

Color Video Camera

彩色摄像机

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

使用手册

使用本机器前，请仔细阅读本实用手册并妥善保存以备日后参考。

Super HAD CCD II

SSC-E413P/E418P

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http://www.sony.net/

WARNING

To reduce a risk of fire or electric shock, do not expose this product to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquid, such as vases, shall be placed on the apparatus.

WARNING (SSC-E418P only)

The mains plug must be used to disconnect mains power. Please ensure that the socket outlet is installed near the equipment and shall be easily accessible.

For the customers in Europe

The manufacturer of this product is Sony Corporation, 1-7-1 Konan, Minatoku, Tokyo, Japan.
The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany.
For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

For the customers in Europe, Australia and New Zealand

WARNING

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.
In the case that interference should occur, consult your nearest authorized Sony service facility.
This apparatus shall not be used in the residential area.

ATTENTION

The electromagnetic fields at specific frequencies may influence the picture of this unit.

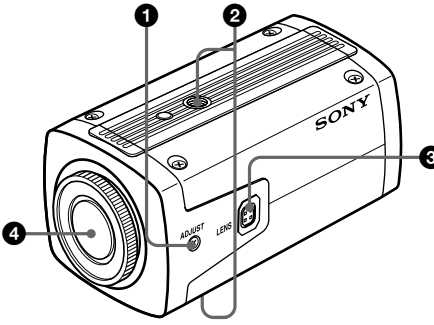
Caution

This installation should be made by a qualified service person and should conform to all local codes.

CAUTION

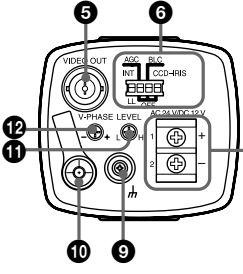
The rating label is located on the top.

A

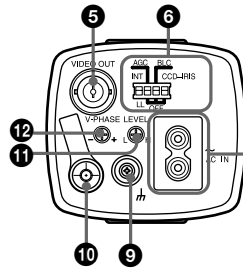


B

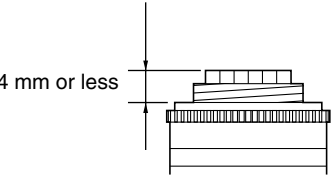
SSC-E413P



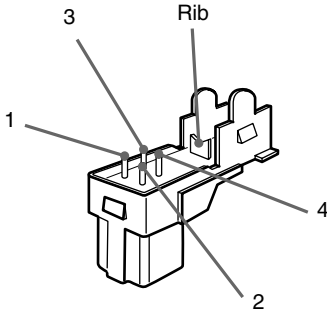
SSC-E418P



C



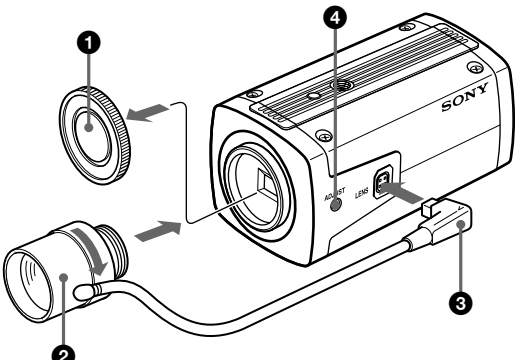
D



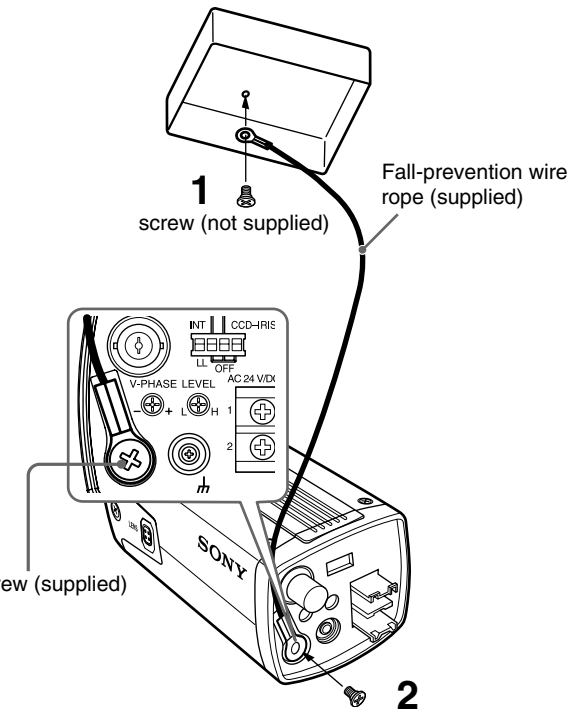
Lens Connector (not supplied)

