

SUPPLIED MATING						
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INTEGRITY CS SERIES A2HD510 PROCESSOR

Quick-Start Guide

Step (6) **INITIAL POWER UP**

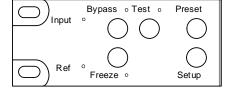
- Inspect all connections to the processor. Ensure that all cables are installed securely. •
- Attach power cord to rear panel main power connector and a source of power.
- Move power switch to the "ON" position. •

Step **BASIC OPERATION**

CONTROL PANEL LAYOUT AND OPERATION

Direct Entry Pushbuttons

 Test – Pressing Test switches output signal from active video source to a user-selectable test signal. A second pressing cancels test output and returns to video source. The Test LED illuminates when test output is active.



- Freeze Pressing Freeze freezes video • output signal based on a user-selectable freeze frame type. A second pressing cancels freeze output and returns to video source. The Freeze LED illuminates when freeze function is active
- Setup Setup causes control panel to access system set-up menu regardless of • which menu screen is currently displayed.

System Status Indicators

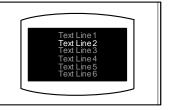
- Input The Input LED illuminates if video input signal is lost for any reason.
- Reference (Ref) The Ref LED illuminates if genlock reference source is lost for any • reason

Bypass and Preset

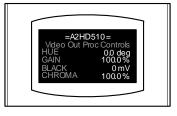
 Bypass and Preset pushbuttons and Bypass LED are not used in current configuration of processor.

Menu Display Screen

- Menus, operational parameters and system status are displayed on a six line screen, as illustrated.
- Menus are arranged in a tree structure, and in many instances, selecting an item brings up a branch menu with additional entries. Often a menu page has more items than can be shown on the display lines. To navigate these menus, use selector (SEL) knob to right of display to scroll through entries until desired entry is highlighted.
- Underscore marks before and after text identify a text entry that describes the function of the menu items below it. Example: _Video Config_ indicates scroll list under entry contains menu selection options for video configuration function.
- Data entry screens allow changes to operating • parameters or adjustments to system settings. Integrity CS menu structure uses a highlighted entry to indicate a selectable function modifiable value. In the example shown here, the value of all four entries are highlighted, and can be changed as desired



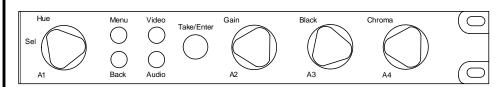




Step 7 Basic Operation (CONT.)

Values and parameters are modified by selecting new value or selection from a scrolling list of available options, or increasing/decreasing numerical values, by using rotary knobs on control panel. Data entry screens have a maximum of four selectable values or functions, each is software mapped to one control knob, beginning with knob A1 for first selectable entry and continuing in sequence to knob A4 for fourth selectable entry. In this example, HUE vector may be selected by rotating control knob A1, GAIN percentage by rotating knob A2, BLACK level by rotating A3 and CHROMA percentage by rotating A4.

Pushbuttons and rotary controls located to right of display screen navigate menu • screens and select or modify parameters.



Function Select Pushbuttons

- Menu Pressing Menu advances to next level of menu tree structure as determined by highlighted menu screen selection.
- Back Pressing Back causes previous menu to be recalled.
- Video Pressing Video accesses top level video status screen.
- Audio Pressing Audio accesses top level audio configuration menu.
- Take/Enter – When Take/Enter pushbutton is illuminated green, it is "live" and used in the current menu to execute a function or command. Once commands is executed. LED in button extinguishes. Take/Enter performs a function only when illuminated green.
- Some menus use Function Pushbuttons to execute commands on screen. Any button press required is prompted on individual menus.

Rotary Controls

- A1 (Sel) The Select (Sel) control, also labeled A1, scrolls through menu entries on scrollable screens. On data entry screens, A1 selects commands or values for entry mapped to it.
- A2 thru A4 – On data entry screens with more than one selectable entry, control knobs A2 thru A4 are software mapped sequentially to data entry prompts.

SYSTEM INITIALIZATION

- On power-up, a system initialization bootup procedure commences. Upon completion of initialization, the screen message shown here is displayed.
- Press SETUP to advance to next screen

PANEL SETUP SCREEN

- Panel Setup options allow operator to check • status and change panel operating parameters.
- To initiate operation of A2HD510, use SEL knob to highlight Select Frame/Card menu entry, as shown to right.
- Press MENU to advance to next screen.







Step (7)

SELECT CARD SCREEN

- to control
- ٠ as shown to right.
- ٠

A2HD510 TOP LEVEL MENU SCREEN

- shown to right.
- shown
- menu screen.

