



XS-62S

HD VIDEO SWITCHER

Reference Manual

Version 3.0 and later

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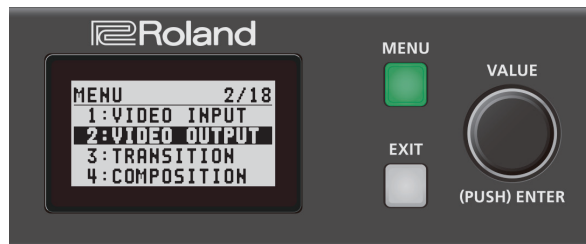
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Menu List

Pressing the [MENU] button makes the menu appear on the built-in display. If the HDMI OUT 3 connector's OUTPUT ASSIGN (p. 4) is set to "MULTI-VIEW," the OSD menu appears.

Built-in display (Menu)



MEMO

- By turning the [VALUE] knob while pressing it, you can change the value more greatly.
- Pressing and holding the [VALUE] knob returns the current menu item you're setting to its default value.

Multi-view monitor (OSD menu)



1: VIDEO INPUT

Menu item	Value (bold text: default value)	Explanation
SDI IN 1-4		
INPUT STATUS	(ENTER)	This displays information about the incoming video (video format, size, etc.).
H FLIP	OFF , ON	Setting this to "ON" flips the output video horizontally.
BRIGHTNESS	-64- 0 -63	This adjusts the brightness.
CONTRAST	-64- 0 -63	This adjusts the contrast.
SATURATION	-64- 0 -63	This adjusts the saturation.
HDMI IN 5		
INPUT STATUS	(ENTER)	This displays information about the incoming video (video format, size, presence or absence of an HDCP signal, etc.).
FLICKER FILTER	OFF , ON	Setting this to "ON" reduces flicker.
ZOOM	10.0- 100.0 -1000.0% (*1)	This adjusts the zoom ratio.
SCALING TYPE	This sets the scaling type.	
	FULL	This always displays the picture expanded to full screen, irrespective of the aspect ratio of the input video.
	LETTERBOX	This enlarges or reduces the incoming video to a full-screen view while keeping the aspect ratio unchanged.
	CROP	This enlarges or reduces the incoming video so that the output picture has no blank margins while keeping the aspect ratio unchanged. Video extending beyond the borders is cut off.
	DOT BY DOT	This performs no scaling.
MANUAL	Scale according to the "MANUAL SIZE H" and "MANUAL SIZE V" settings below.	
MANUAL SIZE H (*2)	-2000- 0 -2000 (*1)	This adjusts the horizontal size.
MANUAL SIZE V (*2)	-2000- 0 -2000 (*1)	This adjusts the vertical size.
POSITION H	-1920- 0 -1920 (*1)	This adjusts the display position in the horizontal direction.
POSITION V	-1200- 0 -1200 (*1)	This adjusts the display position in the vertical direction.
H FLIP	OFF , ON	Setting this to "ON" flips the output video horizontally.
BRIGHTNESS	-64- 0 -63	This adjusts the brightness.
CONTRAST	-64- 0 -63	This adjusts the contrast.
SATURATION	-64- 0 -63	This adjusts the saturation.
RED	-64- 0 -63	This adjusts the red level.
GREEN	-64- 0 -63	This adjusts the green level.
BLUE	-64- 0 -63	This adjusts the blue level.
EDID	INTERNAL , 800 x 600, 1024 x 768, 1200 x 800, 1366 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, 1920 x 1200, 720p, 1080i, 1080p	This sets the input format (EDID) for the HDMI IN 5 connector.

(*1) The range of this value varies according to conditions such as the input/output format.

(*2) This is available when "SCALING TYPE" is set to "MANUAL."

Menu item	Value (bold text: default value)	Explanation
HDMI/ANLG IN 6 (*3)		
INPUT STATUS	(ENTER)	This displays information about the incoming video (video format, size, presence or absence of an HDCP signal, etc.).
INPUT 6 ASSIGN	HDMI , RGB/COMPONENT, COMPOSITE	This sets the input connector assigned to channel 6.
AUTO SAMPLING (*4)	(EXEC)	This automatically adjusts the image quality. * Depending on the video, adjusting the image quality might not be possible.
FLICKER FILTER	OFF , ON	Setting this to "ON" reduces flicker.
ZOOM	10.0– 100.0 –1000.0% (*5)	This adjusts the zoom ratio.
SCALING TYPE	This sets the scaling type.	
	FULL	This always displays the picture expanded to full screen, irrespective of the aspect ratio of the input video.
	LETTERBOX	This enlarges or reduces the incoming video to a full-screen view while keeping the aspect ratio unchanged.
	CROP	This enlarges or reduces the incoming video so that the output picture has no blank margins while keeping the aspect ratio unchanged. Video extending beyond the borders is cut off.
	DOT BY DOT	This performs no scaling.
	MANUAL	Scale according to the "MANUAL SIZE H" and "MANUAL SIZE V" settings below.
MANUAL SIZE H (*6)	-2000– 0 –2000 (*5)	This adjusts the horizontal size.
MANUAL SIZE V (*6)	-2000– 0 –2000 (*5)	This adjusts the vertical size.
POSITION H	-1920– 0 –1920 (*5)	This adjusts the display position in the horizontal direction.
POSITION V	-1200– 0 –1200 (*5)	This adjusts the display position in the vertical direction.
H FLIP	OFF , ON	Setting this to "ON" flips the output video horizontally.
BRIGHTNESS	-64– 0 –63	This adjusts the brightness.
CONTRAST	-64– 0 –63	This adjusts the contrast.
SATURATION	-64– 0 –63	This adjusts the saturation.
RED	-64– 0 –63	This adjusts the red level.
GREEN	-64– 0 –63	This adjusts the green level.
BLUE	-64– 0 –63	This adjusts the blue level.
FREQUENCY (*4)	-128– 0 –127	This adjusts the input frequency.
PHASE (*4)	-128– 0 –127	This adjusts the phase.
EDID (*7)	INTERNAL , 800 x 600, 1024 x 768, 1200 x 800, 1366 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, 1920 x 1200, 720p (*8), 1080i (*8), 1080p (*8)	This sets the input format (EDID) of the HDMI IN 6 connector or the RGB/CMPNT/CMPST IN connector.
STILL/BKG IN 7/8		
INPUT 7 ASSIGN	This assigns a still image or monochrome picture (background color) to channel 7.	
	STILL IMAGE 1	This selects the memory where a still image is saved and assigns the image. A " * " symbol is displayed for memory where a still image is already saved.
	STILL IMAGE 2	
BACKGROUND	This assigns a monochrome picture (background color).	
INPUT 8 ASSIGN	This assigns a still image or monochrome picture (background color) to channel 8.	
	STILL IMAGE 1	This selects the memory where a still image is saved and assigns the image. A " * " symbol is displayed for memory where a still image is already saved.
	STILL IMAGE 2	
BACKGROUND	This assigns a monochrome picture (background color).	
BKG COLOR	BLACK , WHITE, GRAY, RED, GREEN, BLUE, YELLOW	This sets the background color. * The background-color setting is shared by channels 7 and 8.

(*3) The settings on the HDMI/ANLG IN 6 menu change in tandem with the assignment made using "INPUT 6 ASSIGN." You can make separate individual settings for the respective menu items for the HDMI IN 6 connector and the RGB/CMPNT/CMPST IN 6 connector.

(*4) This is effective when "INPUT 6 ASSIGN" is set to "RGB/COMPONENT."

(*5) The range of this value varies according to conditions such as the input/output format.

(*6) This is available when "SCALING TYPE" is set to "MANUAL."

(*7) This is available only when "INPUT 6 ASSIGN" is set to "HDMI" or "RGB/COMPONENT."

(*8) This is available only when "INPUT 6 ASSIGN" is set to "HDMI."

2: VIDEO OUTPUT

Menu item	Value (bold text: default value)	Explanation
SDI OUT 1, 2		
OUTPUT STATUS	—	This displays the video format. When "HDCP" (p. 19) is set to "ON," "HDCP MASKED" is displayed and no video is output from the SDI OUT connectors.
OUTPUT ASSIGN	PGM/1, PVW/2, AUX/3 The default values are as follows. SDI OUT 1: PGM/1 SDI OUT 2: PVW/2	This sets the output bus assigned to the SDI OUT connectors.
3G-SDI MAPPING	LEVEL-A, LEVEL-B	This sets the mapping structure for 3G-SDI output.
H FLIP	OFF , ON	Setting this to "ON" flips the output video horizontally.
BRIGHTNESS	-64- 0 -63	This adjusts the brightness.
CONTRAST	-64- 0 -63	This adjusts the contrast.
SATURATION	-64- 0 -63	This adjusts the saturation.
HDMI OUT 1, 2		
OUTPUT STATUS	—	This displays information about the output video (video format and presence or absence of an HDCP signal). When no connection is in effect, "NOT CONNECTED" is displayed.
OUTPUT ASSIGN	PGM/1, PVW/2, AUX/3 The default values are as follows. HDMI OUT 1: PGM/1 HDMI OUT 2: PVW/2	This sets the output bus assigned to the HDMI OUT connectors.
COLOR SPACE	YCC , RGB (0–255), RGB (16–235)	This sets the color space.
DVI-D/HDMI SIGNAL	DVI-D, HDMI	This sets the output mode for HDMI output.
H FLIP	OFF , ON	Setting this to "ON" flips the output video horizontally.
BRIGHTNESS	-64- 0 -63	This adjusts the brightness.
CONTRAST	-64- 0 -63	This adjusts the contrast.
SATURATION	-64- 0 -63	This adjusts the saturation.
RED	-64- 0 -63	This adjusts the red level.
GREEN	-64- 0 -63	This adjusts the green level.
BLUE	-64- 0 -63	This adjusts the blue level.
HDMI OUT 3		
OUTPUT STATUS	—	This displays information about the output video (video format and presence or absence of an HDCP signal). When no connection is in effect, "NOT CONNECTED" is displayed. * If OUTPUT ASSIGN is set to "MULTI-VIEW" for the HDMI OUT 3 connector, the output format is fixed at "1080p."
OUTPUT ASSIGN	PGM/1, PVW/2, AUX/3, MULTI-VIEW	This sets the output bus assigned to the HDMI OUT 3 connector.
RESOLUTION (*9)	480p, 720p, 1080p , 800 x 600, 1024 x 768, 1280 x 800, 1366 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, 1920 x 1200	This sets the output resolution using the scaler.
COLOR SPACE	YCC , RGB (0–255), RGB (16–235)	This sets the color space.
DVI-D/HDMI	DVI-D, HDMI	This sets the output mode for HDMI output.
ZOOM (*9)	10.0- 100.0 -1000.0% (*10)	This adjusts the zoom ratio.
SCALING TYPE (*9)	FULL	This always displays the picture expanded to full screen, irrespective of the aspect ratio of the input video.
	LETTERBOX	This enlarges or reduces the incoming video to a full-screen view while keeping the aspect ratio unchanged.
	CROP	This enlarges or reduces the incoming video so that the output picture has no blank margins while keeping the aspect ratio unchanged. Video extending beyond the borders is cut off.
	DOT BY DOT	This performs no scaling.
	MANUAL	Scale according to the "MANUAL SIZE H" and "MANUAL SIZE V" settings below.
H FLIP (*9)	OFF , ON	Setting this to "ON" flips the output video horizontally.
MANUAL SIZE H (*9) (*11)	-2000- 0 -2000 (*11)	This adjusts the horizontal size.
MANUAL SIZE V (*9) (*11)	-2000- 0 -2000 (*11)	This adjusts the vertical size.

Menu item	Value (bold text: default value)	Explanation
POSITION H (*9)	-1920- 0 -1920 (*10)	This adjusts the display position in the horizontal direction.
POSITION V (*9)	-1200- 0 -1200 (*10)	This adjusts the display position in the vertical direction.
BRIGHTNESS	-64- 0 -63	This adjusts the brightness.
CONTRAST	-64- 0 -63	This adjusts the contrast.
SATURATION	-64- 0 -63	This adjusts the saturation.
RED	-64- 0 -63	This adjusts the red level.
GREEN	-64- 0 -63	This adjusts the green level.
BLUE	-64- 0 -63	This adjusts the blue level.

(*9) This is valid when the HDMI OUT 3 connector's OUTPUT ASSIGN (p. 4) is set to something other than "MULTI-VIEW."

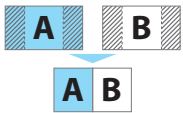
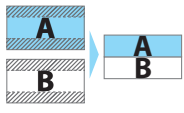
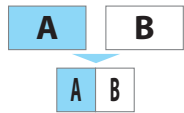
(*10) The range of this value varies according to conditions such as the input/output format.

(*11) Only when "SCALING TYPE" is set to "MANUAL."

3: TRANSITION

Menu item	Value (bold text: default value)	Explanation
TIME	0.0- 1.0 -4.0 sec	This sets the video transition time.
TYPE	CUT, MIX , WIPE	This sets the type of video transition.
MIX TYPE	MIX , FAM, NAM	This specifies the mix pattern.
WIPE TYPE	H-DOWN, H-UP, V-RIGHT , V-LEFT, H-IN, H-OUT, V-IN, V-OUT, R-DOWN, L-DOWN, R-UP, L-UP, BLOCK, V-GRID, H-GRID, H-DOWN s, H-UP s, V-RIGHT s, V-LEFT s, H-IN s, H-OUT s, V-IN s, V-OUT s, R-DOWN s, L-DOWN s, R-UP s, L-UP s, BLOCK s, V-GRID s, H-GRID s	This specifies the wipe pattern. * Setting values indicated with "s" are soft edge wipe patterns.