Rib (If the cable is thick, cut this off.)		
Pin 4	DC control	Drive – (Ground)
Pin 2	DC control	Control +
Pin 1	DC control	Control –
Pin 3	DC control	Drive +

E

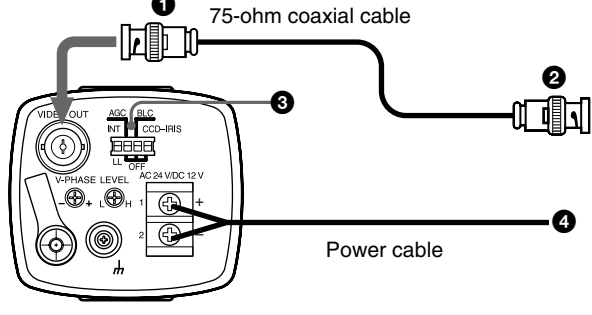


F

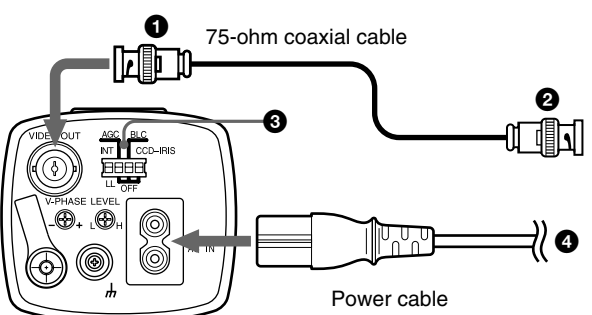


G

SSC-E413P



SSC-E418P



English

This manual applies to the SSC-E413P and SSC-E418P. The operating instructions apply to these cameras, but their signal systems and power requirements are different.

	Signal system	Power requirements
SSC-E413P	PAL color system	DC 12 V $\pm$ 10 % or AC 24 V $\pm$ 10 %, 50 Hz
SSC-E418P	PAL color system	AC 220-240 V $\pm$ 10 %, 50 Hz

Features

The color video camera is designed for use in a monitoring system.

- High resolution and high sensitivity with a 1/3 type Super HAD CCD II as the imaging device
- CCD-IRIS function
- Automatic white balance tracking and adjustment (ATW)
- DC controlled auto iris lenses
- BLC (Backlight Compensation) through the center measurement
- LEVEL adjustment for various lighting conditions
- Power supply: Automatically switched between DC 12 V and AC 24 V (SSC-E413P)
- AC line lock and INT
- The built-in tripod screws are located on both the top and bottom of the camera.

* Super HAD CCD II is a trademark of Sony Corporation.

Notes on Use

Power supply

- The SSC-E413P operates on either DC 12 V or AC 24 V (50 Hz) power. The SSC-E413P automatically detects the power.
 - When connecting the transformer, be sure to connect each lead to the appropriate terminal. Wrong connection may cause malfunction and/or damage to the video camera.
 - Ground the unit or an irregular voltage may be generated in the AC power cord and may cause malfunction and/or damage to the video camera.
- The SSC-E418P must always be operated with an AC 220 - 240 V (50 Hz) power supply.

Handling of the unit

Be careful not to spill water or other liquids on the unit, or to get combustible or metallic material inside the body. If used with foreign matter inside, the camera is liable to fail, or to cause fire or electric shock.

Operating and storage locations

Avoid aiming the camera at very bright objects such as the sun or electric lights for an expanded period. Avoid operating or storing the unit in the following locations.

- Extremely hot or cold places (operating temperature -10°C to $+50^{\circ}\text{C}$; 14°F to 122°F ; however, we recommend that the unit be used within a temperature range of 0°C to $+35^{\circ}\text{C}$; 32°F to 95°F .)
- Damp or dusty places
- Where it is exposed to rain
- Where it is subject to strong vibration and shock
- Close to generators of powerful electromagnetic radiation such as radio or TV transmitters
- Where it is subject to fluorescent light reflections
- Where it is subject to unstable (flickering, etc.) lighting conditions

Care of the unit

- Remove dust or dirt from the surface of the lens or CCD with a blower.
- Use a dry soft cloth to clean the body. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent, then wipe dry.
- Avoid the use of volatile solvents such as thinners, alcohol, benzene, and insecticides. They may damage the surface finish and/or impair the operation of the camera.

