

HD Color Video Camera

Operating Instructions

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

SRG-300H

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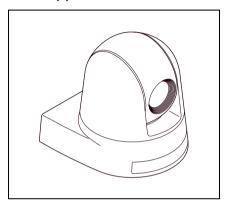
Features

- The 1/2.8 type Exmor CMOS camera (utilising approximately 2 million valid pixels) allows for high-definition shooting with superior picture quality.
- Adopts 30 times optical magnification, F1.6 high power and luminous zoom lens.
- By adopting its wide and dynamic range functions, you can see the optimised shooting image which incorporates bright and dark subjects at the same time.
- Adopts the industry standard RS-232 interface of VISCA camera protocol in external communication. It is possible to operate from long distances by using both RS-232 and RS-422.
- You can install the camera on ceilings due to the functions of high-speed and wide range pan/tilt action and vertical image flip.
- You can use the infrared remote commander to set the camera and also to select panning, tilting and zooming from the setting menu.
- You can store up to 16 kinds of camera direction and camera status into the camera.
- You can use the LAN cable for external communication. This will make system construction easier.
- The camera can be set for a variety of HD video formats and has an HDMI interface terminal. The HDMI video interface is in widespread use.

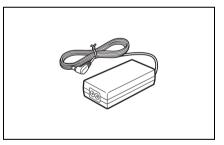
Camera and Supplied Accessories

When you unpack, check that all the supplied accessories are included.

Camera (1)

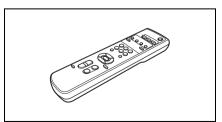


AC power adaptor (1)

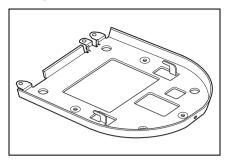


AC power cord (1)

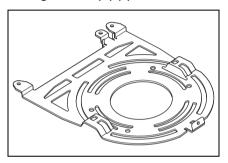
Infrared remote commander (1)



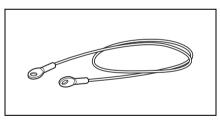
Ceiling bracket (A) (1)



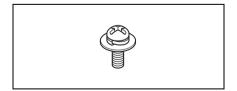
Ceiling bracket (B) (1)



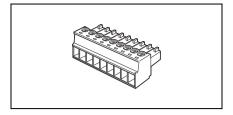
Wire rope (1)



Screw +M 3×8 (8)



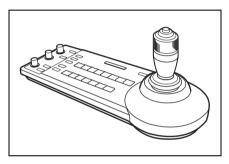
VISCA RS-422 connector plug (1)



Operating Instructions (CD-ROM) (1)

Optional Products

RM-IP10 IP Remote Controller



Operate up to 112 cameras that are compatible with IP connection using the LAN connection. Up to five RM-IP10 IP remote controllers can be installed to the same system.

The joystick of the IP remote controller allows you comfortable pan/tilt and zoom operations. The IP remote controller also allows operation of up to seven cameras by using the RS-232 connections or RS-422 connections.

Supplied accessories: AC adaptor (1), AC power cord (1), RS-422 connector plug (2), CD-ROM (1)

System Configuration

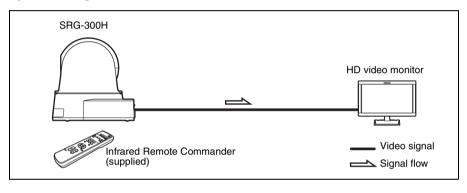
The SRG-300H HD Color Video Camera has various system configuration capabilities using optional products. This section describes three typical system examples with the required components and the main usage of each system.

Operating a SRG-300H Camera Using the Supplied Infrared Remote Commander

This system allows you:

To operate the camera readily from a short distance

System configuration

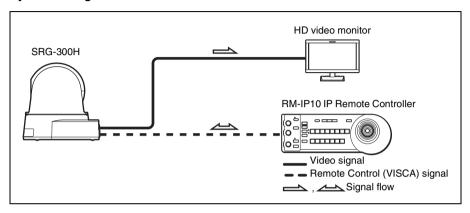


Operating a SRG-300H Camera Using the RM-IP10 IP Remote Controller

This system allows you:

To perform pan/tilt and zoom operations using the joystick of the IP remote controller, and to perform the Preset operation using the button.

System configuration



Note

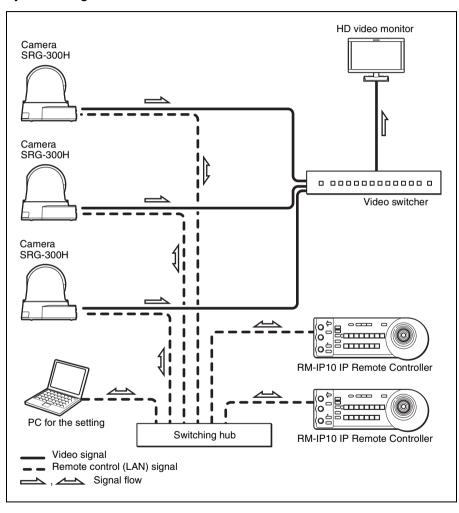
Select the MODE selector of RM-IP10 to position 0 (automatically selected) when using a combination of SRG-300H and RM-IP10. For details, refer to the Operating Instructions of RM-IP10.

Operating Multiple SRG-300H Cameras Using Multiple IP Remote Controllers

System configuration

- You can connect up to 112 cameras and five IP remote controllers.
- The joystick of the IP remote controller allows comfortable pan/tilt and zoom operations.

System configuration



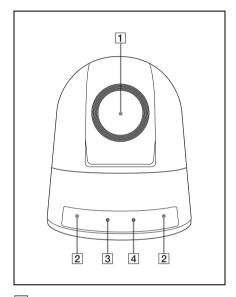
Note

You cannot use the RS-232 and RS-422 connections when using the LAN connection.

Location and Functions of Parts and Controls

Camera

Front



1 Lens

This is a 30-magnification optical zoom lens.

2 Infrared remote commander sensors

These are sensors for the supplied infrared remote commander.

3 POWER lamp

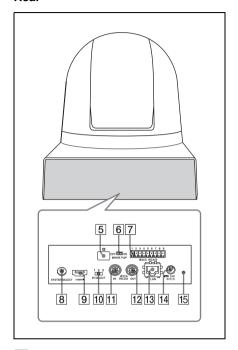
The green lamp lights when the camera is connected to an AC outlet using the supplied AC power adaptor and AC power cord. It takes about 15 to 30 seconds to display the image after the lamp lights.

The green lamp flashes when the camera receives an operation command from the supplied infrared remote commander.

4 STANDBY lamp

The orange lamp lights when the camera is turned off using the infrared remote commander.

Rear



5 Infrared remote commander sensors

These are sensors for the supplied infrared remote commander.

6 IMAGE FLIP switch

Flips the image upside down. Normally set this to OFF when you use the camera. When the camera is attached to the ceiling, set this to ON. Turn off the unit before setting the IMAGE FLIP switch. Then, turn the power on by connecting the power adaptor, by VISCA CONTROL or the infrared remote commander. When you switch this, the preset setting is returned to the initial setting.

| 7 | VISCA RS-422 connector

To communicate via RS-422, use this connector.

Use the supplied VISCA RS-422 connector plug.

8 SYSTEM SELECT switch

Used for selecting the video format of the signal to be output from the HDMI video connector.

For details, see "Setting of the SYSTEM SELECT switch" (page 10).

9 HDMI video connector

Supplies the images as a HDMI video signal or DVI video signal.

10 IR SELECT switch

Select the camera number when you operate multiple cameras with the same infrared remote commander.

11 VISCA IN connector

Connect to a computer via an RS-232 interface. When you connect multiple cameras, connect it to the VISCA OUT connector of the previous camera in the daisy chain connection.

