

AV mixer A-PRO-4 Version2.0 Reference Manual



This manual details the functions and specifications of the A-PRO-4.

For information on product usage, please refer to the Start Up Manual.

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Onscreen menu

Screen names and operation





Output video: PVW output

Display method

1

2

Connect the MultiView output from other equipment before turning on the power.

→ Start Up Manual Refer to Connecting to a video output connector Refer to Turning on the power.

Press the MENU ENTER button.

Onscreen menu is displayed.

Refer to the parameter list for information on setting content and items.

Top Panel



Remote set-up

USB remote software

System requirements

	Windows	Мас
OS	Windows10 (32bit/64bit)	OS X 10.11 (El Capitan) or later
CPU	As per OS configuration	As per OS configuration
Memory	As per OS configuration	As per OS configuration
Free hard disk space	2MB min.	20MB min.
USB port	USB 2.0 or 3.0	USB 2.0 or 3.0
Resolution	1024 x 768 or higher	1280 x 800 or higher



Refer to the Start Up Manual for information on connecting the mixer to the PC. Start Up Manual Refer to Other connections



When connecting to A-PRO-4 Ver.2.0, please use MS-USB-RS for Win Ver.1.0.0.4 or later and MS-USB-RS for Mac Ver.1.06 (1) or later.

Installation

Refer to the parameter list for information on setting content and items.

Refer to P.12 Parameter list

Windows

Download the USB remote application for Windows from our website. http://www.atvcorporation.com/en/products/videos/a-pro-4/support.html



Unpack the downloaded ZIP file to any directory.

Move the unpacked file to the desired directory.

3

Run MS-USB-RS.exe. USB remote program will run.

(The "exe" extension may not display on your machine.)



Depending on how your computer is set up, the first time you launch MS-USB-RS it may be terminated with an error message saying the PC is protected by Windows. In this case, select the file and right-click to select "Run."

Мас

Download the USB remote application for Mac OS X from our website.

http://www.atvcorporation.com/en/products/videos/a-pro-4/support.html

2

Unpack the downloaded DMG file to any directory.

Move the unpacked file to the desired directory.

3 Run MS-USB-RS.app.

USB remote program will run.

(The "app" extension may not display on your machine.)



Depending on how your Mac is set up, the first time you launch MS-USB-RS it may be terminated with an error message reading "MS-USB-RS" can't be opened because it is from an unidentified developer." In this case, depress the "control" key and click "Open." The system will ask for your verification to run the program. This procedure is only needed the first time you run the program.

Screen names and operation

All screens shown are for Windows.

Menu screen



Parameter Setting screen



Software Update screen



Network remote

System requirements

	Supported browsers
Windows	Google Chrome Version 50.0 for Windows Microsoft Internet Explorer for Windows 7 Version 11.0 Microsoft Edge for Windows 10 Version 25
Mac	Apple Safari for OS X Version 9.0.3



Refer to the Start Up Manual for information on connection the device to the network. Start Up Manual Refer to Other connections

Browser connection

2

Use a browser on a PC running on the same network.

Connect the browser to the device using the IP address (http://192.168.1.1).

The network remote set-up screen will be displayed.

If the device is not displayed, check the network connections and IP address.

Refer to P.28 IP Adress Start Up Manual Refer to Other connections

Refer to the parameter list for information on setting content and items.

Screen names and operation

All screens shown are for Windows.

Version display/Parameter save/reset screen



Parameter Setting screen



Parameter

Parameter list

InputX (SDI)

InputX(SDI) 1/3

	Parameter name	Range	Unit	Remarks
For	mat	[InHsize]x[InVsize]/[InFrameRate][i/P/sF]		Displays the input signal format.
LOS Threshold		0,, 5 ,,10		Sets the threshold for loss-of-signal action. The lower the value the higher the sensitivity, and the higher the value the better the system will resist noise.
AOI		RESET		Sets the effective region for the input video. The area outside this region is masked in black. Press reset to restore the initial value.
	H size	0,,[InHsize]	pixel	Sets effective region width.
	V size	0,,[InVsize]	line	Sets effective region height.
	H position	0,,[InHsize]-1	pixel	Sets effective region horizontal position.
	V position	0,,[InVsize]-1	line	Sets effective region vertical position.
Input Position		RESET		Adjusts the input video position. Press reset to restore the initial value.
	H position	-2048,, 0 ,,2048	pixel	Adjusts the input video horizontal position. *2
	V position	-1200,, 0 ,,1200	line	Adjusts the input video vertical position. *2

*2 Adjustment is limited by the effective region.

InputX (SDI) 2/3

Parameter name		Range	Unit	Remarks
Color Correct		RESET		Adjusts the input video color. Press reset to restore the initial value.
	Brightness	0,, 100 ,,200	%	Adjusts the brightness.
	Contrast	0,, 100 ,,200	%	Adjusts the contrast.
	Saturation	0,, 100 ,,200	%	Adjusts the saturation.
	Red Brightness	0,, 100 ,,200	%	Adjusts the black balance (red).
	Green Brightness	0,, 100 ,,200	%	Adjusts the black balance (green).
	Blue Brightness	0,, 100 ,,200	%	Adjusts the black balance (blue).
	Red Contrast	0,, 100 ,,200	%	Adjusts the white balance (red).
	Green Contrast	0,, 100 ,,200	%	Adjusts the white balance (green).
	Blue Contrast	0,, 100 ,,200	%	Adjusts the white balance (blue).

InputX (SDI) 3/3

	Parameter name	Range	Unit	Remarks
Audio				
	Audio Follow	Off, On		Selects the audio selection method. Off: Output at the set mixing level at all times. On: Output at the set mixing level only when a video is selected.
	Channel Level	-INF,, 0.0 ,,+6.0	dB	Displays the mixing level set with the AUDIO LEVEL fader on the top panel.
	Channel Select	1+2,,15+16, 1(MONO),, 16(MONO)		Selects channels from multi-channel (1–16).

Input3 (HDMI)

Input3 (HDMI) 1/3

	Parameter name	Range	Unit	Remarks
For	nat	[InHsize]x[InVsize]/[InFrameRate][i/P/sF]		Displays the input signal format.
HDN	/Il Color	Auto,RGB(Full),RGB(Limit),YCC(SD),YCC (HD)		Input color space can be set to auto-detect or a specific setting.
LOS Threshold		0,, 5 ,,10		Sets the threshold for loss-of-signal action. The lower the value the higher the sensitivity, and the higher the value the better the system will resist noise.
AOI		RESET		Sets the effective region for the input video. The area outside this region is masked in black. Press reset to restore the initial value.
	H size	0,,[InHsize]	pixel	Sets effective region width.
	V size	0,,[InVsize]	line	Sets effective region height.
	H position	0,,[InHsize]-1	pixel	Sets effective region horizontal position.
	V position	0,,[InVsize]-1	line	Sets effective region vertical position.
Input Position		RESET		Adjusts the input video position. Press reset to restore the initial value.
	H position	-2048,, 0 ,,2048	pixel	Adjusts the input video horizontal position. *2
	V position	-1200,, 0 ,,1200	line	Adjusts the input video vertical position. *2

*2 Adjustment is limited by the effective region.