Other

- When BLC is in the "ON" position, "hunting" may occur, that is, the image may get darker and lighter as the camera "hunts" for the best exposure level. If hunting occurs, set the BLC switch to "OFF."
- If you use the CCD-IRIS function in locations where the camera is exposed to fluorescent light, a slow color change may occur.

In the event of any problems with the operation of the camera, contact your Sony service representative.

Note on laser beams

Laser beams may damage the CCDs. If you shoot a scene that includes a laser beam, be careful not to let a laser beam become directed into the lens of the camera.

Location and Function of Parts

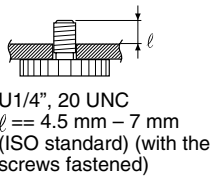
Top/Bottom/Front/Rear/Side

Focal length adjustment

Use this screw to adjust the focal length (the distance between the lens mounting plane and the image plane).

Tripod screws

The screw holes for attaching the tripod are located on both the top and bottom of the camera. Use a 1/4" UNC-20 screw to attach a tripod to the camera. The tripod must be set up on a flat surface and tightened firmly by hand.



Caution

Use the mounting screw whose length is 4.5 mm – 7 mm only. Use of other screws may cause improper mounting and damage parts inside the camera.

LENS connector (4 pin socket)

Supplies power and control signals to an auto iris lens.

Lens mount

Use to mount an appropriate CS-mount lens.

Switch/Terminal area

VIDEO OUT connector (BNC-type)

Mode switches

Sync (INT/LL) switch

Use to select the synchronization system from INT (Internal) or LL (Line Lock).

AGC switch

Use to increase the gain of the video amplifier when dark.

BLC switch

When set to "BLC", adjusts exposure to compensate for situations where the subject is lit from behind.

CCD-IRIS switch

When using a manual iris lens, set this to "CCD-IRIS" to automatically adjust the sensitivity according to the incidental light conditions. When using an auto iris lens, set this to "OFF."

AC 24 V/DC 12 V screw terminals (SSC-E413P)

Connect to an external power supply of AC 24 V or DC 12 V.

AC IN (SSC-E418P)

Connect this to a 220 V to 240 V AC power supply.

Ground terminal (screw type)

Connect this terminal to the ground, when noise occurs.

Fall-prevention wire rope mounting screw hole

When installing the camera to a ceiling or wall, secure the supplied fall-prevention wire rope to this hole using the supplied screw.

LEVEL adjustment screw

Use to adjust the iris level when you are using a DC controlled auto iris lens.

V PHASE adjustment screw

Use to adjust the vertical phase of cameras synchronized by Line lock.

Installation

WARNING

- If you attach the camera in the height such as the wall or the ceiling, etc., entrust the installation to an experienced contractor or installer.
- If you install the camera on the ceiling, ensure that the ceiling is strong enough to withstand the weight (20 Kg) of the camera plus the bracket and then install the camera securely. If the ceiling is not strong enough, the camera may fall and cause serious injury.
- To prevent the camera from falling, make sure to attach the supplied wire rope.
- If you attach the camera to the ceiling, check periodically, at least once a year, to ensure that the connection has not loosened. If conditions warrant, make this periodic check more frequently.

Suitable lenses

The lens must be a CS-mount type lens weighing less than 1 kg. The protrusion behind the mounting surface must be 4 mm or less.

Installation of an Auto Iris Lens Connector

Install the lens connector (not supplied) when using an Auto Iris Lens. This installation should be done only by qualified service personnel or system installers. A lens connector is not included with this camera package.

- Cut the iris control cable at the edge of the lens connector to remove the existing lens connector and then remove the outer cable cover as shown in the diagram on the left.
- Solder the lens cable to the pins of the lens connector.

Fitting the lens

- Unscrew the lens mount cap.
- Screw in the lens, and turn it until it is secured.
- Insert the lens plug in the LENS connector.
 - When fitting a manual-iris lens, omit step 3.
- According to the type of lens, adjust the focal length by turning the focal length adjustment screw.

Caution

- Keep the lens mount cap on the camera when it is not attached to the lens.
- Check the lens mount**
Check the lens mount at least once a year to ensure it has not become loose. If conditions warrant, make this periodic check more frequently.

Installing the camera

ATTENTION

If installing the camera on the ceiling, be sure it is secure. If not securely installed, the camera may fall and injury may occur.

If the camera is installed on the ceiling using equipment such as a bracket, housing and motored swivel base (pan/tilt), do the following:

- Use tripod screws and securely tighten them with a driver. Order the tripod screws (Sony Part No. 3-174-693-02) from your nearest Sony dealer.
- Install the tripod screw on a flat surface.

