOCK
                         ── STATUS
                         ── FORMAT
                      ── PHASE
                         ── V
                         ── HD H
                         ── SD H

DATE ──────────────────── DATE/TIME
M13                   ── FILE TIMESTAMP FORMAT

BATTERY ALARM ─────────── BEFORE END
M14                   ── END

OTHERS ────────────────── FAN MODE
M15                   ── CAM BARS
                      ── WHITE SETUP MODE

OPTION KEY ────────────── READ (USB → CAM)
M16                   ── INSTALLED OPTION
```

FILE 菜单

```
OPERATOR FILE ─────────── READ (USB → CAM)
F01                   ── WRITE (CAM → USB)
                      ── PRESET
                      ── STORE PRESET FILE
                      ── FILE ID
                      ── CAM CODE
                      ── DATE

SCENE FILE ────────────── 1
F02                   ── 2
                      ── 3
                      ── 4
                      ── 5
                      ── STORE
                      ── STANDARD
                      ── READ (USB → CAM)
                      ── WRITE (CAM → USB)
                      ── FILE ID
                      ── CAM CODE
                      ── DATE

REFERENCE ─────────────── STORE FILE
F03                   ── STANDARD
                         ── ALL PRESET
                      ── READ (USB → CAM)
                      ── WRITE (CAM → USB)
                      ── FILE ID
                      ── CAM CODE
                      ── DATE

LENS FILE ─────────────── STORE FILE
F04                   ── No.
                      ── NAME
                      ── F NO
                      ── CENTER MARKER
                         ── H POS
                         ── V POS
                         ── STORE

OHB FILE ──────────────── STORE FILE
F05

FILE CLEAR ────────────── PRESET OPERATOR
F06                   ── REFERENCE (ALL)
                         ── 10 SEC CLEAR
                      ── OHB WHITE SHAD (ALL)
                      ── OHB BLACK SHAD
                      ── OHB ND OFFSET
                      ── OHB MATRIX
```

DIAGNOSIS 菜单

```
─ OPTICAL LEVEL ──────── CCU → CAM
  D01                     CAM → CCU
                          CABLE LENGTH
─ BOARD STATUS ───────── OHB
  D02                     DPR
                          SY
                          PS
                          SDI
─ ROM VERSION ────────── CAMERA APP
  D03 (U14)               O.S
                          PANEL
                          HKCT
                          TG
                          SY
                          DPR1
                          DPR2
                          SDI
─ SERIAL No. ─────────── MODEL
  D04                     NO.
─ POWER SUPPLY STATUS ── VOLTAGE
  D05                        CCU OUTPUT
                             CAM INPUT
                          CAMERA CABLE
                             RESISTANCE
                             LENGTH
                             TEMPERATURE
                          CCU SUPPLY
                          CAM CONSUMPTION
                          POWER CONSUMPTION
```

OPERATION 菜单

OPERATION			
页标题 页码	项目	设定	说明
<VF DISPLAY> 01 (U04)	EX	**ON**, OFF	
	ZOOM	ON, **OFF**	
	DISP	**LEFT**, RIGT	
	FOCUS	ON, **OFF**	仅当使用系列镜头时有效。
	ND	**ON**, OFF	
	5600K	**ON**, OFF	
	IRIS	**ON**, OFF	
	WHITE	ON, **OFF**	
