Card-Edge Control Reference

Master List and Instructions for Using Compass™ Card-edge (Local) Control Codes

Manual Supplement

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Function Submenu/Parameter Submenu Overview

Note:
- Refer to card Product Manual for control descriptions and application examples. Where card controls found on DashBoard™ or other remote control is not shown here, these controls or displays may not be available using card edge controls.
- This is a master list; not all cards have the controls described here (for example, SDI-only cards such as the 9062 do not have audio embedding/de-embedding selections described here).
- Control names here are identical to those used in the Product Manual. If necessary, correlate the list here to the names and descriptions found in the respective Product Manual.

The functions and related parameters available on a typical card are organized into function **submenus**, which consist of parameter groups as shown below.

Figure 1 shows how the card and its submenus are organized, and also provides an overview of how navigation is performed between cards, function submenus, and parameters.

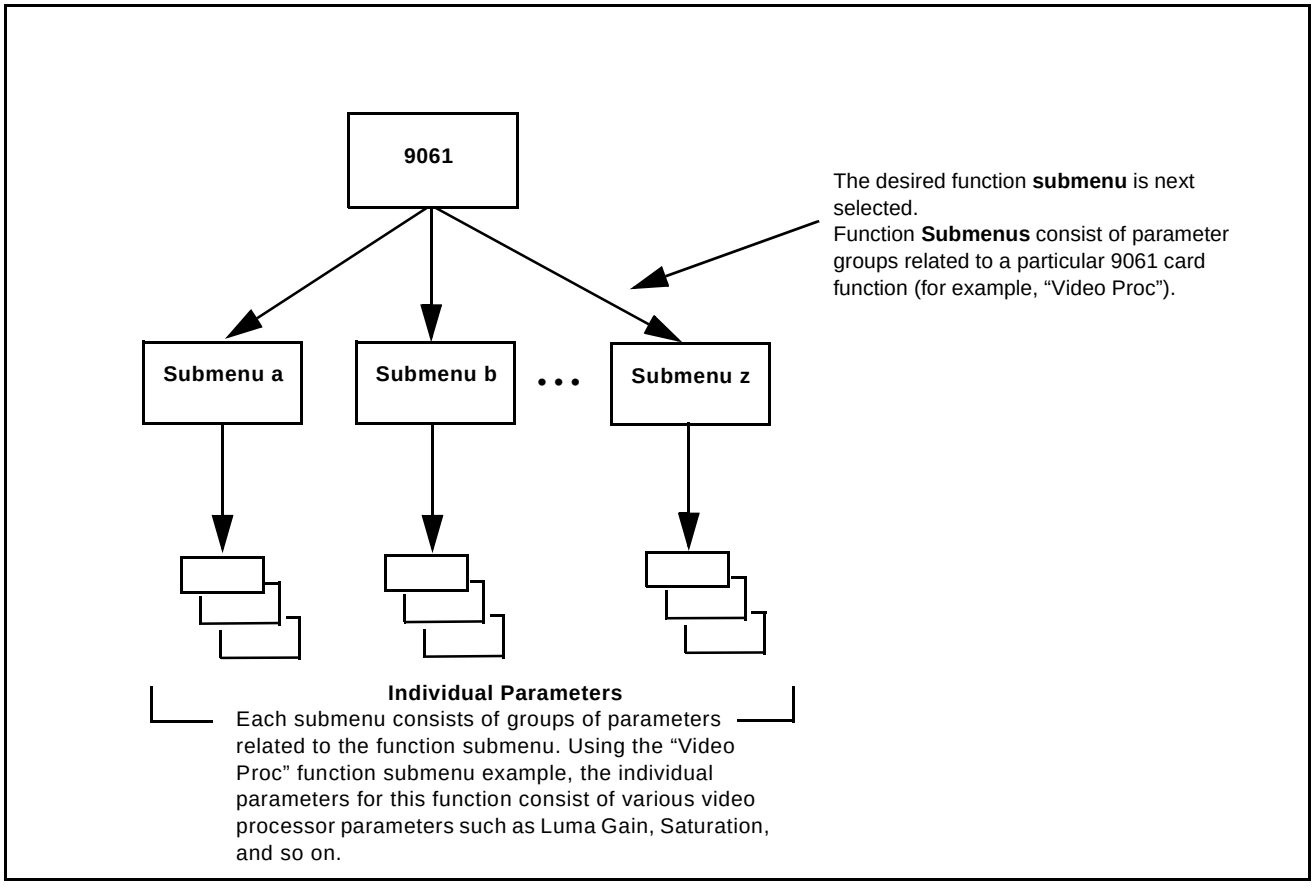
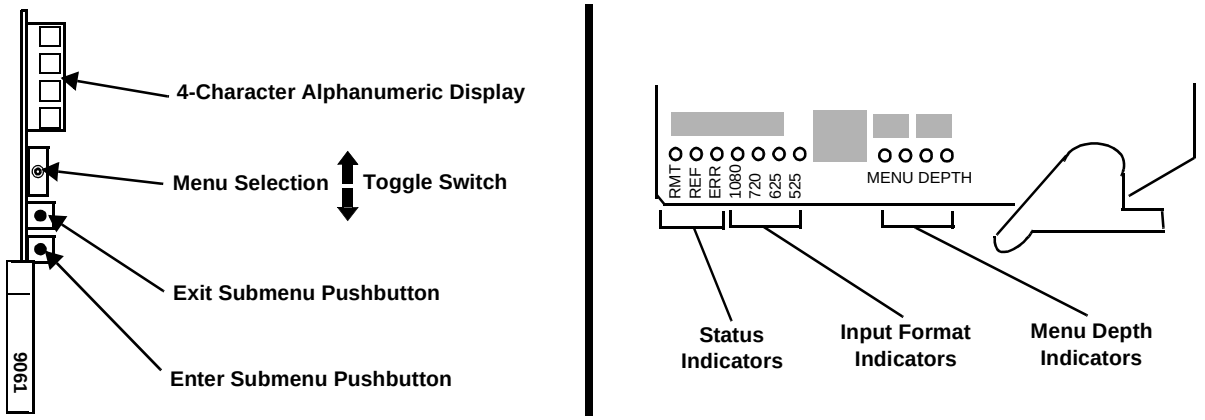