Attaching the fall-prevention wire rope

When you install the camera on a ceiling or a high position, be sure to attach the supplied fall-prevention wire rope to prevent the camera from falling. Attach the fall-prevention wire rope to the screw hole on the rear of the camera, as in the illustration.

Note

Take care not to short-circuit the power terminal or the cable with the wire rope when you attach it.

- Secure the wire rope to the junction box on the ceiling.
 - Use a screw to match the screw hole of your junction box (not supplied).
- Secure the wire rope to the wire rope mounting screw hole on the rear of the camera using the supplied screw.

Caution

Use the supplied screws for installation. If not, the wire rope may not function properly.

Connecting the Camera

- Connect the video cable to the VIDEO OUT connector.
- Connect the video cable to the VIDEO IN connector of a video monitor, etc.
- Select the synchronization system using the sync (INT/LL) switch.

Note
 - Use this switch to set the camera synchronization mode to internal or line lock. The line lock is available only for AC 24 V. When the camera power is DC 12 V, be sure to select the internal mode.
- Connect the power source using the power cable.

SSC-E413P: to a DC 12 V or an AC 24 V power source
SSC-E418P: to an AC 220 - 240 V power source

Notes

- Be sure to input only the proper voltage to the power terminal of the camera.
- Be sure to push the power cord all the way in.

Phase Adjustment

Vertical phase

The picture may roll vertically if the vertical phase is not set. Use the V PHASE adjustment screw to adjust the vertical phase.

Adjusting the Incident Light Level

Since the incidental light level has been preset at the factory, usually no further adjustment is required. If the picture is too dark, however, or if the picture's highlights are extremely overexposed, adjust the LEVEL adjustment screw with a screwdriver. This adjustment can only be used for DC controlled auto iris lens.

- Turn toward **L** (low) to make the picture darker.
- Turn toward **H** (high) to make the picture brighter.

CCD Characteristics

The following conditions may be observed when using a CCD camera, but are not due to any fault with the camera.

Vertical smear: This phenomenon occurs when viewing a very bright object.

Patterned noise: This is a fixed pattern which may appear over the entire monitor screen when the camera is operated at high temperature.

Jagged picture: When viewing stripes, straight lines, or similar patterns, the image on the screen may appear jagged.

Specifications

Imaging device	1/3type interline transfer CCD
Picture elements	752 (horizontal) $\times$ 582 (vertical)
Lens mount	CS-mount
Signal system	PAL color system
Sync system	Internal/AC line lock
Horizontal resolution	540 lines
Minimum illumination	0.3lx (F1.2, 50IRE, AGC ON)
S/N	50 dB (AGC OFF)
White Balance	ATW
Video output	1 Vp-p, 75 ohm, negative sync
CCD iris	1/50 to 1/100,000 sec
Automatic Gain Control	Switchable: ON (Turbo mode)/OFF
Power requirements	SSC-E413P: DC 12 V $\pm$ 10%/AC 24 V $\pm$ 10%, 50 Hz SSC-E418P: AC 220 - 240 V $\pm$ 10%, 50 Hz
Power consumption	3.5 W
Operating temperature	-10°C to $+50^{\circ}\text{C}$ (14°F to 122°F)
Operating humidity	20 to 80%
Storage temperature	-40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$)
Storage humidity	20 to 95%
Mass	SSC-E413P: Approx. 360 g (12.7 oz) SSC-E418P: Approx. 385 g (13.6 oz)
Dimensions (w/h/d)	60 $\times$ 54 $\times$ 120 mm (2 $\frac{3}{8}$ $\times$ 2 $\frac{1}{4}$ $\times$ 4 $\frac{3}{4}$ inches)
Supplied accessories	Lens mount cap (1) Operating Instructions (1) Fall-prevention wire rope (1) Screw ϕ M4 $\times$ 8 (1) Power cable (1) (SSC-E418P only)

Design and specifications are subject to change without notice.

Note

Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.

Regular parts replacement

Some of the parts that make up this product (electrolytic condenser, for example) need replacing regularly depending on their life expectancies. The lives of parts differ according to the environment or condition in which this product is used and the length of time it is used, so we recommend regular checks.
Consult the dealer from whom you bought it for details.