12 VISCA OUT connector

When you connect multiple cameras, connect it to the VISCA IN connector of the next camera in the daisy chain connection.

13 LAN connector (RJ-45 8-pin)

Connect to a switching HUB that is compatible with 10BASE-T/100BASE-TX using a LAN cable (category 5 or higher, shielded twisted pair). When a link is established, the green indicator lights, and it flashes during communication. While connected with 100BASE-TX, the yellow indicator also lights.

CAUTION

For safety, do not connect the connector for peripheral device wiring that might have excessive voltage to this port. Follow the instructions for this port.

|14| DC 12 V connector

Connect the supplied AC power adaptor.

15 Reset switch

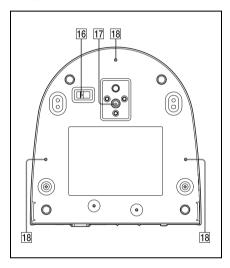
The reset switch is available only when LAN is set. If you press this switch with a pointed tip for about five seconds, the camera will reboot and the IP settings will return to the factory default.

Factory settings for IP

IP address: 192.168.0.100 Subnet mask: 255.255.255.0

Name: CAM1

Bottom



16 BOTTOM switches

Used for LAN and VISCA CONTROL switching, RS-232 and RS-422 switching, 9,600 bps and 38,400 bps baud rate selection and IR signal output setting.

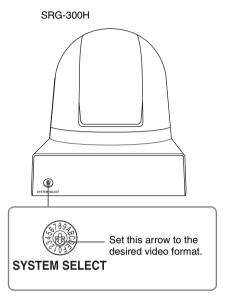
For details, refer to the setting of the BOTTOM switches (page 10).

17 Tripod screw hole

18 Ceiling bracket mounting screw holes

Setting of the SYSTEM SELECT switch

This switch allows you to select the video format of the signal to be output from the HDMI video connector.



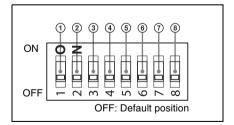
Switch position	Video format		
0	1920×1080p/59.94		
1	No output		
2	1920×1080p/29.97	59.94 Hz	
3	1920×1080i/59.94	system	
4	1280×720p/59.94		
5	1280×720p/29.97		
6	EDID	_	
7	VISCA CONTROL	_	
8	1920×1080p/50		
9	No output		
A	1920×1080p/25	50 Hz	
В	1920×1080i/50	system	
С	1280×720p/50		
D	1280×720p/25		
Е	No output	_	

Notes

- Be sure to set this switch before you turn
 on the power of the camera. You can also
 set this switch in the standby mode of the
 camera. After completing the setting, turn
 on the power of the camera by connecting
 it to an AC outlet using the supplied AC
 power adaptor and AC power cord, by
 using the VISCA command or infrared
 remote commander.
- Be sure to use a Phillips-head screwdriver when changing the switch position. If you use a tool other than the designated screwdriver, the crossed groove may be damaged.
- If the switch position is set to 1, 9, E or F (no output), the POWER lamp and STANDBY lamp will both remain lit. In such cases, control via the infrared remote commander and VISCA commands is disabled.
- If the switch is set to 6 (EDID), the most suitable format will be output automatically based on the resolution of the TV monitor to be connected.
- If the switch position is set to 7 (VISCA CONTROL), you can configure the video format via external communication.

For detailed information, refer to the Technical Manual of the camera. For details on obtaining a Technical Manual, consult your Sony dealer.

Setting of the BOTTOM switches



To change the setting of the BOTTOM switches, turn off the camera (unless it is in standby mode) first, set the BOTTOM switches, then turn on the camera again. Changing the BOTTOM switches is not possible while the camera is turned on.

(1) VISCA/LAN switch

Select the control setting. Set to ON to use the LAN connection and set to OFF to use the VISCA CONTROL (serial control).

② RS-232/RS-422 select switch (when using the serial connection)

Set to RS-422 to operate color video camera using the VISCA command via the RS-422 interface

③ BAUD RATE SELECT switch (when using the serial connection)

Set the communication speed in the VISCA CONTROL.

ON: 38,400 bps OFF: 9,600 bps

(4) IR OUT switch

Set to ON to enable output of the receiver signals, which are transmitted from the infrared remote commander via the VISCA IN connector (page 47), or set it to OFF to disable the output.

(5) Switch 5 (Not used)

Be sure to set this switch to OFF.

6 Switch 6 (Not used)

Be sure to set this switch to OFF.

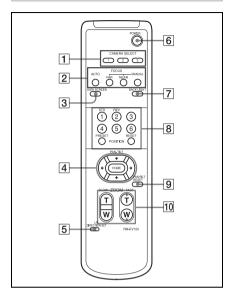
Switch 7 (Not used)

Be sure to set this switch to OFF.

8 Switch 8 (Not used)

Be sure to set this switch to OFF.

Infrared Remote Commander (supplied)



1 CAMERA SELECT buttons

Press the button corresponding to the camera you want to operate with the infrared remote commander.

The camera number can be set using the IR SELECT switch on the rear of the camera

Note

If two or more cameras are adjacent and have the same camera number, they are operated simultaneously with the same infrared remote commander. When you install the cameras close to each other, set different camera numbers.

For the camera number setting, see "Operating Multiple Cameras with the Infrared Remote Commander" (page 25).

2 FOCUS buttons

Used for focus adjustment.

Press the AUTO button to adjust the

Press the AUTO button to adjust the focus automatically. To adjust the focus manually, press the MANUAL button, and adjust it with the FAR and NEAR buttons.

Note

Press the MANUAL button and adjust the focus manually when shooting the following objects.

- White walls and other objects without contrast
- · Objects behind glass
- Objects with horizontal stripes
- Objects on which bright lights are cast or reflected
- Nightscapes and other dark objects with blinking lights
- Lit objects shot with darkened exposure adjustment or exposure compensation settings

3 DATA SCREEN button

Press this button to display the main menu. Press it again to turn off the menu. If you press the button when a lowerlevel menu is selected, the display goes back to a higher-level menu.

Note

Pan/tilt operations are disabled when the menu is displayed (except PAN/TILT LIMIT setting).

4 PAN-TILT buttons

Press the arrow buttons to adjust the direction of the camera. Press the HOME button to face the camera back to the front. When the menu is displayed, use ♠ or ♥ to select the menu items and ♠ or ♥ to change the set values. The selected setting menu is displayed, by pressing the HOME button when the main menu is displayed.

5 L/R DIRECTION SET button

Hold down this button and press the REV button to change the direction of the camera movement opposite to that indicated by the arrow of the ◆/◆ buttons. To reset the direction of the camera movement, press the STD button while holding down this button.

6 POWER button

Press this button to turn on/off the camera when the camera is connected to an AC outlet.

7 BACK LIGHT button

Press this button to enable the backlight compensation. Press it again to disable the backlight compensation.

8 POSITION buttons

Hold down the PRESET button and press button 1 to 6 to store the current camera direction, zooming, focus adjustment and backlight compensation in the memory of the pressed number button.

To erase the memory contents, hold down the RESET button and press button 1 to 6.

Note

These buttons do not function when the menu is displayed.

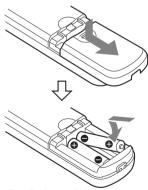
9 PAN-TILT RESET button

Press this button to reset the pan/tilt position.

10 ZOOM buttons

Use the SLOW button to zoom slowly, and the FAST button to zoom quickly. Press the T (telephoto) side of the button to zoom in, and the W (wide angle) side to zoom out.

To install batteries



Two R6 (size AA) batteries (not supplied)

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. When you dispose of the battery, you must obey the law in the relative area or country.

Installing batteries

Two R6 (size AA) batteries are supplied for Infrared Remote Commander. To avoid risk of explosion, use R6 (size AA) manganese or alkaline batteries.