A2HD510 AUDIO - TOP LEVEL MENU SCREEN

- shown to right
 - as shown.
 - menu screen.

MENU SCREEN ACCESS CODE

- •
- 0999, as shown.

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BASIC OPERATION (CONT.)

This screen allows selection of frame or device

Use SEL knob to highlight A2HD510 menu entry,

Press MENU to advance to next screen.

Top level screen displays status of input and output signals and major/minor alarm status, as shown. From this screen you can branch to main video and audio operation menus.

Press MENU to select main video menu screen.

Press AUDIO to select main audio menu screen.

A2HD510 VIDEO - TOP LEVEL MENU SCREEN

Video configuration menus and sub-menus are accessed through the Video Config screen, as

Use **SEL** knob to highlight desired menu entry, as

Press MENU to select desired configuration

• Audio configuration menus and sub-menus are accessed through the Audio Config screen, as

• Use SEL knob to highlight desired menu entry,

Press MENU to select desired configuration

Certain menus are password protected. When a protected menu is accessed, password entry screen is displayed, as shown at right.

Use rotary knobs to set four highlighted digits to

Press TAKE to enter password and access desired configuration menu screen.



If you have any problems with or questions about your Integrity A2HD510 video processor, contact PESA Customer Service by phone or e-mail.

> 1+ (256) 726-9222 (800) 323-7372 (US and Canada) 1+ (256) 726-9268 service@pesa.com





=A2HD510=







INTEGRITY CS SERIES A2HD510 Processor

MENU TREE REFERENCE

THIS PORTION OF THE A2HD510 QUICK START GUIDE PROVIDES A LISTING, INDENTED BY LEVEL, OF ALL MAIN AND SUB MENUS AND THE ASSOCIATED COMMANDS FOR VIDEO AND AUDIO CONFIGURATION FUNCTIONS OF THE PROCESSOR.

=A2HD510=

/ideo Confia

Proc Controls

Input Sel

Color Corrector

A2HD510 VIDEO CONFIGURATION

VIDEO CONFIGURATION MENU SCREEN

- Video configuration menus and sub-menus are • accessed through the Video Config screen, as shown to right.
- Use SEL knob to highlight desired menu entry, as shown.
- Press MENU to select desired configuration menu screen
- ۰ Follow menu tree screen and command listings below

Video

--Video Config--

Proc Controls (A1 – Hue, A2 – Gain, A3 – Black, A4 – Chroma) Hue (A1 to adjust setting) Gain (A2 to adjust setting) Black (A3 to adjust setting) Chroma (A4 to adjust setting) **Color Corrector** White Balance Red (A2 to change value) Green (A3 to change value) Blue (A4 to change value) Black Balance Red (A2 to change value) Green (A3 to change value) Blue (A4 to change value) Gamma Balance Red (A2 to change value) Green (A3 to change value) Blue (A4 to change value) Black Blk Stretch (A2 to change value) Blk Lvl (A3 to change value) CC Memory Save Mem Bank (A2 to select desired memory location) Press TAKE to save settings to memory location CC Memory Recall Mem Bank (A2 to select desired memory location) Press TAKE to recall settings from memory location Input Sel Input Sel Input 1,2 (A1 to select desired setting) OnVidLoss Switch Input, Timeout, Black, Freeze, No Action (A2 to select desired setting) Analog Config Proc Controls (A1 - Hue, A2 - Gain, A3 - Black, A4 - Chroma) Hue (A1 to adjust setting) Gain (A2 to adjust setting) Black (A3 to adjust setting) Chroma (A4 to adjust setting) Press MENU to advance to next menu screen

Quick-Start Guide

User Reset

Info

Video

Video

Output

--Video Config-- (Cont.)

Anlg Video Cnfg				
Video AGC				
On, Off (A1 to select desired setting)				
H Delay				
(A1 to change value)				
Video Pos				
H Video Pos				
(A1 to change value)				
V Video Pos				
(A1 to change value)				
Input Setup (Black)				
0.0, 7.5 IRE In (A1 to select desired setting)				
Configure VBI				
Config Line/Field				
10/1, 10/222/1, 22/2 (A1 to select desired setting)				
Signal				
Luma Only, Pass Input, Blank				
(A2 to select desired signal type)				
Comb				
Off, On (A4 to select desired setting)				
Video Standard				
Displays current operating video standard: NTSC or PAL				
Press TAKE to toggle between NTSC and PAL standards				
Output Config				
Primary Output				
Format				
(A1 to select desired video format from listing)				
Freeze Mode				
Frame, Field 1, Field 2 (A2 to select desired setting)				
TAKE to set Aspect Ratios				
UC-AspRatio				
(A1 to change value)				
DC-AspRatio				
(A1 to select desired setting)				
DC-AR TrimH				
(A1 to change value)				
DC-AR TrimV				
(A1 to change value)				
Sec Asp Ratio				
4X3-Crop, 4X3-Squeeze, 16X9-LBox (A1 to select desired setting)				
HD Config				
HD Config				
HD CloCap				
Off, On (A1 to select desired setting)				
HD TimeCode				
Off, On (A1 to select desired setting)				
HD Legalizer				
Off, Tight, Nominal, Loose (A1 to select desired setting)				
-HD Timing-				
HD H Phase				
(A1 to change value)				
HD V Phase				
(A1 to change value) HD H Video Pos				
(A1 to change value)				
HD V Video Pos				