Figure 1 Function Submenu/Parameter Submenu Overview

Typical Card Edge Controls, Indicators, and Display

Figure 2 shows and describes typical card edge controls, indicators, and display.



Item	Function
Display	Displays 4-digit abbreviated code showing menu and submenu selections. When in a menu displaying a parameter setting, the display shows parametric scalar value (and +/- sign where applicable).
Menu Selection toggle switch	• When in a menu or submenu selection mode, moving the switch up or down toggles up and down through the menu or submenu item choices. • When in a mode where parameter setting is displayed, moving the switch up or down increase or decreases the parametric value.
Enter Menu Pushbutton	When pressed, selects and opens the current mode shown on the display. At this point, submenu choices within the selected menu are now displayed. Pressing the pushbutton again goes deeper into the submenu, now opening items subordinate to the selected submenu. In this manner, pressing the **Enter Menu** pushbutton navigates into a menu and its submenus.
Exit Menu Pushbutton	When pressed, moves in the opposite direction of the Enter Menu pushbutton. It closes the currently selected submenu and moves to the next higher menu, eventually moving completely out of the item's submenus. In this manner, pressing the **Exit Menu** pushbutton navigates out of a menu and its submenus.
Input Format Indicators	Four blue LEDs indicate the input signal raster format being received and locked onto by the 9061 (1080, 720, 625, 525). Continuous cycling of the LEDs indicates the 9061 has not locked onto a particular format (as in the case of no signal input).
Menu Depth Indicators	Four green LEDs show the currently selected menu/submenu depth navigation. • **No** LEDs indicate **top-level menu** items are now ready for selection. • **One** LED indicates **first submenu** items (items subordinate to currently selected menu item) are now ready for selection. • **Two** LEDs indicates **second submenu** items (items subordinate to currently selected submenu item) are now ready for selection. • **Three** LEDs indicates **third submenu** items (items subordinate to currently selected submenu item) are now ready for selection. Typically, this is the level where values can now be adjusted for a specific parameter. • **Four** LEDs indicate **fourth submenu** items are now ready for selection. (This depth is not applicable to most items.)
RMT LED	Blue LED flashes when 9061 is receiving control message from remote network control (e.g., DashBoard™ or Cobalt® Remote Control Panel)
REF LED	Blue LED illuminates when 9061 is receiving valid framesync when set up for framesync reference.
ERR LED	Red LED illuminates when 9061 unable to lock to framesync, or unable to lock to input standard.

Figure 2 Typical Controls, Indicators, and Display

Typical Card Edge Control Menu/Submenu Structure

(See below.) Using the menu system of group menus and submenus described earlier, the parameters/controls are organized into menus and submenus. As appropriate, a submenu similarly may have its own further additional subordinate submenus.

Menu Group Item	Menu Depth	Menu depth (as indicated by Menu Depth LEDs) none
Submenu 1 (Submenu 1 selection items)	1	● ○ ○ ○
Submenu 2 (Submenu 2 selection items)	2	● ● ○ ○
Submenu 3 (Submenu 3 selection items and/or parameter values)	3	● ● ● ○
Submenu 4 (Submenu 4 selection items and/or parameter values)	4	● ● ● ●

Figure 3 shows an example of using the card edge controls to access the Embedded Audio processing group menu (along with some of its submenus) to set the routing and signal processing parameters for an embedded audio channel. (A) through (S) in Figure 3 denote the discrete tasks required in performing the example setup using the card edge controls.

In this example, the following input processing is being performed:

- Embedded Channel 3 is selected as the source for Embedded Channel 1 within Embedded Audio Group 1.
- Gain is increased over unity default by 12.1.
- Phase is inverted.

In this example, the following output processing is being performed:

- The embedded Channel 1 path has been directed to AES Output Channel 1.
- Gain is increased over unity output default by 18.5.
- Phase is normal (non-inverted).

Due to the limited control available when using the built-in card edge control user interface, the navigation into and out of submenus shown in Figure 3 is required to perform the setup described above.