Input3 (HDMI) 2/3

	Parameter name	Range	Unit	Remarks
Color Correct		RESET		Adjusts the input video color.
				Press reset to restore the initial value.
	Brightness	0,, 100 ,,200	%	Adjusts the brightness.
	Contrast	0,, 100 ,,200	%	Adjusts the contrast.
	Saturation	0,, 100 ,,200	%	Adjusts the saturation.
	Red Brightness	0,, 100 ,,200	%	Adjusts the black balance (red).
	Green Brightness	0,, 100 ,,200	%	Adjusts the black balance (green).
	Blue Brightness	0,, 100 ,,200	%	Adjusts the black balance (blue).
	Red Contrast	0,, 100 ,,200	%	Adjusts the white balance (red).
	Green Contrast	0,, 100 ,,200	%	Adjusts the white balance (green).
	Blue Contrast	0,, 100 ,,200	%	Adjusts the white balance (blue).

Input3 (HDMI) 3/3

Parameter name		Range	Unit	Remarks
Audio				
	Audio Follow	Off, On		Selects the audio selection method. Off: Output at the set mixing level at all times. On: Output at the set mixing level only when a video is selected.
	Channel Level	-INF,, 0.0 ,,+6.0	dB	Displays the mixing level set with the AUDIO LEVEL fader on the top panel.
	Channel Select	1+2 ,,7+8, 1(MONO),, 8(MONO)		Selects channels from multi-channel (1–8).

Input4 (HDMI/VIDEO)

Input4 (HDMI/VIDEO) 1/4

Parameter name		Parameter name	Range	Unit	Remarks
Format			[InHsize]x[InVsize]/[InFrameRate][i/P/sF]		Displays the input signal format.
HDMI Color		or	Auto,RGB(Full),RGB(Limit),YCC(SD),YCC (HD)		Input color space can be set to auto-detect or a specific setting.
NTS	C Sef	tup Level	0IRE,7.5IRE		Selects the NTSC set-up level.
LOS	3 Thre	shold	0,,5,,10 0,,5,1		Sets the threshold for loss-of-signal action. The lower the value the higher the sensitivity, and the higher the value the better the system will resist noise.
	Format Fix		Off,On		When on, input format detection is disabled and the input format fixed. EDID is rewritten for Fix Format.
		Fix Format	2K/59p/50p/29p/25p/24p/23p,1080/59p/50 p/29p/25p/24p/23p, 1080/59i /50i,720/ 59p/50p,480/59p, 76/50p,480/59i,576/50i		Format Fix=On: EDID is rewritten to this value. Format Fix=Off: EDID is rewritten to a general-use value.
AOI			RESET		Sets the input video effective region. Video outside this region will be stripped. Press reset to restore the initial value.
H size		ze	0,,[InHsize]	pixel	Sets effective region width. *1
	V siz	2e	0,, [InVsize]	line	Sets effective region height. *1
	Н ро	sition	0,,[InHsize]-1	pixel	Sets effective region horizontal position.
	V po	sition	0,,[InVsize]-1	line	Sets effective region vertical position.

*1 The maximum zoom is 12 times of the total processed pixel equivalent.

The minimum zoom is 1/12th of the total processed pixel equivalent.

Input4 (HDMI/VIDEO) 2/4

Parameter name	Range	Unit	Remarks
Scaling	RESET		Sets the input video scale. Press reset to restore the initial value.
Scaling Type	Full,Box,Crop,Thru, Manual		 Sets the input video aspect ratio. Full: Input/output aspect ratios are ignored, and full-screen video is used. Box: Depending on differences between input and output aspect ratios, there is an area masked in black. Crop: The aspect ratio is preserved and part of the input video is cropped. Thru: Output without scaling. Manual: Adjust scaling independently horizontal and vertical.
Manual H Scale	10,, 100 ,,1000	%	Adjust horizontal scaling when setting Manual. *1
Manual V Scale	10,, 100 ,,1000	%	Adjust vertical scaling when setting Manual. *1
Zoom	10,, 100 ,,1000	%	Sets the scale (magnification) for input video. *1
H position	-2048,, 0 ,,2048	pixel	Adjusts the input video horizontal position. *2
V position	-1200,, 0 ,,1200	line	Adjusts the input video vertical position. *2

*1 The maximum zoom is 12 times of the total processed pixel equivalent. The minimum zoom is 1/12th of the total processed pixel equivalent.

*2 Adjustment is limited by the effective region.

Input4 (HDMI/VIDEO) 3/4

	Parameter name	Range	Unit	Remarks
Color Correct		RESET		Adjusts the input video color. Press reset to restore the initial value.
	Brightness	0,, 100 ,,200	%	Adjusts the brightness.
	Contrast	0,, 100 ,,200	%	Adjusts the contrast.
	Saturation	0,, 100 ,,200	%	Adjusts the saturation.
	Red Brightness	0,, 100 ,,200	%	Adjusts the black balance (red).
	Green Brightness	0,, 100 ,,200	%	Adjusts the black balance (green).
	Blue Brightness	0,, 100 ,,200	%	Adjusts the black balance (blue).
	Red Contrast	0,, 100 ,,200	%	Adjusts the white balance (red).
	Green Contrast	0,, 100 ,,200	%	Adjusts the white balance (green).
	Blue Contrast	0,, 100 ,,200	%	Adjusts the white balance (blue).

Input4 (HDMI/VIDEO) 4/4

	Parameter name	Range	Unit	Remarks
Aud	dio			
	Audio Follow	Off, On		Selects the audio selection method. Off: Output at the set mixing level at all times. On: Output at the set mixing level only when a video is selected.
	Channel Level	-INF,, 0.0 ,,+6.0	dB	Displays the mixing level set with the AUDIO LEVEL fader on the top panel.
	Channel Select	1+2 ,,7+8, 1(MONO),, 8(MONO)		Selects channels from multi-channel (1–8). Disabled when composite input selected.