4: COMPOSITION

Menu item	Value (bold text: default value)	Explanation	
COMPOSITION TYPE	PinP, SPLIT	This selects the type of video composition.	
PinP SIZE	1/4, 1/3 , 1/2	This sets the size of the inset screen. The horizontal width (and vertical height) of the inset screen are set to 1/2, 1/3, or 1/4 the size values of the background video.	
PinP POS H	-45.0– -25.0 –45.0% (*12)	This adjusts the horizontal display position of the inset screen.	
PinP POS V	-40.0– -25.0 –40.0% (*12)	This adjusts the vertical display position of the inset screen.	
PinP BDR COLOR	BLACK, WHITE , GRAY, RED, GREEN, BLUE, YELLOW, SOFT EDGE	This sets the color of the border for the inset screen. Setting this to “SOFT EDGE” blurs the edge.	
PinP BDR WIDTH	0– 1 –15	This adjusts the width of the border for the inset screen.	
PinP SHAPE	SQUARE , CIRCLE, HEART, DIAMOND	This specifies the shape of the inset screen.	
PinP ASPECT	16:9 , 1:1	This sets the aspect ratio of the inset screen.	
PinP CROPPING H	-128– 0	This adjusts the frame size in the horizontal direction.	
PinP CROPPING V	-128– 0	This adjusts the frame size in the vertical direction.	
PinP VIEW POS H	-50.0– 0.0 –50.0%	This adjusts the display position of the video within the inset screen in the horizontal direction.	
PinP VIEW POS V	-50.0– 0.0 –50.0%	This adjusts the display position of the video within the inset screen in the vertical direction.	
SPLIT PATTERN	This sets the split composition pattern.		
	<p>V-CENTER This vertically crops the center section of the video.</p> 	<p>H-CENTER This horizontally crops the center section of the video.</p> 	<p>V-STRETCH This stretches the video vertically.</p> 
SPLIT PGM-CTR	-25.0– 0.0 –25.0%	<p>This is applied when “PATTERN” is set to “V-CENTER” or “H-CENTER.”</p> <ul style="list-style-type: none"> When at V-CENTER This horizontally adjusts the display position of the video placed on the left side. When at H-CENTER This vertically adjusts the display position of the video placed above. 	
SPLIT PST-CTR	-25.0– 0.0 –25.0%	<p>This is applied when “PATTERN” is set to “V-CENTER” or “H-CENTER.”</p> <ul style="list-style-type: none"> When at V-CENTER This horizontally adjusts the display position of the video placed on the right side. When at H-CENTER This vertically adjusts the display position of the video placed below. 	
SPLIT CTR POS	-50.0– 0.0 –50.0%	This adjusts the boundary line, changing the size of the two video images.	

(*12) The range of this value varies according to conditions such as the input/output format.

5: DSK

Menu item	Value (bold text: default value)	Explanation
DSK SOURCE CH	SDI IN 1–4, HDMI IN 5, HDMI/ANLG IN 6 , STILL/BKG IN 7, STILL/BKG IN 8	During DSK compositing, this specifies the channel of the overlaid logo or image. Setting this to “STL/BKG IN 7” or “STL/BKG IN 8” performs DSK composition using a still image saved in the unit.
KEY TYPE	This specifies the key type (extraction color) used during DSK composition.	
	LUMI-WHT	This uses a brightness threshold to make white transparent.
	LUMI-BLK	This uses a brightness threshold to make black transparent.
	CRM-GRN	This uses a color threshold to make green transparent.
	CRM-BLU	This uses a color threshold to make blue transparent.
LEVEL	0– 64 –255	This adjusts the degree of extraction (transparency) for the key.
GAIN	0 –255	This adjusts the degree of edge blur (semi-transmissive region) for the key.
MIX LEVEL	0– 255	This adjusts the key’s overall density (output level).
HUE WIDTH (*13)	-128– 0 –127	This adjusts the hue width for the key color.
HUE FINE (*13)	-128– 0 –127	This adjusts the center position of the hue for the key color.
SATURATION WIDTH (*13)	-128– 0 –127	This adjusts the saturation width for the key color.
SATURATION FINE (*13)	0 –255	This adjusts the center position of saturation for the key color.
PGM OUT	OFF , ON	This sets DSK composition on or off. When this is turned on, the results of DSK composition are sent to final output. When the menu is used to turn on DSK composition, the video is composited immediately, regardless of the length of time set for video transitions.
PVW OUT	OFF , ON	Setting this to “ON” makes the DSK compositing results the preview output. The [PVW] button functions as a shortcut for “PVW OUT.”

(*13) This is applied when “KEY TYPE” is set to “CRM-GRN” or “CRM-BLU.”

6: AUDIO INPUT

Menu item	Value (bold text: default value)	Explanation
AUDIO IN 1-4		
HEAD AMP GAIN	0 -64dB	This adjusts head amp gain. Head amp gain adjusts analog audio.
DIGITAL GAIN	-42.0- 0.0 -42.0dB	This adjusts digital gain. Digital gain adjusts digital audio internally converted from analog to digital in the XS-62S.
PGM LEVEL	-INF -10.0dB	This adjusts the level that is output to the PGM/1 bus.
PVW LEVEL	-INF -10.0dB	This adjusts the level that is output to the PVW/2 bus.
PGM MUTE	OFF , ON	This turns on/off the mute function for the PGM/1 bus. If this is "ON," the audio of the PGM/1 bus is muted (silent).
PVW MUTE	OFF , ON	This turns on/off the mute function for the PVW/2 bus. If this is "ON," the audio of the PVW/2 bus is muted (silent).
PAN	LEFT- CENTER -RIGHT	This adjusts the sound position (pan).
HPF 75Hz	OFF , ON	This sets the high-pass filter on or off. Effect This cuts off unneeded low-band audio. The cutoff frequency is 75 Hz.
DELAY	0.0 -500ms (0.0 -29.9/25.0frame)	This adjusts the delay time for input audio. Effect This outputs audio with a delay.
GATE	OFF , ON	This sets gate on or off. Effect This mutes audio that is below a specified level.
GATE THLD	-80.0- -50.0 -0.0dB	This sets the level used as the threshold for removing audio. Audio below the level set here is removed.
GATE RELEASE	30- 860 -5000ms	This adjusts the length of time until the audio is fully attenuated after audio falls below the threshold.
COMP	OFF , ON	This sets the compressor on or off. Effect This compresses audio that exceeds a specified level.
COMP THLD	-60.0- -30.0 -0.0dB	This sets the level used as the threshold at which the compressor is applied. Compression is applied to audio that exceeds the threshold.
COMP RATIO	1.00:1, 1.12:1, 1.25:1, 1.40:1, 1.60:1, 1.80:1, 2.00:1, 2.50:1, 3.20:1, 4.00:1, 5.60:1 , 8.00:1, 16.0:1, INF:1	This species the degree of compression applied to the audio. If this is set to "1.00:1," compression is not applied.
COMP ATTACK	0.2- 1 -100ms	This sets the time until compression starts when audio exceeding the threshold is input.
COMP RELEASE	30- 380 -5000ms	This adjusts the length of time until compression ends after audio falls below the threshold.
COMP AUTO G	OFF, ON	This switches the auto makeup gain feature on and off. When this is set to "ON," the final output volume level after applying the compressor is automatically adjusted according to the "COMP THLD" and "COMP RATIO" settings. The total of the "COMP MAKE UP G" setting value described below and the value calculated by auto makeup gain becomes the final output volume level (up to +34 dB).
COMP MAKE UP G	-40- 0.0 -40dB	This adjusts the final output volume level after applying the compressor.
EQUALIZER	OFF , ON	This sets the equalizer on or off. Effect Adjusts the sound quality for each frequency band.
EQ Hi	-15.0- 0.0 -15.0dB	This boosts or attenuates the high band.
EQ Hi FREQ	1.00- 10.0 -20.0kHz	This adjusts the center frequency when changing the tone quality in the high band.
EQ Mid	-15.0- 0.0 -15.0dB	This boosts or attenuates the middle band.
EQ Mid FREQ	20.0Hz- 500Hz -20.0kHz	This adjusts the center frequency when changing the tone quality in the middle band.
EQ Mid Q	0.5- 1.0 -16.0	This adjusts the width of the frequency band when boosting or attenuating the middle band.
EQ Lo	-15.0- 0.0 -15.0dB	This boosts or attenuates the low band.
EQ Lo FREQ	20.0- 100 -500Hz	This adjusts the center frequency when changing the tone quality in the low band.
SOLO	OFF , ON	This turns the solo function on/off. Only the input audio for which this is "ON" is monitored through the headphones.
EFFECT PRESET	This sets an effect preset (high-pass filter, gate, equalizer). * When you change a preset, the settings of each effect are overwritten.	
	DEFAULT	For line input (default setting)
	MEETING	For meetings
	INTERVIEW	For interviews
	AMBIENT MIC	For capturing ambient sound
	WINDY FIELD	For capturing ambient sound in a windy area
	DE-ESS & POPS SOFT	For reducing sibilants
	DE-ESS & POPS HARD	For reducing plosives

Menu item	Value (bold text: default value)	Explanation
AUDIO IN 5/6, SDI IN 1–4, HDMI IN 5–6		
DIGITAL GAIN	-42.0– 0.0 –42.0dB	This adjusts digital gain.
PGM LEVEL	-INF –10.0dB (*14) -INF– 0.0 –10.0dB (*15)	This adjusts the level that is output to the PGM/1 bus.
PVW LEVEL	-INF –10.0dB (*14) -INF– 0.0 –10.0dB (*15)	This adjusts the level that is output to the PVW/2 bus.
PGM MUTE	OFF , ON	This turns on/off the mute function for the PGM/1 bus. If this is “ON,” the audio of the PGM/1 bus is muted (silent).
PVW MUTE	OFF , ON	This turns on/off the mute function for the PVW/2 bus. If this is “ON,” the audio of the PVW/2 bus is muted (silent).
HPF 75Hz	OFF , ON	This sets the high-pass filter on or off. Effect This cuts off unneeded low-band audio. The cutoff frequency is 75 Hz.
DELAY	0.0 –500ms (0.0 –29.9/25.0frame)	This adjusts the delay time for input audio. Effect This outputs audio with a delay.
GATE	OFF , ON	This sets gate on or off. Effect This mutes audio that is below a specified level.
GATE THLD	-80.0– -50.0 –0.0dB	This sets the level used as the threshold for removing audio. Audio below the level set here is removed.
GATE RELEASE	30– 860 –5000ms	This adjusts the length of time until the audio is fully attenuated after audio falls below the threshold.
COMP	OFF , ON	This sets the compressor on or off. Effect This compresses audio that exceeds a specified level.
COMP THLD	-60.0– -30.0 –0.0dB	This sets the level used as the threshold at which the compressor is applied. Compression is applied to audio that exceeds the threshold.
COMP RATIO	1.00:1, 1.12:1, 1.25:1, 1.40:1, 1.60:1, 1.80:1, 2.00:1, 2.50:1, 3.20:1, 4.00:1, 5.60:1 , 8.00:1, 16.0:1, INF:1	This species the degree of compression applied to the audio. If this is set to “1.00:1,” compression is not applied.
COMP ATTACK	0.2– 1 –100ms	This sets the time until compression starts when audio exceeding the threshold is input.
COMP RELEASE	30– 380 –5000ms	This adjusts the length of time until compression ends after audio falls below the threshold.
COMP AUTO G	OFF , ON	This switches the auto makeup gain feature on and off. When this is set to “ON,” the final output volume level after applying the compressor is automatically adjusted according to the “COMP THLD” and “COMP RATIO” settings. The total of the “COMP MAKE UP G” setting value described below and the value calculated by auto makeup gain becomes the final output volume level (up to +34 dB).
COMP MAKE UP G	-40– 0.0 –40dB	This adjusts the final output volume level after applying the compressor.
EQUALIZER	OFF , ON	This sets the equalizer on or off. Effect Adjusts the sound quality for each frequency band.
EQ Hi	-15.0– 0.0 –15.0dB	This boosts or attenuates the high band.
EQ Hi FREQ	1.00– 10.0 –20.0kHz	This adjusts the center frequency when changing the tone quality in the high band.
EQ Mid	-15.0– 0.0 –15.0dB	This boosts or attenuates the middle band.
EQ Mid FREQ	20.0Hz– 500Hz –20.0kHz	This adjusts the center frequency when changing the tone quality in the middle band.
EQ Mid Q	0.5– 1.0 –16.0	This adjusts the width of the frequency band when boosting or attenuating the middle band.
EQ Lo	-15.0– 0.0 –15.0dB	This boosts or attenuates the low band.
EQ Lo FREQ	20.0– 100 –500Hz	This adjusts the center frequency when changing the tone quality in the low band.
SOLO	OFF , ON	This turns the solo function on/off. Only the input audio for which this is “ON” is monitored through the headphones.
EFFECT PRESET	This sets an effect preset (high-pass filter, gate, equalizer). * When you change a preset, the settings of each effect are overwritten.	
	DEFAULT	For line input (default setting)
	MEETING	For meetings
	INTERVIEW	For interviews
	AMBIENT MIC	For capturing ambient sound
	WINDY FIELD	For capturing ambient sound in a windy area
	DE-ESS & POPS SOFT	For reducing sibilants
DE-ESS & POPS HARD	For reducing plosives	

(*14) These are the setting values (default value) for AUDIO IN 5/6.