Embedded Audio

Select a top-level menu item (in this example, select **Aud** (embedded audio routing/control))

Submenu Depth

	1	2	3	4	
Ⓐ	**Embd** AES Tone				Press **Enter Menu** and in this example, select **Embd** (Embedded Audio Groups). This selects embedded audio function of the Audio processor.
Ⓑ		**Grp1** Grp2 Grp3 Grp4			Press **Enter Menu** again and in this example, select **Grp1** (Embedded Audio Group 1). This selects the embedded audio group to be accessed.
Ⓒ			**Enbl**		Press **Enter Menu** again and in this example, select **Enbl** (Enable).
Ⓓ				**On** Off	Press **Enter Menu** again and in this example, select **On**. This sets the selected embedded audio group to **Enabled**.
Ⓔ			**Ch01** Ch02 Ch03 Ch04		Press **Exit Menu** and in this example, select **Ch01** (Destination: Embedded Channel 1). This selects the embedded channel to be accessed.
Ⓕ				**Src** Gain Pol	Press **Enter Menu** and select in this example, **Src** (source for embedded channel 1). This selects the source for the embedded channel.
Ⓖ				Em01 Em02 **Em03** ...	Press **Enter Menu** again and in this example, select **Em03** (embeddded channel 3 as source for embedded channel 1). This selects embedded channel 3 as the source for embedded channel 1.
Ⓗ				Src **Gain** Pol	Press **Exit Menu** and in this example, select **Gain** (gain adjustment field for selected embedded audio channel).
Ⓘ				(gain value)	Press **Enter Menu** again and in this example, select a gain value of 12.1 for this channel.
Ⓙ				Src Gain **Pol**	Press **Exit Menu** and in this example, select **Pol** (phase for embedded channel 1).
Ⓚ				Norm **Inv**	Press **Enter Menu** again and in this example, select **Inv** (invert polarity for embedded channel 1). **(continued on next page)**

Figure 3 Card Edge Controls Setup of Example Embedded Audio Function Setup (sheet 1 of 2)

	Submenu Depth 1	2	3	4	(continued from previous page)
Ⓛ	Embd **AES** Tone				Go to submenu 1 and in this example, select **AES** (AES output channel selection). This selects an AES output channel as the output for this group.
Ⓜ		**Ch01** Ch02 Ch03 ...			Press **Enter Menu** and in this example, select **Ch01** (AES Output Channel 1).
Ⓝ			**Src** Gain Pol		Press **Enter Menu** again and select in this example, **Src** (source for AES Output Channel 1).
Ⓞ				**Em01** Em02 Em03 ...	Press **Enter Menu** again and in this example, select **Em01** (Embeddded Channel 1 as source for AES Output Channel 1).
Ⓟ			Src **Gain** Pol		Press **Exit Menu** and in this example, select **Gain** (gain adjustment field for selected AES output channel).
Ⓠ				(gain value)	Press **Enter Menu** and in this example, select a gain value of 18.5 for this channel.
Ⓡ			Src Gain **Pol**		Press **Exit Menu** and in this example, select **Pol** (polarity for Embedded Channel 1).
Ⓢ				**Norm** Inv	Press **Enter Menu** and in this example, select **Norm** (no invert for AES output channel 1).

Card Edge Setup Abbreviated Diagram

In Table 1, “Function Submenu List” abbreviated diagrams (as shown above and in the example to the right) show the navigation required to access a particular submenu item or parameter when using the card edge controls.

In this example, group enable for Embedded Audio Group 1 is being enabled.

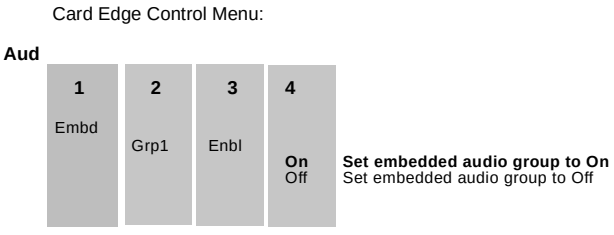


Figure 3 Card Edge Controls Setup of Example Embedded Audio Function (sheet 2 of 2)

Card Edge Display Orientation, Brightness, and Timeout Adjust

The card edge 4-Character Alphanumeric Display can be changed between vertical or horizontal character orientation to suit the mounting position of the card as shown and described below.