About On-Screen Menus

You can change various settings, such as shooting conditions and system setup of the camera, while observing menus displayed on a connected monitor.

This section explains how to read the onscreen menus before starting menu operations.

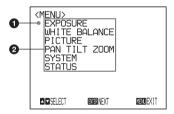
For the overall menu configurations, see "Menu Configuration" (page 40).

Note

You cannot perform pan/tilt operations while the menu is displayed.

Main Menu

To display the main menu, press the DATA SCREEN button on the supplied infrared remote commander.



Selected item

Selects a setting menu.

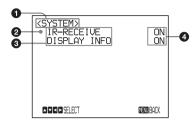
The selected item is shown by the cursor. The cursor moves up or down by pressing the ♠ or ♥ button on the infrared remote commander.

Menu items

To display a setting menu, select one using the ♠ or ♣ button on the infrared remote commander and press the HOME button on the infrared remote commander.

Setting Menus

The setting menu selected on the main menu is displayed.



Setting menu

The name of the setting menu currently selected is displayed here.

Selected item

Selects a setting item.

The selected item is shown by the cursor.

Move the cursor up or down by pressing the ♠ or ♥ button on the infrared remote commander.

Setting items

The setting items for this setting menu are displayed.

Select the setting item using the ♠ or ♥ button on the infrared remote commander.

Set value

The currently set values are displayed. To change a set value, use the or → button on the infrared remote commander.

For the default value of each setting item, see "Menu Configuration" (page 40).

Control Button Display Section

Names of buttons displayed on the monitor are different from buttons on the infrared remote commander to be used.
Use the proper buttons on the infrared remote commander, referring to the following pictures.

Main menu



- Indicates that you can select a menu item by ♠ or ♥ button on the infrared remote commander. The selected item is shown by the cursor.
- 2 Indicates that you can move to the next layer by pressing the HOME button.
- Indicates that you can return to the normal display by pressing the DATA SCREEN button.

Setting menu



Indicates that you can select the setting item by using the ★ or ▼ button and you can change the set value by using tthe ◆ or ➤ button. Indicates that you can return to the main menu by pressing the DATA SCREEN button.

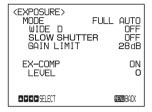
Note

When you are operating the menu using the supplied infrared remote commander, you cannot set IR-RECEIVE in the SYSTEM menu to OFF. To set IR-RECEIVE to OFF, use the appropriate VISCA command.

For detailed information on how to connect and VISCA command list, refer to the Technical Manual of the camera. For details on obtaining a Technical Manual, consult your Sony dealer.

EXPOSURE Menu

The EXPOSURE menu is used to set the items related to the exposure.



MODE (exposure mode)

FULL AUTO: The exposure is adjusted automatically using the sensitivity, electronic shutter speed, and iris.

BRIGHT: Adjust the brightness level (LEVEL) manually.

SHUTTER PRI: Shutter Priority mode. The exposure is adjusted automatically using the sensitivity and iris. Adjust the electronic shutter speed (SPEED) manually.

IRIS PRI: Iris Priority mode. The exposure is adjusted automatically using the sensitivity and electronic shutter speed. Adjust the iris (IRIS) manually.

MANUAL: Adjust the sensitivity (GAIN), electronic shutter speed (SPEED) and iris (IRIS) manually.

When you select one from among the various exposure modes, some of the following setting items that are required for the selected mode appear.

GAIN: Select the gain from among the following: 0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 43 dB

SPEED: Select the electronic shutter speed from among the following:

For the 59.94/29.97 video format:

1/1, 1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/90, 1/100, 1/125, 1/180, 1/250, 1/350, 1/500, 1/725, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/10000 sec.

For the 50/25 video format:

1/1, 1/2, 1/3, 1/6, 1/12, 1/25, 1/50, 1/75, 1/100, 1/120, 1/150, 1/215, 1/300, 1/425, 1/600, 1/1000, 1/1250, 1/1750, 1/2500, 1/3500, 1/6000, 1/10000 sec.

IRIS: Select the iris from among the following: CLOSE, F14, F11, F9.6, F8.0, F6.8, F5.6, F4.8, F4.0, F3.4, F2.8, F2.4, F2.0,

LEVEL: Select the brightness level from among 0, 5 to 31.

WIDE D (Wide dynamic range mode):

When MODE (exposure mode) is set to FULL AUTO, the camera distinguishes light and dark areas in the same scene, adjusts the brightness for dark areas, and also controls the blown out highlights. You can select the wide dynamic range mode from among OFF, LOW, MID and HIGH.

Notes

- You can set the wide dynamic range mode when WIDE D is set to FULL AUTO only.
- When WIDE D is not set to OFF, the MODE setting is fixed at FULL AUTO.
- When changing WIDE D, a change in screen luminance occurs for a moment.
- When the change of exposure is big, the screen may stop for a moment.

GAIN LIMIT: Select the upper limit of the gain rise in FULL AUTO, SHUTTER PRI and IRIS PRI modes. Select from among 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 43 dB.

EX-COMP (exposure compensation)

When MODE is set to one of FULL AUTO, SHUTTER PRI or IRIS PRI, set this item to ON to enable exposure compensation. When you set EX-COMP to ON, LEVEL appears and you can select the exposure compensation level from among the following:

If you set the level to 0, exposure compensation will be disabled. Level +7 is the brightest and -7 is the darkest compensation value.

When EX-COMP is set to OFF, exposure compensation does not function.

SLOW SHUTTER

When you set the mode to ON, the camera automatically uses slow shutter speed for exposure as the illumination of the object to be shot decreases. This mode is only available when AE mode is set to FULL AUTO.

WHITE BALANCE Menu

The WHITE BALANCE menu is used to select the white balance mode.



MODE (white balance mode)

Select the white balance mode from among the following:

AUTO, IN DOOR, OUT DOOR, ONE PUSH, ATW (Auto Tracing White Balance), MANUAL

When you select MANUAL, R.GAIN (red gain) and B. GAIN (blue gain) appear. You can select each item in the range from –128 to 127.

When you select the ONE PUSH mode

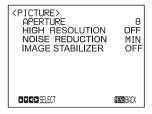
Perform the following operation.

- **1** Zoom in on a white subject in the center of the screen
- **2** Press the HOME button of the supplied infrared remote commander. The one-push white balance adjustment is activated.

When DISPLAY INFO (page 20) is set to ON on the SYSTEM menu, the result of the white balance adjustment is displayed on the monitor.

PICTURE Menu

The PICTURE menu is used to set the items related to the picture.



APERTURE (aperture compensation)

Select the aperture compensation level from among MIN, 1 to 14 and MAX.

HIGH RESOLUTION

You can set this mode to ON or OFF. When set to ON, you can enjoy emphasised edge and high-resolution images.

NOISE REDUCTION

You can enjoy clearer images by removing unnecessary noise (fixed pattern and randomised noise). You can select 6 levels from OFF (MIN), 1 to 5 (MAX).

IMAGE STABILIZER

You can select this function according to the shooting conditions.

OFF: The image stabilizer function does not operate.

ON: The image stabilizer function operates. When set to ON, you can obtain steadier images if vibration is present. This stabilizer is effective for vibration frequencies around 10 Hz. This function utilizes digital zoom; therefore, the angle of view and resolution of images may be affected. However, image sensitivity is retained.

Notes

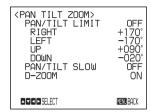
- The image stabilizer function is not effective during pan/tilt operations. It may take some time for the image to stabilize after performing pan/tilt operations.
- If the image stabilizer function is already enabled, it may take some time for the

- image to stabilize after turning on the power of the camera.
- Depending on the installation conditions, the image stabilizer may not be effective.
- When the image stabilizer function is enabled, the subject appears closer.
- The image stabilizer may not be effective in an installation environment where high frequency vibration is present. In this case, set the image stabilizer function to OFF.