	D.EXT	**ON**, OFF	
	OPAC	**ON**, OFF	
	GAIN	**ON**, OFF	
	SHUTTER	**ON**, OFF	
	BATT	ON, **OFF**	
	RETURN	**ON**, OFF	
	TALK	**ON**, OFF	
	MESSAGE	**ALL**, WRN, AT, OFF	**ALL**：显示全部信息。 **WRN**：显示警告信息和以上级别信息。 **AT**：显示自动设置信息和以上级别信息。

OPERATION			
页标题 页码	项目	设定	说明
< '！' IND> 02 (U05)	ND	**ON**, OFF	[IND]：设定是否包括在寻像器画面上的状态指示中 *(请参阅第21页)*。 [NORMAL]：指定即使 [IND] 为 ON 时也不显示 '！' 指示的情况。（通过在此处指定标准或正常情况，非标准或异常情况会在寻像器画面上以 '！' 指示显示。）
		1, 2, 3, 4, 5（可组合）	
	WHITE	**ON**, OFF, ---	
		P, **A**, **B**（可组合）	
	5600K	**ON**, OFF, ---	例：在 ND 预设设定下，当选择了除 1 以外的 ND 滤镜时显示 '！' 指示。
		ON, **OFF**	
	GAIN	**ON**, OFF, ---	---：当连接了 CCU 时（无法更改）
		L, M, H（可组合）	
	SHUTTER	**ON**, OFF, ---	
		ON, **OFF**	
	FAN	**ON**, OFF	
		AUTO1, AUTO2, MIN, MAX	
	EXT	**ON**, OFF	
	Y TALLY	**ON**, OFF	
<VF MARKER> 03 (U06)	MARKER	**ON**, OFF	将 MARKER 设定为 ON/OFF。
		WHITE, BLACK, DOT	
	LEVEL	0 至 100, **70**	
	CENTER	ON, **OFF**	
		1, 2, 3, 4	**1**：整个十字 **2**：带孔的整个十字 **3**：中心 **4**：带孔中心
	SAFETY ZONE	ON, **OFF**	
		80.0, **90.0**, 92.5, 95.0%	
	EFFECT	ON, **OFF**, (FOCUS)	**(FOCUS)**：当 <FOCUS ASSIST> 的 INDICATOR 为 ON 时显示。
	ASPECT	ON, **OFF**	
		16:9, 15:9, 14:9, 13:9, **4:3**, (4.3)	**(4.3)**：如果安装了 HDLA 时将 VF SCAN 设定为 4:3（无法更改）
	MASK	ON, **OFF**, (ON)	**(ON)**：如果安装了 HDLA 时将 VF SCAN 设定为 4:3（无法更改）
		0 至 15, **12**	在屏幕宽高区域外将亮度设定为暗。
	SAFETY	ON, **OFF**, (AREA)	用于宽高模式中的安全标记。
		80.0, **90.0**, 92.5, 95.0%	**(AREA)**：当 <FOCUS ASSIST> 的 AREA MARKER 为 ON 时显示。

页标题 页码	项目		设定	说明
<VF DETAIL> 04 (U02)	VF DETAIL		**ON**, OFF, (ON), (OFF)	( ) 中的设定：当安装 HDLA 时 （无法更改）
			0 至 100%, (0 至 100%), **25%**	
		CRISP	–99 至 +99, **0**	
		FREQUENCY	**9M**, 14M, 18M	
		FLICKER	ON, **OFF**	
		AREA	**100%**, 70%, 60%, 50%, 40%	
		ZOOM LINK	**ON**, OFF	
			0%, 25%, 50%, 75%, **100%**	
	COLOR DETAIL		ON, **OFF**	
			BLUE, RED, YELLOW	
		PEAK COLOR	ON, **OFF**	
		CHROMA LEVEL	100%, 50%, **25%**, 0%	
		RETURN DISABLE	ON, **OFF**	
<FOCUS ASSIST> 05 (U03)	INDICATOR		ON, **OFF**, (EFFECT)	**(EFFECT)**：当 <VF MARKER> 的 EFFECT 为 ON 时显示。
		MODE	**BOX**, B&W, COL	
			BTM, LEFT, TOP, RIGHT	
		LEVEL	0 至 100%, **70%**	
			QUICK, SMOOTH	
		GAIN	0 至 99, **50**	
		OFFSET	0 至 99, **50**	
	AREA MARKER		ON, **OFF**, (ASPECT)	**(ASPECT)**：当 <VF MARKER> 的 ASPECT SAFETY 为 ON 时显示。
		SIZE	SMALL, **MIDDLE**, LARGE	
		POSITION	LEFT, **CENTER**, RIGHT	
		POSITION H	0 至 99, **50**	
		POSITION V	0 至 99, **50**	
<ZEBRA> 06 (U08)	ZEBRA		ON, **OFF**	
			1, 2, 1&2	
	ZEBRA1			
		LEVEL	50 至 109%, **70%**	
		WIDTH	0 至 30%, **10%**	
	ZEBRA2		50 至 109%, **100%**	

OPERATION				
页标题 页码	项目		设定	说明
<CURSOR> 07 (U07)	CURSOR		ON, **OFF**	仅当安装 HDLA 时显示。
			WHITE, BLACK, DOT	
		LEVEL	0 至 100%, **70%**	
		BOX/CROSS	**BOX**, CROSS	
		H POSITION	0 至 99, **50**	仅当安装 HDLA 时显示。
		V POSITION	0 至 99, **50**	
		WIDTH	0 至 99, **50**	
		HEIGHT	0 至 99, **50**	
	BOX MEMORY		1/2/3: **OFF**, ON	
		H POSI	1/2/3: 0 至 99, **50**	
		V POSI	1/2/3: 0 至 99, **50**	
		WIDTH	1/2/3: 0 至 99, **50**	
		HEIGHT	1/2/3: 0 至 99, **50**	
<SPIRIT LEVEL> 08	INDICATOR		ON, **OFF**	当此项设定为 ON 时， CURSOR 的 BOX MEMORY 不起作用。
		V POSITION	0 至 99, **97**	
	ANGLE			设定倾角。 （仅显示）
		OFFSET	–99 至 +99, **0**	
		SET ZERO ANGLE	通过 ENTER 执行。	将当前角度指定为水平 （0°）。
		CLEAR	通过 ENTER 执行。	将 OFFSET 设定为 0。
<VF OUT> 09 (U01)	VF OUT		**COLOR**, Y, R, G, B, (COLOR), (Y), (R), (G), (B), (RET), (R+G), (R+B), (G+B)	( ) 中的设定：当安装 HDLA 时 （无法更改）
	RET MIX VF		ON, **OFF**, (ON), (OFF)	( ) 中的设定：当安装 HDLA 时 （无法更改）