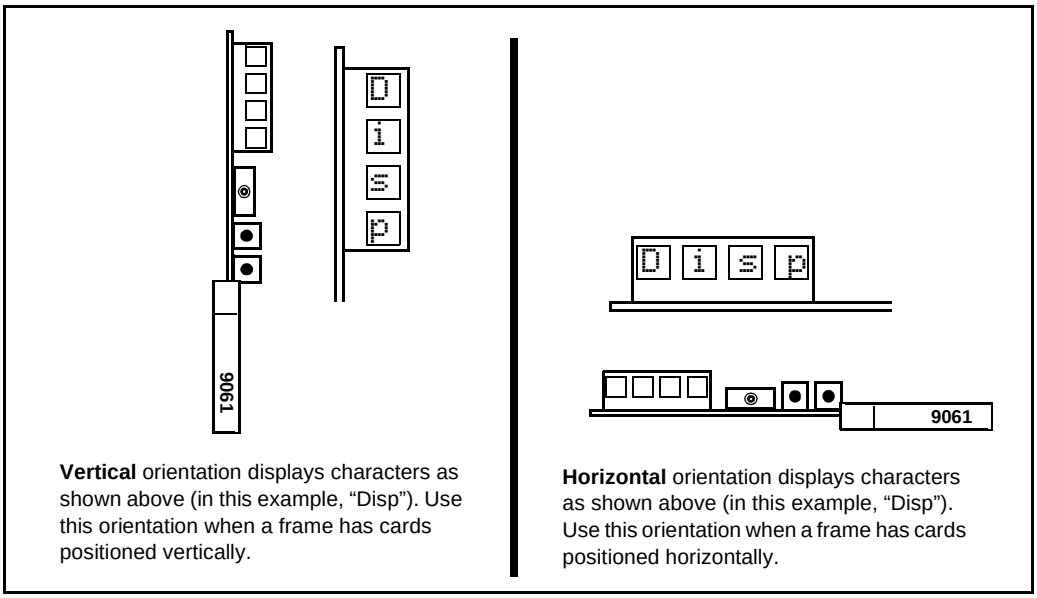
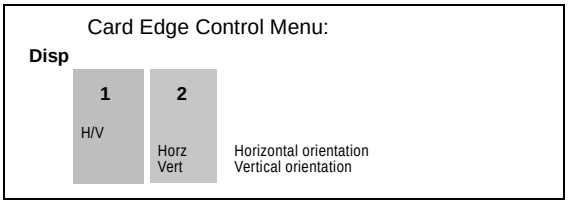


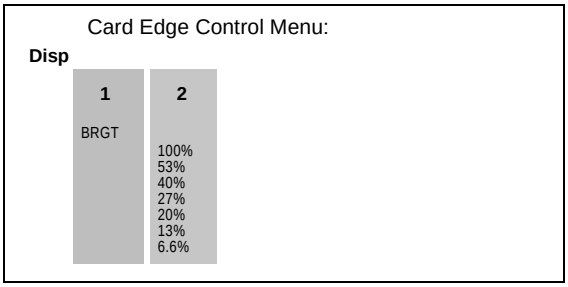
Figure 4 Card Edge Display Orientation

1. Access the **Displ** (Display) menu.
2. Select between Horizontal or Vertical as shown below.



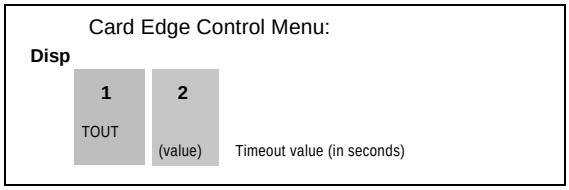
Adjust the display brightness as described below.

1. Access the **Displ** (Display) menu.
2. Select from the relative brightness levels as shown below.



The timeout period from when a menu is entered to when the display times outs (reverts to the default card model display) can be adjusted from 5 to 9999 seconds (166.7 minutes) as described below.

1. Access the **Displ** (Display) menu.
2. Use the up/down switch to enter the desired timeout value as shown below.



Checking Card Information

The operating status and software version the card can be checked using the card edge control user interface.

Checking Card Using Card Edge Controls

Info

1	2	
+POW		
	(value)	+12V Watts consumed
-POW		
	(value)	- 7.5V Watts consumed
SWR#		
	(value)	Software Release Number
SWB#		
	(value)	Software Build Number
FPG#		
	(value)	FPGA Build Number

Figure 5 Typical Card Info Utility

Typical Function Submenu List and Descriptions

Table 1 provides abbreviated menu structure charts showing the menu structure for accessing the function/parameter using the card edge controls.

Table 1 Function Submenu List

Video Signal Controls

• Input Video Preference

Vid

1	2	
Sorc		
	SDIO	SDI only
	SDIA	SDI over Analog
	ANAO	Analog only
	ASDI	Analog over SDI

• HD Analog Input Type

Vid

1	2	3	
Dec			
	HDIN		
		YPbP	YPbPr
		GBR	GBR

• SD Analog Input Type

Vid

1	2	3	
Dec			
	SDIN		
		CVBS	Composite
		Y/C	Y/C
		BETA	YPbPr BetaCam
		MII	YPbPr MII
		SMPT	YPbPr SMPTE

• NTSC Contains

Vid

1	2	3	
Dec			
	PED		
		0	0 IRE pedestal
		7.5	7.5 IRE pedestal

Audio Input Controls

• AES SRC

Aud

1	2	3	4	
AES				
	SBYP			
		AES(n)		Apply to AES pair (1 thru 8)
			On	SRC Bypass turned on
			Off	SRC Bypass turned off

• AES Passthrough

Aud

1	2	3	4	
AES				
	PASS			
		AES(n)		Apply to AES pair (1 thru 8)
			Off	Passthrough Disabled
			On	Passthrough Enabled

• Zero Delay Embedding

Aud

1	2	3	4	
AES				
	0DLY			
		AES(n)		Apply to AES pair (1 thru 8)
			Off	Zero-Delay Embedding Disabled
			On	Zero-Delay Embedding Enabled

Table 1 Function Submenu List — continued

Video Proc

• Video Proc

Vid

1	2	3	
Proc	Enbl	On	Video Proc On
		Off	Video Proc Off

• Reset to Unity

Vid

1	2	3	
Proc	Unty	Y?	Move toggle switch in either direction to confirm unity reset. Reject reset by pressing Exit Menu pushbutton.