Ext Audio Input MENU

Parameter name	Range	Unit	Remarks
Stereo	Mono,Stereo		Sets whether the AUDIO IN connector is monaural or stereo.
Mode	Audio Input,GPI Input1-4,GPI Output1-4		Sets GPI/AUDIO IN connector function: Audio Input: Used as the audio input connector. GPI Input 1-4: Used as GPI input connector 1-4. OPEN and CLOSE pulsewidths must be at least 100 ms. GPI Output 1-4: Used as GPI output connector 1-4. Current 20 mA max., external supply +5 V. * Left-ch tip is GPI1 and ring is GPI2, right-ch tip is GPI3 and ring is GPI4. GPI1 IN: VIDEO INPUT SELECT1 button GPI2 OUT: INPUT 1 PGM (red) tally GPI2 IN: VIDEO INPUT SELECT2 button GPI3 IN: VIDEO INPUT SELECT3 button GPI3 OUT: INPUT 3 PGM (red) tally GPI3 IN: VIDEO INPUT SELECT4 button GPI4 IN: VIDEO INPUT SELECT4 button GPI4 OUT: INPUT 4 PGM (red) tally
Input Gain	-13.50,, 0.00, ,33.75	dB	Adjusts AUDIO IN connector input gain. Recommended settings: North America: 0.0dB (+4dBu=-20dBFS) Europe: 6dB (+0dBu=-18dBFS) Private broadcasting: 12dB (-10dBV=-20dBFS) Sets the video input to be synched with the audio from the AUDIO IN
Audio Follow	Off,IN1,IN2,IN3,IN4		connector. Off: Always output as set mixing level. IN1-4: Output as the set mixing level when the set input is selected.
Channel Level	-INF,, 0.0 ,,6.0	dB	Displays the audio mixing level for the AUDIO IN connector. Set with the EXT INPUT knob on the front panel.
Input Impedance	Hi-Z,600ohms		Sets the input impedance for the AUDIO IN connector.

Mix/Process MENU

Mix/Process MENU 1/3

	Parameter name	Range	Unit	Remarks
Trar	nsition	Mix,Wipe		Sets transition type.
Wip	e			
	Туре	LtoR,,RtoL, TtoB, BtoT, LTtoRB, RTtoLB, LBtoRT, RBtoLT, CtoLR, CtoTB, LRtoC, TBtoC, CtoLR,TB, LRTBtoC		Sets wipe motion. L mean Left, R mean Right, T mean Top, B mean Bottom, and C mean Center.
	Edge	0 ,,100		Sets wipe edge sharpness.

Mix/Process MENU 2/3

	Parameter name	Range	Unit	Remarks
PinF				
	Size	10,, 30 ,,100	%	Sets size of PinP window.
	H Position	-50,, 35 ,,+50	%	Sets horizontal position of PinP window.
	V Position	-50,, 30 ,,+50	%	Sets vertical position of PinP window.
	H Trim	10,, 60 ,,100	%	Adjusts horizontal trim size of PinP window.
	V Trim	10,, 95 ,,100	%	Adjusts vertical trim size of PinP window.
	Border Width	0,, 5 ,,16	pixel	Sets border width of PinP window.
	Red	0,, 235 ,,255		Adjusts red component of border color.
	Green	0,, 235 ,,255		Adjusts green component of border color.
	Blue	0,, 235 ,,255		Adjusts blue component of border color.

Mix/Process MENU 3/3

	Parameter name	Range	Unit	Remarks
AUX	1 Source	IN1,, IN4,STILL1,, STILL4		Selects AUX1 source. When using External Key, AUX1 is Fill signal.
AUX	2 Source	IN1,, IN4,STILL1,, STILL4		Selects AUX2 source. When using External Key, AUX2 is Key signal.
DSF	Х Туре	Output Fade , Black Lumi Ley, White Lumi Key, Green Chroma Key, Blue Chroma Key, External Key		Selects Down Stream Effects (DSFX) type
	Key Level	0 ,,100		Sets threshold to be transparent foreground.
	Key Gain	0 ,,100		Sets transparent edge to sharp.
	Chroma Hue	-180,, 0 ,,+180	deg	Adjusts chroma key transparent color phase.
	Chroma Width	0 ,,180	deg	Sets chroma key transparent color width.
Сар	ture Source	IN1,, IN4		Selects the capture input.
Capture Target Still Capture		STILL1,, STILL4		Selects the capture memory. STILL 1: Image is saved when the power off, and the image can be loaded or saved via the LAN (FTP) STILL 2 - 4: Images are erased when the power off.
		EXEC		Execute capture * If you turn off the power immediately after capture to STILL1, the image may not be saved correctly. After capturing to STILL1, please wait for about 1 minute and then turn off the power.
STIL	L1 Erase	EXEC		Erase STILL1 data.
STIL	L1 Status	Invalid, Loaded, Captured		Display the status of STILL1 data. Invalid if there is no STILL1 data or can not be read data correctly. * The JPEG file of YCC4:2:2 format can be read. * Please use file size is 512kB or less and resolution is 2048×1080 or less. * When connecting to FTP, please use user name is "apro4", password is "apro4", file name is "StillImage.jpg". * When power is turned on, until the STILL1 image is output, it takes about 10 seconds in addition to the startup time.

Output MENU

Output MENU 1/3

Parameter name		Range	Unit	Remarks
Format		2K/59p/50p/29p/25p/24p/23p,1080/59p/50 p/29p/25p/24p/23p, 1080/59i /50i, 720/59p/50p,480/59p,576/50p,480/59i,576/ 50i		Sets the output format.
SDI	Settings	RESET		SDI output settings. Press reset to restore the initial values.
	SDI Output Select	PGM ,MultiView,PVW,AUX1,AUX2,UpStre am		 Selects the signal output to SDI OUT. PGM: Program (PGM) bus. Outputs signal with the VIDEO INPUT SELECT button showing red. On-screen menu is not displayed. MultiView: MultiView output. On-screen menu is displayed. PVW: Preview (PVW) bus. If Switching Mode=Direct, outputs signal with the VIDEO INPUT SELECT button showing red. If Switching Mode=Preview, outputs signal with the VIDEO INPUT SELECT button showing green. On-screen menu is not displayed. AUX1: Selected AUX1 signal. On-screen menu is not displayed. AUX2: Selected AUX2 signal. On-screen menu is not displayed. UpStream: Up stream (before DSFX) signal. On-screen menu is not displayed. * If HDMI Output Select is not MultiView and this parameter set to other than MultiView, the HDMI Output Select setting will switch to MultiView.
	SDI Color	YCC422,RGB444,YCC444,		Sets SDI output color sampling. YCC422: 10-bit YCC 4:2:2 output. RGB444: 10-bit RGB 4:4:4 output. YCC444: 10-bit YCC 4:4:4 output * When set to RGB444 or YCC444, 2K 1080p output is 6G-SDI, and 1080i 720p output is 3G-SDI. 480i and 576i are always 10-bit YCC4:2:2 output.
	3G SDI Type	LevelA, LevelB		Sets the output method for 3G-SDI output. Level-A: Commonly used in facility equipment Level-B: Commonly used in broadcast equipment.