Adjusting and Setting with Menus

PAN TILT ZOOM Menu

The PAN TILT ZOOM menu is used to select the pan/tilt/zoom mode.



PAN/TILT LIMIT

When you set PAN/TILT LIMIT to ON, you can select the limit of pan/tilt operation. You can select the following values:

RIGHT: +170° to –169°, selectable in 1° steps.

LEFT: +169° to –170°, selectable in 1° steps.

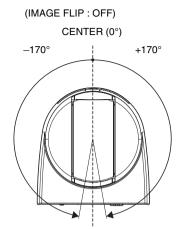
UP: +90° to -19° (IMAGE FLIP:OFF) +20° to -89° (IMAGE FLIP:ON) selectable in 1° steps.

DOWN: +89° to -20° (IMAGE FLIP:OFF) +19° to -90° (IMAGE FLIP:ON) selectable in 1° steps.

Note

The indicated value is changed when the ◆ or → button is released. When the pan/tilt function is in motion, the indicated value does not change.

Setting the range of LEFT/RIGHT movement



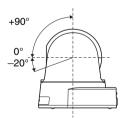
Note

The limit of pan/tilt operation becomes effective promptly after you set the range of PAN/TILT LIMIT. When you want to make the camera start with the ranges set, before turning off the power, store those values in POSITION 1.

For details, see "Storing the Camera Settings in Memory — the Presetting Feature" (page 26).

Setting the range of UP/DOWN movement

(IMAGE FLIP: OFF)



Note

When you turn the camera to the right or left beyond the 100° with the camera pointed downward by 20° , the camera may be caught on the lens, depending on the zoom position of the lens.

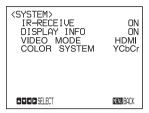
PAN/TILT SLOW mode

When you set this function to ON, the PAN/TILT operation becomes slow. This makes it easier for the camera to capture a slow moving subject.

D-ZOOM (digital zoom)

You can set digital zoom to ON or OFF. When set to OFF, digital zoom does not operate, and only optical zoom is available. When set to ON, digital zoom takes over after optical zoom reaches MAX (×30). Up to ×360 can be zoomed digitally. When digital zoom is available, the resolution decreases.

SYSTEM Menu



IR-RECEIVE (infrared signal reception)

When this is set to OFF, the camera does not receive the signal from the supplied infrared remote commander.

Be sure to keep it set to ON when you use the supplied infrared remote commander.

Note

You cannot set IR-RECEIVE to OFF when you operate the menu using the supplied infrared remote commander. To set it to OFF, use the appropriate VISCA command.

DISPLAY INFO

When this item is set to ON, the message automatically appears for about 3 seconds on the monitor screen, when you perform the following operations using the supplied infrared remote commander.

Message	Remote control operation
PRESET n: OK "n" is a preset position number of the infrared remote commander, between 1 and 6.	You have stored the camera settings to POSITION 1 to 6.
RECALL n: OK "n" is a preset position number of the infrared remote commander, between 1 and 6.	You have read the camera settings stored in POSITION 1 to 6.

Message	Remote control operation
RESET n: OK "n" is a preset position number of the infrared remote commander, between 1 and 6.	You have reset the camera settings stored in POSITION 1 to 6 to the default settings.
ONE PUSH WB: OP	During the white balance adjustment in the ONE PUSH white balance mode, the message blinks on the screen.
ONE PUSH WB: OK	When white balance adjustment is correctly performed in ONE PUSH white balance mode, this message appears on the screen.
ONE PUSH WB: NG	If white balance adjustment is incorrectly performed in ONE PUSH white balance mode, this message flashes on the screen.

Note

The operations in the VISCA CONTROL and LAN connection are from n: 1 to 16.

VIDEO MODE

The setting of the HDMI and DVI are available when the video is output from the HDMI video connector.

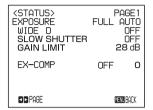
When the SYSTEM SELECT is set to EDID, the video mode cannot be set.

COLOR SYSTEM

The setting of the YCbCr and RGB are available for color space of the video image. When the SYSTEM SELECT is set to EDID, the color system cannot be set.

STATUS Menu

The STATUS menu is used to display the settings selected with the menus.



The STATUS menu consists of PAGE1 to PAGE5.

This menu only displays the current menu settings, and you cannot change them with this menu.

PAGE1: Shows the settings selected with the EXPOSURE menu.

PAGE2: Shows the settings selected with the PICTURE menu and the WHITE BALANCE menu.

PAGE3: Shows the settings selected with the PAN TILT ZOOM menu.

PAGE4: Shows the settings selected with the SYSTEM menu, supplied infrared remote commander channel, VISCA communication baud rate, VIDEO mode, Color system and Video latency

PAGE5: Shows the settings selected with the LAN connection with IP address. Subnet mask and MAC address (shows when the BOTTOM switch is set to LAN only).

Note

The VISCA communication baud rate and the VIDEO mode for the camera are displayed. Even if you change the settings after turning on the power, those settings are ignored and are not changed on the display.

For detailed information on the Video latency setting, refer to the Technical Manual of the camera.

Before Operating

Before operating the camera, check that the camera and peripheral devices are properly installed and connected.

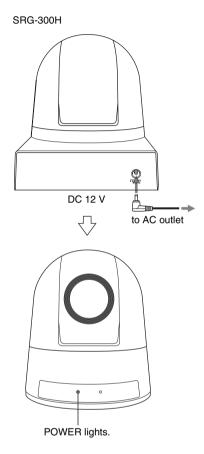
For details, see "Setting of the SYSTEM SELECT switch" (page 10), "Installing the Camera" (page 28) and "Connections" (page 32).

Note

The supplied infrared remote commander may not work correctly near the inverter lighting fixtures. In such a case, try to install the camera far from the inverted luminaire. You can check whether or not the installed location is good for the usage of the infrared remote commander.

For detailed information on how to check, refer to the Technical Manual. For details on obtaining a Technical Manual, consult your Sony dealer.

Turning on the Power



1 Connect the camera to an AC outlet using the supplied AC power adaptor and power cord.

The power is turned on and the POWER lamp lights.

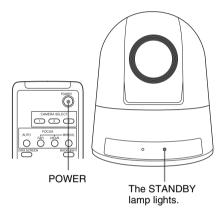
The camera will automatically pan and tilt and be reset to the position stored in POSITION 1 (Pan/tilt reset action).

2 Turn on the peripheral devices.

To turn on/off the camera using the infrared remote commander

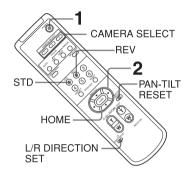
As long as the camera is connected to an AC outlet, you can turn the camera on or off with the POWER switch on the infrared remote commander.

When you turn the power off using the infrared remote commander, the POWER lamp turns off and the STANDBY lamp lights on the camera.



Pan/Tilt and Zoom Operation

Panning and Tilting



- 1 Press the POWER switch.

 The camera will turn on and perform the pan/tilt reset operation automatically.
- **2** Press the arrow button to pan or tilt the camera.

While checking the picture on the screen, press the desired arrow button. To move the camera little by little, press the button just for a moment. To move the camera in a wide range, press and hold the button.

To move the camera diagonally, press the ◆ or → button while holding down

the ♠ or ♥ button.

To face the camera back to the front Press the HOME button.

If the camera moves in a different direction from the one you intended

The camera is preset so that the image output from the camera is rotated toward the right whenever you press the → button.

To face the camera toward the opposite direction

You might wish to face the camera toward the opposite direction from that of the button you pressed, for example, when you change the direction of the camera while checking the picture on the screen. In such a case, press the 2 (REV) button while holding down the L/R DIRECTION SET button.