	MIX DIRECTION		MAIN, **RET**	
	MIX VF MODE		**Y-MIX**, WIRE(W), WIRE(B)	
	MIX VF LEVEL		0 至 **80%**	
	CHARACTER LEVEL		0 至 5, **5**	
<SWITCH ASSIGN1> 10 (U09)	GAIN		L: –6, –3, **0**, 3, 6, 9, 12 dB	
			M: –6, –3, 0, 3, **6**, 9, 12 dB	
			H: –6, –3, 0, 3, 6, 9, **12** dB	
	ASSIGNABLE		**OFF**, RETURN1 SW, RETURN2 SW, ENG, PROD, VF DETAIL, MIX VF, 5600K, FAN MAX, D.EXTENDER, VF ASSIGN SW1, VF ASSIGN SW2, SPIRIT LEVEL INDICATOR, FOCUS ASSIST INDICATOR	当安装 HDLA 时：OFF, EXTENDER, 5600K, FAN MAX, D.EXTENDER 注意 当您将 D.EXTENDER 设定为 ON 或 OFF 时，可能会产生噪音。这并非故障。

OPERATION			
页标题 页码	项目	设定	说明
<SWITCH ASSIGN2> 11 (U10)	LENS VTR S/S	OFF, RETURN1 SW, **RETURN2 SW**, ENG, PROD	对安装镜头上的 VTR START/STOP 开关编配一个功能。
	FRONT RET1	OFF, **RETURN1 SW**, RETURN2 SW, ENG, PROD, D.EXTENDER	
	FRONT RET2	OFF, RETURN1 SW, **RETURN2 SW**, ENG, PROD, D.EXTENDER	
	HANDLE SW1	OFF, **RETURN1 SW**, RETURN2 SW, ENG, PROD, ZOOM(T)	
	HANDLE SW2	OFF, RETURN1 SW, RETURN2 SW, **INCOM1**, INCOM2, ZOOM(W)	
	ZOOM SPEED	0 至 99, **20**	
	HKCT INCOM MIC	OFF, **ENG**, PROD	对 HKC-T1500 上的 INTERCOM MIC 开关编配一个功能。
<RETURN> 12	RET1 SW SEL	CCU RET1, CCU RET2, CCU RET3, CCU RET4	因 RET1 钮设定而异。
	RET2 SW SEL		因 RET2 钮设定而异。
	RET3 SW SEL	CCU RET1, CCU RET2, **CCU RET3**, CCU RET4	
	RET1 SW + RET2 SW	RET1 SW, **RET3 SW**	同时按 RET1 钮和 RET2 时更改操作。 **RET1 SW**：两个按钮用作 RET1 钮。 **RET3 SW**：两个按钮用作 RET3 钮。
<HEADSET MIC> 13 (U11)	INTERCOM1	**DYNAMIC**, CARBON, MANUAL	
	LEVEL	–60 dB, –50 dB, –40 dB, –30 dB, –20 dB, (**–60 dB**), (–50 dB), (–40 dB), (–30 dB), (–20 dB)	( ) 中的设定：采用 DYNAMIC 或 CARBON（无法更改）
		–6, **0**, 6 dB	输入增益
	POWER	ON, OFF, (ON), (**OFF**)	( ) 中的设定：采用 DYNAMIC 或 CARBON（无法更改）
	UNBAL	ON, OFF, **(ON)**, (OFF)	( ) 中的设定：采用 CARBON （无法更改）
	INTERCOM2	**DYNAMIC**, CARBON, MANUAL	
	LEVEL	–60 dB, –50 dB, –40 dB, –30 dB, –20 dB, (**–60 dB**), (–50 dB), (–40 dB), (–30 dB), (–20 dB)	( ) 中的设定：采用 DYNAMIC 或 CARBON（无法更改）
		–6, **0**, 6 dB	输入增益
	POWER	ON, OFF, (ON), (**OFF**)	( ) 中的设定：采用 DYNAMIC 或 CARBON（无法更改）
	UNBAL	**ON**, OFF, (ON), (OFF)	( ) 中的设定：采用 CARBON （无法更改）

OPERATION			
页标题 页码	项目	设定	说明
<INTERCOM1> 14	INTERCOM1 RECEIVE SELECT	**SEPARATE**, MIX	
	ENG	--- , **LEFT**, RIGHT, BOTH	
	PROD	--- , **LEFT**, RIGHT, BOTH	
	PGM1	--- , LEFT, **RIGHT**, BOTH	
	PGM2	--- , LEFT, **RIGHT**, BOTH	
	TRACKER	--- , **LEFT**, RIGHT, BOTH	
	SIDE TONE	MU, 1 至 99, **50**	
<INTERCOM2> 15	INTERCOM2 RECEIVE SELECT	**SEPARATE**, MIX	
	ENG	--- , **LEFT**, RIGHT, BOTH	
	PROD	--- , **LEFT**, RIGHT, BOTH	
	PGM1	--- , LEFT, **RIGHT**, BOTH	
	PGM2	--- , LEFT, **RIGHT**, BOTH	
	TRACKER	--- , **LEFT**, RIGHT, BOTH	
	SIDE TONE	MU, 1 至 99, **50**	
<TRACKER> 16	TRACKER RECEIVE SELECT	**SEPARATE**, MIX	
	ENG	--- , **LEFT**, RIGHT, BOTH	
	PROD	--- , **LEFT**, RIGHT, BOTH	
	PGM1	--- , LEFT, **RIGHT**, BOTH	
	PGM2	--- , LEFT, **RIGHT**, BOTH	
	INPUT LEVEL	–20 dBu, **0 dBu**	
		–6 dBu, **0 dBu**, 6 dBu	
	OUTPUT LEVEL L-CH	**0 dBu**, –6 dBu, –12 dBu, –18 dBu, –20 dBu, –24 dBu	
	R-CH		
<EARPHONE> 17	EARPHONE RECEIVE SELECT	**SEPARATE**, MIX	
	ENG	--- , **LEFT**, RIGHT, BOTH	
	PROD	--- , **LEFT**, RIGHT, BOTH	
	PGM1	--- , LEFT, **RIGHT**, BOTH	
	PGM2	--- , LEFT, **RIGHT**, BOTH	
	TRACKER	--- , **LEFT**, RIGHT, BOTH	
<OPERATOR FILE> 18	READ (USB→CAM)	通过 ENTER 执行。	从 USB 驱动器读取操作者文件。
	WRITE (CAM→USB)	通过 ENTER 执行。	将操作者文件项目的当前设定写入 USB 驱动器。
	PRESET	通过 ENTER 执行。	在内存中将操作者文件项目设定为预设值。
