Color Video Camera 半球型摄像机

Operating Instructions

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

使用说明书

使用本机前,请仔细阅读本使用说明书并妥善保存以备日后参考。

Super HAD CCD II SSC-N21

http://www.sony.net/

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Owner's Record

The model and serial numbers are located on the bottom. Record these numbers in the spaces provided below.

Refer to these numbers whenever you call upon your Sony dealer regarding this

Serial No.

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.

This installation should be made by a qualified service person and should

A readily accessible disconnect device shall be incorporated in the building

The rating label is located on the bottom.

Power Supply Caution for U.S.A. and Canada

The SSC-N21 operates on AC 24 V or DC 12 V. The SSC-N21 automatically detects the power.

In the USA, this product shall be powered by a UL listed Class 2 Power Supply

In Canada, this product shall be powered by a CSA Certified Class 2 Power Supply

For customers in the U.S.A.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, nce that may cause undesired operation

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment

All interface cables used to connect peripherals must be shielded in order to comply with the limits for a digital device pursuant to Subpart B or Part 15 of FCC

For customers in Canada

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du

For the customers in Europe

The manufacturer of this product is Sony Corporation, 1-7-1 Konan, Minato-ku,

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

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

In the case that interference should occur, consult your nearest authorized Sony

This apparatus shall not be used in the residential area.

ATTENTION

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

This is a dome-shaped color video camera for which the 1/3 type Super HAD CCD II_™ has been adopted. It has the following features:

- Manual setting of the camera direction panning, tilting and rotating.
- Vari-focal auto iris lens as standard equipment. The focal length of the lens is
- from 2.8 mm ($^{1}/_{8}$ inch) to 10.5 mm ($^{7}/_{16}$ inch).
- High quality CCD and clear dome casing enable high sensitivity.
- (0.15 lx, F1.2, 50 IRE) Automatic white balance tracking and adjustment (ATW/ATW-PRO).
- AC 24 V/DC 12 V power supply system.
- Line lock function (AC 24 V). • Super HAD CCD II™ is a registered trademark of Sony Corporation.

Notes on Use

Operating or storage location

Do not shoot an extremely bright object (an illumination, the sun, etc.). Also, avoid operating or storing the camera in the following locations, as these can be a cause of a malfunction

- Extremely hot or cold places (Operating temperature: -10°C to +50°C [14°F to 122°F])
- Exposed to direct sunlight for a long time, or close to heating equipment (e.g., near heaters)
- Close to sources of strong magnetism • Close to sources of powerful electromagnetic radiation, such as radios or TV transmitters
- · Locations subject to vibration or shock Humid or dusty locations
- Locations exposed to rain • Locations under the influence of fluorescent light or reflection of a window
- Under an unsteady light (the image will flicker.)

Ventilation

To prevent heat buildup, do not block air circulation around the camera.

Transportation

When transporting the camera, repack it as originally packed at the factory or in materials of equal quality.

Cleaning • Use a blower to remove dust from the lens.

- \bullet Use a soft, dry cloth to clean the external surfaces of the camera. Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry.
- Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface finishes.

Note on laser beams Laser beams may damage the CCDs. If you shoot a scene that includes a laser beam,

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

be careful not to let a laser beam become directed into the lens of the camera.

Location and Function of Part

Side

Cables 1, 2 are not connected when the unit comes from the factory.

Power cable

Connect the power cable to AC 24 V or DC 12 V (a). The connector tip is a quick-disconnect type. You can screw the cables in either connectors of the

BNC cable

Connect the BNC cable to a monitor or video device (6).

Gap adjustment flange (knockout type)

If the cable creates a gap between the installation surface and the camera, break off the knockout flange by using nippers and insert the cable through the opening. There are two knockouts.

Zoom lever

Move this lever to adjust the angle of view. Tighten its screw to fix its position.

Move this lever to adjust the focal length. Tighten its screw to fix its position.