Arrow button	Movement of the camera	Setting
(*)		While holding down REV 2 Press

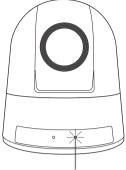
To reset the setting

To reset the setting, press the 1 (STD) button while holding down the L/R DIRECTION SET button.

Arrow button	Movement of the camera	Setting
>		While holding down

The setting above only changes the signal emitted from the infrared remote commander, and does not change the setting of the camera itself. Therefore, repeat the setting for each infrared remote commander if you are using more than one infrared remote commander.

When the STANDBY lamp is blinking



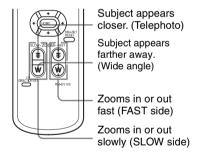
The STANDBY lamp blinks.

If the camera is moved forcibly, or a finger or other object interferes with camera movement, the camera may fail to memorize the pan/tilt position.

Press the PAN-TILT RESET button to reset the pan/tilt position.

Zooming

Press either of the ZOOM buttons.



Note

When you perform pan/tilt operation while the camera is in the telephoto mode, the moving speed of the image on the screen may be a little jerky.

IIIII Operation Using the Supplied Infrared Remote Commander

Operating Multiple Cameras with the Infrared Remote Commander

1 Set the IR SELECT switch on the rear of the camera you want to operate to 1, 2 or 3.

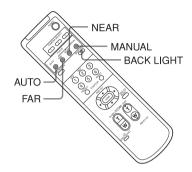


2 Press the CAMERA SELECT button on the infrared remote commander that corresponds to the number set in step 1.



Then, you can operate the camera(s) specified by number. Every time you operate the camera(s) using the infrared remote commander, the CAMERA SELECT button pressed in step 2 lights.

Adjusting the Camera



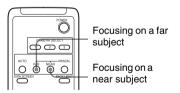
Focusing on a Subject

Focusing the camera on a subject automatically

Press the AUTO button. The camera focuses on the subject at the center of the screen automatically.

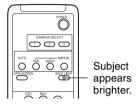
Focusing the camera on a subject manually

After pressing the MANUAL button, press either the FAR or the NEAR button to have the camera focus on the subject.



Shooting with Back Lighting

When you shoot a subject with a light source behind it, the subject becomes dark. In such a case, press the BACK LIGHT button. To cancel the function, press the BACK LIGHT button again.



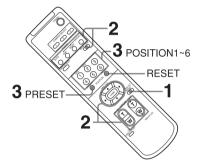
Note

The BACK LIGHT function is effective if MODE is set to FULL AUTO in the EXPOSURE menu of the camera.

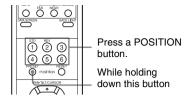
Storing the Camera Settings in Memory — the Presetting Feature

Up to 16 combinations of settings (16 positions) including camera position, zooming, focusing, and backlighting, can be preset.

For details of the camera settings to be preset, see "Preset Items" (page 43).



- 1 Press the PAN-TILT RESET button to reset the pan/tilt position.
- **2** Adjust the position, zooming, focusing and backlighting of the camera (page 23 to page 26).
- While holding down the PRESET button, press any of the POSITION buttons, 1 to 6, in which you want to store the settings.



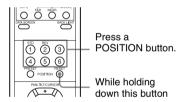
When you set DISPLAY INFO (page 20) to ON on the SYSTEM menu, the message "PRESET n : OK" automatically appears for about 3 seconds on the monitor screen.

Recalling the stored settings

Press any of the POSITION buttons, 1 to 6, in which you have stored the settings. The message "RECALL n:OK" automatically appears for about 3 seconds on the monitor screen.

Cancelling the preset memory

While holding down the RESET button, press the POSITION button from which you want to cancel the settings.



When you set DISPLAY INFO (page 20) to ON on the SYSTEM menu, the message "RESET n : OK" automatically appears for about 3 seconds on the monitor screen.

Notes

- When the power is turned on, the camera starts with the settings stored in POSITION 1.
- If you want to retain the previous pan and tilt positions, etc. before the power is turned off and turned on again, store those positions in POSITION 1.
- When you are storing or cancelling the settings in one POSITION, you cannot call

- up, store or cancel the settings in another POSITION.
- When the menu is displayed on the screen, you cannot perform the operation for storing, recalling, or cancelling the setting. Be sure to return to the normal display before starting these operations.



Installing the Camera

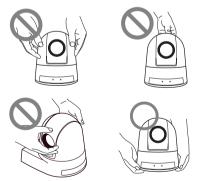
Installing the Camera on a Desk

Place the camera on a flat surface. If you have to place the camera on an inclined surface, make sure that the inclination is less than ± 15 degrees to guarantee pan/tilt performance, and take measures to prevent it from falling.



Notes

- Do not grasp the camera head when carrying the camera.
- Do not turn the camera head by hand.
 Doing so may result in a camera malfunction.



Attaching the Camera to a Tripod

Attach a tripod to the screw hole used for attaching a tripod on the bottom of the camera.

The tripod must be set up on a flat surface and its screws tightened firmly by hand. Use a tripod with screws of the following specifications.



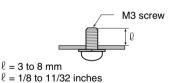
 ℓ = 4.5 to 7 mm ℓ = 0.18 to 0.22 inches

Caution

Installation of the camera using the tripod screws and screw holes should not be done for installation on a ceiling or a shelf, etc., in a high position.

Installing the Camera Using the M3 Fixing Screw Holes

Attach the camera using 3 M3 fixing screw holes located on the bottom of the camera. Attach the camera to a fitting with a flat surface using M3 screws with the following specifications.



Installing the unit on the ceiling

Using the ceiling bracket, wire rope, and retaining screws supplied, you can utilize existing junction boxes, etc., to attach the camera to the ceiling.

When you install the unit, always install it on a level ceiling. If you have to install it on a sloping or uneven ceiling, make sure that the place where you install it is within ± 15 degrees of the horizontal.

CAUTION

- Entrust installation to an experienced contractor or installer when installing the unit on ceilings or other high locations.
- When installing the unit in a high location, be sure that the location and installation components (excluding the supplied accessories) are strong enough to support the unit and the mounting bracket, and install the unit securely. If the components are not strong enough, the unit may fall and cause serious injury.
- Always install the supplied wire rope to prevent the unit from falling.
- If you install the unit in a high location, check periodically, at least once a year, to ensure that the connection has not loosened. If conditions warrant, make this periodic check more frequently.

Before installation

After deciding the direction in which the camera will shoot, make the required holes for the junction box, and connecting cables.

Note

The connecting cables cannot be passed through ceiling bracket (A). A hole for the wiring is required in the ceiling at the back of the unit where it is attached to the ceiling.

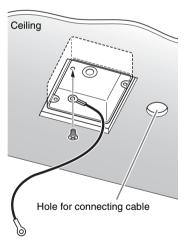
Installation

1 Set the IMAGE FLIP switch on the rear panel to ON.

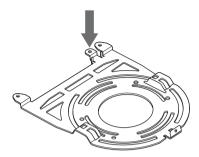
Notes

- Make sure that the BOTTOM switch is set to the correct position. See "Setting of the BOTTOM switches" (page 10).
- If you set the IMAGE FLIP switch to ON after turning on the power, the image will not be flipped. Turn the power off once, then on again, and the image will be flipped. It takes about 15 to 30 seconds to display the image.
- When you toggle the IMAGE FLIP switch, the pre-set settings will all be returned to the initial settings.
- **2** Attach the wire rope to the junction box in the ceiling.

Use a screw hole and a screw (not supplied) in the junction box to attach the wire rope.



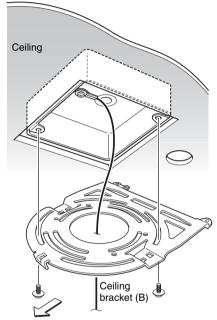
2-2 If the wire cannot be attached to the junction box, attach to the position on the ceiling bracket (B) in the illustration.