	FILE ID	字母数字 （最多 16 个字符）	对要写入 USB 驱动器的操作者文件输入注释。 *请参阅第 23 页上的 "指定字符串"。*
	CAM CODE	摄像机代码	仅显示
	DATE		仅显示

PAINT 菜单

PAINT			菜单列表
页标题 页码	项目	设定	说明
\<SW STATUS\> P01	FLARE	**ON**, OFF	
	GAMMA	**ON**, OFF	
	BLK GAM	ON, **OFF**	
	KNEE	**ON**, OFF	
	WHT CLIP	**ON**, OFF	
	DETAIL	**ON**, OFF	
	LVL DEP	**ON**, OFF	
	SKIN DTL	ON, **OFF**	
	MATRIX	ON, **OFF**	
\<VIDEO LEVEL\> P02	WHITE	R/G/B：−99 至 +99, **0**	可分别设定 R、 G、 B 和 M（主）值。 （对 WHITE 或 FLARE 无法设定 M。）
	BLACK	R/G/B/M：−99 至 +99, **0**	
	FLARE	R/G/B：−99 至 +99, **0**	
	GAMMA	R/G/B/M：−99 至 +99, **0**	
	V MOD	R/G/B/M：−99 至 +99, **0**	
	FLARE	**ON**, OFF	
	V MOD	**ON**, OFF	
	D. SHAD	ON, **OFF**	仅当使用支持动态描影的镜头时可选。
	TEST	**OFF**, SAW, 10STEP	
\<COLOR TEMP\> P03	WHITE	R/G/B：−99 至 +99, **0**	
	AUTO WHITE BALANCE	通过 ENTER 执行。	
	COLOR TEMP	0K 至 65535K, **3200K**	
	BALANCE	−99 至 +99, **0**	
	MASTER	−3.0 至 +12.0 dB, **0.0 dB**	
\<GAMMA\> P04	LEVEL	R/G/B/M：−99 至 +99, **0**	可分别设定 R、 G、 B 和 M（主）值。
	COARSE	0.35 至 0.90（每级 0.05）, **0.45**	
	TABLE	**STANDARD**, HYPER	
		1, 2, 3, 4, **5**, 6, 7	选择 STANDARD 时 **1**：相当于摄像机 **2**：4.5 倍增益 **3**：3.5 倍增益 **4**：相当于 SMPTE-240M **5**：相当于 ITU-R709 **6**：5.0 倍增益 **7**：×5.0-709
		1, 2, 3, **4**	选择 HYPER 时 **1**：325% 至 100% **2**：460% 至 100% **3**：325% 至 109% **4**：460% 至 109%
	GAMMA	**ON**, OFF	
	TEST	**OFF**, SAW, 10STEP	

PAINT			
页标题 页码	项目	设定	说明
<BLACK GAMMA> P05	LEVEL	R/G/B/M：−99 至 +99, **0**	可分别设定 R、 G、 B 和 M （主）值。
	RANGE	LOW, L.MID, H.MID, **HIGH**	
		ON, **OFF**	
	TEST	**OFF**, SAW, 10STEP	
<SATURATION> P06	SATURATION	−99 至 +99, **0**	
		ON, **OFF**	
	LOW KEY SAT	−99 至 +99, **0**	
	RANGE	LOW, L.MID, H.MID, **HIGH**	
		ON, **OFF**	
	TEST	**OFF**, SAW, 10STEP	
<KNEE> P07	K POINT	R/G/B/M：−99 至 +99, **0**	可分别设定 R、 G、 B 和 M （主）值。 在 ABS 模式中，除了 M （主），显示绝对值。
	K SLOPE	R/G/B/M：−99 至 +99, **0**	
	KNEE	**ON**, OFF	
	KNEE MAX	ON, **OFF**	
	KNEE SAT	−99 至 +99, **0**	
		ON, **OFF**	
	AUTO KNEE	**OFF**, AUTO	
	POINT LIMIT	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
	SLOPE	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
	ABS		高亮：ABS （绝对）模式
<WHITE CLIP> P08	W CLIP	−99 至 +99, **0**	
		ON, OFF	
	ABS		高亮：ABS （绝对）模式
<DETAIL 1> P09	DETAIL	**ON**, OFF	
	LEVEL	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
	LIMITER M	−99 至 +99, **0**	
	LIMITER WHT	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
	LIMITER BLK	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
	CRISP	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
	LEVEL DEPEND	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
		ON, OFF	
	ABS		高亮：ABS （绝对）模式
<DETAIL 2> P10	H/V RATIO	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
	FREQ	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
	MIX RATIO	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
	KNEE APT	−99 至 +99, **0**	在 ABS 模式中显示绝对值。
		ON, **OFF**	
	DTL H/V MODE	**H/V**, V only	
	ABS		高亮：ABS （绝对）模式

PAINT			
页标题 页码	项目	设定	说明
<SKIN DETAIL> P11	SKIN DTL	ON, **OFF**	
	SKIN GATE	**OFF**, 1, 2, 3, (MAT)	**1, 2, 3**：只能对指定频道打开皮肤闸控功能。 **(MAT)**：当 <MULTI MATRIX> 的 GATE 为 ON 时显示。
	ABS		高亮：ABS （绝对）模式
	NATURAL SKINDTL	**OFF**, ON	
	ZOOM LINK	**OFF**, ON	
	TELE	0 至 **99**	
	WIDE	**0** 至 99	
	CH SW	1: (ON), 2/3: ON, **OFF**	可为每个频道分别设定肤色细节功能。 （频道 1 始终设定为 ON。）
	HUE	1/2/3：通过 ENTER 执行。	
	PHASE	1/2/3: **0** 至 359	在 ABS 模式中仅 LEVEL 显示绝对值。
	WIDTH	1/2/3: 0 至 90, **29**	
	SAT	1/2/3: –99 至 +99, **–89**	
	LEVEL	1/2/3: –99 至 +99, **0**	