	Parameter name	Range	Unit	Remarks
HDM	/I Settings	RESET		HDMI output settings.
	HDMI Output Select	PGM, MultiView ,PVW,AUX1,AUX2,UpStre am		Press reset to restore the initial values. Selects the signal output to HDMI OUT. PGM: Program (PGM) bus. Outputs signal with the VIDEO INPUT SELECT button showing red. On-screen menu is not displayed. MultiVlew: MultiView output. On-screen menu is displayed. PVW: Preview (PVW) bus. If Switching Mode=Direct, outputs signal with the VIDEO INPUT SELECT button showing red. If Switching Mode=Preview, outputs signal with the VIDEO INPUT SELECT button showing green. On-screen menu is not displayed. AUX1: Selected AUX1 signal. On-screen menu is not displayed. AUX2: Selected AUX2 signal. On-screen menu is not displayed. 4UX2: Selected Signal. On-screen menu is not displayed. * If SDI Output Select is not MultiVlew and this parameter set to other than MultiVlew, the SDI Output Select setting will switch to MultiView.
	HDMI Mode	Auto,HDMI,DVI(No Audio)		Sets whether the HDMI output is in DVI mode or not. When in AUTO the optimal mode for the connected device will be used.
	HDMI Color	Auto,RGB(Full),RGB(Limit), YCC444,YCC422		Sets HDMI output color sampling. Auto: Color sampling optimal for the connected device. RGB (Full): RGB 4:4:4 output. Black (0%) to white (100%) output from 0–255 (1023). RGB (Limit): RGB 4:4:4 output. Black (0%) to white (100%) output from 16 (64) - 235 (940). YCC444: YCC 4:4:4 output YCC422: 10-bit YCC 4:2:2 output
	HDMI Color Depth	Auto,8bit,10bit		Sets HDMI output color depth. Auto: Color depth optimal for the connected device. 8bit: 8-bit color depth for each color. If HDMI Color=YCC4:2:2, output is always 10-bit. 10-bit: 10-bit color depth for each color. Used for HDMI 1.3 and higher, with devices supporting deep color.

Parameter name	Range	Unit	Remarks
USB3.0 Settings	RESET		USB 3.0 output settings. Press reset to restore the initial values.
USB Output Select	PGM ,MultiView,PVW,AUX1,AUX2,UpStre am		Selects the signal output to USB3.0 OUT. PGM: Program (PGM) bus. Outputs signal with the VIDEO INPUT SELECT button showing red. On-screen menu is not displayed. MultiVlew: MultiView output. On-screen menu is displayed. PVW: Preview (PVW) bus. If Switching Mode=Direct, outputs signal with the VIDEO INPUT SELECT button showing red. If Switching Mode=Preview, outputs signal with the VIDEO INPUT SELECT button showing green. On-screen menu is not displayed. AUX1: Selected AUX1 signal. On-screen menu is not displayed. AUX2: Selected AUX2 signal. On-screen menu is not displayed. UpStream: Up stream (before DSFX) signal. On-screen menu is not displayed.
USB Audio Level	-INF,, 0.0	dB	Displays the audio level set for USB3.0 output. Use the USB LEVEL knob on the top panel to set.

Output MENU 2/3

	Parameter name	Range	Unit	Remarks
Cold	r Correct	RESET		Output video color adjustment.
10010				Press reset to restore the initial values.
	Brightness	0,, 100 ,,200	%	Adjusts the brightness.
	Contrast	0,, 100 ,,200	%	Adjusts the contrast.
	Saturation	0,, 100 ,,200	%	Adjusts the saturation.
	Red Brightness	0,, 100 ,,200	%	Adjusts the black balance (red).
	Green Brightness	0,, 100 ,,200	%	Adjusts the black balance (green).
	Blue Brightness	0,, 100 ,,200	%	Adjusts the black balance (blue).
	Red Contrast	0,, 100 ,,200	%	Adjusts the white balance (red).
	Green Contrast	0,, 100 ,,200	%	Adjusts the white balance (green).
	Blue Contrast	0,, 100 ,,200	%	Adjusts the white balance (blue).

Output MENU 3/3

	Parameter name	Range	Unit	Remarks
Auc	lio			
	Output Mute	Off,On		Mutes audio output from all connectors.
	Output Level		dB	Displays the value set for master audio level.
		-1111 ,,0.0		Use the OUTPUT knob on the top panel to set.
	Audio Delay	0,, 33 ,,100	msec	Sets the delay to synch audio output to video.
Tes	t Pattern			
		Off ,HBar75%,HBar100%,VBar75%,VBar1		
	Туре	00%,VHBar75%,VHBar100%,HRamp,VRa		Selects test pattern type.
		mp,Hatch		
	Color Bar H Scroll	None,2pix,4pix,8pix,16pix,32pix		Sets holizontal scroll value when color bar types are selected.
	Color Bar V Scroll	None,2line,4line,8line,16line,32line		Sets virtical scroll value when color bar types are selected.

Ext Audio Output MENU

Parameter name	Range	Unit	Remarks
Mode	Audio Output,GPI Input5-8,GPI Output5-8		Sets the GPI/AUDIO OUT connector functions. Audio Output: Used as the audio output connector. GPI Input 5-8: Used as GPI input connectors 5-8. OPEN and CLOSE pulsewidths must be at least 100 ms. GPI Output 5-8: Used as GPI output connectors 5-8 Current 20 mA max., external supply +5 V. * Left-ch tip is GPI5 and ring is GPI6, right-ch tip is GPI7 and ring is GPI8. GPI5 IN: CUT button GPI5 OUT: INPUT1 PVW (green) tally GPI6 IN: MIX button GPI6 OUT: INPUT2 PVW (green) tally GPI7 IN: BLACK button GPI8 OUT: INPUT3 PVW (green) tally GPI8 IN: WHITE button GPI8 OUT: INPUT4 PVW (green) tally
Maximum Output Level	+24,,0	dBu	Adjusts the AUDIO OUT connector output level. Recommended settings: North America: 24dBu (+4dBu=-20dBFS) Europe: +18dBu (+0dBu=-18dBFS) Private broadcasting: +12dBu (-10dBV=-20dBFS)
Monitor Select	PGM,PVW		Select the output bus for Ext Audio Output. This setting is also enabled for headphone connector output.

System MENU

System MENU 1/5

Parameter name	Range	Unit	Remarks
Switching Mode	Direct,Preview		Changes the video transition method. Direct: The instant the VIDEO INPUT SELECT button is pressed, both PGM and PVW, audio and video, switch. Preview: When the VIDEO INPUT SELECT button is pressed, that button lights green, and PVW output audio and video switch. When the Auto button is pressed, PGM audio and video transition starts. The VIDEO fader can also be used to manually transition video.
Power on select	IN1,IN2,IN3,IN4		Sets default output selected at start-up.
Sync Reference	Internal,REF IN,IN1,IN2		Selects synch signal. REF IN: Synchs to the synch signal input to the REF IN connector. IN1: Synchs to video input to SDI IN1. IN2: Synchs to video input to SDI IN2.
H Phase	-[OutHcycle]/2,,0,,[OutHcycle]/2	pixel	Adjusts SDI output horizontal position relative to synch signal.
V Phase	-[OutVcycle],,0,,[OutVcycle]	line	Adjusts SDI output vertical position relative to synch signal.
Transition Time	0,, 1.0 ,,4.0	sec	Displays video transition time. Adjust with the TRANSITION knob on the top panel.
Fade Time	0,, 1.0 ,,4.0	sec	Displays the video fade time. Adjust with the OUTPUT FADE knob on the top panel.
REF IN	/Unlock/Lock		Displays the synch state.
No Signal Color	RESET		Sets the screen color (RGB) when the input signal is lost. Press reset to restore the initial values.
Red	0,,16,,255		Adjusts red component. *3
Green	0,, 16 ,,255		Adjusts green component. *3
Blue	0,, 16 ,,255		Adjusts blue component. *3

*3 Settings outside the 16-235 range may cause misoperation.