3 Attach the ceiling bracket (B) to the junction box on the ceiling.

Align the holes in the bracket with those in the junction box, and use appropriate screws (not supplied).

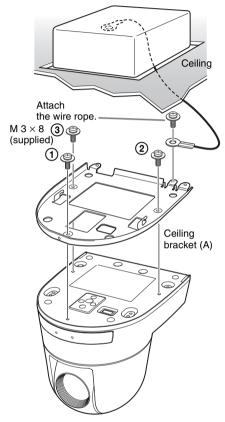
There are elongated holes for the screws along the rounded edges of the ceiling bracket (B). Later, the front of the camera will be positioned along this edge. Face the camera to the front, adjust the aim, and attach it securely.



Front of the camera

4 Attach the ceiling bracket (A) to the bottom of the camera using the 3 screws (M 3 × 8) supplied.

Align the screw holes on the bottom of the camera with those in the ceiling bracket, and attach the bracket to the camera.

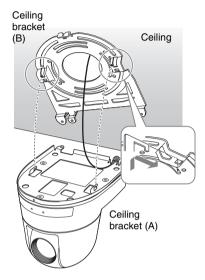


Tighten the screws a bit at a time in the numbered order shown in the illustration. After all of the screws are inserted and temporarily tightened properly, securely tighten each one in turn.

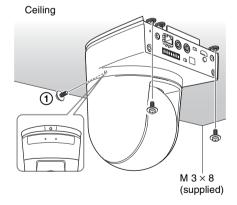
Note

For assembly, use only the screws supplied with the unit. Using other screws may damage the unit.

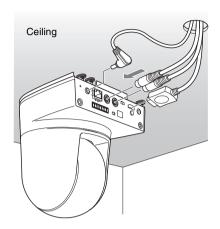
5 Insert the protrusions raised on the ceiling bracket (A) into the spaces prepared in the ceiling bracket (B), and temporarily attach them by pushing the ceiling bracket (A) to the rear.



6 While pushing up on the front part of the camera, attach it using the 3 screws $(M \ 3 \times 8)$ supplied, starting with the screw at position ①.



7 Connect the cables to the connectors on the rear of the camera.



Notes

- Take the proper steps to ensure that the load of the cables connected does not cause problems.
- To prevent the HDMI cable disconnecting from the camera (either by its own weight or an external force), it is recommended to secure it with commercially available retaining parts, etc.

Removing the camera

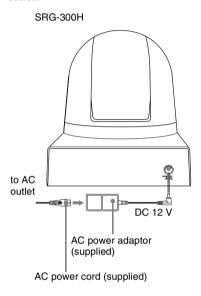
- 1 Remove the 3 screws used to attach the camera in step 6 of "Installation."
- **2** While pushing the entire camera up towards the ceiling, move the camera to the front.

The hooks will disengage, and you can remove the camera.

Connections

Connecting to an AC Outlet

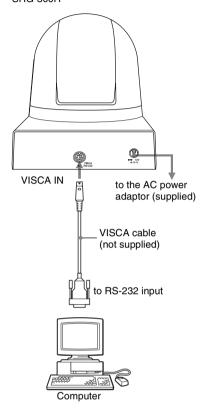
Use the supplied AC power adaptor and AC power cord to connect the camera to an AC outlet.



||||||| Installation and Connection

Connecting a Computer

RS-232 Connections SRG-300H



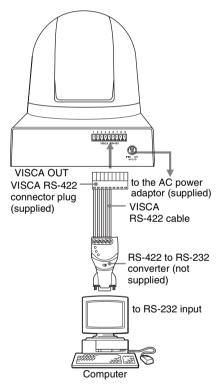
Notes

- When you connect a computer to the camera using the VISCA cable (RS-232 cross cable), you can control the camera from a computer instead of the supplied infrared remote commander.
- In the case of VISCA RS-232 connection, make sure that the BOTTOM switch is set to RS-232 (page 10).
- It is not possible to connect both VISCA RS-232 and VISCA RS-422 simultaneously.

 Do not mix VISCA RS-232 (cross) and VISCA RS-422 cables. Using these cables at the same time may result in malfunction. Cannot be used in the LAN connection

To obtain a cable, consult your Sony dealer. For detailed information on how to connect the camera and the VISCA command list, refer to the Technical Manual of the camera. For details on obtaining a Technical Manual, consult your Sony dealer.

RS-422 Connections SRG-300H

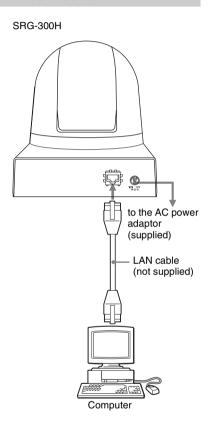


Notes

- Make up the cable using the supplied VISCA RS-422 connector plug. See "Using the VISCA RS-422 connector pin assignments" (page 47).
- In the case of VISCA RS-422 connection, make sure that the BOTTOM switch is set to RS-422 (page 10).

- It is not possible to connect both VISCA RS-232 and VISCA RS-422 simultaneously.
- Do not mix VISCA RS-232 (cross) and VISCA RS-422 cables. Using these cables at the same time may result in malfunction. Cannot be used in the LAN connection.

LAN connection



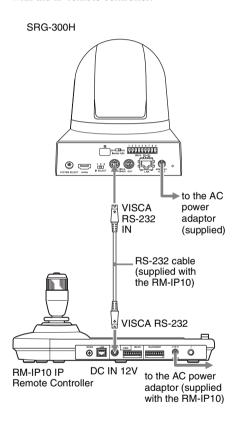
Notes

- In the case of a LAN connection, make sure that the BOTTOM switch of the camera is set for LAN connection (page 10).
- Dedicated application software is needed.
 For details about the application software, consult your Sony dealer.

 Use a LAN cable that is compatible with 10BASE-T/100BASE-TX (category 5 or higher, shielded twisted pair) for this connection.

Connecting the RM-IP10 IP Remote Controller

Use the RS-232 connecting cable supplied with the IP remote controller.



Note

When using the VISCA RS-232 connectors, check that the BOTTOM switch on the bottom of the camera (page 10) and the BOTTOM switch on the bottom of the IP remote controller are set to RS-232.

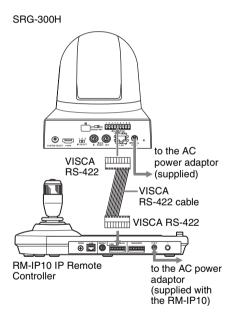
IIIIIIII Installation and Connection

To connect the IP Remote Controller using the VISCA RS-422 connectors

You can use the VISCA RS-422 connectors to connect the RM-IP10 IP remote controller to the camera instead of the VISCA RS-232 connectors. Use of the VISCA RS-422 connectors allows the connection up to 1,200 m (3,937 feet) away.

Prepare the connecting cable using the RS-422 connector plugs that come with the camera and the IP remote controller.

For making the cable, refer to "Using the VISCA RS-422 connector pin assignments" on pages 47, 48.

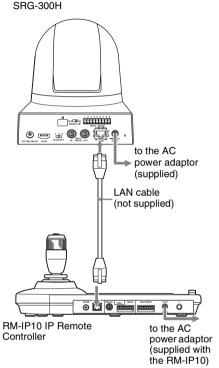


Notes

• When using the VISCA RS-422 connectors, check that the BOTTOM switch on the bottom of the camera (page 10) and the BOTTOM switch on the bottom of the IP remote controller are set to RS-422.

 When the connections using the VISCA RS-422 connectors are made, the VISCA RS-232 connection is not available.