<USER MATRIX> P12	R-G	–99 至 +99, **0**	
	R-B	–99 至 +99, **0**	
	G-R	–99 至 +99, **0**	
	G-B	–99 至 +99, **0**	
	B-R	–99 至 +99, **0**	
	B-G	–99 至 +99, **0**	
	MATRIX	ON, **OFF**	
	PRESET	**ON**, OFF	
		SMPTE-240M, **ITU-709**, SMPTE-WIDE, NTSC, EBU, ITU-601	
	USER	ON, **OFF**	
	MULTI	ON, **OFF**	
	ADAPTIVE MATRIX	**OFF**, ON	
<MULTI MATRIX> P13	PHASE	**0**, 23, 45, 68, 90, 113, 135, 158, 180, 203, 225, 248, 270, 293, 315, 338	在要进行多重矩阵调节的 PHASE 处选择轴 （角度），并设定 HUE 和 SAT。 （可分别对 16 轴调节 HUE 和 SAT。）
	HUE	–99 至 +99, **0**	
	SAT	–99 至 +99, **0**	
	ALL CLEAR	通过 ENTER 执行。	
	GATE	ON, **OFF**, (SKN)	**(SKN)**：当 <SKIN DETAIL> 的 SKIN GATE 为 ON 时显示。
	MATRIX	ON, **OFF**	
	PRESET	**ON**, OFF	
		SMPTE-240M, **ITU-709**, SMPTE-WIDE, NTSC, EBU, ITU-601	
	USER	ON, **OFF**	
	MULTI	ON, **OFF**	

PAINT			
页标题 页码	项目	设定	说明
\<SHUTTER> P14	SHUTTER	ON, **OFF**, (ON), (OFF)	（）中的设定：当未连接遥控装置 / 面板或 CCU 时 （无法更改）
		1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000	段式快门选择
	ECS FREQ	**50.00** 至 4700 Hz	
\<NOISE SUPPRESSION> P15	SUPPRESSION	**0** 至 100%	
		ON, **OFF**	
\<FLICKER REDUCTION> P16	REDUCTION	ON, **OFF**	
	POWER LINE FREQUENCY	**50**, 60	
\<SCENE FILE> P17	1		保存和读取场景文件 （绘画数据）： 当将文件保存在摄像机内存中时，请在执行 STORE 前指定数值。 当读取时，请仅指定数值。
	2		
	3		
	4		
	5		
	STORE	通过 ENTER 执行。	
	STANDARD	通过 ENTER 执行。	读取标准绘画数据。
	READ (USB→CAM)	通过 ENTER 执行。	从 USB 驱动器将五个场景文件载入内存。
	WRITE (CAM→USB)	通过 ENTER 执行。	将摄像机内存中的五个场景文件写入 USB 驱 动器。
	FILE ID	最多 16 个字符	对要写入 USB 驱动器的场景文件输入注释。 *请参阅第 23 页上的 "指定字符串"。*
	CAM CODE	摄像机代码	仅显示
	DATE	日期	仅显示

MAINTENANCE 菜单

MAINTENANCE			
页标题 页码	项目	设定	说明
\<AUTO SETUP> M01	AUTO BLACK	通过 ENTER 执行。	
	AUTO WHITE	通过 ENTER 执行。	
	AUTO LEVEL	通过 ENTER 执行。	
	AUTO WHITE SHADING	通过 ENTER 执行。	
	AUTO BLACK SHADING	通过 ENTER 执行。	
	TEST	**OFF**, SAW, 10STEP	

MAINTENANCE			
页标题 页码	项目	设定	说明
<WHITE SHADING> M02	V SAW	R/G/B：–99 至 +99, **0**	可分别设定 R、G 和 B 值。
	V PARA	R/G/B：–99 至 +99, **0**	
	H SAW	R/G/B：–99 至 +99, **0**	
	H PARA	R/G/B：–99 至 +99, **0**	
	WHITE	R/G/B：–99 至 +99, **0**	
	AUTO WHITE SHADING	通过 ENTER 执行。	
	WHITE SHAD MODE	RGB, **RB**	
<BLACK SHADING> M03	V SAW	R/G/B：–99 至 +99, **0**	可分别设定 R、G 和 B 值。 对 BLACK 还可设定 M（主）值。
	V PARA	R/G/B：–99 至 +99, **0**	
	H SAW	R/G/B：–99 至 +99, **0**	
	H PARA	R/G/B：–99 至 +99, **0**	
	BLK SET	R/G/B：–99 至 +99, **0**	
	BLACK	R/G/B/M：–99 至 +99, **0**	
	MASTER GAIN	–6, –3, **0**, 3, 6, 9, 12 dB	
	AUTO BLACK SHADING	通过 ENTER 执行。	
	2D BLACK SHADING	**ON**, OFF	
<OHB MATRIX> M04	PHASE	**0**, 23, 45, 68, 90, 113, 135, 158, 180, 203, 225, 248, 270, 293, 315, 338	在要进行 OHB 矩阵调节的 PHASE 处选择轴（角度），并设定 HUE 和 SAT。（可分别对 16 轴调节 HUE 和 SAT。）
	HUE	–99 至 +99, **0**	
	SAT	–99 至 +99, **0**	
	ALL CLEAR	通过 ENTER 执行。	对所有 PHASE 设定清除 HUE 和 SAT 值。
	OHB MATRIX	ON, **OFF**	
	MATRIX	ON, **OFF**	
<AUTO IRIS> M05	AUTO IRIS	ON, **OFF**, (ON), (OFF)	（）中的设定：当未连接遥控装置 / 面板或 CCU 时（无法更改）
	WINDOW	**1**, 2, 3, 4, 5, 6	选择自动光圈窗口： 阴影部分表示出现光线检测的区域。
	OVERRIDE	–99 至 99, **---**	设定覆盖以临时在 ± 2 档范围内变更自动光圈等级的亮度参考值。 –99：2 档完全关闭光圈。 99：2 档完全打开光圈。 ---：OFF 当电源关闭时，设定返回 " --- "。
	IRIS LEVEL	–99 至 +99, **0**	± 4 档
	APL RATIO	–99 至 +99, **65**	
	IRIS GAIN	–99 至 +99, **0**	
	IRIS CLOSE	ON, **OFF**	
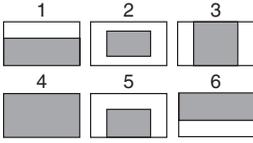
MAINTENANCE			
页标题 页码	项目	设定	说明
<LENS> M06	F NO. DISP	**CONTROL**, RETURN	当 AUTO IRIS 关闭时，在面板上选择光圈指示： **CONTROL**：显示来自摄像机的数值 **RETURN**：显示从镜头返送的数值。 （当 AUTO IRIS 打开时，从镜头返送的数值始终显示。）