• Luma Gain

Vid

1	2	3	
Proc	Gain	(gain value)	Luma gain in percent

• Luma Lift

Vid

1	2	3	
Proc	Lift	(lift value)	Luma lift in percent

• Color Gain

Vid

1	2	3	
Proc	Sat	(sat value)	Color gain in percent

• Color Phase

Vid

1	2	3	
Proc	Phas	(phase value)	Color phase angle applied in degrees

• Gang Luma and Color Gain

Vid

1	2	3	
Proc	Gang	On	Ganging On
		Off	Ganging Off

• Black Hard Clip

Vid

1	2	3	4	
Proc	Clip	BHCL	(value)	Clip value in percent; 0.1% precision

• White Hard Clip

Vid

1	2	3	4	
Proc	Clip	WHCL	(value)	Clip value in percent; 0.1% precision

• White Soft Clip

Vid

1	2	3	4	
Proc	Clip	WSCL	(value)	Clip value in percent; 0.1% precision

Table 1 Function Submenu List — continued

• Chroma Saturation Clip

Vid

1	2	3	4	
Proc	Clip	CSAT	(value)	Clip value in percent; 0.1% precision

Color Correction

• Color Corrector

Vid

1	2	3	
ClrC	Enbl	On	Color Corrector On
		Off	Color Corrector Off

• Reset to Unity

Vid

1	2	3	
ClrC	Unty	Y?	Move toggle switch in either direction to confirm unity reset. Reject reset by pressing Exit Menu pushbutton.

• Black Adj. (Green – Red – Blue)

Vid

1	2	3	4	
ClrC	OFFS	GRN		Select Green channel
		BLUE		Select Blue channel
		RED		Select Red channel
			(value)	Black (offset/lift) value in percent (0.1% precision)

• Gang Black Level Controls

Vid

1	2	3	4	
ClrC	OFFS	GANG	On	Ganging On
			Off	Ganging Off

• White Adj. (Green – Red – Blue)

Vid

1	2	3	4	
ClrC	GAIN	GRN		Select Green channel
		BLUE		Select Blue channel
		RED		Select Red channel
			(value)	Gain value in percent (0.1% precision)

• Gang White Level Controls

Vid

1	2	3	4	
ClrC	GAIN	GANG	On	Ganging On
			Off	Ganging Off

Table 1 Function Submenu List — continued

• Gamma (Green – Red – Blue)

Vid

1	2	3	4	
ClrC				
	GAMA			
		GRN		Select Green channel
		BLUE		Select Blue channel
		RED		Select Red channel
			(value)	Gamma value in percent (0.001% precision)

• Gang Gamma Controls

Vid

1	2	3	4	
ClrC				
	GAMA			
		GANG		
			On	Ganging On
			Off	Ganging Off

Scaler

• Scaler enable

Sclr

1	2	
Enbl		
	On	Scaler enabled
	Off	Scaler bypassed

• Current Input Format

Sclr

1	2	
In		
	5i--	525i
	6i--	625i
	7p--	720p
	1i--	1080i
	1p--	1080p

Note: Items shown in column **2** are for reference only. No input control is available in this mode.

"--" on display shows frame/field rate (as applicable) in first 2 most significant digits (e.g., "5i59" denotes 525i 59.94 Hz field rate).

• Current Output Format

Sclr

1	2	
Out		
	5i--	525i
	6i--	625i
	7p--	720p
	1i--	1080i
	1p--	1080p

Note: Items shown in column **2** are for reference only. No output control is available in this mode.

"--" on display shows frame/field rate (as applicable) in first 2 most significant digits (e.g., "5i59" denotes 525i 59.94 Hz field rate).

• SD: Convert To

Sclr

1	2	3	
SDIn			
	Out		
		SD	SD (same as input)
		720p	720p
		720f	720 film
		108i	1080i
		108p	1080p
		108f	1080 film
		FREF	Output Follows Reference In

• SD: Output Half-rate 720p

Sclr

1	2	3	
SDIn			
	H720		
		Yes	Yes
		No	No

• SD: Output PsF

Sclr

1	2	3	
SDIn			
	SDSF		
		On	On
		Off	Off

Table 1 Function Submenu List — continued

• SD: Aspect Ratio Conversion

Sclr

1	2	3	
SDIn	ARC		
		1.0HV	1.0HV (No correction)
		0.75H	0.75H (Pillar Box)
		1.33H	1.33H (Horizontal Center Cut)
		0.75V	0.75V (Letter Box)
		1.33V	1.33V (Vertical Center Cut)
		User	User Defined
		AFD	Follow AFD Settings