Inside **6** Camera installation holes (2 positions)

Install the camera onto the ceiling or wall with the screws (not supplied)

inserted through these holes. Mode setting DIP switch

The following DIP switches are turned on if they have been set to the top positions.

| PinNo. | Switch | Location | | |
|--------|-----------|----------|-----------|--|
| | Switch | Up(ON) | Down(OFF) | |
| 1 | SYNC | LL | INT | |
| 2 | AGC | ON | OFF | |
| 3 | iBLC | ON | OFF | |
| 4 | ATR-Lite | ON | OFF | |
| 5 | NR | ON | OFF | |
| 6 | WB | ATW PRO | ATW | |
| 7 | D/N | ON | DAY | |
| 8 | D/N_TIME | SHORT | LONG | |
| 9 | D/N_LEVEL | HIGH | LOW | |

1: SYNC (Sync Lock) switch (Initial setting: INT)

Use this switch to set the camera synchronization mode to INT (Internal)

When the camera power is DC 12 V, the camera is in the internal operation mode regardless of the switch setting.

- Please power off the camera before changing the SYNC switch. 2: AGC (Automatic Gain Control) switch (Initial setting: ON)
- Use this switch to increase the gain of the video amplifier when set to ON. 3: iBLC (Intelligent Backlight Compensation) ON/OFF switch (Initial
- setting: OFF) Use this switch to adjust the exposure to compensate for situations where the subject is lit from behind.
- 4: ATR-Lite (Lite Adaptive Tone Reproduction) switch (Initial setting:
- When the switch is set to ON the camera will adjust the tone automatically in accordance to the difference between bright and dark.
- 5: NR (Noise Reduction) switch (Initial setting: ON) When the switch is set to ON, the camera will automatically apply the
- digital compensation to noise 6: WB(White Balance) switch (Initial setting: ATW)
 - Choose the WB modes of the camera: ATW PRO (when the switch is set to ON): adjust the WB automatically on the base of the color temperature of fluorescent light, incandescent lamp or natural light.
- especially effective in specific lights, such as sodium, etc.. 7: D/N (Day/Night) switch (Initial setting: DAY)

Color mode (when the switch is set to OFF)

Choose the modes of D/N: D/N mode (when the switch is set to ON): switch to the color mode when in a high bright environment; switch to the black mode when in a low light environment

ATW (when the switch is set to OFF): adjust the WB automatically,

- 8: D/N TIME (Day/Night time) switch (Initial setting: LONG) Sets the time for switching Day/Night mode
- SHORT takes more than 2 seconds, and LONG takes more than 30 seconds. 9: D/N LEVEL (Day/Night level) switch (Initial setting: LOW) Sets the brightness of the object of when Day/Night mode switches. When set to LOW, the camera will turn to the black mode in a lower light
- environment than set to HIGH. V PHASE (Vertical Phase) adjustment screw
 - Use this screw to adjust the vertical phase of cameras synchronized by LL.

MON (MONITOR OUT) connector

Connect the monitor cable to this connector. You can adjust the camera while looking at the image on the monitor. After adjusting the camera, disconnect

Connecting the Cables

- 1 Connect the BNC cable to a monitor or video device (see figure A 6).
- 2 Connect the power cable to the power supply (AC 24 V/DC 12 V) (see figure A a).

When you connect the power cable, be sure that the exposed ends of the power cable do not touch each other to prevent a short circuit.

(continued on the reverse side)

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。

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

本安装应该由有资格的服务人员进行,并须符合所有当地法规规定。

注意事项

额定标签位于底部。

应该在设备外部组入易于使用的断电设备。

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 如果发生干扰,请咨询最近的 Sony 授权服务中心。

某些特定频率的电磁场可能会干涉本装置的图像。

- 这是一款采用1/3型 Super HAD CCD II™ 的半球型摄像机。具有以下特点:
- 手动设定摄像机方向-水平、垂直和旋转。Vari-focal auto iris 镜头作为标准配置。镜头的焦距从 2.8 mm 至 10.5 mm。 • 高品质 CCD 和透明的圆顶盖确保了高灵敏度。(0.15 lx, F1.2, 50 IRE)
- 自动白平衡跟踪和调节(ATW/ATW-PRO)。
- 24 V 交流/12 V 直流电源系统。
- 线路锁定功能(24V交流) • Super HAD CCD II™ 是 Sony Corporation 的注册商标。

使用须知

操作或存放场所 请勿拍摄非常亮的物体(灯光、阳光等)。避免在以下位置使用或存放摄像

- 机,否则会导致故障 ● 极热或极冷的地方(操作温度: -10℃至 +50℃)
- 长时间暴露于直射阳光下,或者靠近热源(比如加热器)的地方
- 靠近强磁源的位置 • 靠近无线电或电视发射器等强电磁辐射源的地方
- 易于受到强力振动或撞击的地方
- 潮湿或有灰尘的地方
- 暴露于雨水的地方 • 受到荧光灯或窗户反射光影响的地方
- 在不稳定光线的下面(图像会闪烁。)