(*15) These are the setting values (default value) for SDI IN 1–SDI IN 4, HDMI IN 5, and HDMI IN 6.

7: AUDIO OUTPUT

Menu item	Value (bold text: default value)	Explanation								
OUTPUT ASSIGN										
AUDIO OUT (XLR)	PGM/1 , PVW/2, AUX/3	This specifies the audio bus assigned to the AUDIO OUT connectors (XLR).								
AUDIO OUT (RCA)	PGM/1 , PVW/2, AUX/3	This specifies the audio bus assigned to the AUDIO OUT connectors (RCA).								
PHONES OUT	PGM/1 , PVW/2, AUX/3	This specifies the audio bus assigned to the PHONES connector.								
SDI OUT 1, 2	AUTO , PGM/1, PVW/2, AUX/3	This specifies the audio bus that is assigned to the SDI OUT 1 or 2 connector. When set to "AUTO," if you change the video bus assignment, the audio bus that is output also changes accordingly. <table border="1"> <thead> <tr> <th>Video bus</th> <th>Output audio</th> </tr> </thead> <tbody> <tr> <td>PGM/1</td> <td>This outputs the audio on the PGM/1 bus.</td> </tr> <tr> <td>PVW/2</td> <td>This outputs the audio on the PVW/2 bus.</td> </tr> <tr> <td>AUX/3</td> <td>This outputs the audio on the AUX/3 bus.</td> </tr> </tbody> </table>	Video bus	Output audio	PGM/1	This outputs the audio on the PGM/1 bus.	PVW/2	This outputs the audio on the PVW/2 bus.	AUX/3	This outputs the audio on the AUX/3 bus.
Video bus	Output audio									
PGM/1	This outputs the audio on the PGM/1 bus.									
PVW/2	This outputs the audio on the PVW/2 bus.									
AUX/3	This outputs the audio on the AUX/3 bus.									
HDMI OUT 1-3	AUTO , PGM/1, PVW/2, AUX/3	This specifies the audio bus that is assigned to the HDMI OUT 1, 2, or 3 connector. When set to "AUTO," if you change the video bus assignment, the audio bus that is output also changes accordingly.								
MASTER OUTPUT										
OUTPUT LEVEL	-INF -10.0dB	This adjusts the volume level for master out (PGM/1 bus).								
OUTPUT MUTE	OFF , ON	This sets the Mute feature on or off. Setting this to "ON" mutes master out (PGM/1 bus).								
EQUALIZER	OFF , ON	This sets the equalizer on or off. Effect Adjusts the sound quality for each frequency band.								
EQ Hi	-15.0- 0.0 -15.0dB	This boosts or attenuates the high band.								
EQ Hi FREQ	1.00- 10.0 -20.0kHz	This adjusts the center frequency when changing the tone quality in the high band.								
EQ Mid	-15.0- 0.0 -15.0dB	This boosts or attenuates the middle band.								
EQ Mid FREQ	20.0Hz- 500Hz -20.0kHz	This adjusts the center frequency when changing the tone quality in the middle band.								
EQ Mid Q	0.5- 1.0 -16.0	This adjusts the width of the frequency band when boosting or attenuating the middle band.								
EQ Lo	-15.0- 0.0 -15.0dB	This boosts or attenuates the low band.								
EQ Lo FREQ	20.0- 100 -500Hz	This adjusts the center frequency when changing the tone quality in the low band.								
MB COMP	OFF , ON	This switches the multi-band compressor on and off. Effect This applies separate compressors in the high, midrange, and low frequency bands.								
MB COMP H THLD	-40.0- -20.0 -0.0dB	These set the individual levels that become the thresholds for the high, midrange, and low bands at which the compressor is applied. Compression is applied to audio that exceeds the threshold.								
MB COMP M THLD	-40.0- -16.0 -0.0dB									
MB COMP L THLD	-40.0- -20.0 -0.0dB									
MB COMP H RATIO	1.00:1, 1.12:1, 1.25:1, 1.40:1, 1.60:1, 1.80:1, 2.00:1, 2.50:1, 3.20:1, 4.00:1, 5.60:1, 8.00:1, 16.0:1, INF:1	These set the amount of compression applied in the high, midrange, and low bands. If this is set to "1.00:1," compression is not applied.								
MB COMP M RATIO	The default values are as follows.									
MB COMP L RATIO	MB COMP H RATIO: 3.20:1 MB COMP H RATIO: 2.50:1 MB COMP H RATIO: 3.20:1									
LIMITER	OFF , ON	This sets the limiter on or off. Effect This limits the output volume so that it does not exceed the set level.								
LIMITER THLD	-40.0- -6.0 -0.0dB	This sets the level that becomes the threshold at which the limiter is applied. Compression is applied to audio that exceeds the threshold. The volume level of audio that is output is limited so as to stay below the threshold.								

Menu item	Value (bold text: default value)	Explanation
PVW		
PVW LEVEL	-INF- 0.0 -10.0dB	This adjusts the volume level for PVW/2 bus.
PVW MUTE	OFF , ON	This sets the Mute feature on or off. Setting this to "ON" mutes PVW/2 bus.
EQUALIZER	OFF , ON	This sets the equalizer on or off. Effect Adjusts the sound quality for each frequency band.
EQ Hi	-15.0- 0.0 -15.0dB	This boosts or attenuates the high band.
EQ Hi FREQ	1.00- 10.0 -20.0kHz	This adjusts the center frequency when changing the tone quality in the high band.
EQ Mid	-15.0- 0.0 -15.0dB	This boosts or attenuates the middle band.
EQ Mid FREQ	20.0Hz- 500Hz -20.0kHz	This adjusts the center frequency when changing the tone quality in the middle band.
EQ Mid Q	0.5- 1.0 -16.0	This adjusts the width of the frequency band when boosting or attenuating the middle band.
EQ Lo	-15.0- 0.0 -15.0dB	This boosts or attenuates the low band.
EQ Lo FREQ	20.0- 100 -500Hz	This adjusts the center frequency when changing the tone quality in the low band.
MB COMP	OFF , ON	This switches the multi-band compressor on and off. Effect This applies separate compressors in the high, midrange, and low frequency bands.
MB COMP H THLD	-40.0- -20.0 -0.0dB	These set the individual levels that become the thresholds for the high, midrange, and low bands at which the compressor is applied. Compression is applied to audio that exceeds the threshold.
MB COMP M THLD	-40.0- -16.0 -0.0dB	
MB COMP L THLD	-40.0- -20.0 -0.0dB	
MB COMP H RATIO	1.00:1, 1.12:1, 1.25:1, 1.40:1, 1.60:1, 1.80:1, 2.00:1, 2.50:1, 3.20:1, 4.00:1, 5.60:1, 8.00:1, 16.0:1, INF:1	These set the amount of compression applied in the high, midrange, and low bands. If this is set to "1.00:1," compression is not applied.
MB COMP M RATIO	The default values are as follows. MB COMP H RATIO: 3.20:1 MB COMP M RATIO: 2.50:1 MB COMP L RATIO: 3.20:1	
MB COMP L RATIO		
LIMITER	OFF , ON	This sets the limiter on or off. Effect This limits the output volume so that it does not exceed the set level.
LIMITER THLD	-40.0- -6.0 -0.0dB	This sets the level that becomes the threshold at which the limiter is applied. Compression is applied to audio that exceeds the threshold. The volume level of audio that is output is limited so as to stay below the threshold.
AUX		
AUX LEVEL	-INF- 0.0 -10.0dB	This adjusts the volume level of audio on the AUX/3 bus.
AUX MUTE	OFF , ON	This sets the Mute feature on or off. Setting this to "ON" mutes the AUX/3-bus audio.
AUX DELAY	0.0 -500ms (0.0 -29.9/25.0frame)	This adjusts the delay time of audio on the AUX/3 bus. Effect This outputs audio with a delay.
LIMITER	OFF , ON	This sets the limiter on or off. Effect This limits the output volume so that it does not exceed the set level.
LIMITER THLD	-40.0- -6.0 -0.0dB	This sets the level that becomes the threshold at which the limiter is applied. Compression is applied to audio that exceeds the threshold. The volume level of audio that is output is limited so as to stay below the threshold.
SEND SDI/HDMI IN	OFF , ON	When this is set to "ON," the audio of SDI IN or HDMI IN is sent to the AUX/3 bus.
SEND AUDIO IN 1-5/6	OFF , ON	When this is set to "ON," the audio of AUDIO IN 1-5/6 is sent to the AUX/3 bus.
FX AUDIO IN 1-5/6	This specifies the type of audio that is sent from each input to the AUX/3 bus.	
FX SDI IN 1-4	DRY	This sends the source audio with no effects applied.
FX HDMI IN 5, 6	WET	This sends the effect-applied audio.

8: AUDIO FOLLOW

Menu item	Value (bold text: default value)	Explanation
SDI IN 1–4 HDMI IN 5, 6	OFF , ON	This switches the Audio Follow feature on or off. Video channels for which this is set to “ON” are automatically muted when video on another channel is output.
AUDIO IN 1–5/6	OFF , SDI IN 1–4, HDMI IN 5, HDMI/ANLG IN 6, STL/BKG IN 7, STL/BKG IN 8	This sets the video channel to interlink with input audio using Audio Follow. Audio from AUDIO IN 1–AUDIO IN 5/6 is muted out for video channels other than what you specified. When this is set to “OFF,” no video channels using Audio Follow are assigned.

9: AUDIO EMBEDDED

Menu item	Value (bold text: default value)	Explanation
AUDIO IN 1–5/6	This specifies the type of input audio sent to the SDI embedded-audio channels (3–8). (*16)	
	OFF	No audio is sent.
	DRY	This sends the source audio with no effects applied.
	WET	This sends the effect-applied audio.
SDI OUT 1 AUDIO	CH1–2 , CH1–8	This specifies the embedded-audio channel that is output via the SDI OUT 1 connector.
SDI OUT 2 AUDIO	CH1–2 , CH1–8	This specifies the embedded-audio channel that is output via the SDI OUT 2 connector.

(*16) The audio shown below is assigned to the respective channels of SDI embedded audio.

SDI embedded-audio channel number	Assigned audio
Channel 1	The L-channel of the bus
Channel 2	The R-channel of the bus
Channel 3	AUDIO IN 1
Channel 4	AUDIO IN 2
Channel 5	AUDIO IN 3
Channel 6	AUDIO IN 4
Channel 7	AUDIO IN 5/L
Channel 8	AUDIO IN 6/R

10: AUDIO AUTO MIXING

Menu item	Value (bold text: default value)	Explanation
AUTO MIXING	OFF , ON	This switches the Auto Mixing feature on or off.
AUDIO IN 1–4 SW	OFF, ON	This specifies whether Auto Mixing is applied (ON) or not applied (OFF).
AUDIO IN 5/6 SW SDI IN 1–4 SW HDMI 5–6 SW	OFF , ON	
AUDIO IN 1–5/6 WT SDI IN 1–4 WT HDMI 5–6 WT	0– 100%	This sets the priority for volume-level distribution.

11: MODE

Menu item	Value (bold text: default value)	Explanation
MODE	This sets the operation mode for video transitions.	
	PGM-PST	You can select the preset video (the video to be output next) for the PVW/2 bus, and after checking that video, output it to the PGM/1 bus.
	DISSOLVE	You can select the video that you want to output, and immediately output it to the PGM/1 bus.
	MATRIX	You can individually select the video that is output to each bus (PGM/1, PVW/2, AUX/3 buses).

12: PRESET MEMORY

Menu item	Value (bold text: default value)	Explanation								
LOAD (*17)	MEMORY 1–8	This selects the preset memory to load. Pressing the [VALUE] knob lets you load the preset memory.								
SAVE	MEMORY 1–8	This selects a preset memory for saving settings. Pressing the [VALUE] knob lets you save the settings to the preset memory. * The state of the [FREEZE] button and [PHONES] knob are not saved to any preset memory. The [FREEZE] button is always dark at startup. * The state of the [SW MODE] button and the settings shown below are saved as global settings for the unit. They are not saved to preset memories.								
		<table border="1"> <thead> <tr> <th>Category</th> <th>Setting items saved in the unit</th> </tr> </thead> <tbody> <tr> <td>REMOTE</td> <td>All setting items except "CAM AF" and "CAM AE" * "CAM AF" and "CAM AE" are always set to "OFF" at startup.</td> </tr> <tr> <td>LAN CONTROL</td> <td>All menu items</td> </tr> <tr> <td>SYSTEM</td> <td>All setting items except "TEST PATTERN" and "TEST TONE" * "TEST PATTERN" and "TEST TONE" are always set to "OFF" at startup.</td> </tr> </tbody> </table>	Category	Setting items saved in the unit	REMOTE	All setting items except "CAM AF" and "CAM AE" * "CAM AF" and "CAM AE" are always set to "OFF" at startup.	LAN CONTROL	All menu items	SYSTEM	All setting items except "TEST PATTERN" and "TEST TONE" * "TEST PATTERN" and "TEST TONE" are always set to "OFF" at startup.
		Category	Setting items saved in the unit							
		REMOTE	All setting items except "CAM AF" and "CAM AE" * "CAM AF" and "CAM AE" are always set to "OFF" at startup.							
LAN CONTROL	All menu items									
SYSTEM	All setting items except "TEST PATTERN" and "TEST TONE" * "TEST PATTERN" and "TEST TONE" are always set to "OFF" at startup.									
DELETE	MEMORY 1–8	This selects a preset memory to delete. Pressing the [VALUE] knob lets you delete the preset memory.								
START UP	This specifies the settings loaded at startup.									
	LAST MEMORY	This restores the state that was in effect immediately before the power was turned off (Last Memory feature). The current settings (Last Memory values) are saved every 4 seconds, and when you exit a menu.								
	MEMORY 1–8	These recall the settings at the selected memory number.								
MEMORY PROTECT	OFF, ON	When this is set to "ON," the preset memories are protected, and settings cannot be saved to them.								
MEMORY LOAD FADE	OFF, ON	If this is "ON," a fade-in/out effect (black screen) is added when a preset memory is recalled. * If this is "OFF," the screen might become disordered depending on the content of the preset memory that is recalled.								