	ALAC	**AUTO**, OFF	选择 AUTO 时，状态显示在右侧。 **(ACTIVE)**：正在补偿。 **(WAIT)**：等待镜头初始化完成。 **(STOP)**：对于不适用镜头补偿关闭。
	OPAC	ON, **OFF**	将光轴补偿（OPAC）功能设定为 ON/OFF。
	H SHIFT	–5, –4, –3, –2, –1, **0**, 1, 2, 3, 4, 5	设定 H 方向移动量。
	V SHIFT	–3, –2, –1, **0**, 1, 2, 3	设定 V 方向移动量。
	MARKER	**ON**, OFF	将 VF MARKER 设定为 ON/OFF。（此项功能与 OPERATION 菜单中 VF MARKER 页上的 MARKER 相同。）
	CENTER	ON, **OFF**	将中心标记设定为 ON/OFF。
	H POS	–48 至 +48, **0**	仅显示 （显示 FILE 菜单中 LENS FILE 页上的 H POS 值。）
	V POS	–27 至 +27, **0**	仅显示 （显示 FILE 菜单中 LENS FILE 页上的 V POS 值。）
<MIC GAIN> M07	MIC1	20, 30, 40, 50, **60** dB	仅在独立操作时有效。
	MIC2	20, 30, 40, 50, **60** dB	
<CALL/TALLY> M08	CCU CALL	OFF, **ON**, ---	**---**：当没有连接 CCU 时（无法更改）
	CAM CALL	**OFF**, ON, ---	
	UP TALLY BRIGHTNESS		
	TALLY	0 至 100, **50**	
	NUMBER	0 至 100, **50**	
	CAMERA NUMBER	**---**, 1 至 96	
	NUMBER DISPLAY	ON, OFF, **AUTO**	**AUTO**：安装 HDLA 时，与 UP TALLY 开关设定对应。
<TEST OUT> M09 (U12)	OUTPUT	SD-SYNC, HD-SYNC, **VF**, VBS	
	VBS-OUT		VBS 期间显示 OUTPUT。
	CHARACTER	ON, **OFF**	
	GAIN	–99 至 +99, **0**	
	CHROMA	–99 至 +99, **0**	
	SYNC-OUT		SD-SYNC 和 HD-SYNC 期间显示 OUTPUT。
	V-PHASE	–999 至 +999, **0**	
	H-PHASE	–999 至 +999, **0**	
	DOWN CONVERTER		对 VBS 显示 OUTPUT。
	SELECT	**MAIN**, RET, VF	
	ASPECT	**SQ**, EC	

MAINTENANCE			
页标题 页码	项目	设定	说明
<SDI OUT> M10 (U13)	SDI-MONI OUT	**MAIN**, VF, RET, SD-SDI, OFF	
	CHARACTER	ON, **OFF**	
	EMB AUDIO	**OFF**, MIC, PGM	
	DOWN CONVERTER		对 SD-SDI 显示 SDI-MONI OUT。
	SELECT	**MAIN**, RET, VF	
	ASPECT	**SQ**, EC	
<TRUNK> M11	TRUNK	**ON**, OFF	
	INTERFACE	**232c**, 422A	
	AUX REMOTE		仅显示
<GENLOCK> M12	REFERENCE	同步条件	仅显示
	GENLOCK	**ENABLE**, DISABLE	仅当没有连接 CCU 时显示。
	STATUS		
	FORMAT		
	PHASE		
	V	−1024 至 +1023, **0**	
	HD H	−1700 至 +1700, **0**	
	SD H	−1024 至 +1023, **0**	
<DATE> M13	DATE/TIME	2000 至 2099/01 至 12/00 至 31, 00 至 23 : 00 至 59	
	FILE TIMESTAMP FORMAT	1 Y/Mn/D, 2 Mn/D, 3 D/M/Y, 4 D/M, **5 M/D/Y**, 6 M/D	**Y**：年 **Mn**：月 （数值） **M**：月 （字符串） **D**：日
<BATTERY ALARM> M14	BEFORE END	**11.5** 至 17.0 V	
	END	**11.0** 至 11.5 V	
<OTHERS> M15	FAN MODE	OFF, **AUTO1**, AUTO2 , MIN, MAX	**AUTO1**：普通旋转 **AUTO2**：慢速旋转
	CAM BARS	ON, **OFF**	
	WHITE SETUP MODE	AWB, **A.LVL**	
<OPTION KEY> M16	READ (USB→CAM)	通过 ENTER 执行。	从 USB 驱动器读取安装密钥。
	INSTALLED OPTION		仅当已安装选购件时显示。

FILE 菜单

五种文件类型可适用于摄像机的简易调节：操作者、参考、场景、OHB 和镜头。
可将用 OPERATION 菜单和自定义 USER 菜单设定的项目保存在操作者文件中。

有关这些文件包含的指定项目，请参阅维修手册。

FILE			
页标题 页码	项目	设定	说明
\<OPERATOR FILE> F01	READ (USB→CAM)	通过 ENTER 执行。	从 USB 驱动器读取操作者文件。
	WRITE (CAM→USB)	通过 ENTER 执行。	将操作者文件项目的当前设定写入 USB 驱动器。
	PRESET	通过 ENTER 执行。	在内存中将操作者文件项目设定为预设值。
	STORE PRESET FILE	通过 ENTER 执行。	将操作者文件项目的当前设定保存在内存的操作者文件中。
	FILE ID	最多 16 个字符	对要写入 USB 驱动器的操作者文件输入注释。 *请参阅第 23 页上的 "指定字符串"。*
	CAM CODE	摄像机代码	仅显示
	DATE	日期	仅显示
\<SCENE FILE> F02	1		保存和读取场景文件 （绘画数据）： 当将文件保存在摄像机内存中时，请在执行 STORE 前指定数值。 当读取时，请仅指定数值。
	2		
	3		
	4		
	5		
	STORE	通过 ENTER 执行。	
	STANDARD	通过 ENTER 执行。	读取标准绘画数据。
	READ (USB→CAM)	通过 ENTER 执行。	从 USB 驱动器将五个场景文件载入内存。
	WRITE (CAM→USB)	通过 ENTER 执行。	将摄像机内存中的五个场景文件写入 USB 驱动器。
	FILE ID	最多 16 个字符	对要写入 USB 驱动器的场景文件输入注释。 *请参阅第 23 页上的 "指定字符串"。*
	CAM CODE	摄像机代码	仅显示
	DATE	日期	仅显示
\<REFERENCE> F03	STORE FILE	通过 ENTER 执行。	将参考文件项目的当前设定保存在内存的参考文件中。
	STANDARD	通过 ENTER 执行。	读取内存的参考文件中的标准值。
	ALL PRESET	通过 ENTER 执行。	恢复原厂预设参考文件。
	READ (USB→CAM)	通过 ENTER 执行。	从 USB 驱动器载入参考文件。
	WRITE (CAM→USB)	通过 ENTER 执行。	将参考文件项目的当前设定作为参考文件写入 USB 驱动器。
	FILE ID	最多 16 个字符	对要写入 USB 驱动器的参考文件输入注释。 *请参阅第 23 页上的 "指定字符串"。*
	CAM CODE	摄像机代码	仅显示