为了避免热量积蓄,不要阻挡摄像机附近的通风。 运送

装。 清洁

Α

В

• 用吹灰器清除镜头灰尘。

• 使用柔软、干燥的布清洁摄像机的外表面。要清除顽固的污渍,请用少量 清洁剂蘸湿软布, 然后擦干即可。

当运送摄像机时, 重新以出厂时的包装进行包装, 或用同等品质的材质包

• 不要使用酒精、苯或稀释剂等挥发性溶剂,这些物质可能会破坏表面光洁

摄像机在使用过程中出现的任何问题请与您的 Sony 经销商联系。

关于激光束 激光束可能会损坏 CCD。若拍摄含有激光束的场面,请注意不要让激光束直接射 入摄像机的镜头。

各部件位置和功能

本机出厂时未连接电缆 1、2。

侧面

将电源电缆连接至 24 V 交流电源或 12 V 直流电源(@)。连接器端为快

速断线型,可固定任一端连接器上的电缆。 2 BNC 电缆 将 BNC 电缆连接至监视器或视频装置(6)。

③ 间隙调整法兰(排出型) 若电缆在安装表面与摄像机之间产生了间隙, 请用镊子折断排出法兰并将

电缆穿过开口处。有两个排出法兰。 拨动此杆可调整视线角度。此杆本身是一螺杆, 拧紧此杆以将它锁定在其

Α

В

A

⑤ 聚焦杆 拨动此杆可调整焦距长度。此杆本身是一螺杆,拧紧此杆以将它锁定在其 位置。

位置。

内部

6 摄像机安装孔 (2 个位置) 用螺丝(未附带)通过这些安装孔将摄像机安装在天花板上或墙上。

7 模式设定 DIP 开关 如果下列 DIP 开关被设定于顶端位置,则它们处于打开状态。

| 从不下列 5 。 | | | | |
|-----------------|----------|---------|---------|--|
| PinNo. | 开关 | 位置 | | |
| Pinno. | | 上 (ON) | 下 (0FF) | |
| 1 | SYNC | LL | INT | |
| 2 | AGC | ON | OFF | |
| 3 | iBLC | ON | OFF | |
| 4 | ATR-Lite | ON | OFF | |
| 5 | NR | ON | OFF | |
| 6 | WB | ATW PRO | ATW | |
| 7 | D/N | ON | DAY | |
| 8 | D/N_TIME | SHORT | LONG | |
| | | | | |

D/N_LEVEL 1: SYNC (同步锁定) 开关(初始设定: INT)

在切换 SYNC 开关前请先切断摄像机电源。

使用此开关将摄像机同步模式设定为或 INT (内部) 或 LL (线路锁 摄像机电源为12V直流电源时,摄像机以内部操作模式工作,而不管 开关设定位置。

2: AGC(自动增益控制)开关(初始设定: ON) 设定为 ON 时,可使用此开关以提高视频放大器的增益。

3: iBLC(智能逆光补偿)ON/OFF 开关(初始设定: OFF) 使用此开关对处于逆光环境的拍摄对象进行曝光补偿。

4: ATR-Lite (简易适应性色调再生) 开关(初始设定: OFF) 此开关设定为ON时,摄像机将根据明暗之间的差异自动调节色调。

5: NR (降噪) 开关(初始设定: ON) 此开关设定为 ON 时,摄像机将自动对噪点进行数码补偿。 6: WB(白平衡)开关(初始设定: ATW)

选择摄像机的 WB 模式: ATW PRO(此开关设定为 ON 时):根据荧光灯、白炽灯或自然光线的 ATW(此开关设定为 OFF 时): 自动调节 WB, 在钠灯等特定光源下特

7: D/N (日/夜) 开关(初始设定: DAY) 选择D/N的模式: D/N 模式(此开关设定为 ON 时): 在很明亮的环境中切换到彩色模

式; 在低亮度的环境中则切换到黑白模式。 彩色模式(此开关设定为 OFF 时) 8: D/N_TIME(日/夜时间)开关(初始设定: LONG) 设定切换日/夜模式的时间。

采用选项"SHORT"时,需要2秒以上,采用选项"LONG"时,需要

9: D/N_LEVEL(日/夜等级)开关(初始设定: LOW) 设定日/夜模式切换时对象的亮度。 设定为"LOW"时,摄像机会在比设定为"HIGH"时更低亮度的环境