(*17) When the [SW MODE] button is lit in blue, the cross-point (upper row) [1]–[8] buttons function as shortcuts for loading to preset memories.

13: RS-232/GPIO

Menu item	Value (bold text: default value)	Explanation
RS-232	OFF, ON	Setting this to "ON" makes it possible to send and receive RS-232 commands.
RS-232 BAUDRATE	9600, 38400	This sets the communication speed (bps) of the RS-232 connector.
RS-232 PNL INFO	OFF , ON	If this is "ON," the response message for the stxQPL:7; command (p. 29) is output from the RS-232 connector and the CONTROL (LAN) connector when this unit's cross-point or other status changes.
GPI1-8 TYPE	This sets the function assigned to the GPI channel. * When a control signal is input from an external source, the assigned function is executed. The GPI trigger is fixed at the trailing edge (low: ON). For details, refer to "Inputting a Control Signal" (p. 21).	
	N/A	No function is assigned.
	PGM CH SEL 1-8	This switches the final output video.
	PST CH SEL 1-8	This switches the preset video (the video to be output next).
	MEMORY LOAD 1-8	This loads a preset memory.
	DSK SRC SEL 1-8	During DSK compositing, this switches the channel of the overlaid logo or image.
	MUTE AUDIO IN 1-5/6	This turns the INPUT MUTE function on/off.
	MUTE SDI IN 1-4	
	MUTE HDMI IN 5, 6	
	SOLO AUDIO IN 1-5/6	This turns the INPUT SOLO function on/off.
	SOLO SDI IN 1-4	
	SOLO HDMI IN 5, 6	
	AUTO SW	This automatically switches the video.
	CUT SW	This switches the video as a cut.
	DSK SW	This performs the same operation as pressing the [DSK] button.
	FREEZE SW	This performs the same operation as pressing the [FREEZE] button.
	AUTO MIXING SW	This performs the same operation as pressing the [AUTO MIXING] button.
AUX CH SEL 1-8	This switches the channel that is output to the AUX/3 bus.	
GPO1-4 TYPE	This sets the control method that is used when outputting GPO signals to an external device.	
	ONE SHOT	When you press a cross-point [1]-[4] button, a GPO signal is output for 0.5 seconds.
	ALT	Each time you press a cross-point [1]-[4] button, the GPO signal output turns on/off.

14: CAMERA CTRL

Menu item	Value (bold text: default value)	Explanation
CONNECTION	This sets how the camera to be remotely controlled is connected.	
	RS-422	A VISCA-compatible camera is connected to the RS-422 connector for remote control.
	LAN	A PTZ camera supporting LAN connection is connected to the CONTROL port (LAN) for remote control.

When CONNECTION is "RS-422" (p. 22)

Menu item	Value (bold text: default value)	Explanation
RS-422 BAUDRATE	9600 , 38400	This sets the communication speed (bps) of the RS-422 connector.
CAMERA ID	CAMERA1 –CAMERA7	This selects the camera to be controlled.
PAN (*18)	This adjusts the horizontal position of the camera. When the cursor is located at this value, you can control the camera.	
	LEFT	While you hold down the [VALUE] knob, the camera faces left.
	RIGHT	While you hold down the [VALUE] knob, the camera faces right.
TILT (*18)	This adjusts the vertical position of the camera. When the cursor is located at this value, you can control the camera.	
	DOWN	While you hold down the [VALUE] knob, the camera faces up.
	UP	While you hold down the [VALUE] knob, the camera faces down.
PAN/TILT SPEED	1–12 –24	This sets the speed of the pan and tilt operations.
ZOOM (*18)	This adjusts the camera's zoom position. When the cursor is located at this value, you can control the camera.	
	WIDE (FAST)	While you hold down the [VALUE] knob, the camera zooms-out at high speed.
	WIDE (SLOW)	While you hold down the [VALUE] knob, the camera zooms-out at low speed.
	TELE (SLOW)	While you hold down the [VALUE] knob, the camera zooms-in at low speed.
	TELE (FAST)	While you hold down the [VALUE] knob, the camera zooms-in at high speed.
FOCUS (*18) (*19)	This adjusts the focal point of the camera. When the cursor is located at this value, you can control the camera.	
	FAR	While you hold down the [VALUE] knob, the focal point moves farther away.
	NEAR	While you hold down the [VALUE] knob, the focus moves closer.
AUTO FOCUS (*20)	OFF, ON	When this is set to "ON," the focal point is set automatically.
BRIGHT (*18)(*21)	This adjusts the exposure (brightness) of the camera. When the cursor is located at this value, you can control the camera.	
	DOWN	While you hold down the [VALUE] knob, the image becomes brighter.
	UP	While you hold down the [VALUE] knob, the image becomes darker.
AUTO EXPOSURE (*20)	OFF, ON	If this is "ON," the exposure (brightness) is adjusted automatically.
MEMORY RECALL (*20) (*22)	MEMORY1–8	This selects a preset in which camera settings are preset. By pressing the [VALUE] knob you can recall a preset from the camera.
MEMORY STORE (*20)	MEMORY1–8	This selects the preset in which camera settings will be registered. By pressing the [VALUE] knob you can register the camera settings to a preset. * Presets are saved in the camera itself.
RESET	(EXEC)	Pressing the [VALUE] knob initializes the connection settings of the camera. If cameras are connected in a daisy-chain, the ID of each is reassigned starting with the camera that is closest to the XS-62S.

(*18) This is not initialized by factory reset.

(*19) This is available when "AUTO FOCUS" is set to "OFF."

(*20) The default value depends on the settings of the camera that you're using.

(*21) This is available when "AUTO EXPOSURE" is set to "OFF."

(*22) If the [SW MODE] button is lit pink, the cross-point (lower row), [PinP], and [DSK] buttons operate as shortcuts to recall presets.

When CONNECTION is “LAN” (p. 24)

Menu item	Value (bold text: default value)	Explanation
CAMERA ID	CAMERA 1-6	This selects the camera to be controlled.
PROTOCOL	N/A , JVC, Panasonic, Canon, VISCA over IP, PTZOptics, Avonic	This sets the camera’s protocol.
CAMERA IP ADRS	CAMERA 1: 192.168.2.101 CAMERA 2: 192.168.2.102 CAMERA 3: 192.168.2.103 CAMERA 4 : 192.168.2.104 CAMERA 5: 192.168.2.105 CAMERA 6: 192.168.2.106	Input the camera’s IP address.

When PROTOCOL = JVC, Panasonic, VISCA over IP, PTZOptics, or Avonic

LOGIN NAME	(ENTER)	The LOGIN NAME screen appears. Enter the log-in name needed to connect with the camera when “PROTOCOL” is “JVC.”
PASSWORD	(ENTER)	The PASSWORD screen appears. Enter the password needed to connect with the camera when “PROTOCOL” is “JVC.”
PAN (*23)	This adjusts the horizontal position of the camera. When the cursor is located at this value, you can control the camera.	
	LEFT	While you hold down the [VALUE] knob, the camera faces left.
	RIGHT	While you hold down the [VALUE] knob, the camera faces right.
TILT (*23)	This adjusts the vertical position of the camera. When the cursor is located at this value, you can control the camera.	
	DOWN	While you hold down the [VALUE] knob, the camera faces up.
	UP	While you hold down the [VALUE] knob, the camera faces down.
PAN/TILT SPEED	1- 12 -24	Adjusts the speed at which the camera changes direction.
ZOOM (*23)	This adjusts the camera’s zoom position. When the cursor is located at this value, you can control the camera.	
	WIDE (FAST)	While you hold down the [VALUE] knob, the camera zooms-out at high speed.
	WIDE (SLOW)	While you hold down the [VALUE] knob, the camera zooms-out at low speed.
	TELE (SLOW)	While you hold down the [VALUE] knob, the camera zooms-in at low speed.
	TELE (FAST)	While you hold down the [VALUE] knob, the camera zooms-in at high speed.
FOCUS (*23)(*24)	This adjusts the focal point of the camera. When the cursor is located at this value, you can control the camera.	
	FAR	While you hold down the [VALUE] knob, the focal point moves farther away.
	NEAR	While you hold down the [VALUE] knob, the focus moves closer.
AUTO FOCUS (*25)	OFF, ON	When this is set to “ON,” the focal point is set automatically.
EXPOSURE (*25)	AUTO, MANUAL	This sets the exposure mode.
TALLY CH	CH1 -6	This specifies the channel that is inputting the camera video. When the camera video from the XS-62S is the final output, the camera’s tally light is lit.
PRESET RECALL (*25)(*26)	PRESET 1-8	This selects a preset in which camera settings are preset. By pressing the [VALUE] knob you can recall a preset from the camera.
ALL CAMERAS	This specifies how presets are recalled.	
	OFF	Recall presets from the camera that is being controlled.
	ON	Simultaneously recall presets from all cameras (CAMERA 1-6).
PRESET STORE (*25)	PRESET 1-8	This selects the preset in which camera settings will be registered. By pressing the [VALUE] knob you can register the camera settings to a preset. * Presets are saved in the camera itself.

(*23) This is not initialized by factory reset.

(*24) This is available when “AUTO FOCUS” is set to “OFF.”

(*25) The default value depends on the settings of the camera that you’re using.

(*26) If the [SW MODE] button is lit pink, the cross-point (lower row), [PinP], and [DSK] buttons operate as shortcuts to recall presets.

Menu item	Value (bold text: default value)	Explanation
When PROTOCOL = Canon		
SD CARD SLOT (*27)	SD CARD A, SD CARD B	This specifies the SD card slot to use.
REC STATUS	—	This indicates the video recording status.
REMAIN TIME	—	This indicates the remaining available recording time.
WHITE BALANCE (*27)	AWB, DAYLIGHT, TUNGSTEN, PRESET 1, PRESET 2, COLOR TEMP	This specifies the white balance type.
WB TEMPERATURE (*27) (*28)	2000–15000K	This specifies the color temperature.
WB PRESET SET (*29)	(EXEC)	When you press the [VALUE] knob, the subject shown by the camera is captured as the reference white color.
ZOOM (*30)	This adjusts the camera's zoom position. When the cursor is located at this value, you can control the camera.	
	WIDE	While you hold down the [VALUE] knob, the camera zooms-out.
	TELE	While you hold down the [VALUE] knob, the camera zooms-in.
ZOOM POSITION (*27)	1–6	Adjusts the zoom position in the six levels of 1 (WIDE)–6 (TELE).
FOCUS (*30) (*31)	This adjusts the focal point of the camera. When the cursor is located at this value, you can control the camera.	
	FAR	While you hold down the [VALUE] knob, the focal point moves farther away.
	NEAR	While you hold down the [VALUE] knob, the focus moves closer.
AUTO FOCUS (*27)	OFF, ON	When this is set to "ON," the focal point is set automatically.
FOCUS GUIDE (*27)	OFF, ON	If this is "ON," a focus guide is shown.
EXPOSURE (*27)	AUTO, Tv, Av, MANUAL	This sets the exposure mode.
ND	(*32)	This specifies the type of ND filter.
IRIS	(*32)	This adjusts the aperture value.
SHUTTER	(*32)	This adjusts the shutter speed.
GAIN	(*32)	This adjusts the gain.
AE SHIFT	(*32)	This adjusts the amount of exposure compensation when using auto exposure.

(*27) The default value depends on the settings of the camera that you're using.

(*28) This is available when "WHITE BALANCE" is set to "COLOR TEMPERATURE."

(*29) This is available when "WHITE BALANCE" is set to "PRESET 1" or "PRESET 2."

(*30) This is not initialized by factory reset.

(*31) This is available when "AUTO FOCUS" is set to "OFF."

(*32) The values depend on the camera you're using.