	DATE	日期	仅显示

FILE			
页标题 页码	项目	设定	说明
<LENS FILE> F04	STORE FILE	通过 ENTER 执行。	
	No.	1 至 17, **1**	**1** 至 **16**：当使用非系列镜头时 **17**：当使用系列镜头时
	NAME		仅当使用非系列镜头时可更换。
	F NO	F1.0 至 F3.4, **F1.7**	仅当使用非系列镜头时可更换。
	CENTER MARKER		设定和保存中心标记位置：
	H POS	−20 至 +20, **0**	**H POS**：增加数值将位置向右移。 **V POS**：增加数值将位置向下移。
	V POS	−20 至 +20, **0**	
	STORE	通过 ENTER 执行。	
<OHB FILE> F05	STORE FILE	通过 ENTER 执行。	保存对 CCD 指定项目的偏移值。 （即使重新安装了 CCD 也无需重复保存操作）
<FILE CLEAR> F06	PRESET OPERATOR	通过 ENTER 执行。	
	REFERENCE (ALL)	通过 ENTER 执行。	
	10 SEC CLEAR	ON, **OFF**	将可清除已选菜单项目的功能设定为 ON/OFF。 *请参阅第 23 页上的 "使菜单项目返回其标准值"。*
	OHB WHITE SHAD (ALL)	通过 ENTER 执行。	
	OHB BLACK SHAD	通过 ENTER 执行。	
	OHB ND OFFSET	通过 ENTER 执行。	
	OHB MATRIX	通过 ENTER 执行。	

DIAGNOSIS 菜单

此菜单仅用于查看，无法使用此菜单进行摄像机设定。
但是，一些项目可设定查看条件。

| DIAGNOSIS | | | |
页标题 页码	项目	指示	说明
<OPTICAL LEVEL> D01	CCU→CAM	GREEN, YELLOW, RED, NG, NO SIGNAL	仅当连接 CCU 时显示。
	CAM→CCU	GREEN, YELLOW, RED, NG, NO SIGNAL	仅当连接 CCU 时显示。
	CABLE LENGTH	0.0 km 至 9.9 km, **-. - km**	显示摄像机电缆长度。（仅当连接 CCU 时显示。）
<BOARD STATUS> D02	OHB	OK, NG	
	DPR	OK, NG	
	SY	OK, NG	
	PS	OK, NG	
	SDI	OK, NG	
<ROM VERSION> D03 (U14)	CAMERA APP	Vx.xx	
	O.S	Vx.xx	
	PANEL	Vx.xx	仅当安装 HDLA 时显示。
	HKCT	Vx.xx	仅当安装 HKC-T1500 时显示。
	TG	Vx.xx	
	SY	Vx.xx	
	DPR1	Vx.xx	
	DPR2	Vx.xx	
	SDI	Vx.xx	
<SERIAL No.> D04	MODEL	HDC2580	
	NO.	xxxxxxx	

DIAGNOSIS			
页标题 页码	项目	指示	说明
<POWER SUPPLY STATUS> D05	VOLTAGE		
	CCU OUTPUT	100 - **250** - 300 V AC	设定 CCU 的电源电压。（仅当连接 CCU 时显示。）
注意 此显示器具有摄像机供电状态显示的误差幅度。仅供参考。			**注意** 视环境而定，如下设定。 1. 从摄像机拆下所有外围设备。 2. 尽量用最短的摄像机电缆将摄像机连接至 CCU。 3. 输入 CAM INPUT 中显示的电压值。
	CAM INPUT	xxx.x V	显示摄像机的输入电源电压。（仅当连接 CCU 时显示。）
	CAMERA CABLE		
	RESISTANCE	0.1 - **3.4** - 9.9 ohm/100 m	设定各电源线的电阻值。（仅当连接 CCU 时显示。） **注意** 在光纤电缆标准 （2SM-9.2-37.5/2SM-16-37.5）中，电源线的阻抗指定为正常温度下 3.75 欧姆 /100 米。 但是，此菜单是基于正常温度下 3.4 欧姆 /100 米计算的实际测量值。 由于电源线的阻抗因电缆类型而异，因此请根据所使用的光纤电缆设定一个循环的电源线阻抗。
	LENGTH	x.x km	显示 CCU 测量的电缆长度。（仅当连接 CCU 时显示。）
	TEMPERATURE	LOW (–5degC), **NORM (25degC)**, HIGH (55degC)	设定执行电缆电阻补偿时铺设电缆的环境温度。（仅当连接 CCU 时显示。）
	CCU SUPPLY	x.x A	显示 CCU 的电源电流。（仅当连接 CCU 时显示。） **注意** 如果摄像机电缆太短，则无法进行准确测量。
	CAM CONSUMPTION	xx.x A	显示摄像机电流消耗。
	POWER CONSUMPTION	xxx %	显示供电容量的功耗率。

附录

使用须知

有关激光束的注意事项
激光束可能会损坏 CCD。如果拍摄的场景中有激光束，请务必不要让激光束直接对准摄像机镜头。

避免受到剧烈撞击
可能会导致机壳或内部元件损坏。

当使用完毕时
将电源开关置于 OFF 端。

操作和存放环境
存放在有空调的水平位置。
如果装置被弄湿，请务必在存放前将其完全擦干。
避免在以下场所使用或存放：
- 极热或极冷处
- 高湿度场所
- 有强烈振动的场所
- 强磁场附近
- 受阳光直射的场所或加热器附近

湿气凝结
如果将摄像机从寒冷场所移至温暖场所，或在潮湿场所使用时，摄像机镜头或内部可能会形成湿气凝结。
摄像机没有内置湿气凝结指示。如果在机身或镜头上出现湿气凝结，请关闭摄像机并等待约一小时使湿气凝结消失。

CCD 图像传感器的特有现象
可能会出现在图像中的下列现象是 CCD （Charge Coupled Device，电荷耦合器件）图像传感器的特性。并不表示故障。

白色斑点
虽然 CCD 图像传感器采用高精密技术制造，在少数情况下屏幕上可能会出现细微的白色斑点，这是由宇宙射线造成的。
这与 CCD 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
- 当您增大主增益 （灵敏度）时
本产品具有补偿功能，通过自动黑平衡调节 *（请参阅第 16 页）* 可减少问题。

拖影
如果拍摄物体异常明亮，例如强聚光灯或闪光灯，屏幕上可能会产生垂直拖尾现象，或者图像可能会失真。

折叠失真
拍摄斑纹、条纹或线条图案时，拍摄的图像可能会呈现锯齿状或抖动。

出错信息

如果操作期间出现问题，将显示警告信息。

注意

若要显示信息，请将 DISPLAY 开关设定为 DISPLAY 或 MENU。

信息	含义
TEMP WARNING	内部温度异常高。
FAN STOP	内置风扇转动不正确。
SET SYSTEM CLOCK	内部时钟的时间 / 日期未设定。
OHB BLOCK NG!	光学区块中检测到问题。
MSU RPN BUSY	从外接设备操作时正在使用摄像机菜单尝试进行 RPN 补偿。 请咨询 Sony 维修人员。
VF RPN BUSY	使用摄像机菜单操作时正在从外接设备尝试进行 RPN 补偿。 请咨询 Sony 维修人员。
NO USB FLASH DRIVE	未连接 USB 驱动器时尝试进行 USB 驱动器操作。
USB FLASH DRIVE ERROR	访问USB驱动器时发生错误。
FORMAT ERROR!	尝试通过未格式化的 USB 驱动器进行 USB 驱动器操作。
WRITE PROTECTED	尝试通过写保护 USB 驱动器进行文件写入。
FILE ERROR	从 USB 驱动器读取文件时发生错误。
OTHER MODEL'S FILE	尝试读取不兼容的其他型号的文件。