System MENU 2/5

Parameter name		Range	Unit	Remarks	
Fade Color(WHITE) F		RESET		Sets the OUTPUT FADE WHITE fade color (RGB). Press reset to restore the initial values.	
	Red	0,, 235 ,,255		Adjusts red component. *3	
	Green	0,,235,,255 Adjusts green component. *3		Adjusts green component. *3	
	Blue	0,, 235 ,,255		Adjusts blue component. *3	
Fade Color(BLACK)		RESET		Sets the OUTPUT FADE BLACK fade color (RGB). Press reset to restore the initial values.	
	Red	0,, 16 ,,255		Adjusts red component. *3	
	Green	0,, 16 ,,255		Adjusts green component. *3	
	Blue	0,, 16 ,,255		Adjusts blue component. *3	
LOS Mute Clear Delay		1 ,,10	frame	Sets the delay time for audio fade-in start after input signal recove	
Panel Lock		Off,On,MENU Lock		Off: Panel operation is enabled. On: Panel operation is disabled. MENU Lock: Menu operation is disabled. Settings become effective when you leave the MENU screen. Hold ENTER and EXIT down simultaneously for a few seconds to turn the Panel Lock off.	
OSD Font Size Sel		Small,Medium,Large		Change the screen MENU font size. Small and Medium settings are valid when output is 720p. When output setting is SD, allways disp Small font size.	

*3 Settings outside the 16-235 range may cause misoperation.

System MENU 3/5

Parameter name	Range	Unit	Remarks
SDI Out Interlace	Off ,On		Sets the SDI output to interlace format. It is valid at output setting is 1080p.
Sync Ctrl Master Slave,Master			Selects master or slave when multi units synchronization via LAN. After settings have been entered, leave the MENU screen and restart the device to enabled them.
Sync Ctrl Mode	Panel,All		Selects the synchronizing parameters when multi units synchronization via LAN. Panel: Synchronize all panel operations without MENU operation All: Synchronize all parameter operation without below parameters. Sync Ctrl Master, Sync Ctrl Mode, Volume Lock, Panel Lock
Volume Lock	Off,On		Mask the panel operation for multi unit synchronization via LAN.

System MENU 4/5

	Parameter name	Range	Unit	Remarks
LAI	ı	RESET		Network settings. Press reset to restore the initial values. Check with the network administrator for network connection settings. After settings have been entered, leave the MENU screen and restart the device to enabled them.
	IP Adress	0,, 192 ,,255 0,, 168 ,,255 0,, 1 ,255 0,, 1 ,255 0,, 1 ,255		Sets the device IP address.
	Subnet Mask	0,,255 0,,255 0,,255 0,,255 0,,255		Sets the subnet mask.
	Default Gateway	0,, 192 ,,255 0,, 168 ,,255 0,, 1 ,255 0,, 1 ,255 0,, 1 ,255		Sets the gateway IP address.

System MENU 5/5

Parameter name		Range	Unit	Remarks
T-bar Adjust		AUTO		Adjusts the video fader. Press ENTER and enter the adjustment menu. Move the video fader to the very top and press ENTER, then to the very bottom and press ENTER again.
Version				
	Software	XX.XX		Displays the software version.
	FPGA(MAIN)	XX.XX		Displays the Main FPGA version.
	FPGA(USB)	XX.XX		Displays the USB FPGA version.
MAC Adrs		68:9A:B7:xx:xx:xx		Displays the network MAC address.
Factory Reset		RESET		Press RESET to reset all parameters to factory settings.

TELNET commands

Command list

Set Command

Inp	ut Format Fix
FI	MF:a,b,c <cr></cr>
	a: Input Channel
	3:IN4
	b: Format Fix
	0:Off, 1:On
	c: Fix Format
	0:2K/59p, 1:2K/50p, 2:2K/29p, 3:2K/25p, 4:2K/24p, 5:2K/23p, 6:1080/59p,
	7:1080/50p, 8:1080/29p, 9:1080/25p, 10:1080/24p, 11:1080/23p, 12:1080/59i,
	13:1080/50i, 14:720/59p, 15:720/50p,16:480/59p, 17:576/50p, 18:480/59i,
	19:576/50i
Inp	ut NTSC Setup Level
N	SL:a,b <cr></cr>
	a: Input Channel
	3:IN4
	b: NTSC Setup Level
	0:0IRE, 1:7.5IRE
Inp	ut HDMI Color
н	DC:a,b <cr></cr>
	a: Input Channel
	2:IN3, 3:IN4
	b: Color Space
	0:Auto, 1:RGB(Full), 2:RGB(Limit), 3:YCC(SD), 4:YCC(HD)
Inp	ut LOS Threshold
ы	Ή:a,b <cr></cr>
	a: Input Channel
	0:IN1, 1:IN2, 2:IN3, 3:IN4
	b: LOS Threshold
	0,,10

out AOI	
OI:a,b,c,	1,e <cr></cr>
a: Input	Channel
0:IN	I1, 1:IN2, 2:IN3, 3:IN4
b: H siz	e
0,,[nHsize] pixel
c: V siz	e
0,,[nVsize] line
d: H po	sition
0,,[nHsize-1] pixel
e: V po	sition
0,,[nVSize-1] line
ut Scalir	Ig
CL:a,b,c,	d,e,f,g <cr></cr>
a: Input	Channel
3:IN	14
b: Scali	пд Туре
0:F	ull, 1:Box, 2:Crop, 3:Thru, 4:Manual
c: Zoor	n
10,	1000 %
d: H po	sition
-20	18,,2048 pixel
e: V po	sition
-12)0,,1200 line
f: Man	Jal H scale
10,	1000 %
g: Man	al V scale
10,	1000 %

Inp	Input Position		
IP	S:a,b,c <cr></cr>		
	a: Input Channel		
	0:IN1, 1:IN2, 2:IN3		
	b: H position		
	-2048,,2048 pixel		
	c: V position		
	-1200,,1200 line		
Inp	ut Color		
IB	C:a,b,c,d <cr></cr>		
	a: Input Channel		
	0:IN1, 1:IN2, 2:IN3, 3:IN4		
	b: Brightness		
	0,,200 %		
	c: Contrast		
	0,,200 %		
	d: Saturation		
	0,,200 %		
Inp	ut Black Balance		
IC	B:a,b,c,d <cr></cr>		
	a: Input Channel		
	0:IN1, 1:IN2, 2:IN3, 3:IN4		
	b: Red Brightness		
	0,,200 %		
	c: Green Brightness		
	0,,200 %		
	d: Blue Brightness		
	0,,200 %		