15: LAN CONTROL

Menu item	Value (bold text: default value)	Explanation												
CONFIGURE	MANUALLY, USING DHCP	This sets whether the IP address and subnet mask are obtained automatically (USING DHCP) or set manually (MANUALLY).												
IP ADDRESS (*33)	192.168.2.254	This sets the IP address.												
SUBNET MASK (*33)	255.255.255.0	This sets the subnet mask.												
INFORMATION	(ENTER)	The LAN INFORMATION screen appears.												
		<table border="1"> <thead> <tr> <th>Indication</th> <th>Explanation</th> </tr> </thead> <tbody> <tr> <td>STATUS</td> <td>This displays the connection status.</td> </tr> <tr> <td>IP ADDRESS</td> <td>This displays the IP address.</td> </tr> <tr> <td>SUBNET MASK</td> <td>This displays the subnet mask.</td> </tr> <tr> <td>MAC ADDRESS</td> <td>This displays the MAC address.</td> </tr> <tr> <td>(QR code) (*34)</td> <td>This displays the URL of the IP address as a QR code.</td> </tr> </tbody> </table>	Indication	Explanation	STATUS	This displays the connection status.	IP ADDRESS	This displays the IP address.	SUBNET MASK	This displays the subnet mask.	MAC ADDRESS	This displays the MAC address.	(QR code) (*34)	This displays the URL of the IP address as a QR code.
		Indication	Explanation											
		STATUS	This displays the connection status.											
		IP ADDRESS	This displays the IP address.											
		SUBNET MASK	This displays the subnet mask.											
MAC ADDRESS	This displays the MAC address.													
(QR code) (*34)	This displays the URL of the IP address as a QR code.													

(*33) This is available when "CONFIGURE" is set to "MANUALLY."

(*34) QR Code is registered trademark of DENSO WAVE INCORPORATED in Japan and in other countries.

16: USB MEMORY

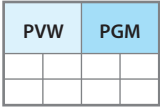
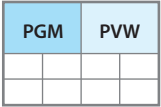
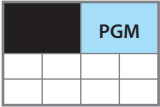
Menu item	Value (bold text: default value)	Explanation								
LOAD PRESET	(ENTER)	The USB LOAD screen appears. This loads a settings file (.X62) that is on the USB flash drive into the unit.								
SAVE PRESET	(ENTER)	The USB SAVE screen appears. This saves settings, overwriting the selected settings file (.X62) on the USB flash drive.								
SAVE AS PRESET	(ENTER)	The USB SAVE AS screen appears. This newly saves the unit's settings to the USB flash drive as a single file (.X62). * Any still images that have been imported into the unit are not saved in the file.								
LOAD STILL IMAGE	STILL IMAGE 1 STILL IMAGE 2	When you are importing a still image that is on a USB flash drive, this specifies the memory to use as the destination for saving the image on the unit. Pressing the [VALUE] knob lets you import the still image. * A "*" symbol is displayed for memory where a still image is already saved. File format of the still images that can be loaded <table border="1"> <tbody> <tr> <td rowspan="3">Format</td> <td>Bitmap file (.bmp), 24-bit color, uncompressed</td> </tr> <tr> <td>PNG file (.png), 24-bit color * Alpha channel is not supported.</td> </tr> <tr> <td>JPG file (.jpg), 24-bit color</td> </tr> <tr> <td>Resolution</td> <td>In conformity with system format</td> </tr> <tr> <td>File name</td> <td>Up to eight single-byte alphanumeric characters * The extension ".bmp",".png," or ".jpg" must be added.</td> </tr> </tbody> </table>	Format	Bitmap file (.bmp), 24-bit color, uncompressed	PNG file (.png), 24-bit color * Alpha channel is not supported.	JPG file (.jpg), 24-bit color	Resolution	In conformity with system format	File name	Up to eight single-byte alphanumeric characters * The extension ".bmp",".png," or ".jpg" must be added.
Format	Bitmap file (.bmp), 24-bit color, uncompressed									
	PNG file (.png), 24-bit color * Alpha channel is not supported.									
	JPG file (.jpg), 24-bit color									
Resolution	In conformity with system format									
File name	Up to eight single-byte alphanumeric characters * The extension ".bmp",".png," or ".jpg" must be added.									
SAVE STILL IMAGE	STILL IMAGE 1 STILL IMAGE 2	Press the [VALUE] knob to access the SAVE STILL IMAGE screen. The still image captured from the input/output video is exported to a USB flash drive. * A "*" symbol is displayed for memory where a still image is saved. * The file formats of the still images that can be saved are the same as in "File format of the still images that can be loaded," above.								
FORMAT	(EXEC)	This formats the USB flash drive.								

17: CAPTURE IMAGE

Menu item	Value (bold text: default value)	Explanation
CAPTURE SOURCE	INPUT 1–6 , PROGRAM	This specifies the input video to use for still-image capture.
TARGET STORAGE NO	STILL IMAGE 1 STILL IMAGE 2	This selects the memory to use as the destination for saving the captured still image. * A "*" symbol is displayed for memory where a still image is already saved.
CAPTURE EXECUTE	(EXEC)	This captures a still image. * Capture is not possible if the [FREEZE] button is on.
CAPTURE SHORTCUT	DISABLE , ENABLE	Enables (ENABLE) or disables (DISABLE) still image capture by button operations. If this is set to "ENABLE," you can capture a still image by long-pressing a cross-point [1]–[6] button. * Capture by button operations is possible only when the [SW MODE] button is lit orange. Save-destination for still image Operate the upper row of cross-point buttons: STILL IMAGE 1 Operate the lower row of cross-point buttons: STILL IMAGE 2

18: SYSTEM

Menu item	Value (bold text: default value)	Explanation														
HDCP	OFF , ON	This specifies whether HDCP is enabled (ON) or disabled (OFF). When set to "ON," copyright-protected (HDCP) video can be input. HDCP is also added to the video that is output. When "HDCP" is set to "ON," no video is output via the SDI OUT connectors.														
FRAME RATE	59.94Hz , 50Hz	This sets the frame rate.														
SYSTEM FORMAT	720p, 1080i , 1080p	This specifies the system format for the XS-62S. The input and output formats of the respective connectors are determined according to the system format, as shown in the table below. <table border="1"> <thead> <tr> <th rowspan="2">System format</th> <th>Input format</th> <th>Output format</th> </tr> <tr> <th>SDI IN 1–4 connectors</th> <th>SDI OUT 1 and 2 connectors HDMI OUT 1 and 2 connectors</th> </tr> </thead> <tbody> <tr> <td>1080p</td> <td>1080p, 1080i</td> <td>1080p</td> </tr> <tr> <td>1080i</td> <td>1080p, 1080i</td> <td>1080i</td> </tr> <tr> <td>720p</td> <td>720p</td> <td>720p</td> </tr> </tbody> </table> The input format of the HDMI IN 5 connector is set independently by the "EDID" value for "HDMI IN 5" (p. 3), regardless of the system format. The input format of the HDMI IN 6 connector or RGB/COMPONENT IN 6 connector is set independently by the "EDID" value for "HDMI/ANLG IN 6" (p. 4), regardless of the system format. * If OUTPUT ASSIGN (p. 4) is set to "MULTI-VIEW" for the HDMI OUT 3 connector, the output format is fixed at "1080p."	System format	Input format	Output format	SDI IN 1–4 connectors	SDI OUT 1 and 2 connectors HDMI OUT 1 and 2 connectors	1080p	1080p, 1080i	1080p	1080i	1080p, 1080i	1080i	720p	720p	720p
System format	Input format	Output format														
	SDI IN 1–4 connectors	SDI OUT 1 and 2 connectors HDMI OUT 1 and 2 connectors														
1080p	1080p, 1080i	1080p														
1080i	1080p, 1080i	1080i														
720p	720p	720p														
AUTO SCAN	OFF , ON	This sets the Auto Scan function on or off. When this is set to "ON," channels 1 through 8 are switched automatically.														
AUTO SCAN TIME	(ENTER)	The SCAN TIME menu items shown.														
	<table border="1"> <thead> <tr> <th>Menu item</th> <th>Value</th> <th>Explanation</th> </tr> </thead> <tbody> <tr> <td>SDI IN 1–SDI IN 4, HDMI IN 5, HDMI/ANLG IN 6</td> <td>OFF, 0–5–120sec</td> <td rowspan="2">Specifies the length of time that a video is shown when using auto scan. If this is "OFF," video switching does not apply to that source.</td> </tr> <tr> <td>STILL/BKG IN 7, 8</td> <td>OFF, 0–120sec</td> </tr> </tbody> </table>	Menu item	Value	Explanation	SDI IN 1–SDI IN 4, HDMI IN 5, HDMI/ANLG IN 6	OFF, 0–5–120sec	Specifies the length of time that a video is shown when using auto scan. If this is "OFF," video switching does not apply to that source.	STILL/BKG IN 7, 8	OFF , 0–120sec							
Menu item	Value	Explanation														
SDI IN 1–SDI IN 4, HDMI IN 5, HDMI/ANLG IN 6	OFF, 0–5–120sec	Specifies the length of time that a video is shown when using auto scan. If this is "OFF," video switching does not apply to that source.														
STILL/BKG IN 7, 8	OFF , 0–120sec															
SCAN TRANS TIME	0.0– 1.0 –4.0sec	This specifies the length of the transition between video channels when using auto scan.														
AUTO SCAN SEQ	NORMAL RANDOM	This specifies the order in which video channels are shown when using auto scan. Switch sequentially in the order of channels 1–8. Switch randomly.														
MENU CONTEXT	OFF, ON	If this is "ON," the menu screen is switched to follow the operation of the controllers. * The controllers relevant to this function are the AUDIO MIXER [1]–[5/6] knobs, the cross-point [1]–[8] buttons, the [PinP] button, and the [DSK] button.														
AUX LINKED PGM	OFF AUTO LINK MANUAL LINK	This specifies whether the same video as the PGM/1 bus is sent to the AUX/3 bus (AUX link). When the [SW MODE] button is lighted in green, use the cross-point buttons (upper row) to select the video of the AUX/3 bus. AUX link is enabled, and the same video as the PGM/1 bus is sent to the AUX/3 bus. Temporarily disabling AUX link When the [SW MODE] button is lit green, pressing a cross-point button (upper line) enables the video of the selected AUX/3 bus. Re-enabling AUX link AUTO LINK: When you operate the [TAKE] button etc. to switch the video of the PGM/1 bus, AUX link is automatically enabled. MANUAL LINK: When the [SW MODE] button is lit green, pressing the selected (lit) cross-point button (upper line) enables AUX link.														
TEST PATTERN	OFF , 75% COLOR BAR, 100% COLOR BAR, RAMP, STEP, HATCH	This specifies the test pattern.														
TEST TONE	OFF -20dB@1kHz : 1kHz -10dB@1kHz : 1kHz 0dB@1kHz : 1kHz -20dB@1kHz : 400Hz -10dB@1kHz : 400Hz 0dB@1kHz : 400Hz	This specifies the test tone.														

Menu item	Value (bold text: default value)	Explanation	
PANEL LOCK	(ENTER)	The PANEL LOCK menu items shown.	
	These specify whether panel lock is applied (ON) or not applied (OFF) for each individual button and knob.		
	Menu item	Value	Explanation
	MENU + EXIT	OFF , ON	[MENU] and [EXIT] buttons
	VALUE	OFF , ON	[VALUE] knob
	CROSS POINT	OFF , ON	Cross-point [1]–[8] buttons * This is valid when the [SW MODE] button is set to PGM/PST (yellow) or AUX (green).
	SW MODE	OFF , ON	[SW MODE] button
	FREEZE	OFF , ON	[FREEZE] button
	PinP	OFF , ON	[PinP] button
	DSK	OFF , ON	[DSK] button
	TAKE	OFF , ON	[TAKE] button
	AUTO MIXING SW	OFF , ON	[AUTO MIXING] button
	CH VOLUME	OFF , ON	AUDIO MIXER [1]–[5/6] knobs
MASTER VOLUME	OFF , ON	[MASTER] knob	
Press and hold the [EXIT] button and the [MENU] button at the same time (for 3 seconds or longer) to turn on panel lock. Buttons and knobs for which panel lock is applied (ON) are locked.			
LCD BACKLIGHT	OFF, AUTO OFF, ON	This illuminates (ON) or darkens (OFF) the backlight for the built-in display. If this is set to "AUTO OFF," the backlight of the unit's display automatically goes dark when ten seconds have elapsed without any operation occurring.	
LCD CONTRAST	0– 10 –20	This adjusts the contrast for the built-in display.	
LED DIMMER	0– 7	This adjusts the brightness of the LEDs. * When this is set to "0," the LEDs are not completely dark.	
MULTI-VIEW LABEL (*35)	OFF, ON	When this is set to "ON," labels are displayed on the multi-view monitor.	
MULTI-VIEW TALLY (*35)	OFF, ON	When this is set to "ON," a tally border is displayed on the multi-view monitor. An AUX symbol is also displayed for the video channel selected as the video on the AUX/3 bus.	
LEVEL METER (*35)	OFF, ON	When this is set to "ON," an audio level meter is displayed on the multi-view monitor. An A.F symbol is also displayed for video channels for which Audio Follow is turned on.	
ON SCREEN MENU (*35)	OFF, UPPER LEFT , UPPER RIGHT, LOWER LEFT, LOWER RIGHT	This specifies the location of the OSD menu displayed on the multi-view monitor. When this is set to "OFF," the OSD menu is always hidden.	
MV LAYOUT	This specifies whether the same video as the PGM/1 bus is sent to the AUX/3 bus (AUX link).		
	PVW.PGM	PGM.PVW	BLACK.PGM
			
			PGM.BLACK
		The PVW section is not shown.	The PVW section is not shown.
MV LABEL EDIT	IN1 SDI –IN4 SDI, IN5 HDMI, IN6 HDMI, IN6 RGB, IN6 COMPOSITE, STILL1, STILL2, PGM/1, PVW/2	Press the [VALUE] knob to access the MV LABEL EDIT screen. Here you can edit the label name in the multi-view monitor.	
DELETE STILL	STILL IMAGE 1 STILL IMAGE 2	This selects the memory whose still image is to be deleted. Pressing the [VALUE] knob lets you delete the still image. * A "*" symbol is displayed for memory where a still image is already saved.	
AUTO OFF	OFF, ON	This sets the Auto Off function on or off. The power to the XS-62S turns off automatically when all of the following states persist for 240 minutes. <ul style="list-style-type: none"> No operation performed on the XS-62S No audio or video input No equipment is connected to the HDMI OUT connectors 	
FACTORY RESET	(EXEC)	This returns the unit to its factory defaults.	
VERSION	—	This displays the version of the system program.	