• SD: User-defined aspect ratio

Sclr

1	2	3	
SDIn	UsrH	(H zoom value)	H zoom in percent

1	2	3	
SDIn	UsrV	(V zoom value)	V zoom in percent

• SD: Top line suppression

Sclr

1	2	3	
SDIn	TopL	(value)	Top line suppression value

• SD: Side pixel suppression

Sclr

1	2	3	
SDIn	Side	(value)	Side pixel suppression value

• HD: Convert To

Sclr

1	2	3	
HDIn	Out		
		SD	HD (same as input)
		SD	SD (NTSC or PAL)
		720p	720p
		720f	720 film
		1080i	1080i
		1080p	1080p
		1080f	1080 film
		FREF	Output Follows Reference In

• HD: Output Half-rate 720p

Sclr

1	2	3	
HDIn	H720		
		Yes	Yes
		No	No

• HD: Output PsF

Sclr

1	2	3	
HDIn	HDSF		
		On	On
		Off	Off

• HD: Aspect Ratio Conversion

Sclr

1	2	3	
HDIn	ARC		
		1.0HV	1.0HV (No correction)
		0.75H	0.75H (Pillar Box)
		1.33H	1.33H (Horizontal Center Cut)
		0.75V	0.75V (Letter Box)
		1.33V	1.33V (Vertical Center Cut)
		User	User Defined
		AFD	Follow AFD Settings

Table 1 Function Submenu List — continued

• HD: User-defined aspect ratio

Sclr

1	2	3	
HDIn	UsrH	(H zoom value)	H zoom in percent
HDIn	UsrV	(V zoom value)	V zoom in percent

• HD: Top line suppression

Sclr

1	2	3	
HDIn	TopL	(value)	Top line suppression value

• Sharpness Level Control

Sclr

1	2	3	
DETE	LEVL	(value)	Sharpness level value

• Sharpness Threshold Control

Sclr

1	2	3	
DETE	THRS	(value)	Threshold level value

• Noise Reduction Control

Sclr

1	2	3	
DETE	NOIR	(value)	Noise reduction value

Overlays

• Safe Action Area

Over

1	2	3	
Safe	Actn	On	On
		Off	Off

• Safe Title Area

Over

1	2	3	
Safe	Titl	On	On
		Off	Off

• Safe Action/Title Area Color

Over

1	2	3	
Safe	Colr	WHT	White
		YELO	Yellow
		CYAN	Cyan
		GRN	Green
		MAGE	Magenta
		RED	Red
		BLUE	Blue
		BLAC	Black

• 0.75H Safe Action Area

Over

1	2	3	
0.75H	Actn	On	On
		Off	Off

Table 1 Function Submenu List — continued

• 0.75H Safe Title Area

Over

1	2	3	
0.75H	Titl	On	On
		Off	Off

• 0.75H Safe Action/Title Area Color

Over

1	2	3	
0.75H	Colr	WHT	White
		YELO	Yellow
		CYAN	Cyan
		GRN	Green
		MAGE	Magenta
		RED	Red
		BLUE	Blue
		BLAC	Black

• Center Cross

Over

1	2	3	
Cros	Enbl	On	On
		Off	Off

• Center Cross Color

Over

1	2	3	
Cros	Colr	WHT	White
		YELO	Yellow
		CYAN	Cyan
		GRN	Green
		MAGE	Magenta
		RED	Red
		BLUE	Blue
		BLAC	Black

• Overlays Follow ARC

Over

1	2	3	
ARC	Fllw	On	On
		Off	Off

Framesync

• Framesync Enable

FS

1	2	3	
FS	Enbl	Off	Off
		Ref1	Reference 1
		Ref2	Reference 2
		Vin	Input video

• Vertical Delay Control

FS

1	2	3	
FS	ADLY	(value)	Offset Value (in lines)

• Horizontal Delay Control

FS

1	2	3	
FS	uSOF	(value)	Offset Value (in µsec)

• Input Video Mode Fixed Delay Control

FS

1	2	3	
FS	IVFD	(value)	Offset Value

Table 1 Function Submenu List — continued

• Minimum Latency Frames Control

FS

1	2	3	
FS	LATF	(value)	Latency (in frames)

• Audio Offset from Video Control

FS

1	2	3	
FS	LATF	ADJ	(Value in msec)

• Loss of Input Signal Selection

FS

1	2	3	
FS	LOS	DISO	Disable output
		FRFM	Freeze to last frame
		FRCL	Freeze to color

• Framesync LOS Freeze Color

FS

1	2	3	
FS	LOSC	WHT	Whitet
		YELO	Yellow
		CYAN	Cyan
		GRN	Green
		MAGE	Magenta
		RED	Red
		BLUE	Blue
		GR10	Gray 10%

• Custom Color Hue

FS

1	2	3	
FS	CHUE	(value)	Value (in degrees)

• Custom Color Saturation

FS

1	2	3	
FS	CSAT	(value)	Value (in %)

• Reset/Resync Framesync

FS

1	2	3
FS	SYN	Y/N

Embedded Audio Group 1/2

Embedded Audio Group 3/4

• Group Enable

Aud

1	2	3	4	
Embd	Grp1			Group 1 select (range is group 1 thru group 4)
		Enbl		
			On	On (enabled)
			Off	Off (disabled)