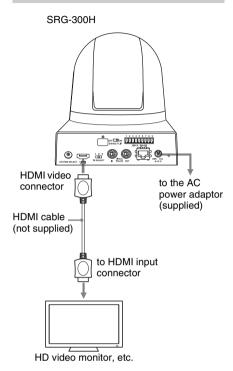
LAN connection



Notes

- In case of LAN connection, make sure that the BOTTOM switch of the camera is set for LAN connection (page 10).
- Use a LAN cable that is compatible with 10BASE-T/100BASE-TX (category 5 or higher, shielded twisted pair) for this connection.
- Use the crossover cable if you want to connect directly to the LAN connector of one camera and one IP remote controller without using a switching hub.

Connecting a Video Monitor, etc., Equipped with HDMI Input Connector



Notes

- Configure the, VIDEO FORMAT, based on the specifications of the HD monitor.
- Depending on the performance capabilities of the HDMI cable, some picture noise may occur. For the HDMI cable, a Sony high-speed cable is recommended.
- If the volume of the monitor is set to maximum, a sound may emit for a moment when activated, depending on the product. This is not a malfunction.
- It takes about 15 to 30 seconds to display the image.
- To prevent the HDMI cable disconnecting from the camera (either by its own weight or an external force), it is recommended to secure it with commercially available retaining parts, etc.

Message List

The following messages and indications may appear for this camera. Perform the following as necessary.

Lamp display

Lamp	Meaning and solution
The STANDBY lamp and POWER lamp are lit.	The SYSTEM SELECT switch is set to "no output" (page 10).
The STANDBY lamp is lit.	If the camera is moved forcibly, or a finger or other object interferes with camera movement, the camera's built-in processor may fail to memorize the pan/tilt position. Press the PAN-TILT RESET button to reset the pan/tilt position.

Screen display

Message	Meaning and solution
PRESET n:OK ("n" is a preset position number between 1 and 16)	This message appears for about 3 seconds when you store camera settings to POSITION 1 to 16. The preset position number of the infrared remote commander is POSITION 1 to 6.
RECALL n:OK ("n" is a preset position number between 1 and 16)	This message appears for about 3 seconds when you read the camera settings stored in POSITION 1 to 16. The preset position number of the infrared remote commander is POSITION 1 to 6.
RESET n:OK ("n" is a reset position number between 1 and 16)	This message appears for about 3 seconds when you reset camera settings stored in POSITION 1 to 16. The preset position number of the infrared remote commander is POSITION 1 to 6.
ONE PUSH WB:OP	During the white balance adjustment in the ONE PUSH white balance mode, this message blinks on the screen.
ONE PUSH WB:OK	When the white balance adjustment has been done correctly in the ONE PUSH white balance mode, this message is lit on the screen.
ONE PUSH WB:NG	When the white balance adjustment has failed in the ONE PUSH white balance mode, this message blinks on the screen.

Troubleshooting

Before bringing in your camera for service, check the following as a guide to troubleshooting the problem. If the problem cannot be corrected, consult your Sony dealer.

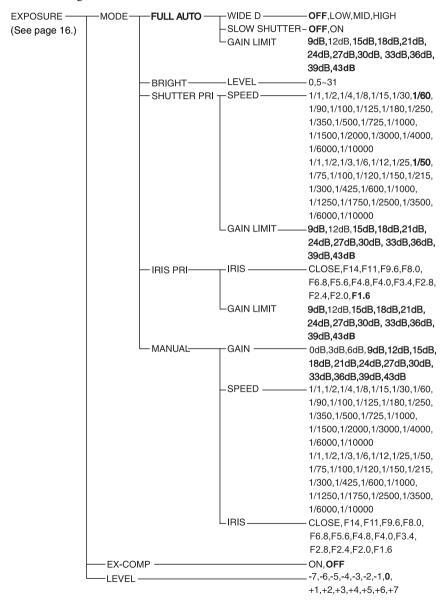
Symptom	Cause	Remedy
The power of the camera is not turned on.	The AC power adaptor is not connected to the DC 12 V connector firmly.	Insert the power cord firmly as far as it will go.
	The AC power cord is not inserted firmly into the AC power adaptor or the AC outlet.	Insert the power cord firmly as far as it will go.
The picture is not displayed on the video	The video cable is not connected properly.	Check the connection between the camera and video monitor.
monitor connected to the camera.	The exposure is not set correctly on the camera.	Set the exposure correctly on the EXPOSURE menu (page 16).
	The SYSTEM SELECT switch on the rear of the camera is not set correctly.	Check the selected output signal format of the camera and the input signal format of the connected monitor.
Pan, tilt, or zoom cannot be operated.	A menu is displayed on the monitor screen.	Press the DATA SCREEN button on the supplied infrared remote commander to remove the menu from the monitor screen.
	The panning or tilting range is limited.	Change the PAN/TILT LIMIT setting on the PAN TILT ZOOM menu (page 19).
The EXPOSURE menu cannot be set except for FULL AUTO.	WIDE D is not set to OFF.	After setting the WIDE D to OFF, select the MODE of the EXPOSURE (page 16).
The infrared remote commander does not work.	The CAMERA SELECT button you pressed on the infrared remote commander does not match the number set with the IR SELECT switch on the camera.	Press the CAMERA SELECT button corresponding to the IR SELECT switch setting on the camera (page 25).
The VISCA CONTROL is not available with a computer connected to the camera.	The computer is not correctly connected to the camera.	Make sure the connection between the computer and camera is made correctly.
		Check that the baud rate setting (9,600 bps or 38,400 bps) is properly made with the BOTTOM switch on the bottom of the camera (page 10).
		Check that the SYSTEM SELECT switch (page 10) is set to a position in which video signals are output.

Symptom	Cause	Remedy
LAN communication is not available with a computer connected to the camera.	The computer is not correctly connected to the camera.	Make sure the connection between the computer and camera is made correctly.
		Check that the VISCA/LAN switch (BOTTOM switch) is set to ON (page 10).
	The computer is not correctly set.	Check the precautions in the setting of the dedicated PC application.
The camera does not work when connected one-to-one to the IP remote controller.	A crossover cable is not used.	Use a crossover cable for one-to-one LAN connection.
The camera cannot be operated at all.	-	Pull out the plug of the power cord from the AC outlet, then reinsert it into the AC outlet after waiting a while.
		Check that the BOTTOM switches 5, 6, 7 and 8 are set to OFF.

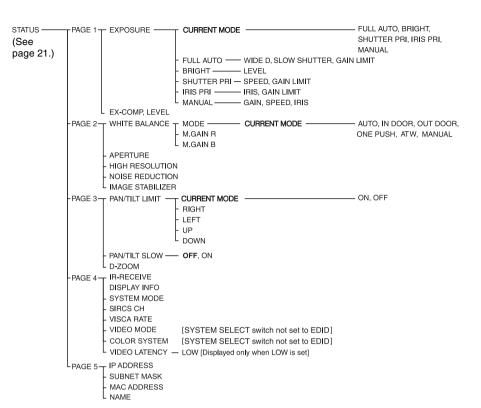
Menu Configuration

The menus of the camera are configured as described below. For more details, refer to the pages in parentheses.

The initial settings of each item are in bold.



```
WHITE BALANCE - MODE -
                                AUTO
(See page 17.)
                                INDOOR
                                OUTDOOR
                               ONE PUSH
                               - ATW
                                            R. GAIN ———-128 to 0, 0 to 127
B. GAIN ———-128 to 0, 0 to 127
                               <sup>L</sup>MANUAL-
PICTURE -
                (See page 18.)
                 HIGH RESOLUTION - ON.OFF
                 NOISE REDUCTION - MIN,1 to 5,MAX (default value: 3)
                - IMAGE STABILIZER - ON, OFF
PAN TILT ZOOM -
                 -PAN/TILT LIMIT ----- ON, OFF
                       RIGHT——-169° to +170° (default value:+170°)
(See page 19.)
                                  —-170° to +169°(default value:-170°)
                                   --019° to +090° (default value:+090°) [IMAGE-FLIP OFF]
                                   -+020° to -089° (default value:+020°) [IMAGE-FLIP ON]
                                   - - 020° to +089° (default value: -020°) [IMAGE-FLIP OFF]
                                   -+019°to -090°(default value:-090°) [IMAGE-FLIP ON]
                  PAN/TILT SLOW --- OFF, ON
                                  -OFF, ON
                  D-ZOOM ----
SYSTEM -
                  IR-RECEIVE — ON.OFF
                  -DISPLAY INFO ----ON,OFF
(See page 20.)
                  -VIDEO MODE —— HDMI, DVI [SYSTEM SELECT switch not set to EDID]
                 COLOR SYSTEM — RGB. YCbCr [SYSTEM SELECT switch not set to EDID]
```



Preset Items

The following items set by using the infrared remote commander and menu items can be stored in the memory of the camera.