Input White Balance	
ICC:a,b,c,d <cr></cr>	
a: Input Channel	
0:IN1, 1:IN2, 2:IN3, 3:IN4	
b: Red Contrast	
0,,200 %	
c: Green Contrast	
0,,200 %	
d: Blue Contrast	
0,,200 %	
nput Audio	
AUD:a,b,c <cr></cr>	
a: Input Channel	
0:IN1, 1:IN2, 2:IN3, 3:IN4	
b: Audio Follow	
0:Off, 1:On	
c: Channel Select	
IN1-IN2 0:1+2, 1:3+4,, 7:15+16, 8:1(MONO), 9:2(MONO),, 23:16(MO	ONO) ch
IN3-IN4 0:1+2, 1:3+4,, 3:7+8, 4:1(MONO), 5:2(MONO),, 11:8(MONO)) ch
ext Audio Input	
EAI:a,b,c,d,e <cr></cr>	
a: Stereo	
0:Mono, 1:Stereo	
b: Mode	
0:Audio Input, 1:GPI Input1-4, 2:GPI Output1-4	
c: Input Gain	
0:-13.5,,63:+33.75 dB (+0.75 dB step)	
d: Audio Follow	
0:Off, 1:IN1, 2:IN2, 3:IN3, 4:IN4	
e: Input Impedance	
0:Hi-Z. 1:600ohms	

Tra	Transition Type					
т	TSM:a <cr></cr>					
	a: Transition					
	0:Mix, 1:Wipe, 2:PinP					
Wip	be Setting					
w	IP:a,b <cr></cr>					
	a: Type					
	0:LtoR, 1:RtoL, 2:TtoB, 3:BtoT, 4:LTtoRB, 5:RTtoLB, 6:LBtoRT, 7:RBtoLT,					
	8:CtoLR, 9:CtoTB, 10:LRtoC, 11:TBtoC, 12:CtoLRTB, 13:LRTBtoC					
	b: Edge					
	0,,100					
Pic	ture in Picture					
PI	P:a,b,c,d,e,f,g,h,i <cr></cr>					
	a: Size					
	10,,100 %					
	b: H Position					
	-50,,50 %					
	c: V Position					
	10,,100 %					
	d: H Trim					
	-50,,50 %					
	e: V Trim					
	10,,100 %					
	f: Border Width					
	0,, 16 pixel					
	g: Red					
	0,, 255					
	h: Green					
	0,, 255					
	i: Blue					
	0.255					

AU	X1 Source
A	IS:a <cr></cr>
	a: AUX1 Source
	0:IN1, 1:IN2, 2:IN3, 3:IN4
AU	X2 Source
A	2S:a <cr></cr>
	a: AUX2 Source
	0:IN1, 1:IN2, 2:IN3, 3:IN4
DS	FX Setting
D	δK:a,b,c,d,e <cr></cr>
	a: DSFX Type
	0:Output Fade, 1:Black Lumi Key, 2:White Lumi Key, 3:Green Chroma Key,
	4:Blue Chroma Key, 5:External Key
	b: Key Level
	0,,100
	c: Key Gain
	0,,100
	d: Chroma Hue
	-180,,180 deg
	e: Chroma Width
	0,,180 deg
Stil	I Capture
C/	AP:a,b <cr></cr>
	a: Capture Source
	0:IN1, 1:IN2, 2:IN3, 3:IN4
	b: Capture Target
	4:STILL1, 5:STILL2, 6:STILL3, 7:STILL4

Output Format

OFT:a<CR>

a: Format

0:2K/59p, 1:2K/50p, 2:2K/29p, 3:2K/25p, 4:2K/24p, 5:2K/23p, 6:1080/59p, 7:1080/50p, 8:1080/29p, 9:1080/25p, 10:1080/24p, 11:1080/23p, 12:1080/59i, 13:1080/50i, 14:720/59p, 15:720/50p, 16:480/59p, 17:576/50p, 18:480/59i, 19:576/50i

SDI Output Setting

SDI:a,b,c<CR>

a: SDI Output Select

0:PGM, 1:MultiView, 2:PVW, 3:AUX1, 4:AUX2, 5:UpStream

b: SDI Color

0:YCC422, 1:RGB444, 2:YCC444

c: 3G SDI Type

0:LevelA, 1:LevelB

HDMI Output Setting

HDM:a,b,c,d<CR>

a: HDMI Output Select

0:PGM, 1:MultiView, 2:PVW, 3:AUX1, 4:AUX2, 5:UpStream

b: HDMI Mode

0:Auto, 1:HDMI, 2:DVI(No Audio)

c: HDMI Color

0:Auto, 1:RGB(Full), 2:RGB(Limit), 3:YCC444, 4:YCC422

d: Color Depth

0:Auto, 1:8bit, 2:10bit

USB3.0 Output Setting

USB:a<CR>

a: USB Output Select

0:PGM, 1:MultiView, 2:PVW, 3:AUX1, 4:AUX2, 5:UpStream

Out	put Color
0	3C:a,b,c <cr></cr>
	a: Brightness
	0,,200 %
	b: Contrast
	0,,200 %
	c: Saturation
	0,,200 %
Dut	put Black Balance
0	CB:a,b,c <cr></cr>
	a: Red Brightness
	0,,200 %
	b: Green Brightness
	0,,200 %
	c: Blue Brightness
	0,,200 %
Dut	put White Balance
0	CC:a,b,c <cr></cr>
	a: Red Contrast
	0,,200 %
	b: Green Contrast
	0,,200 %
	c: Blue Contrast
	0,,200 %
Dut	put Audio
0/	AU:a,b <cr></cr>
	a: Mute
	0:Off, 1:On
	b: Delay
	0,,100 msec

Test Pattern Generate										
TPG:a,b,c <cr></cr>										
ÍÍ	a: Test Pattern									
	0:Off, 1:Hbar 75%, 2:Hbar 100%, 3:Vbar 75%, 4:Vbar 100%, 5:HVBar 75%,									
	6:HVBar 100%, 7:HRamp, 8:VRamp, 9:Hatch									
	b: ColBar H Scroll									
	0:None, 1:2pix, 2:4pix, 3:8pix, 4:16pix, 5:32pix									
	c: ColBar V Scroll									
	0:None, 1:2line, 2:4line, 3:8line, 4:16line, 5:32line									
Ext	Audio Output									
EA	EAO:a,b,c <cr></cr>									
[a: Mode									
[0:Audio Output, 1:GPI Input5-8, 2:GPI Output5-8									
	b: Max Output Level									
	0:+24,,24:0 dBu (-1.0 dBu step)									
	c: Monitor Select									
	0:PGM, 1:PVW									
Sys	tem Switching Mode									
SS	M:a <cr></cr>									
[a: Switching Mode									
	0:Direct, 1:Preview									
Sys	tem Power on Select									
SP	'S:a <cr></cr>									
[a: Power on Select									
	0:IN1, 1:IN2, 2:IN3, 3:IN4									
Sys	tem Sync Reference									
SS	R:a,b,c <cr></cr>									
	a: Sync Reference									
[0:Internal, 1:REF IN, 2:IN1, 3:IN2									
[b: H Phase									
[-[OutHcycle]/2,,[OutHcycle]/2 pixel									
[c: V Phase									
I	-[OutVcycle],,[OutVcycle] line									