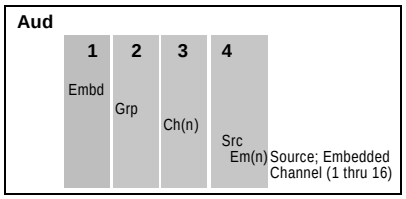
• Embedded Channel Source

Aud

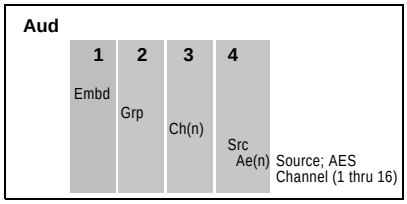
1	2	3	4	
Embd	Grp	Ch(n)		Destination channel number
			Src	Set up to select Source

Table 1 Function Submenu List — continued

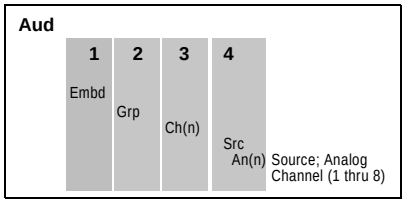
• Embedded Ch 1 thru Ch 16 as Source



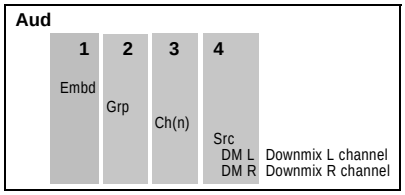
• AES Ch 1 thru AES Ch 16 as Source



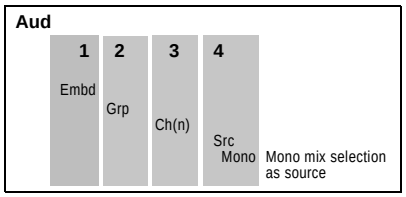
• Analog Ch 1 thru Ch 8 as Source



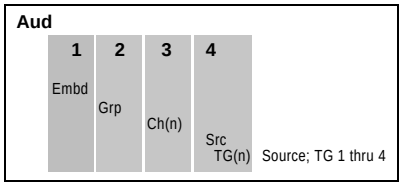
• Down Mix Left or Right as Source



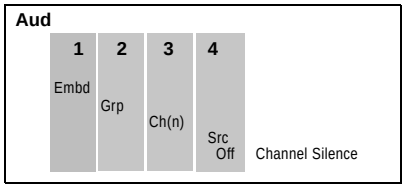
• Mono Mix as Source



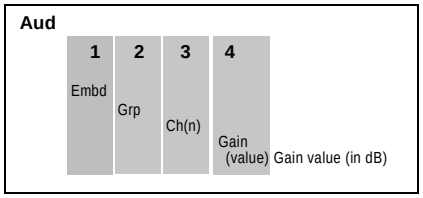
• Tone Generator 1 thru 4 as Source



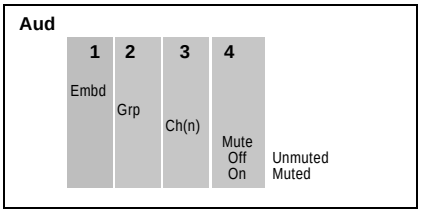
• Silence (Mute) as Source



• Gain (dB) Control



• Mute Control



• Phase Control

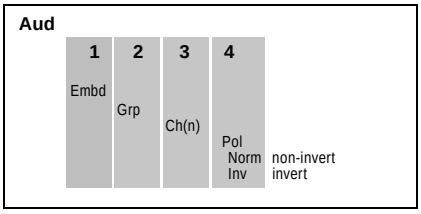
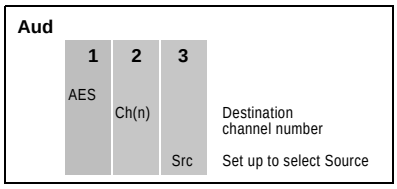