FILE NOT FOUND	USB 驱动器中不存在您尝试读取的文件。

使用 **USB** 驱动器

您可以将 USB 驱动器连接至 USB 接口以保存和载入设定数据文件。

推荐以下 Sony USB 驱动器。（截至 2012 年 7 月）

系列	产品
Micro Vault L	USM16GL, USM8GL, USM4GL, USM2GL, USM1GL
Micro Vault LX	USM64GLX, USM32GLX, USM8GLX, USM4GLX
Micro Vault P	USM64GP, USM32GP, USM16GP, USM8GP, USM4GP
Micro Vault M	USM32GM, USM16GM, USM8GM, USM4GM
Micro Vault R	USM32GR, USM16GR, USM8GR, USM4GR
Micro Vault Q	USM64GQ, USM32GQ, USM16GQ, USM8GQ
Micro Vault N	USM32GN, USM16GN, USM8GN, USM4GN

注意

- 非上述推荐的 USB 驱动器连接到 USB 接口时可能无法被识别。
- USB 驱动器必须用 FAT16 或 FAT32 文件系统格式化。推荐的 Sony USB 驱动器已格式化，无需任何事先设定即可使用。

规格

一般

电源要求	AC 240 V， 1.4 A （最大） DC 180 V， 1.0 A （最大） DC 12 V， 7 A （最大）
工作温度	−20°C 至 +45°C
存放温度	−20°C 至 +60°C
质量	约 4.5 kg （仅本机）
尺寸	请参阅*第 52 页*。

成像器

成像器	2/3 型逐行扫描 CCD
方式	3-CCD， RGB
有效分辨率	1920 （水平） × 1080 （垂直）

电特性

灵敏度	F11.0 （89.9% 反射率时 2000 lx）
图像 S/N	典型 −60 dB/−64 dB (NS MAX)
水平分辨率	1000 电视线 （画面中心） 5% 或更高调制
几何失真	可忽略 （不包括镜头失真）

光学系统规格

频谱系统	F1.4 棱镜
内置滤镜	1：透明 2：1/4ND 3：1/16ND 4：1/64ND 5：十字滤镜

输入 / 输出接口

CCU	光 / 电多路接口 （1）
LENS	12 芯 （1）
VF	20 芯 （1）
MIC 1 IN	XLR 3 芯，凹形 （1）
AUDIO IN CH1, CH2	XLR 3 芯，凹形 （各 1 个） MIC 的 AUDIO 开关：−60 dBu （通过菜单或 HDCU2080 操作最多可选择 −20 dBu），平衡 LINE 的 AUDIO 开关：0 dBu，平衡
INTERCOM 1, INTERCOM 2	XLR 5 芯，凹形 （各 1 个）
EARPHONE	立体声迷你插孔 （1）
DC IN	XLR 4 芯 （1）， DC 10.5 至 17 V
DC OUT	4 芯 (1)，DC 10.5 至 17 V，最大 0.5 A （根据施加的负载和输入可能受限制。）
SDI-MONI	BNC 型 （1）
TEST OUT	BNC 型 （1）
PROMPTER/ GENLOCK	BNC 型 （1）， 1 Vp-p， 75 欧姆
RET CTRL	6 芯 （1）
REMOTE	8 芯 （1）
TRACKER	10 芯 （1）
CRANE	12 芯 （1）
USB	USB 2.0 A型4芯 (1) （用于连接USB驱动器）

附件

操作手册 （1）	
电缆夹带 （1 套）	
摄像机编号标签 （1）	
螺丝 （+B3×8）（2）	

设计和规格若有变更，恕不另行通知。

选购件 / 相关设备

选购件	
高清电子寻像器	HDVF-20A （2 型，单色）
	HDVF-200 （2 型，单色）
	HDVF-550 （5 型，单色）
	HDVF-C30WR （2.7 型，彩色）
	HDVF-C35W （3.5 型，彩色）
	HDVF-C550W （5 型，彩色）
	HDVF-C730W （6.5 型，彩色）
	HDVF-EL75 （7.4 型，彩色）
大镜头适配器	HDLA1500/1503/1505
麦克风固定器	CAC-12
返送视频选择器	CAC-6
寻像器旋转支架	BKW-401
双滤片单元	HKC-DF20
三脚架适配器	VCT-14
缓压肩垫	A-8286-346-A

相关设备
HDCU2080 摄像机控制单元
RCP-1000 系列遥控面板
MSU-1000 系列主设置装置
CNU-700 摄像机指令网络装置
HZC-CSM10 摄像机系统管理软件

注意
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尺寸

单位：毫米

135

105

268

197

363

规格
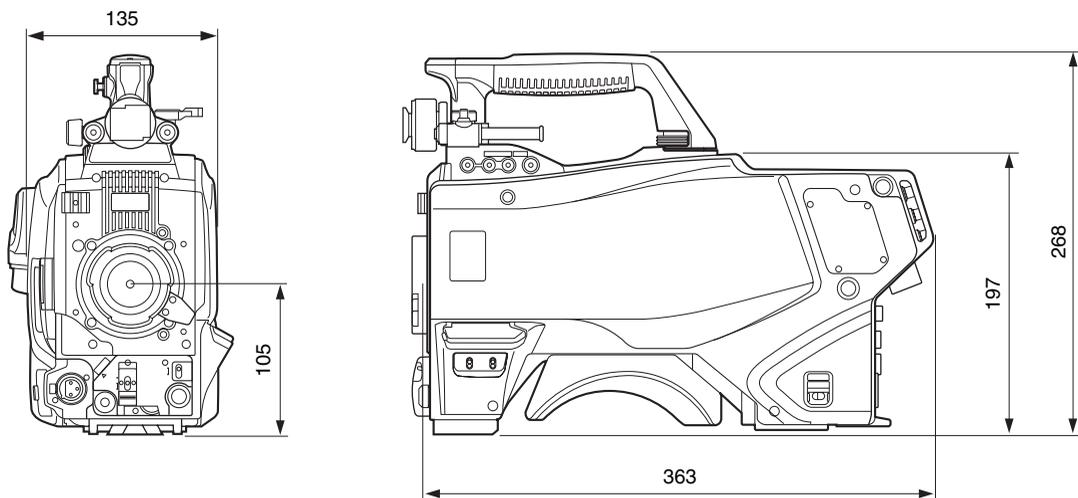
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软件包列表

lzo	time	less
blktrace	util-linux-ng	libusb
compcache	vsftpd	minicom
directfb	wireless-tools	oprofile
e2fsprogs	acl	procps
net-tools	glibc	setserial
gawk	bash	tar
gdisk	busybox	tofrodos
gpm	coreutils	vim
iputils	diffutils	which
libtool	dosfstools	xz
libcap	ethtool	iptables
memstat	findutils	mtd-utils
mkcramfs	fuse	glibc-libpthread_ptt
nfs-utils	glib	module-init-tools
procinfo	grep	linux-kernel
pump	ksymoops	netbase

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The GNU General Public License (GPL)

Version 2, June 1991

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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4. Contacts

There are two mailing lists related to FreeType:

  o freetype@nongnu.org

Discusses general use and applications of FreeType, as well as future and wanted additions to the library and distribution. If you are looking for support, start in this list if you haven't found anything to help you in the documentation.

o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues, specific licenses, porting, etc.

Our home page can be found at

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