Sys	stem No Signal Color					
SI	NS:a,b,c <cr></cr>					
	a: Red					
	0,,255					
	b: Green					
	0,,255					
	c: Blue					
	0,,255					
Sys	stem Fade Color White					
SI	FW:a,b,c <cr></cr>					
	a: Red					
	0,,255					
	b: Green					
	0,,255					
	c: Blue					
	0,,255					
Sys	stem Fade Color Black					
SI	-B:a,b,c <cr></cr>					
	a: Red					
	0,,255					
	b: Green					
	0,,255					
	c: Blue					
	0,,255					
Sys	stem LOS Mute Clear Delay					
SI	_D:a <cr></cr>					
	a: LOS Mute Clear Delay					
	1,,10 frame					
Sys	stem Panel Lock					
SI	SPL:a <cr></cr>					
	a: Panel Lock					
	0:Off, 1:On, 2:MENU Lock					

Syst	tem OSD Font Size Sel	
so	F:a <cr></cr>	
	a: OSD Font Size	
	0:Small, 1:Medium, 2:Large	
Syst	tem SDI Out Interlace	
SS	l:a <cr></cr>	
	a: SDI Out Interlace	
	0:Off, 1:On	
Syst	tem Sync Control	
SS	C:a,b <cr></cr>	
	a: Sync Ctrl Master	
	OSD Font Size Sel <cr> DSD Font Size 0:Small, 1:Medium, 2:Large SDI Out Interlace CR> SDI Out Interlace O.Off, 1:On Sync Control Jb JcCR> Sync Control JcCR> Sync Ctrl Master 0:Slave, 1:Master Sync Ctrl Mode 0:Panel, 1:All LAN IP Address 0,c,d-CR> P Adress 1st 0,255 P Adress 1st 0,255 P Adress 3rd 0,255 LAN Net Mask ,b,c,d<cr> P Adress 1st 0,255 P Adress 3rd 0,255 P Adress 1st 0,255 P Adress 1st 0,255 P Adress 1st 0,255 P Adress 1st 0,255 P Adress 2nd 0,255 P Adress 3rd 0,255</cr></cr>	
	b: Sync Ctrl Mode	
	0:Panel, 1:All	
Syst	tem LAN IP Address	
LIP	2:a,b,c,d <cr></cr>	
	a: IP Adress 1st	
	0,,255	
	b: IP Adress 2nd	
	statin OSD Font Size Set a: OSD Font Size 0:Small, 1:Medium, 2:Large ystem SDI Out Interlace SSI:a <cr> a: SDI Out Interlace SSI:a<cr> a: SDI Out Interlace 0:Off, 1:On ystem Sync Control SSC:a,b<cr> a: Sync Ctrl Master 0:Slave, 1:Master b: Sync Ctrl Master 0:Panel, 1:All ystem LAN IP Address IP:a,b,c,d<cr> a: IP Adress 1st 0.,255 b: IP Adress 3rd 0.,255 c: IP Adress 3rd 0.,255 ystem LAN Net Mask NM:a,b,c,d<cr> a: IP Adress 3rd 0.,255 c: IP Adress 1st 0.,255 ystem LAN Net Mask NM:a,b,c,d<cr> a: IP Adress 1st 0.,255 b: IP Adress 1st 0.,255 c: IP Adress 3rd 0.,255 c: IP Adress 3rd 0.,255 c: IP Adress 3rd <!--</td--></cr></cr></cr></cr></cr></cr>	
	c: IP Adress 3rd	
	0,,255	
	d: IP Adress 4th	
	0,,255	
Syst	tem LAN Net Mask	
LN	M:a,b,c,d <cr></cr>	
	a: IP Adress 1st	
	0,,255	
	b: IP Adress 2nd	
	0,,255	
	c: IP Adress 3rd	
	0,,255	
	d: IP Adress 4th	
[0,,255	

LDG:a,b,c,d <cr> a: IP Adress 1st</cr>								
a: IP Adress 1st								
0,,255								
b: IP Adress 2nd								
0,,255								
c: IP Adress 3rd								
0,,255								
d: IP Adress 4th								
0,,255								
Input Reset								
IRT:a,b <cr></cr>								
a: Input Channel								
0:IN1, 1:IN2, 2:IN3, 3:IN4								
b: Category								
0:AOI, 1:Position/Scaling, 2:Color Correct								
Output Reset								
ORT:a <cr></cr>								
a: Category								
0:SDI Settings, 1:HDMI Settings, 2:USB3.0 Settings, 3:Reserved, 4:Output Colo								
Correct								
System Reset								
SRT:a <cr></cr>								
a: Category								
1:No Signal Color, 2:Fade Color(White), 3:Fade Color(Black), 4:LAN								
Factory Reset								
FRT: <cr></cr>								
Parameters Save								
PSV: <cr></cr>								

/ideo Input Select
VIS:a <cr></cr>
a: VIDEO INPUT SELECT
0:IN1, 1:IN2, 2:IN3, 3:IN4
Auto Transition
PVA: <cr></cr>
rasition Select
TSS:a <cr></cr>
a: TRANSITION
0:CUT, 1:MIX
Dutput Fade Switch
OFS:a <cr></cr>
a: OUTPUT FADE Switch
0:BLACK, 1:WHITE
anel Volume Lock
CVL:a <cr></cr>
a: Volume Lock
0:Off, 1:On
nput Audio Channel Level
CAI:a,b <cr></cr>
a: Input Channel
0:IN1, 1:IN2, 2:IN3, 3:IN4
b: Channel Level
Input Audio Channel Level <figure.1></figure.1>
xternal Input Audio Level
CAE:a <cr></cr>
a: Channel Level
Input Audio Channel Level <figure.1></figure.1>
Dutput Audio Level
COL:a <cr></cr>
a: Output Audio Level
Output Audio Level <figure.1></figure.1>

Ou	tput USB Audio Level									
CI	CUL:a <cr></cr>									
	a: Output USB Audio Level									
	Output Audio Level <figure.1></figure.1>									
Tra	nsition Time									
C.	CTT:a <cr></cr>									
	a: Transition Time									
	0:0.0, 1:0.1, 2:0.2,, 40:4.0 sec									
Fac	Je Time									
CI	FT:a <cr></cr>									
	a: Fade Time									
	0:0.0, 1:0.1, 2:0.2,, 40:4.0 sec									
Mu	ItiView Label Rename									
м	LR:a,b <cr></cr>									
	a: Target									
	0:PGM, 1:PVW, 2:IN1, 3:IN2, 4:IN3, 5:IN4, 6:AUX1, 7:AUX2, 8:UPSTR									
	b: Name									