中变为黑白模式。 3 V PHASE (垂直相位)调节螺丝 使用此螺丝以调整为LL所同步的各摄像机的垂直相位。

调节摄像机后,请拔下电缆。

MON (MONITOR OUT) 连接器 将监视器电缆连接至此连接器。在监视器上观看图像时可以调节摄像机。

连接电缆 1 将 BNC 电缆连接至监视器或视频装置(参见图 A 6)。

2 将电源电缆连接至电源插座(24 V 交流电源/12 V 直流电源)(参见图 ▲

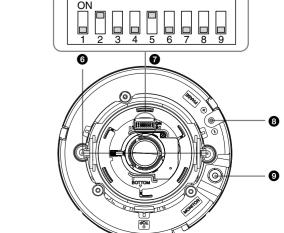
a) . 注意

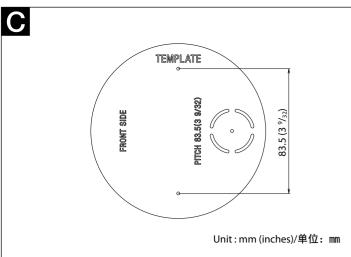
为防止发生短路, 在连接电源电缆时, 请勿使电源电缆裸露端相互接触。

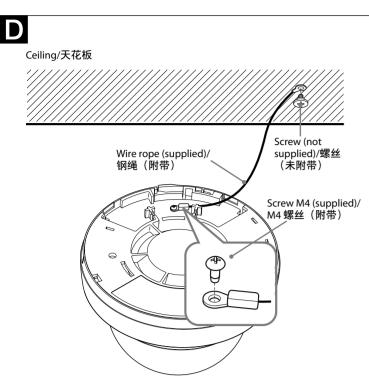
(接反面)

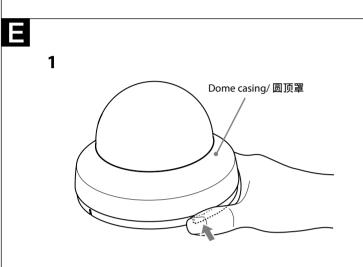
В

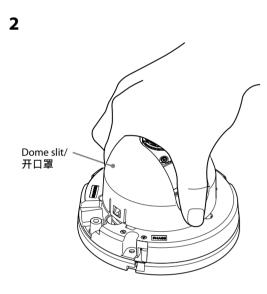
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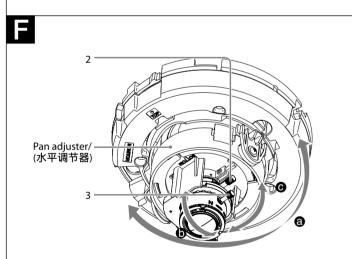


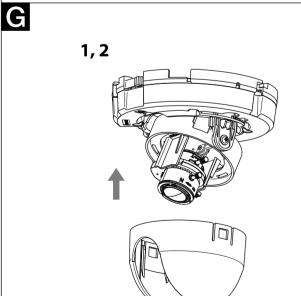


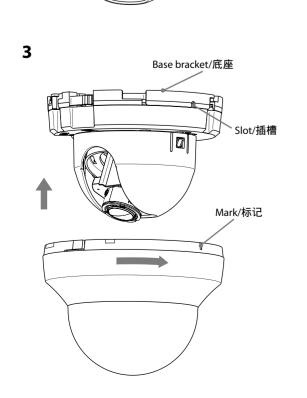


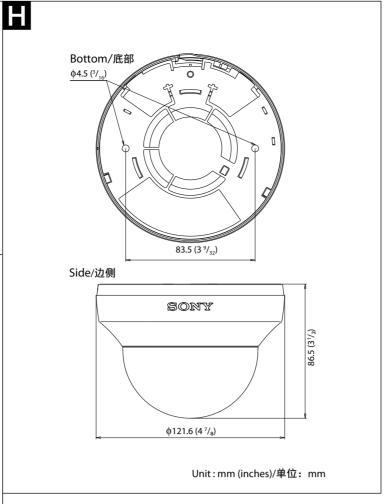












English

Preparations

Before Installation

1 After deciding the direction in which the camera will shoot, make the required hole(ø30 mm (1 ³/₁₆ inches)) for the connecting cables using the supplied template. Then decide the two mounting hole positions to install the camera unit.