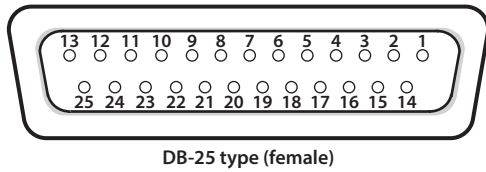
(*35) This is valid when the HDMI OUT 3 connector's OUTPUT ASSIGN (p. 4) is set to something other than "MULTI-VIEW"

Control Using the TALLY/GPIO Connector

In addition to tally signal output functionality, control signal input/output functionality is also provided, allowing you to transmit or receive control signals to or from an external device.

Specification of the TALLY/GPI Connector

Pin layout



Tally output

Trigger method	Open collector
Maximum input	12 V/200 mA

Control input

Trigger method	No-voltage contact (make-contact) triggering
Contact capacity	DC 24 V 0.1 A or higher
Input method	Photocoupler

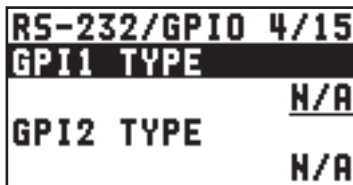
Pin assignments

Pin No.	Function	Pin No.	Function
1	TALLY 1 PGM	14	GPO 2
2	TALLY 1 PST	15	GPO 3
3	TALLY 2 PGM	16	GPO 4
4	TALLY 2 PST	17	GND
5	TALLY 3 PGM	18	GPI 1
6	TALLY 3 PST	19	GPI 2
7	TALLY 4 PGM	20	GPI 3
8	TALLY 4 PST	21	GPI 4
9	TALLY 5 PGM	22	GPI 5
10	TALLY 5 PST	23	GPI 6
11	TALLY 6 PGM	24	GPI 7
12	TALLY 6 PST	25	GPI 8
13	GPO 1		

Inputting a Control Signal

To operate the XS-62S remotely using control-signal input, you first assign the function to a GPI channel (1 through 8).

1. Select the [MENU] button → “RS-232/GPIO” → “GPI 1 TYPE” through “GPI 8 TYPE.”



2. Use the [VALUE] knob to select the function to assign to the GPI channel, and press the [VALUE] knob to confirm.

Value	Explanation
N/A	No function is assigned.
PGM CH SEL 1–8	This switches the final output video.
PST CH SEL 1–8	This switches the preset video.
MEMORY LOAD 1–8	This loads a preset memory.
DSK SRC SEL 1–8	During DSK compositing, this switches the channel of the overlaid logo or image.
MUTE AUDIO IN 1 : MUTE HDMI IN 6	This turns the INPUT MUTE function on/off.
SOLO AUDIO IN 1 : MUTE HDMI IN 6	This turns the INPUT SOLO function on/off.
AUTO SW	This automatically switches the video.
CUT SW	This switches the video as a cut.
DSK SW	This performs the same operation as pressing the [DSK] button.
FREEZE SW	This performs the same operation as pressing the [FREEZE] button.
AUTO MIXING SW	This performs the same operation as pressing the [AUTO MIXING] button.
AUX CH SEL 1–8	This switches the channel that is output to the AUX/3 bus.

3. Press the [MENU] button to quit the menu.

When a control signal is input from an external source, the assigned function is executed. The GPI trigger is fixed at the trailing edge (low: ON).

Outputting Tally Signals or Control Signals

Tally signals or GPO control signals can be output from the TALLY/GPIO connector.

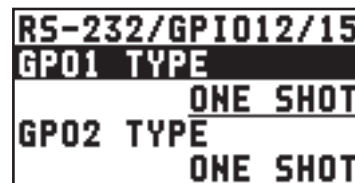
Outputting a Tally Signal

A tally signal is output from the connector pin corresponding to the video channel being output, also including video composition and transition effects.

Outputting a GPO Signal

By switching [SW MODE] to GPO/CAMERA mode, you can output control signals by operating cross-point buttons [1]–[4].

1. Select the [MENU] button → “RS-232/GPIO” → “GPO 1 TYPE” through “GPO 8 TYPE.”



2. Use the [VALUE] knob to select the operating mode of the GPO channel, and press the [VALUE] knob to confirm.

Value	Explanation
ONE SHOT	When you press a cross-point [1]–[4] button, a GPO signal is output for 0.5 seconds.
ALT	Each time you press a cross-point [1]–[4] button, the GPO signal output turns on/off.

3. Press the [MENU] button to quit the menu.

Remotely Controlling a Camera

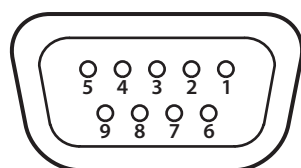
Control of a VISCA-compatible Video Camera

A VISCA-compatible video camera can be connected to the RS-422 connector, and remotely controlled from the XS-62S.

- * VISCA is sometimes indicated as “standard protocol.”
- * Depending on the specifications of the camera, some functionality might be unavailable.
- * VISCA is a protocol developed by Sony for controlling a consumer’s camcorder. “VISCA” is a trademark of Sony Corporation.
- * Refer also to the owner’s manual of your camera.

RS-422 Connector Specifications

Pin Layout



DB-9 type (female)

Pin Assign

Pin no.	Signal name
1	GND
2	TxD+
3	RxD-
4	GND
5	NC
6	GND
7	TxD-
8	RxD+
9	GND

Communication standards

Communication method	Synchronous (asynchronous), full-duplex
Communication speed	9,600/38,400 bps (Set this according to the status of communication with the cameras.)
Parity	None
Data length	8 bits
Stop bit length	1 bit
Flow control	None

Connecting a Camera

You use the RS-422 connector to operate a camera.

Connect the pins of the XS-62S’s RS-422 connector and the pins for the camera as shown below.

XS-62S	Camera
TxD+	RxD IN+
TxD-	RxD IN-
GND	GND
RxD+	TxD IN+
RxD-	TxD IN-

Making Communication Settings for the Camera

Here’s how to make settings for communication between the XS-62S and the camera so that the camera can be controlled from the XS-62S. You can register up to seven cameras.

1. Select the [MENU] button → “CAMERA CTRL” → “CONNECTION.”



2. Use the [VALUE] knob to select “RS-422,” and press the [VALUE] knob to confirm.
3. Select “RS-422 BAUDRATE.”
4. Use the [VALUE] knob to select the communication rate that’s appropriate for the communication status of the camera, and press the [VALUE] knob to confirm.
5. Choose “RESET” and press the [VALUE] knob.
A confirmation message appears.
If you want to cancel the operation, press the [EXIT] button.
6. Use the [VALUE] knob to select “YES,” and then press the [VALUE] knob.
Starting with the closest camera that is connected to the XS-62S, the ID is consecutively assigned as CAMERA1, CAMERA2, CAMERA3, ...
7. Press the [MENU] button to quit the menu.

Connecting Multiple Cameras (Daisy-chain Connection)

The XS-62S supports daisy-chain connections. If the cameras also support daisy-chain connections, you can operate up to 7 cameras from a single XS-62S unit. Connect the pins of the RS-422 connector on the XS-62S to the cameras as shown below.

XS-62S	Camera 1	Camera 2	Camera 7
TxD+	RxD IN+ / TxD OUT+	RxD IN+ / TxD OUT+	RxD IN+
TxD-	RxD IN- / TxD OUT-	RxD IN- / TxD OUT-	RxD IN-
GND	GND / GND	GND / GND	GND
RxD+	TxD IN+ / RxD OUT+	TxD IN+ / RxD OUT+	TxD IN+
RxD-	TxD IN- / RxD OUT-	TxD IN- / RxD OUT-	TxD IN-

Registering Camera Settings in a Preset

Up to eight sets of settings such as camera position and focus can be registered as presets.

A registered preset can be recalled when needed.

* Presets are saved in the camera itself.

1. Select the [MENU] button → “CAMERA CTRL” → “CAMERA ID.”



2. Use the [VALUE] knob to select the camera that you want to control, and press the [VALUE] knob to confirm.
3. Select a menu item, and use the [VALUE] knob to control the camera's setting.

Menu item	Explanation
PAN	Adjusts the horizontal position of the camera. (*1)
TILT	Adjusts the vertical position of the camera. (*1)
PAN/TILT SPEED	Adjusts the speed at which the camera changes direction.
ZOOM	Adjusts the camera's zoom position. (*1)
FOCUS	Adjusts the focal point of the camera. (*1)
AUTO FOCUS	When this is set to “ON,” the focal point is set automatically.
BRIGHT	Adjusts the exposure (brightness) of the camera.
AUTO EXPOSURE	If this is “ON,” the exposure (brightness) is adjusted automatically.

(*1) You can control the camera while holding down the [VALUE] knob.

4. Press the [VALUE] knob to apply the setting.
5. Select “MEMORY STORE.”



6. Use the [VALUE] knob to select the preset (1–8) in which you want to register the settings, and press the [VALUE] knob.

A confirmation message appears.

If you want to cancel the operation, press the [EXIT] button

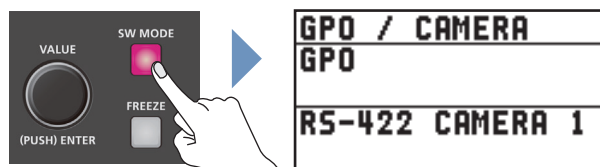
7. Use the [VALUE] knob to select “YES,” and then press the [VALUE] knob.

The camera settings are registered in the preset.

8. Press the [MENU] button to quit the menu.

Recalling a Preset

1. Press the [SW MODE] button several times to make it light pink.



The unit is in GPO/CAMERA mode.

2. Use the [VALUE] knob to change the “RS-422 CAMERA” number, and select the camera for which you want to recall a preset.
3. Press the cross-point (lower line), [PinP], or [DSK] button corresponding to the preset number whose settings you want to recall.

Presets 1–8 are assigned to these buttons.



Preset number

The preset recalled from the camera.

4. To exit GPO/CAMERA mode, press the [SW MODE] button several times to make it light in a color other than pink.

Controlling a LAN-Connected Video Camera

You can connect up to six cameras via the CONTROL port (LAN) and remotely control them from the XS-62S. This allows you to control cameras made by JVC, Panasonic, Canon, PTZOptics, and Avonic, and cameras that support VISCA over IP (such as Sony).
 * Refer also to the owner's manual of your camera.

Network Settings on the Camera

In order to control a camera from the XS-62S, you need to make network settings on the camera. You can register up to six cameras.

1. Select the [MENU] button → "CAMERA CTRL" → "CONNECTION."



2. Use the [VALUE] knob to select "LAN," and press the [VALUE] knob to confirm.
3. Select the menu item, and use the [VALUE] knob to make network settings.



Menu item	Explanation
CAMERA ID	Selects the camera to be controlled.
PROTOCOL	Specifies the camera's protocol. JVC camera: JVC Panasonic camera: Panasonic Canon camera: Canon Cameras that support VISCA over IP (such as Sony): VISCA over IP PTZOptics camera: PTZOptics Avonic camera: Avonic
CAMERA IP ADRS	Input the camera's IP address.
LOGIN NAME	When "PROTOCOL" is "JVC" Press the [VALUE] knob to display the LOGIN NAME screen. Enter the log-in name needed to connect with the camera.
PASSWORD	When "PROTOCOL" is "JVC" Press the [VALUE] knob to display the PASSWORD screen. Enter the password needed to connect with the camera.

4. Press the [VALUE] knob to apply the setting.
5. Press the [MENU] button to quit the menu.

Controlling a Canon Camera

Here's how to control the settings of the connected camera from the XS-62S.

1. Select the [MENU] button → "CAMERA CTRL" → "CAMERA ID."



2. Use the [VALUE] knob to select the camera that you want to control, and press the [VALUE] knob to confirm.
3. Select a menu item, and use the [VALUE] knob to control the camera's setting.

Menu item	Explanation
SD CARD SLOT	Specifies the SD card slot to use.
REC STATUS	Indicates the video recording status.
REMAIN TIME	Indicates the remaining available recording time.
WHITE BALANCE	Specifies the white balance type.
WB TEMPERATURE (*1)	Specifies the color temperature.
WB PRESET SET (*2)	When you press the [VALUE] knob, the subject shown by the camera is captured as the reference white color.
ZOOM	Adjusts the camera's zoom position. (*3)
ZOOM POSITION	Adjusts the zoom position in six stages.
FOCUS	Adjusts the focal point of the camera. (*3)
AUTO FOCUS	When this is set to "ON," the focal point is set automatically.
FOCUS GUIDE	If this is "ON," a focus guide is shown.
EXPOSURE	Sets the exposure mode.
ND	Specifies the type of ND filter.
IRIS	Adjusts the aperture value.
SHUTTER	Adjusts the shutter speed.
GAIN	Adjusts the gain.
AE SHIFT	Adjusts the amount of exposure compensation when using auto exposure.