Items adjusted with the infrared remote commander

Preset item	Preset position number	
	1	2 to 16
Pan/Tilt Position	•	0
Zoom Position	•	0
Focus Mode Auto/Manual	•	0
Focus Position	•	0
Backlight Compensation ON/OFF	•	0

Menu items

Preset item	Preset position number	
	1	2 to 16
EXPOSURE MODE	•	0
WIDE D	•	0
SLOW SHUTTER	•	-
AE GAIN LIMIT	•	-
BRIGHT LEVEL	•	0
SPEED	•	0
IRIS	•	0
GAIN	•	0
EX-COMP ON/OFF	•	0
EX-COMP LEVEL	•	0
WHITE BALANCE MODE	•	0
ONE PUSH WB R/B Data	•	-
MANUAL R/B GAIN	•	0
APERTURE	•	0
PICTURE EFFECT	•	0
HIGH RESOLUTION	•	0
NOISE REDUCTION	•	0
PAN/TILT LIMIT	•	_
D-ZOOM	•	0
DISPLAY INFO	•	_

- :Setting items retained in memory when the power is turned off and then on again. The camera starts with these settings stored in POSITION 1.
- O :Setting items retained in memory when the power is turned off and then on again.
- Setting items cleared from the memory when the power is turned off and then on and reset to the initial settings.



For detailed information on POSITION 1, see "Storing the Camera Settings in Memory — the Presetting Feature" (page 26).

You can store the following items in the memory (POSITION 1), but you can set them only by using the appropriate VISCA command.

- Focus Near Limit
- IR Receive
- IR Receive Return

For detailed information on the VISCA command list, refer to the Technical Manual of the camera. For details on obtaining a Technical Manual, consult your Sony dealer.

The setting of preset numbers 1 to 16 are available for VISCA CONTROL and LAN connection.

Specifications

System

Video signal 1920×1080p/59.94

1920×1080p/29.97 1920×1080i/59.94 1280×720p/59.94 1280×720p/29.97 1920×1080p/50 1920×1080p/25 1920×1080i/50

1280×720p/50 1280×720p/25

EDID VISCA CONTROL

(switched with the SYSTEM SELECT switch)

Synchronization

Internal synchronization

Image device 1/2.8 type Exmor CMOS Lens 30× (optical), 12× (digital)

f = 4.3 mm (wide) to 129 mm (tele)

F1.6 to 4.7

Horizontal angle: 65 degrees

(WIDE end)

Minimum object distance

10 mm (13/32 inche) (WIDE end) to 1200 mm (47 1/4 inches) (TELE end)

Minimum illumination

1.4 lux (F1.6, 50 IRE, highsensitivity mode OFF, 30fps) 2.8 lux (F1.6, 50 IRE, highsensitivity mode OFF, 60fps) 0.35 lux (F1.6, 50 IRE, high-

sensitivity mode ON, 30fps) 0.7 lux (F1.6, 50 IRE, highsensitivity mode ON, 60fps)

Shutter speed 1/1 to 1/10000 sec. (22 steps)

Video S/N 50 dB

Pan/tilt action Horizontal: ±170 degrees

Maximum panning speed: 100 degrees/sec.

Vertical: +90, -20 degrees (IMAGE FLIP: OFF) +20, -90 degrees (IMAGE

FLIP: ON)

Maximum tilting speed:

90 degrees/sec.

Input/output connectors

(HDMI connector)

Control input/output

VISCA IN: Mini DIN 8-pin type, RS-232

VISCA OUT: Mini DIN 8-pin type, RS-232

VISCA RS-422: 9-pin LAN connector: RJ-45 (8-pin),

10BASE-T/100BASE-TX auto

discrimination Power connector

JEITA type4 (DC 12 V)

General

Input voltage 12 V DC (10.8 to 13.2 V DC)

Power consumption

16.8 W

Operating temperature

0 °C to +40 °C (+32 °F to +104 °F)

Storage temperature

-20 °C to +60 °C (-4 °F to +140 °F) Dimensions Video camera: $157 \times 164 \times 163$

mm $(6.1/4 \times 6.1/2 \times 6.1/2)$

inches) (w/h/d)

Infrared Remote Commander: $56 \times 26 \times 210 \text{ mm} (2.1/4 \times 10^{-2})$

 $1.1/16 \times 8.3/8 \text{ inches}) (w/h/d)$

Installation angle

Less than ±15 degrees to the horizontal surface

Supplied accessories

AC power adaptor AC power cord (1)

Infrared Remote Commander (1)

Ceiling bracket (A) (1)

Ceiling bracket (B) (1)

Wire rope (1)

Screw M3×8 (8)

VISCA RS-422 connector plug (1)

Safety Regulations (1)

Operating Instructions (CD-ROM) (1)

Design and specifications are subject to change without notice.

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HOMI



Dimensions

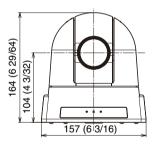
Top

170°

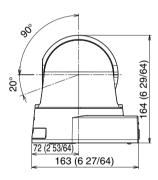
Back



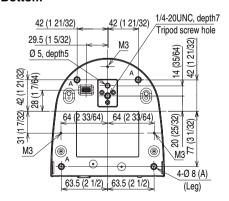
Front



Side



Bottom



Unit: mm (inches)

Pin assignments

VISCA IN connector (mini-DIN 8-pin, female)



Pin No.	Function
1	DTR IN
2	DSR IN
3	TXD IN
4	GND
5	RXD IN
6	GND
7	IR OUT L*
8	IR OUT R*

^{*} The IR OUT function of pins 7 and 8 are selectable with the BOTTOM switch on the bottom of the camera.

VISCA OUT connector (mini DIN 8pin, female)

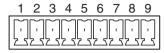


VISCA OUT

Pin No.	Function
1	DTR OUT
2	DSR OUT
3	TXD OUT
4	GND
5	RXD OUT
6	GND
7	No connection
8	No connection

Using the VISCA RS-422 connector pin assignments

The VISCA RS-422 connector pin assignments

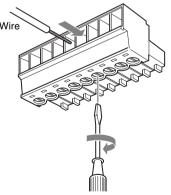


VISCA RS-422

Pin No.	Function
1	TXD IN+
2	TXD IN-
3	RXD IN+
4	RXD IN-
5	GND
6	TXD OUT+
7	TXD OUT-
8	RXD OUT+
9	RXD OUT-

Using the VISCA RS-422 connector plug

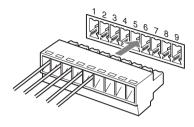
1 Insert a wire (AW G Nos. 28 to 18) into the desired wire opening on the supplied VISCA RS-422 connector plug, and tighten the screw for that wire using a flat-head screwdriver.



Flat-head screwdriver



2 Insert the VISCA RS-422 connector plug into the VISCA RS-422 connector on the rear of the camera.



Notes

- In order to stabilize the voltage level of the signal, connect both ends to GND.
- Do not make a VISCA RS-232 connection when there is already an existing VISCA RS-422 connection.

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