Name (5 characters)

Req Command

Version						
VER <cr></cr>						
Input Format						
FMT:a <cr></cr>						
a: Input Channel						
0:IN1, 1:IN2, 2:IN3, 3:IN4						
Input Audio Channel Level						
ACL:a <cr></cr>						
a: Input Channel						
0:IN1, 1:IN2, 2:IN3, 3:IN4						
Ext Audio Input Level						
EIA <cr></cr>						
USB Audio Level						
UAL <cr></cr>						
Output Audio Level						
AOL <cr></cr>						
Transition Time						
TST <cr></cr>						
Fade Time						
FDT <cr></cr>						

Response

Ack	
ACK	(<cr></cr>
Error	
ERF	l:a <cr></cr>
а	: Information
	0:Syntax Error, 1:Arg Number Error, 2:Arg Invalid Error, 3:Busy Error
Versi	on
VER	l:a,b,c <cr></cr>
а	: Software
b	: FPGA(MAIN)
С	: FPGA(USB)
nput	Format
FMT	:a <cr></cr>
а	: Format Name
nput	Audio Channel Level
ACL	:a <cr></cr>
а	: Input Audio Channel Level <figure.1></figure.1>
Ext A	udio Input Level
EIA:	a <cr></cr>
а	: Ext Audio Input Level <figure.1></figure.1>
USB	Audio Level
UAL	:a <cr></cr>
а	: USB Audio Level <figure.1></figure.1>
Outp	ut Audio Level
AOL	:a <cr></cr>
а	: Output Audio Level <figure.1></figure.1>
Trans	sition Time
тэт	a <cr></cr>
а	: Transition Time
Fade	Time
FDT	a <cr></cr>
а	: Fade Time

Value	Input	Output	31	-20.7dB	-10.2dB	64	-7.4dB	-3.8dB	1 [97	0.0dB	-0.2dB
value	Level	Level	32	-20.1dB	-9.8dB	65	-7.2dB	-3.8dB		98	0.0dB	-0.2dB
0	-INF	-INF	33	-19.6dB	-9.6dB	66	-6.9dB	-3.6dB		99	0.0dB	0.0dB
1	-84.2dB	-40.0dB	34	-19.1dB	-9.4dB	67	-6.6dB	-3.4dB		100	0.0dB	0.0dB
2	-71.5dB	-34.0dB	35	-18.5dB	-9.2dB	68	-6.4dB	-3.4dB		101	0.0dB	0.0dB
3	-64.1dB	-30.4dB	36	-18.0dB	-8.8dB	69	-6.1dB	-3.2dB		102	0.0dB	-
4	-58.8dB	-28.0dB	37	-17.5dB	-8.6dB	70	-5.8dB	-3.0dB		103	0.2dB	-
5	-54.7dB	-26.0dB	38	-17.1dB	-8.4dB	71	-5.6dB	-3.0dB		104	0.5dB	-
6	-51.4dB	-24.4dB	39	-16.6dB	-8.2dB	72	-5.3dB	-2.8dB		105	0.7dB	-
7	-48.6dB	-23.0dB	40	-16.2dB	-8.0dB	73	-5.1dB	-2.8dB		106	0.9dB	-
8	-46.1dB	-22.0dB	41	-15.7dB	-7.8dB	74	-4.8dB	-2.6dB		107	1.4dB	-
9	-43.9dB	-21.0dB	42	-15.3dB	-7.6dB	75	-4.6dB	-2.4dB		108	1.6dB	-
10	-42.0dB	-20.0dB	43	-14.9dB	-7.4dB	76	-4.4dB	-2.4dB		109	1.9dB	-
11	-40.3dB	-19.2dB	44	-14.5dB	-7.2dB	77	-4.1dB	-2.2dB		110	2.1dB	-
12	-38.7dB	-18.4dB	45	-14.0dB	-7.0dB	78	-3.9dB	-2.2dB		111	2.3dB	-
13	-37.2dB	-17.8dB	46	-13.7dB	-6.8dB	79	-3.7dB	-2.0dB		112	2.5dB	-
14	-35.8dB	-17.0dB	47	-13.3dB	-6.6dB	80	-3.2dB	-2.0dB		113	2.7dB	-
15	-34.6dB	-16.4dB	48	-12.5dB	-6.4dB	81	-3.0dB	-1.8dB		114	3.0dB	-
16	-32.3dB	-16.0dB	49	-12.2dB	-6.2dB	82	-2.8dB	-1.8dB		115	3.4dB	-
17	-31.2dB	-15.4dB	50	-11.8dB	-6.0dB	83	-2.6dB	-1.6dB		116	3.6dB	-
18	-30.3dB	-14.8dB	51	-11.5dB	-5.8dB	84	-2.4dB	-1.6dB		117	3.8dB	-
19	-29.3dB	-14.4dB	52	-11.1dB	-5.6dB	85	-2.2dB	-1.4dB		118	4.0dB	-
20	-28.4dB	-14.0dB	53	-10.8dB	-5.6dB	86	-2.0dB	-1.4dB		119	4.2dB	-
21	-27.6dB	-13.6dB	54	-10.4dB	-5.4dB	87	-1.7dB	-1.2dB		120	4.4dB	-
22	-26.8dB	-13.2dB	55	-10.1dB	-5.2dB	88	-1.5dB	-1.2dB		121	4.6dB	-
23	-26.0dB	-12.8dB	56	-9.8dB	-5.0dB	89	-1.3dB	-1.0dB		122	4.8dB	-
24	-25.2dB	-12.4dB	57	-9.5dB	-4.8dB	90	-1.1dB	-1.0dB		123	5.2dB	-
25	-24.5dB	-12.0dB	58	-9.2dB	-4.8dB	91	-0.9dB	-0.8dB		124	5.4dB	-
26	-23.8dB	-11.8dB	59	-8.9dB	-4.6dB	92	-0.8dB	-0.8dB		125	5.6dB	-
27	-23.1dB	-11.4dB	60	-8.6dB	-4.4dB	93	-0.6dB	-0.6dB		126	5.8dB	-
28	-22.5dB	-11.0dB	61	-8.3dB	-4.2dB	94	-0.4dB	-0.6dB		127	6.0dB	-
29	-21.9dB	-10.8dB	62	-8.0dB	-4.2dB	95	-0.2dB	-0.4dB				
30	-21.3dB	-10.4dB	63	-7.7dB	-4.0dB	96	0.0dB	-0.4dB				

<figure.1> Audio Input/Output Level Table

Support

The latest support information is available at the ATV website shown below.

- ATV Corporation website http://www.atvcorporation.com/
- Product page



http://www.atvcorporation.com/en/products/videos/a-pro-4/