(*1) This can be set if "WHITE BALANCE" is "COLOR TEMPERATURE"
 (*2) This can be set if "WHITE BALANCE" is "PRESET 1" or "PRESET 2."
 (*3) You can control the camera while holding down the [VALUE] knob.

4. Press the [VALUE] knob to apply the setting.
5. Press the [MENU] button to quit the menu.

Controlling a JVC/Panasonic/PTZOptics/Avonic Camera or a Camera That Supports VISCA over IP

Registering Camera Settings in a Preset

Up to eight sets of settings such as camera position and focus can be registered as presets.

A registered preset can be recalled when needed.

* Presets are saved in the camera itself.

1. Select the [MENU] button → “CAMERA CTRL” → “CAMERA ID.”



2. Use the [VALUE] knob to select the camera that you want to control, and press the [VALUE] knob to confirm.
3. Select a menu item, and use the [VALUE] knob to control the camera's setting.

Menu item	Explanation
PAN	Adjusts the horizontal position of the camera. (*1)
TILT	Adjusts the vertical position of the camera. (*1)
PAN/TILT SPEED	Adjusts the speed at which the camera changes direction.
ZOOM	Adjusts the camera's zoom position. (*1)
FOCUS	Adjusts the focal point of the camera. (*1)
AUTO FOCUS	When this is set to “ON,” the focal point is set automatically.
EXPOSURE	Sets the exposure mode.
TALLY CH	Specifies the channel that is inputting the camera video. When the camera video from the XS-62S is the final output, the camera's tally light is lit.

(*1) You can control the camera while holding down the [VALUE] knob.

4. Press the [VALUE] knob to apply the setting.
5. Select “PRESET STORE.”



6. Use the [VALUE] knob to select the preset (1–8) in which you want to register the settings, and press the [VALUE] knob.

A confirmation message appears.

If you want to cancel the operation, press the [EXIT] button

7. Use the [VALUE] knob to select “YES,” then press the [VALUE] knob.

The camera settings are registered in the preset.

8. Press the [MENU] button to quit the menu.

Recalling a Preset

<Recalling from a Single Camera>

1. Select the [MENU] button → “CAMERA CTRL” → set “ALL CAMERAS” to “OFF.”
2. Press the [SW MODE] button several times to make it light pink.



The unit is in GPO/CAMERA mode.

3. Use the [VALUE] knob to change the “LAN CAMERA” number, and select the camera for which you want to recall a preset.
4. Press the cross-point (lower line), [PinP], or [DSK] button corresponding to the preset number whose settings you want to recall.

Presets 1–8 are assigned to these buttons.



Preset number

The preset recalled from the camera.

5. To exit GPO/CAMERA mode, press the [SW MODE] button several times to make it light in a color other than pink.

<Recalling from All Cameras Simultaneously>

1. Select the [MENU] button → “CAMERA CTRL” → set “ALL CAMERAS” to “ON.”
2. Press the [SW MODE] button several times to make it light pink.



The unit is in GPO/CAMERA mode.

3. Press the cross-point (lower line), [PinP], or [DSK] button corresponding to the preset number whose settings you want to recall.
- Presets are recalled from all cameras simultaneously.
4. To exit GPO/CAMERA mode, press the [SW MODE] button several times to make it light in a color other than pink.

LAN/RS-232 Command Reference

XS-62S support two types of remote-interface communication: LAN and RS-232. Using the CONTROL port (LAN) or RS-232 connector to send specific commands to the XS-62S from a controlling device lets you operate the XS-62S remotely.

LAN Interface

This uses the CONTROL port on the XS-62S.

You use Telnet to operate the XS-62S remotely over a LAN (TCP/IP protocol).

Communication standards

Connector	CONTROL port (LAN)
Protocol	TCP
Port number	8023

Setting the IP address of the XS-62S

1. Select the [MENU] button → "LAN CONTROL."
2. Select a menu item, then use the [VALUE] knob to set the IP address.



Menu item	Explanation
CONFIGURE	This sets whether the IP address and subnet mask are obtained automatically (USING DHCP) or set manually (MANUALLY).
IP ADDRESS	This sets the IP address when "CONFIGURE" is set to "MANUALLY". Set this in accordance with the connected network.
SUBNET MASK	This sets the subnet mask when "CONFIGURE" is set to "MANUALLY". Set this in accordance with the connected network.

3. Press the [VALUE] knob to apply the setting.
4. Press the [MENU] button to quit the menu.

Verifying the LAN information

1. Select the [MENU] button → "LAN CONTROL" → "INFORMATION."
2. With the cursor positioned at "ENTER," press the [VALUE] knob.

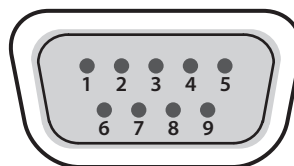
You can check and verify the following information.

Indication	Explanation
STATUS	This displays the connection status.
IP ADDRESS	This displays the IP address.
SUBNET MASK	This displays the subnet mask.
MAC ADDRESS	This displays the MAC address.

3. Press the [MENU] button to quit the menu.

RS-232 Interface

RS-232 connector pin layout



DB-9 type (male)

Pin assignments

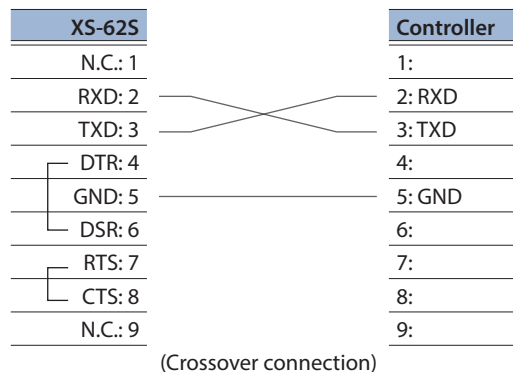
Pin no.	Signal name
1	N.C.
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	N.C.

Communication standards

Communication method	Synchronous (asynchronous), full-duplex
Communication speed	9,600/38,400 bps
Parity	None
Data length	8 bits
Stop bit length	1 bit
Code set	ASCII
Flow control	XON/XOFF

Cable wiring diagram

Use an RS-232 crossover cable to connect the XS-62S and the controller (an RS-232-compatible computer or other device).



* The connections between 4 and 6 and between 7 and 8 are inside the XS-62S.

Command Format

Commands are formatted using the configuration shown below. Commands are all in ASCII code.

stx	Command code	:	Parameter	,	Parameter	;
stx	ASCII code "02H" is a control code indicating the start of a command. "H" indicates that it is a hexadecimal value.					
Command code	This specifies the command type (3 letters of the alphabet).					
Parameter	This is appended to a command that requires one or more parameter. The command and the parameter portion are separated by a ":" (colon). When there are multiple parameters, they are each separated by "," (comma) characters.					
;	This is the code that the XS-62S recognizes as the end of a command.					

* The codes of stx (02H), ACK (06H), and XON (11H)/ XOFF (13H) are the control codes.

List of Commands

* When sending a sequence of commands to the XS-625 from a controller, after each one, be sure to verify that an "ACK" response is returned before sending the next command.

Video-related operations

Item	Sent command	Response command	Parameter
Select channel for PGM/1	stxPGM:a;	ACK	a 0 (SDI IN 1), 1 (SDI IN 2), 2 (SDI IN 3), 3 (SDI IN 4), 4 (HDMI IN 5), 5 (HDMI/ANLG IN 6), 6 (STL/BKG IN 7), 7 (STL/BKG IN 8)
Select channel for PVW/2	stxPST:a;	ACK	a: 0 (SDI IN 1), 1 (SDI IN 2), 2 (SDI IN 3), 3 (SDI IN 4), 4 (HDMI IN 5), 5 (HDMI/ANLG IN 6), 6 (STILL/BKG IN 7), 7 (STILL/BKG IN 8)
Select channel for AUX/3	stxAUX:a;	ACK	a 0 (SDI IN 1), 1 (SDI IN 2), 2 (SDI IN 3), 3 (SDI IN 4), 4 (HDMI IN 5), 5 (HDMI/ANLG IN 6), 6 (STILL/BKG IN 7), 7 (STILL/BKG IN 8)
Select transition effect	stxTRS:a;	ACK	a 0 (MIX), 1 (MIX), 2 (WIPE)
Set video transition time	stxTIM:a;	ACK	a 0 (0.0 sec)–40 (4.0 sec)
Use a cut to transition video	stxCUT;	ACK	–
Press the [TAKE] button	stxTAK;	ACK	–
Set the [PinP] button on/off	stxPPS:a;	ACK	a 0 (OFF), 1 (PVW ON), 2 (PGM ON)
Set SPLIT on/off	stxSPS:a;	ACK	a 0 (OFF), 1 (PVW ON), 2 (PGM ON)
Set DSK on/off	stxDSK:a;	ACK	0 (OFF), 1 (ON)
Preview the DSK composited result in the multi-view monitor	stxDVW:a;	ACK	0 (OFF), 1 (ON)
Set the [AUTO MIXING] button on/off	stxATM:a;	ACK	0 (OFF), 1 (ON)
Set the [FREEZE] button on/off	stxFRZ:a;	ACK	0 (OFF), 1 (ON)
Verify the state of a video output channel	stxQVC:a;	stxQVC:a,b; ACK	a 0 (PGM/1), 1 (PVW/2), 2 (AUX/3) b 0–7
Set the EDID	stxEDD:a,b;	ACK	a 0 (HDMI IN 5), 1 (HDMI IN 6), 2 (RGB IN 6) b 0 (INTERNAL), 1 (SVGA), 2 (XGA), 3 (WXGA), 4 (FWXGA), 5 (SXGA), 6 (SXGA+), 7 (UXGA), 8 (WUXGA), 9 (720p), 10 (1080i), 11 (1080p) * When a=2 (RGB IN 6), you can select 0–8.
Input scaling type setting	stxVIA:a,b;	ACK	a 0 (HDMI IN 5), 1 (HDMI IN 6), 2 (RGB IN 6) b 0 (FULL), 1 (LETTERBOX), 2 (CROP), 3 (DOT BY DOT), 4 (MANUAL)
Resolution setting for scaler out	stxVOR:a;	ACK	a 0 (480p, 576p), 1 (720p), 2 (1080p), 3 (SVGA), 4 (XGA), 5 (WXGA), 6 (SXGA), 7 (FWXGA), 8 (SXGA+), 9 (UXGA), 10 (WUXGA)
Verify the state of the scaler out resolution	stxQVR;	stxQVR:a; ACK	a 0 (480p, 576p), 1 (720p), 2 (1080p), 3 (SVGA), 4 (XGA), 5 (WXGA), 6 (SXGA), 7 (FWXGA), 8 (SXGA+), 9 (UXGA), 10 (WUXGA)
Scaling type of scaler out setting	stxVOA:a;	ACK	a 0 (FULL), 1 (LETTERBOX), 2 (CROP), 3 (DOT BY DOT), 4 (MANUAL)
Select the color space for the HDMI output	stxVOC:a,b;	ACK	a 0 (HDMI OUT 1), 1 (HDMI OUT 2), 2 (HDMI OUT 3) b 0 (YCC), 1 (RGB LMT), 2 (RGB FULL)
Set the signal type for the HDMI output	stxVOD:a,b;	ACK	a 0 (HDMI OUT 1), 1 (HDMI OUT 2), 2 (HDMI OUT 3) b 0 (DVI-D), 1 (HDMI)
When using PinP compositing, adjust the display position of the video	stxPIP:a,b;	ACK	a –450–450 (Horizontal position) b –400–400 (Vertical position)

Item	Sent command	Response command	Parameter	
During split composition, adjust the display position of the video	stxSPT:a;b;	ACK	When the split composition pattern is "V-CENTER" This adjusts the display position in the horizontal direction.	
			a	-250–250 final output video (video on the left)
			b	-250–250 preset video (video on the right)
			When the split composition pattern is "H-CENTER" This adjusts the display position in the vertical direction	
			a	-250–250 final output video (upper video)
			b	-250–250 preset video (lower video)
During DSK composition, set the channel of the overlaid logo or image	stxDSS:a;	ACK	a 0 (SDI IN 1), 1 (SDI IN 2), 2 (SDI IN 3), 3 (SDI IN 4), 4 (HDMI IN 5), 5 (HDMI/ANLG IN 6), 6 (STILL/BKG IN 7), 7 (STILL/BKG IN 8)	
Adjust the key level (amount of extraction) for DSK composition	stxKYL:a;	ACK	a 0–255	
Adjust the key gain (semi-transmissive region) for DSK composition	stxKYG:a;	ACK	a 0–255	
Select input connector for channel 6	stxIPS:a;	ACK	a 0 (HDMI), 1 (RGB/COMPONENT)	
Query the input connector of video channel 6	stxQIP;	stxQIP:a; ACK	a 0 (HDMI), 1 (RGB/COMPONENT), 2 (COMPOSITE)	
Set the bus assigned to the video output connector	stxVOS:a;	ACK	a 0 (PGM), 1 (PVW), 2 (AUX)	
Query the bus assigned to the video output connector	stxQVS:a;	stxQVS:a;b; ACK	a 0 (SDI OUT 1), 1 (SDI OUT 2), 2 (HDMI OUT 1), 3 (HDMI OUT 2), 4 (HDMI OUT 3)	
			b 0 (PGM), 1 (PVW), 2 (AUX), 3 (MULTI-VIEW, HDMI OUT 3 only)	