警告

为减少火灾或电击危险，请勿让本产品受到雨淋或受潮。

为了避免触电，切勿打开机壳。只能请专业维修人员进行维修。

设备不要受到滴水或水溅，不要将盛满液体的花瓶等物品放在设备上。

警告（仅限 SSC-E418P）

必须使用电源插头断开电源连接。请确保电源插座安装在设备旁，并要便于插拔。

声明

此为 A 级产品，在生活环境中，该产品可能会造成无线电干扰。在这种情况下，可能需要用户对其干扰采取切实可行的措施。一旦发生干扰，请联系附近的授权 Sony 维修机构。本设备不应在住宅区使用。

对于欧洲消费者

本产品制造商为 Sony Corporation，1-7-1 Konan, Minatoku, Tokyo, Japan。EMC 和产品安全授权代理为 Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany。任何维修或质保事务请联系单独的维修或质保文件中提供的地址。

注意

特定频率的电磁场可能会干扰本装置的图像。

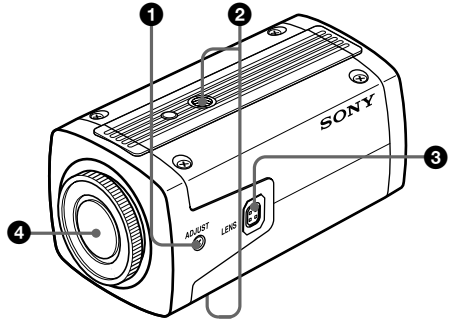
小心

此项安装应由专业服务人员进行，并遵照所有本地法规。

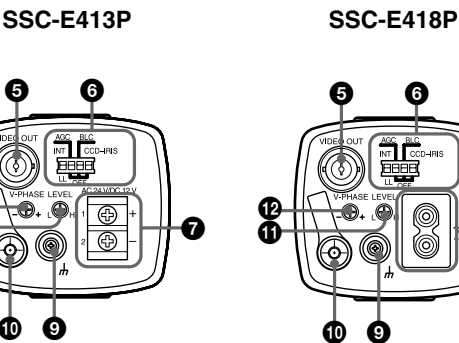
小心

规格标签在顶部。

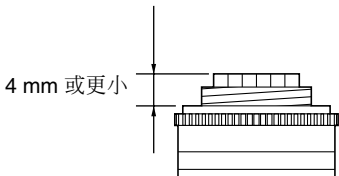
A



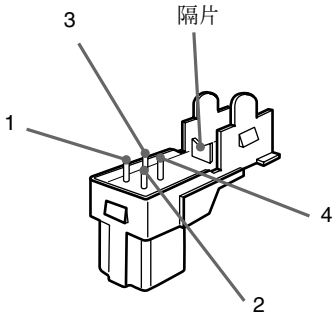
B



C



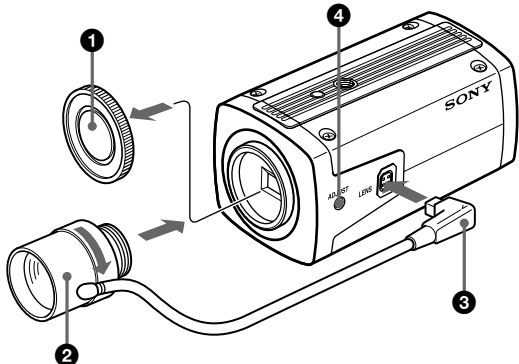
D



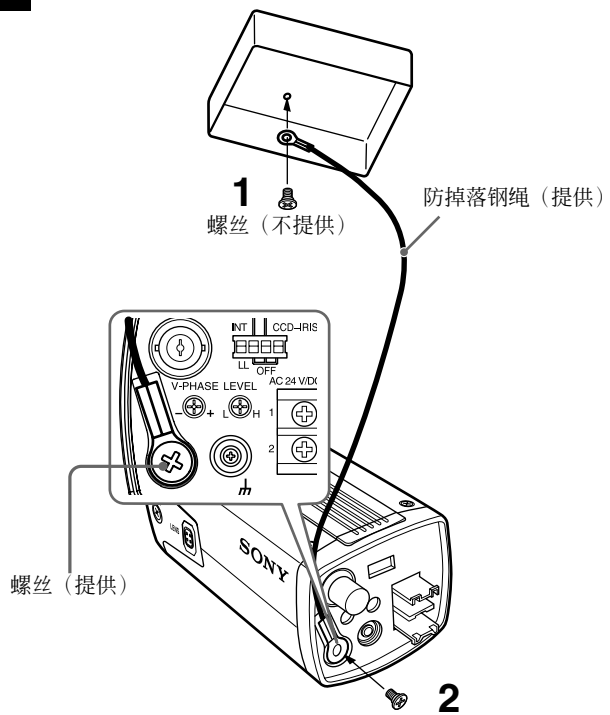
镜头插头（不提供）

隔片（如果电缆太粗，则将此隔片切除。）	
4 号脚	直流控制 驱动－（接地）
2 号脚	直流控制 控制＋
1 号脚	直流控制 控制－
3 号脚	直流控制 驱动＋

E

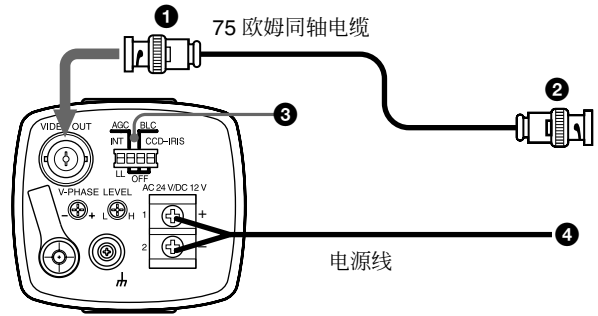


F

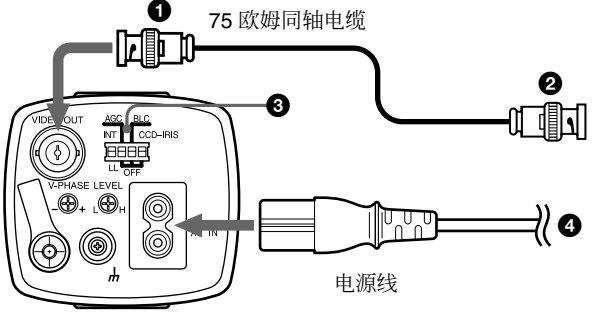


G

SSC-E413P



SSC-E418P



中文

本手册适用于 SSC-E413P 和 SSC-E418P。操作说明适用于这些摄像机，但其信号制式和电源要求不同。