Note

The "FRONT SIDE" mark() indicates the direction of the SONY logo on the product. After deciding the direction in which the camera will shoot, turn the SONY logo towards the shoot direction. "FRONT SIDE" mark faces in the same direction as the SONY logo. When installing the camera on a wall (not on a ceiling), face the "FRONT SIDE" mark downward.

The base bracket is provided with two Ø4.5 mm ($^3/_{16}$ inch) mounting holes. Install the bracket on a ceiling or wall with screws through two 83.5 mm (3 $^9/_{32}$ inches) mounting holes:

The required mounting screws differ depending on the installation location and its material. (Mounting screws are not supplied.)

Steel wall or ceiling: Use M4 bolts and nuts. Wooden wall or ceiling: Use M4 tapping screws. The panel thickness must be

Concrete wall: Use anchors, bolts and plugs suitable for concrete walls. **Junction box:** Use screws to match the holes on the junction box.

The required mounting screws differ depending on the installation location and its material. If you do not secure the camera with the appropriate mounting screws, the camera may fall off.

- **2** When installing on a ceiling or wall, fix the wire rope (supplied) to the camera and the ceiling or wall.
- 1 Fix the wire rope with the screw M4 (supplied) to the hole for the wire rope on the bottom of the camera.
- 2 Fix the wire rope to the ceiling or wall.

Installation

- 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 at a height, ensure that the installation location and its material are strong enough to withstand a weight of 15 kg (33 lb 1.1 oz) or more, 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
- 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.

Installing the Camera

- 1 Press the locking hook inward and meanwhile turn the dome casing anticlockwise, and remove the dome casing from the camera unit.
- **2** Press both sides inward to remove the dome slit.
- **3** Attach the camera unit to the ceiling or wall with two mounting screws (not

Note

If you cannot use a screwdriver to fix the mounting screws, turn the pan adjuster (see figure **F**) clockwise or anticlockwise until the screw holes can

Adjusting the Camera Direction and Coverage

- 1 Turn the lens in the desired direction. You can adjust the lens position by panning (a), tilting (b), or rotating
- **2** Loosen the zoom lever and move it to the right or left to adjust the angle of When you have set the zoom lever to the desired position, tighten it to fix the
- **3** Loosen the focus lever and move it to the right or left to adjust the focal When you have set the focus lever to the desired position, tighten it to fix the
- 4 Repeat steps 1 to 3 until the camera direction and coverage are determined.

When adjusting the lens position, be sure that the "BOTTOM ▼" mark on the angle adjuster is toward the floor. If the camera is installed with the "BOTTOM ▼" mark toward the ceiling, the image will appear upside down.

Attaching the Dome Casing

- 1 Set the opening of the dome slit to face in the direction of the lens.
- **2** Push the dome slit onto the camera until it clicks.
- **3** Align the mark on the dome casing with the slot on the base bracket, and turn the dome casing in the direction of arrow until it clicks. Then ensure the camera unit is set tightly.

Typical CCD phenomenon

The following phenomena that may appear in images are specific to CCD (Charge Coupled Device) image sensors. They do not indicate malfunctions.

White flecks

Although the CCD image sensors are produced with high-precision technologies, fine white flecks may be generated on the screen in rare cases, caused by cosmic

This is related to the principle of CCD image sensors and is not a malfunction.

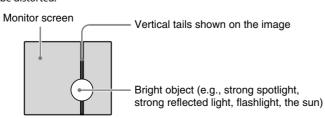
The white flecks especially tend to be seen in the following cases:

— when operating at a high environmental temperature

- when you have raised the gain (sensitivity)

- when using the slow shutter Vertical smear

When an extremely bright object, such as a strong spotlight or flashlight, is being shot, vertical tails may be produced on the screen, or the image may be distorted.