Audio-related operations

Item	Sent command	Response command	Parameter
Adjust input volume level for PGM/1 bus audio	stxIL1:a;b;	ACK	a 0 (AUDIO IN 1), 1 (AUDIO IN 2), 2 (AUDIO IN 3), 3 (AUDIO IN 4), 4 (AUDIO IN 5/6), 5 (SDI IN 1), 6 (SDI IN 2), 7 (SDI IN 3), 8 (SDI IN 4), 9 (HDMI IN 5), 10 (HDMI IN 6)
			b -801 (-INF dB), -800 (-80.0dB)–0 (0.0dB)–100 (10.0dB)
Adjust input volume level for PVW/2 bus audio	stxIL2:a;	ACK	a 0 (AUDIO IN 1), 1 (AUDIO IN 2), 2 (AUDIO IN 3), 3 (AUDIO IN 4), 4 (AUDIO IN 5/6), 5 (SDI IN 1), 6 (SDI IN 2), 7 (SDI IN 3), 8 (SDI IN 4), 9 (HDMI IN 5), 10 (HDMI IN 6)
			b -801 (-INF dB), -800 (-80.0dB)–0 (0.0dB)–100 (10.0dB)
Adjust output volume level for master out	stxOL1:a;	ACK	-801 (-INF dB), -800 (-80.0dB)–0 (0.0dB)–100 (10.0dB)
Adjust output volume level for PVW/2 bus audio	stxOL2:a;	ACK	a -801 (-INF dB), -800 (-80.0dB)–0 (0.0dB)–100 (10.0dB)
Adjust output volume level for AUX/3 bus audio	stxOL3:a;	ACK	a -801 (-INF dB), -800 (-80.0dB)–0 (0.0dB)–100 (10.0dB)
Adjust delay time of input audio	stxADT:a;b;	ACK	a 0 (AUDIO IN 1), 1 (AUDIO IN 2), 2 (AUDIO IN 3), 3 (AUDIO IN 4), 4 (AUDIO IN 5/6)
			b 0 (0.0 fps)–120 (12.0 fps)
Acquire information on volume level	stxQAL:a;	stxQAL:b; ACK	a 0 (AUDIO IN 1), 1 (AUDIO IN 2), 2 (AUDIO IN 3), 3 (AUDIO IN 4), 4 (AUDIO IN 5/6), 5 (SDI IN 1), 6 (SDI IN 2), 7 (SDI IN 3), 8 (SDI IN 4), 9 (HDMI IN 5), 10 (HDMI IN 6), 11 (MASTER OUT), 12 (PVW/2), 13 (AUX/3), 14 (ALL)
			b -801 (-INF dB), -800 (-80.0dB)–0 (0.0dB)–100 (10.0dB) When a=14, sends all volume levels. Example: QAL:-801, 80, 70, 60, 50, 40, 30, 20, 100, 80, 70, 60, 50;
Assign the bus for an audio output connector	stxAOS:a;b;	ACK	a 0 (AUDIO OUT XLR), 1 (AUDIO OUT RCA), 2 (PHONES)
			b 0 (PGM/1), 1 (PVW/2), 2 (AUX/3)

Item	Sent command	Response command	Parameter
Query the state of the bus for an audio output connector	stxQAS:a;	stxQAS:a,b; ACK	a 0 (AUDIO OUT XLR), 1 (AUDIO OUT RCA), 2 (PHONES)
			b 0 (PGM/1), 1 (PVW/2), 2 (AUX/3)
Specify the mute function for input audio	stxIAM:a,b;	ACK	a 0 (AUDIO IN 1), 1 (AUDIO IN 2), 2 (AUDIO IN 3), 3 (AUDIO IN 4), 4 (AUDIO IN 5/6), 5 (SDI IN 1), 6 (SDI IN 2), 7 (SDI IN 3), 8 (SDI IN 4), 9 (HDMI IN 5), 10 (HDMI IN 6)
			b 0 (OFF), 1 (ON)
Specify the solo function for input audio	stxIAS:a,b;	ACK	a 0 (AUDIO IN 1), 1 (AUDIO IN 2), 2 (AUDIO IN 3), 3 (AUDIO IN 4), 4 (AUDIO IN 5/6), 5 (SDI IN 1), 6 (SDI IN 2), 7 (SDI IN 3), 8 (SDI IN 4), 9 (HDMI IN 5), 10 (HDMI IN 6)
			b 0 (OFF), 1 (ON)

System-related operations

Item	Sent command	Response command	Parameter	
Set HDCP on/off	stxHCP:a;	ACK	a 0 (OFF), 1 (ON)	
Set test pattern	stxTPT:a;	ACK	a 0 (OFF), 1 (75% COLOR BAR), 2 (100% COLOR BAR), 3 (RAMP), 4 (STEP), 5 (HATCH)	
Set test tone	stxTTN:a;	ACK	a 0 (OFF), 1 (-20dB@1kHz : 1kHz), 2 (-10dB@1kHz : 1kHz), 3 (0dB@1kHz : 1kHz), 4 (-20dB@1kHz : 400Hz), 5 (-10dB@1kHz : 400Hz), 6 (0dB@1kHz : 400Hz)	
Call up preset memory	stxMEM:a;	ACK	a 0 (1), 1 (2), 2 (3), 3 (4), 4 (5), 5 (6), 6 (7), 7 (8)	
Acquire status of the operating panel buttons	stxQPL:a;	stxQPL:b;	a 0 (PGM/1), 1 (PVW/2), 2 (AUX/3), 3 ([PinP] button / [SPLIT] button), 4 ([DSK] button), 5 ([FREEZE] button), 6 (Video fade level), 7 (ALL)	
			When a=0–2	0 (CH 1)–7 (CH 8)
			When a=3	0 (OFF), 1 ([PinP] button), 2 ([SPLIT] button)
			When a=4 or 5	0 (OFF), 1 (ON)
			When a=6	0–2047
GPO output	stxGPO:a,b;	ACK	a 0 (GPO1), 1 (GPO2), 2 (GPO3), 3 (GPO4)	
			b	When GPO TYPE is set to "ONE SHOT" 1 (Output) When GPO TYPE is set to "ALT" 0 (OFF), 1 (ON)
Operation mode for video transition	stxMOD:a;	ACK	a 0 (PGM-PST), 1 (DISSOLVE), 2 (MATRIX)	
Camera control	stxCAM:a,b;	ACK	a 0–6 (ID)	
			b 0 (MEMORY1), 1 (MEMORY2), 2 (MEMORY3), 3 (MEMORY4), 4 (MEMORY5), 5 (MEMORY6), 6 (MEMORY7), 7 (MEMORY8)	
Acquire cross-point status	stxTLY;	stxTLY:a,b,...,h; ACK	a–h 0 (Dark), 1 (Red), 2 (Green) Returns the cross-point status of channels 1–8. Example: TLY:1, 2, 0, 0, 0, 0, 0, 0;	
Version information	stxVER;	stxVER:a; ACK	a (The version info is ASCII text strings.)	
Acquire status of XS-62S	stxACS;	ACK	–	

Commands spontaneously sent from the XS-62S

Item	Sent command	Response command	Parameter
Error detected	–	stxERR:a;	a 0 (syntax error, The received command contains an error.) 4 (invalid, This has no effect because it is controlled by another setting.) 5 (out of range error, An argument of the received command is out of range.)
Flow control	XON	–	–
Flow control	XOFF	–	–

Limitations in each Operating Mode

Depending on the video switching operation mode, there are limitations on the video and audio that can be output, and on the operations that can be performed.

Output Video Buses and Audio Buses

Item	Operation mode	PGM-PST	DISSOLVE	MATRIX
Output PGM/1 video bus		✓	✓	✓
Output PVW/2 video bus		✓	The same video as the PGM/1 bus is output.	✓
Output AUX/3 video bus		✓	✓	✓
Output PGM/1 audio bus		✓	✓	✓
Output PVW/2 audio bus		The input/output levels are linked with the PGM/1 bus.	The same audio as the PGM/1 bus is output.	✓
Output AUX/3 audio bus		✓	✓	✓

Operation Panel

Item	Operation mode	PGM-PST	DISSOLVE	MATRIX
Composition (PinP, SPLIT)		✓	✓	-
DSK		✓	✓	-
Video transition (mix, wipe)		✓	✓	Transition by fade-to-black.

Video-related commands

Item	Operation mode Sent command	PGM-PST	DISSOLVE	MATRIX
Select channel for PGM/1	stxPGM:a;	✓	Immediately transits the video when the preset video channel is selected.	Transition by fade-to-black.
Select channel for PVW/2	stxPST:a;	✓	Returns an error (stxERR:4;).	Transition by fade-to-black.
Select channel for AUX/3	stxAUX:a;	✓	✓	Transition by fade-to-black.
Select transition effect	stxTRS:a;	✓	✓	Transition by cut or by fade-to-black.
Set video transition time	stxTIM:a;	✓	✓	This sets the fade-to-black time.
Use a cut to transition video	stxCUT;	✓	Returns an error (stxERR:4;).	Returns an error (stxERR:4;).
Press the [TAKE] button	stxTAK;	✓	Returns an error (stxERR:4;).	Returns an error (stxERR:4;).
Set the [PinP] button on/off	stxPPS:a;	✓	✓	Returns an error (stxERR:4;).
Set SPLIT on/off	stxSPS:a;	✓	✓	Returns an error (stxERR:4;).
Set DSK on/off	stxDSK:a;	✓	✓	Returns an error (stxERR:4;).
Preview the DSK composited result in the multi-view monitor	stxDVW:a;	✓	✓	Returns an error (stxERR:4;).
Set the [AUTO MIXING] button on/off	stxATM:a;	✓	✓	✓
Set the [FREEZE] button on/off	stxFRZ:a;	✓	✓	✓
Verify the state of a video output channel	stxQVC:a;	✓	✓	✓
Set the EDID	stxEDD:a,b;	✓	✓	✓
Input scaling type setting	stxVIA:a,b;	✓	✓	✓
Resolution setting for scaler out	stxVOR:a;	✓	✓	✓

* Returns an error (stxERR:4;) if the HDMI OUT 3 connector's "OUTPUT ASSIGN" (p. 4) is set to "MULTI-VIEW."

Item	Operation mode		PGM-PST	DISSOLVE	MATRIX
	Sent command				
Verify the state of the scaler out resolution	stxQVR;		✓	✓	✓
Scaling type of scaler out setting	stxVOA:a;		✓	✓	✓
Select the color space for the HDMI output	stxVOC:a,b;		✓	✓	✓
Set the signal type for the HDMI output	stxVOD:a,b;		✓	✓	✓
When using PinP compositing, adjust the display position of the video	stxPIP:a,b;		✓	✓	Returns an error (stxERR:4;).
When using SPLIT compositing, adjust the display position of the video	stxSPT:a,b;		✓	✓	Returns an error (stxERR:4;).
When using DSK compositing, set the channel of the layered text or images	stxDSS:a;		✓	✓	Returns an error (stxERR:4;).
Adjust the degree of extraction (transparency) for the key	stxKYL:a;		✓	✓	Returns an error (stxERR:4;).
Adjust the degree of edge blur (semi-transmissive region) for the key	stxKYG:a;		✓	✓	Returns an error (stxERR:4;).
Select the input connector for video channel 6	stxIPS:a;		✓	✓	✓
Query the state of the input connector for video channel 6	stxQIP;		✓	✓	✓
Assign the bus for a video output connector	stxVOS:a,b;		✓	✓	✓
Query the state of the bus for a video output connector	stxQVS:a;		✓	✓	✓

Audio-related commands

Item	Operation mode		PGM-PST	DISSOLVE	MATRIX
	Sent command				
Adjust input volume level for PGM/1 bus	stxIL1:a,b;		✓	✓	✓
Adjust input volume level for PVW/2 bus	stxIL2:a,b;		The input level of the PGM/1 bus is also adjusted simultaneously.	Returns an error (stxERR:4;).	✓
Adjust volume level for master out	stxOL1:a;		✓	✓	✓
Adjust volume level for PVW/2 bus	stxOL2:a;		The input level of the PGM/1 bus is also adjusted simultaneously.	Returns an error (stxERR:4;).	✓
Adjust volume level for AUX/3 bus	stxOL3:a;		✓	✓	✓
Adjust delay time of input audio	stxADT:a,b;		✓	✓	✓
Acquire information on volume level	stxQAL:a;		✓	✓	✓
Assign the bus for an audio output connector	stxAOS:a,b;		✓	✓	✓
Query the state of the bus for an audio output connector	stxQAS:a;		✓	✓	✓

Limitations in each Operating Mode

System-related commands

Item	Operation mode		GM-PST	DISSOLVE	MATRIX
	Sent command				
Set HDCP on/off	stxHCP;a;		✓	✓	✓
Call up preset memory	stxMEM;a;		✓	✓	✓
		* Returns an error (stxERR:5) if an unsaved memory is recalled.			
GPO output	stxGPO;a,b;		✓	✓	✓
Operation mode for video transition	stxMOD;a;		✓	✓	✓
Camera control	stxCAM;a,b;		✓	✓	✓
Version information	stxVER;		✓	✓	✓
Acquire status of XS-62S	stxACS;		✓	✓	✓

Commands spontaneously sent from the XS-62S

Item	Operation mode		PGM-PST	DISSOLVE	MATRIX
	Sent command				
Error detected			✓	✓	✓
Flow control	stxXON;		✓	✓	✓
Flow control	stxXOFF;		✓	✓	✓

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