	信号制式	电源要求
SSC-E413P	PAL 彩色制式	DC 12 V ± 10 % 或 AC 24 V ± 10 %，50 Hz
SSC-E418P	PAL 彩色制式	AC 220-240 V ± 10 %，50 Hz

特点

- 本彩色摄像机专用于监控系统。
- 高分辨率和高灵敏度，采用 1/3 型 Super HAD CCD II 作为成像设备
- CCD-IRIS 功能
- 自动白平衡跟踪和调节（ATW）
- 兼容直流控制自动光圈镜头
- 中央测光 BLC（背光补偿）
- 各种照明条件的等级调节
- 电源：在 DC 12 V 和 AC 24 V（SSC-E413P）之间自动切换
- AC 线路锁定和 INT
- 在摄像机的顶部和底部均有内置三脚架螺丝
- * Super HAD CCD II 是 Sony Corporation 的商标。

关于使用注意事项

电源

- SSC-E413P 可采用 DC 12 V 或 AC 24 V（50 Hz）作为电源。SSC-E413P 自动检测电源。
 - 连接变压器时，必须将每根电线连接到正确的端子。连接错误可能会造成故障和/或损坏摄像机。
 - 请勿对设备接地，否则交流电源线内可能会产生不规则电压，并可能造成故障和/或损坏摄像机。
- SSC-E418P 必须始终采用 AC 220 - 240 V（50 Hz）作为电源。

管理本装置

请小心，不要将水或其他液体溢在本装置上，或让易燃物或金属物进入机身内。如果内部有异物物时使用，则摄像机可能掉落，或引起火灾或触电。

使用和存放场所

避免将摄像机长时间对准太阳或电灯等非常明亮的物体。避免在以下场所使用或存放本装置。

- 异常炎热或寒冷的地方（工作温度：-10°C 至 +50°C，但我们建议在 0°C 至 +35°C 温度范围内使用本装置。）
- 潮湿或满是灰尘的地方
- 受到雨淋的地方
- 受到强烈震动或撞击的地方
- 靠近强电磁辐射源，如收音机或电视发射器
- 受到荧灯光线反射的地方
- 受到不稳定（闪烁）光照条件影响的地方

小心使用本装置

- 请使用吹气工具清除镜头表面的灰尘或污物。
- 请使用干燥的软布清洁机身。如果机身非常脏，请用布稍沾中性清洁剂，然后擦去脏物。
- 避免使用稀溶剂、酒精、苯和杀虫剂等挥发性溶剂。这些溶剂可能会损坏摄像机的表面涂层和/或削弱摄像机的操作。