Aliasing When fine patterns, stripes, or lines are shot, they may appear jagged or

Specifications

Image device Interline transfer 1/3 type Super HAD CCD II $_{\scriptscriptstyle{T\!\!M}}$ Effective picture elements 976 (H) × 582 (V) PAL Focal length 2.8 mm - 10.5 mm Maximum relative aperture Horizontal: 99.5° (wide) - 27.4° (tele) View angle Vertical: 73.2° (wide) - 20.6° (tele) Minimum object distance Signal system Internal (DC 12 V/AC 24 V)/Line lock (AC 24 V only) Synchronization system switchable 650 TV lines Horizontal resolution 0.15 lx (AGC ON, F1.2, 50 IRE, Color) Minimum illumination 0.08 lx (AGC ON, F1.2, 30 IRE, Color) 0.10 lx (AGC ON, F1.2, 50 IRE, B/W) 0.03 lx (AGC ON, F1.2, 30 IRE, B/W)

Video output 1.0 Vp-p, 75 Ω , negative sync , BNC cabel More than 55 dB (AGC OFF) ATW/ATW PRO switchable Video S/N ratio White balance ON/OFF switchable AGC iBLC ON/OFF switchable RCA jack Monitor out Power supply AC 24 V \pm 10% / 50 Hz PAL

Operating temperature -10°C to +50°C (14°F to 122°F) Storage temperature -40°C to +60°C (-40°F to +140°F) 20% to 80% Operating humidity

Storage humidity 20% to 95% Dimensions (diameter/height) # ø121.6 mm × 86.5 mm (ø4 ⁷/₈ inches × 3 ¹/₂ inches) Approx. 320 g (11 oz)

Supplied accessories Wire rope (1)

Screw M4 (1) Operating instructions (this document) (1)

DC 12 V \pm 10% (Automatically switched)

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.

Recommendation of Periodic Inspections

In case using this device over an extended period of time, please have it inspected periodically for safe use.

It may appear flawless, but the components may have deteriorated over time, which may cause a malfunction or accident. For details, please consult the store of purchase or an authorized Sony

中文

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安装前

1 确定摄像机拍摄方向后,用附带的模板制作所需的电缆连接孔 (ø30 mm)。然后确定两个安装孔的位置以安装摄像机。

"FRONT SIDE"标记(♥)表示 SONY 标识在产品上的方向。决定摄像机的拍摄方向后,请将SONY标识转向拍摄方向,即,让"FRONT SIDE"标记与 SONY 标识的方向相同。将摄像机安装在墙壁(非天花板)上时,请 让 "FRONT SIDE"标记朝向下方。

底座带有两个 ø4.5 mm 的安装孔。使用螺丝通过两个 83.5 mm 的安装孔将底 根据安装位置及其材料的不同,所需的安装螺丝也有所不同。(安装螺丝未 附带。)

钢制墙壁或天花板: 使用 M4 螺栓和螺母。 木制墙壁或天花板: 使用 M4 自攻螺丝。面板厚度必须为 15 mm 或以上。 水泥墙壁: 使用适用于水泥墙壁的锚、螺栓和楔子。 接线盒: 使用与接线盒上的孔相匹配的螺丝。

根据安装位置及其材料的不同,所需的安装螺钉也有所不同。如果您没有使 用合适的安装螺钉将摄像机安装牢靠,摄像机有可能坠落。

- 2 当安装在天花板或墙上时,请将附带的钢绳固定在摄像机和天花板或墙
- ❶ 摄像机的底部有钢绳螺丝孔。用附带的 M4 螺丝固定钢绳。
- ② 将钢绳固定在天花板或墙上。

• 如果要将摄像机安装在墙壁或天花板等高处,请将安装工作委托给有经验

- 如果将摄像机安装在高处, 请确保安装位置及其材料足够稳固, 能够承受
- 为防止摄像机掉落,必须连接附带的钢绳。如果将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。

安装摄像机

- 8 1 向内按锁定钩,同时逆时针转动圆顶罩,然后从摄像机上取下圆顶罩。
- 2 向内按两侧取下开口罩。
- 3 使用两颗安装螺丝(未附带)将摄像机安装到天花板或墙上。

如果您无法使用螺丝刀固定安装螺丝,请顺时针或逆时针转动水平调节器 (参见图 F),直到螺丝孔完全露出。

调节摄像机的方向和范围

- 1 按所需方向转动镜头。 可通过水平(②)、垂直(⑥)或旋转(⑥)来调节镜头位置。
- 2 松开变焦杆并将它移至右侧或左侧,以调节视线角度。
- 将变焦杆设定至所需位置后,拧紧它以固定视线角度。
- 3 松开聚焦杆并将它移至右侧或左侧,以调节焦距长度。 将聚焦杆设定于所需位置后,请拧紧它以固定焦距长度。
- 4 重复步骤 1 至 3 直至确定摄像机的方向和范围。