Table 1 Function Submenu List — continued

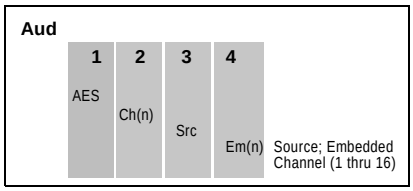
AES Audio Out Pairs 1-4

AES Audio Out Pairs 5-8

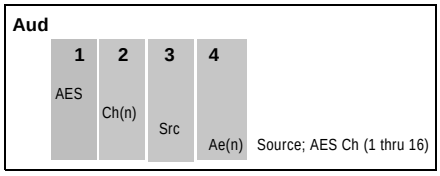
• AES Channel Source



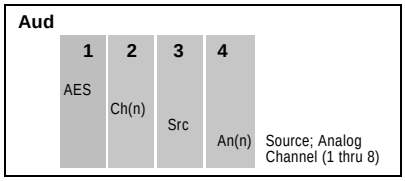
• Embedded Ch 1 thru Ch 16 as Source



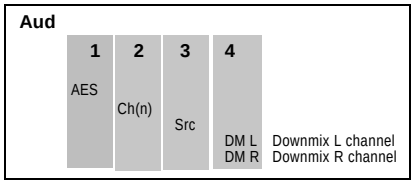
• AES Ch 1 thru AES Ch 16 as Source



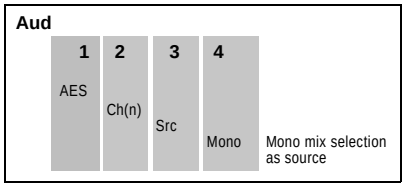
• Analog Ch 1 thru Ch 8 as Source



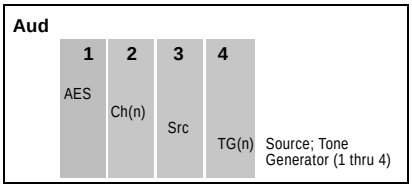
• Down Mix Left or Right as Source



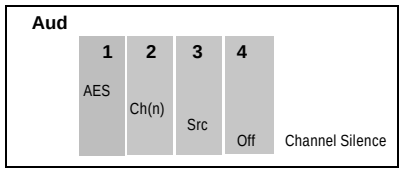
• Mono Mix as Source



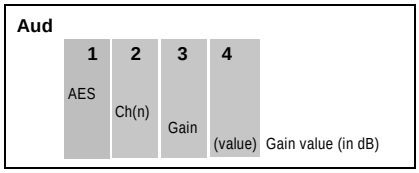
• Tone Generator 1 thru 4 as Source



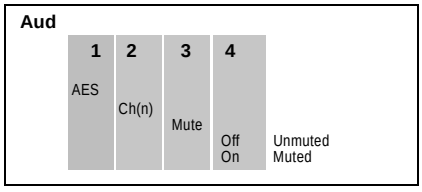
• Silence (Mute) as Source



• Gain (dB) Control



• Mute Control



• Phase Control

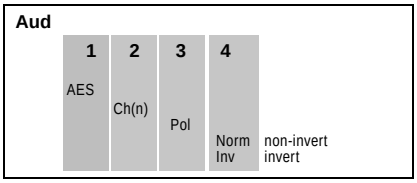


Table 1 Function Submenu List — continued

Dolby

• Metadata Embedding

Aud

1	2	3	
Dlby	DMEM	On	Embed metadata
		Off	Do not embed metadata

• Metadata Output Line

Aud

1	2	3	
Dlby	Line	(value)	Line number (9 thru 41)

Closed Captioning

• Closed Captioning On/Off

CC

1	2	
Enbl	Off	Closed Captioning function disabled
	On	Closed Captioning function enabled

• Closed Captioning Source

CC

1	2	
Src	V-IN	Input Video as CC source
	SDAN	Analog SD as CC source
	SDI	HD/SD-SDI as CC source

• Closed Captioning HD Output Line

CC

1	2	
HDL#	(value)	HD line number (9 thru 41)

Timecode

• Timecode Source Status Displays

TC

1	2	
ALTC	em(n)	Emb Ch source 01-16

• Incoming ATC Packet Removal Control

TC

1	2	
Rmvl	Off	Packet removal disabled
	On	Packet removal enabled

• Source Priority

TC

1	2	
PRI(n)		Priority (1 thru 4)
	None	No source selected
	SVIT	SDI VITC
	ATCL	ATC_LTC
	ATCV	ATC_VITC
	ALTC	Audio LTC

• SD VITC Waveform Insertion Control

TC

1	2	
SDVC	Off	SD VITC timecode insertion disabled
	On	SD VITC timecode insertion enabled

Table 1 Function Submenu List — continued

• VITC Waveform Output Line

TC

1	2	
VITO		
	(value)	VITC output 1 line number only (6 thru 22)

• SD ATC Insertion Control

TC

1	2	
SDAT		
	Off	SD ATC_VITC timecode insertion disabled
	On	SD ATC_VITC timecode insertion enabled

• HD ATC_VITC Insertion Control

TC

1	2	
HFVC		
	Off	HD ATC_VITC timecode insertion disabled
	On	HD ATC_VITC timecode insertion enabled

• HD ATC_LTC Insertion Control

TC

1	2	
HDLT		
	Off	HD ATC LTC timecode insertion disabled
	On	HD ATC LTC timecode insertion enabled

• ATC_VITC Legacy Support Control

TC

1	2	
AVLS		
	Off	ATC VITC legacy support disabled
	On	ATC VITC legacy support enabled

Tone Generator

• Frequency Selection Lists

Aud

1	2	3	
Tone			
	TG1 ... TG4		Select Tone Generator (1 thru 4)
		50 ... 16K	Select frequency for selected tone generator (in Hz)

Table 1 Function Submenu List — continued

Presets

• Preset Save and Load

Prst

1	2	3	
Slct	Pr#		Select preset number for save or load
	...		
Save	Y/N?		Save selected preset number Y/N
Load	Y/N?		Load into selected preset number Y/N
Fact	Y/N?		Revert to factory preset
SALP	#		Load preset as Advanced Setup for Analog video
SSLP	#		Load preset as Advanced Setup for SDI video

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