其它

- 当 BLC 处于“ON”位置时，可能会发生“振荡”，即随着摄像机“振荡”到最佳曝光等级，图像可能变得更暗和更亮。如果发生振荡，则将 BLC 切换到“OFF”。
- 如果在摄像机暴露于荧光灯下使用 CCD-IRIS 功能，则颜色可能变淡。

当摄像机出现任何问题时，请联系您的 Sony 维修代表。

有关激光束的注意事项

激光束可能会损伤 CCD。如果拍摄包含激光束的场景，请注意不要让激光束直接射入摄像机镜头。

部件位置和功能

顶部/底部/正面/背面/侧面

1 焦距调节

使用此螺丝调节焦距（镜头安装板和图像板之间的距离）。

2 三脚架螺丝孔

摄像机的顶部和底部都有用于安装三脚架的螺丝孔。使用 1/4" UNC-20 螺丝将三脚架安装到摄像机上。三脚架必须放置在平坦的表面上，并用 $\ell = 4.5\text{ mm} - 7\text{ mm}$ （ISO 标准）（用螺丝固定）。

小心

只能使用长度为 4.5 mm - 7 mm 的安装螺丝。使用其它螺丝可能会造成不当安装，并可能损坏摄像机内部零件。

3 镜头接口（4 针插孔）

向自动光圈镜头提供电源和控制信号。

4 镜头卡座

用于安装合适的 CS 安装镜头。

开关/接口区域

5 视频输出接口（BNC 型）

6 模式开关

同步从 INT/LL 开关

用于从 INT（内部）或 LL（线路锁定）中选择同步系统。

AGC 开关

用于在黑暗情况下增加视频放大器的增益。

BLC 开关

当设定为“BLC”时，可调节被摄物体逆光情况下的曝光补偿。

CCD-IRIS 开关

当使用手动光圈镜头时，请将此开关设定为“CCD-IRIS”，从而根据入射光条件自动调节感光度。当使用自动光圈镜头时，请将此开关设定为“OFF”。

7 AC 24 V/DC 12 V 螺丝接口（SSC-E413P）

用于连接 AC 24 V 或 DC 12 V 的外部电源。

8 交流电源插口（SSC-E418P）

连接至 220 V - 240 V 交流电源。

9 接地接口（螺纹型）

产生噪音时，将此接口连接到接地。

10 防掉落钢丝绳安装螺丝孔

当将摄像机安装到天花板或墙上时，请使用附带的螺丝将防掉落钢丝绳固定到此孔中。

11 LEVEL 调节螺丝

当您使用 DC 控制的自动光圈镜头时，用于调节光圈等级。

12 V PHASE 调节螺丝

用于调节由线路锁定同步的相机垂直相位。

安装

警告

- 如果要將摄像机安装在天花板等高处，请将安装工作委托给有经验的承包商或安装人员。
- 如果要將摄像机安装在天花板上，必须确保天花板有足够的强度承受摄像机加上支架的重量（总共 20 Kg），然后再牢固安装摄像机。如果天花板强度不够，则摄像机可能掉落并造成严重的人员受伤。
- 为防止摄像机掉落，必须连接附带的钢丝绳。
- 如果將摄像机安装在天花板上，请定期检查，每年至少一次，以确保连接没有松动。如果条件允许，请更频繁定期检查。

适用的镜头

镜头必须为重 1 kg 以下的 CS 安装型镜头。安装面后方的突出部分不得高于 4 mm。

自动光圈镜头插头的安装

使用自动光圈镜头时，请安装镜头插头（不提供）。此安装只可由专业维修人员或系统安装人员来执行。本摄像机包装中未附带镜头插头。

- 切去镜头插头边缘的光圈控制电缆，以取下现有的镜头插头，然后如左图所示除去电缆外套。
- 将镜头电缆焊接到镜头插头的针脚上。

安装镜头

- 拧下镜头安装盖。
 - 拧入镜头，然后旋转直到其固定到位。
 - 将镜头插头插入镜头接口。
- 安装手动光圈镜头时，请跳步骤 3。
- 根据镜头类型，旋转焦距调节螺丝调节焦距。

小心

- 当摄像机上未安装镜头时，请始终将镜头安装盖放在摄像机上。
 - 检查镜头卡座**
- 每年至少检查 1 次镜头卡座以确保其未出现松动。如果条件允许，请更频繁定期检查。

安装摄像机

注意

如果要將摄像机安装在天花板上，请务必确保安装牢固。如果安装不牢固，则摄像机可能会掉落并造成人身伤害。如果使用支架、外罩和电动旋转底座（全景旋转/倾斜）等设备将摄像机安装在天花板上时，请执行下列操作：