注意

在调节镜头位置时,务必使角度调节器上的"BOTTOM▼"标记朝向地板。 如果摄像机在"BOTTOM▼"标记朝向天花板的状态下被安装,则显示的图

安装圆顶罩

- 1 将开口罩的开口对着镜头方向。
- 2 将开口罩按到摄像机上,直至听到喀嗒声。
- 3 将圆顶罩上的标记与底座上的插槽对齐,并且沿箭头方向转动圆顶罩,直 至听到喀嗒声。然后确保摄像机安装牢固。

典型 CCD 现象

图像中可能出现的以下现象是 CCD (电荷耦合器件) 图像传感器所特有的。 这些现象不是故障。

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虽然 CCD 图像传感器是采用高精度技术生产的,但由于宇宙射线等的影响, 其屏幕上可能会出现细小的白斑(极少数情况)。 这与 CCD 图像传感器的原理有关,出现的白斑并不是故障。

在以下情况中,比较容易出现白斑: - 在高温环境下进行操作时 - 提高倍率 (灵敏度) 时

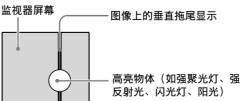
- 当使用慢快门时

拍摄亮度极高的物体(如强聚光灯或闪光灯)时,屏幕上可能出现垂直尾

水平分辨率

最低照度

线,图像也可能出现扭曲 ·图像上的垂直拖尾显示



拍摄微小的图案、条纹或线条时,它们可能呈锯齿状或出现闪烁现象。

| 规格 | |
|--------------|--------------------------------------------------------|
| 成像器件 有效像素 | 1/3 英寸型行间转移方式 Super HAD CCD II。 976(水平)× 582(垂直)PAL |
| 焦距长度 | 2.8 mm-10.5 mm |
| 最大相对光圈 | F 1.2 |
| 可视角度 | 水平: 99.5°(广角)-27.4°(望远) |
| | 垂直: 73.2°(广角)-20.6°(望远) |
| 最小对象距离 | 0.3 m |
| 信号系统 | PAL 彩色系统 |
| 同步系统 | 内置(24V交流电源/12V直流电源)/线路锁定 |
| | (仅限于24V交流电源)可切换 |
| | |

650 电视线

0.15 lx (AGC ON, F1.2, 50 IRE, 彩色) 0.08 lx (AGC ON, F1.2, 30 IRE, 彩色) 0.10 lx (AGC ON, F1.2, 50 IRE, 黑白)

0.03 lx (AGC ON, F1.2, 30 IRE, 黑白) 视频输出 1.0 Vp-p,75 Ω,负同步 BNC 电缆 视频信噪比 55 dB 以上(AGC OFF) 白平衡 ATW/ATW PRO 可切换 AGC ON/OFF 可切换 ON/OFF 可切换 iBI C 监视器输出 RCA插孔 24 V 交流电源 ±10%/50 Hz PAL 电源 12 V 直流电源 ±10% (自动切换) 功率消耗 1.5 W -10°C 至 +50°C 操作温度 存放温度 -40°C 至 +60°C 操作湿度 20%至80% 存放湿度 20%至95% 尺寸(直径/高度) 🖁 ø121.6 mm imes 86.5 mm 重量 约 320 g 附件 模板(1) 钢绳(1)

设计及规格若有更改恕不另行通知。

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。

M4 螺丝(1)

使用说明书(本文档)(1)

长时间使用本设备时,请定期检查本设备以便安全使用 虽然设备似乎没有问题,但是长时间使用时其组件质量可能已经下降,从

产品中有毒有害物质或元素的名称及含量

有关详细说明,请咨询购买商店或授权的 Sony 经销商

使用环境条件:参考使用手册中的操作条件

| 部件名 | 有毒有害物质或元素 | | | | | |
|----------|-----------|-----------|-----------|------------------|---------------|-----------------|
| 称 | 铅 (Pb) | 汞 (Hg) | 镉 (Cd) | 六价铬 (Cr (VI)) | 多溴联苯 (PBB) | 多溴二苯醚 (PBDE) |
| 实装基 板 | × | 0 | 0 | 0 | 0 | 0 |
| 外壳 | × | 0 | 0 | 0 | 0 | 0 |
| 光学组 件 | × | 0 | 0 | 0 | 0 | 0 |
| 附属品 | × | 0 | 0 | 0 | 0 | 0 |

- 〇:表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。
- ×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。

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