- 使用三脚架螺丝并用螺丝刀牢固拧紧。请就近在 Sony 经销商处购买三脚架螺丝（Sony 部件编号 3-174-693-02）。
- 将三脚架螺丝安装在平坦的表面上。

安装防掉落钢丝绳

如果将摄像机安装到天花板或较高的位置，则必须连接附带的防掉落钢丝绳，以防止摄像机掉落。

如图所示，将防掉落钢丝绳连接至摄像机背后的螺丝孔。

注

连接钢丝绳时请小心，切勿将电源端子或电缆与钢丝绳短路。

- 将钢丝绳固定到天花板上的接线盒内。
 - 请使用符合接线盒（不附带）螺丝孔的螺丝。
- 使用附带的螺丝将钢丝绳固定到摄像机背面的钢丝绳安装螺丝孔中。

小心

请使用附带的螺丝进行安装。否则，钢丝绳可能无法正确起作用。

连接摄像机

- 将视频电缆连接到视频输出接口。
- 将视频电缆连接到视频监视器等设备的视频输入接口。
- 使用同步（INT/LL）开关选择同步系统。

注

使用此开关将摄像机同步模式设定为内部或线路锁定。线路锁定只可用于 AC 24 V。当摄像机的电源为 DC 12 V 时，请务必选择内部模式。

- 使用电源线连接合适的电源。
 - SSC-E413P：连接至 DC 12 V 或 AC 24 V 电源
 - SSC-E418P：连接至 AC 220 - 240 V 电源

注

- 请务必只可将正确的电压输入到摄像机的电源端子。
- 请务必将电源线完全推入。

相位调节

垂直相位（线路锁定模式）

如果未设定垂直相位，则图像可能会垂直滚动。请使用 V PHASE 调节螺丝调节垂直相位。

调节入射光等级

由于入射光等级是出厂时预设的，因此一般无需进行进一步调节。但是，如果图像过暗，或者如果图像的高亮部分曝光过度，请使用螺丝刀调节 LEVEL 调节螺丝。此调节只可用于 DC 控制的自动光圈镜头。

- 朝着 L（低）方向旋转使图像变暗。
- 朝着 H（高）方向旋转使图像变亮。

CCD 特性

使用 CCD 摄像机时可能会可能发现下列现象，但是这并不是摄像机的问题。

垂直拖影：当观看非常亮的物体时，会出现此现象。

图案噪点：当在高温下使用摄像机时，整个显示画面中可能会出现固定图案。

锯齿状图像：观看条形、直线或类似图案时，屏幕上的图像可能会变成锯齿状。

规格

成像设备	1/3 型隔行传送 CCD
像素	752（水平）× 582（垂直）
镜头卡座	CS 安装
信号制式	PAL 彩色制式
同步系统	内部/AC 线路锁定
水平分辨率	540 线
最低照明	0.3lx（F1.2，50IRE，AGC ON）
信噪比	50 dB（AGC OFF）
白平衡	ATW
视频输出	1.0 Vp-p，75 欧姆，负同步
CCD 光圈	1/50 - 1/100000 秒
自动增益控制	可切换：ON（Turbo 模式）/OFF
电源要求	SSC-E413P: - DC 12 V ±10%/AC 24 V ±10%，50 Hz SSC-E418P: - AC 220 - 240 V ±10%，50 Hz
功耗	3.5 W
工作温度	-10°C 至 +50°C
工作湿度	20 至 80%
存储温度	-40°C 至 +60°C
存储湿度	20 至 95%
质量	SSC-E413P: - 约 360 g SSC-E418P: - 约 385 g
外观尺寸（宽/高/深）	60 × 54 × 120 mm
配件	镜头安装盖（1） - 使用说明书（1） - 防掉落钢丝绳（1） - 螺丝 ④ M4 × 8（1） - 电源线（1）（仅限 SSC-E418P）

设计和规格若有变更，恕不另行通知。

注

在使用前请始终确认本机运行正常。无论保修期内外或基于任何理由，SONY 对任何损坏概不负责。由于本机故障造成的现有损失或预期利润损失，不作（包括但不限于）退货或赔偿。

定期部件更换

视其使用寿命而定，本产品中的某些部件（如电解质电容）需要定期更换。部件的寿命因本产品的使用环境或条件以及使用的时间长度而异，因此我们建议您定期进行检查。详情请咨询向您销售本产品的经销商。