(A1 to change value)



--Video Config-- (Cont.)

SD Config --SD Config--SD CloCap Off, On (A1 to select desired setting) Translate Timecode Off, On (A1 to select desired setting) SD Legalizer RGB Off, Loose, Nominal, Tight (A1 to select desired setting) Enc Off, Loose, Nominal, Tight (A2 to select desired setting) Luma Off, Loose, Nominal, Tight (A3 to select desired setting) --SD Timing--SD H Phase (A1 to change value) SD V Phase (A1 to change value) SD H Pos (A1 to change value) SD V Pos (A1 to change value) Genlock Source Frame Connector, Board Connector (A1 to select desired source) Frame Rate (A1 to select desired frame rate setting) Test Pattern (A1 to select desired test pattern output from listing) Encoder Mode On, Test Bars, Off (A1 to select desired setting) Status and Alarms OvrTempThr Over Temperature Alarm Threshold (A1 to change value) Error Secs Press TAKE to reset error seconds display Press TAKE to initiate User Reset Module 1 Info Displays operational parameters for selected module Frame Info Displays operational parameters for chassis frame

MENU TREE CONTINUED ON NEXT PAGE

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Quick-Start Guide



Menu Tree Reference (Cont.)	A2HD510 Audio Configuration	Audio
Video	AUDIO CONFIGURATION MENU SCREEN	Audio Confi
Video Config (Cont.)	 Audio configuration menus and sub-menus are accessed through the Audio Config screen, as shown to right. Audio Config Audio Config Demb) Audio Config Ext 	Tone Ge
Eng Config		
Password Prompt Screen	Use SEL knob to highlight desired menu entry, as	
Use A1, A2, A3, A4 to select "0999"	shown.	
Press TAKE to proceed to Eng Config screens	 Press MENU to select desired configuration menu 	Tone Ge
Engineering Cnfgs	screen.	
Frame Config	 Follow menu tree screen and command listings 	
Set Frame IP	below	
A1 moves cursor left and right to select digit to change		
A2 to change value of highlighted digit	Audio	Embed
Reboot Frame	Audio Config	Linbed
Password Prompt Screen		
Use A1, A2, A3, A4 to select "0999"	Audio Config (Demb)	Adj Au
Press TAKE to initiate frame reboot	Output Sources	DeEmbe
Status	Chan (A1 to select channel 1 to 16)	
Status display of frame operating parameters	IsSource (A2 to select source from listing)	Embed
Press TAKE to refresh	SumWith (A3 to select source from listing)	
Module1 Cnfgs	SumBalance (A4 to change value)	Audio Config (Ex
Vid Processing	Chan LvI-Mute-Ph	Audio C
DeIntric	Audio Out Level (A1 to select group containing channel to adjust)	Input C
Field Merging, Temporal, Full Adaptive	(Using Chan 14 entry for reference)	Input Ga
	Ch 1 (A1 to change value)	
(A1 to select desired setting)	Ch 2 (A2 to change value)	
Full YUV Gamut	Ch 3 (A3 to change value)	
ON, Off (A2 to select desired setting)	Ch 4 (A4 to change value)	
Press TAKE to advance to next menu	Audio Out Mute (Same steps as Audio Out Level, above)	Input Ga
NoiseReduce	Audio Out Phase (Same steps as Audio Out Level, above)	
On, Off (A1 to select desired setting)	Bank LvI-ALC-Lim	
NR Level	Bank Level	
(A1 to change value)	Bank 1 (A1 to change value)	
Detail Enh	Bank 2 (A2 to change value)	Input Ga
(A1 to change value)	Bank 3 (A3 to change value)	
Module2 Cnfgs	Bank 4 (A4 to change value)	
Comb Mode	ALC	
Off, Line Adaptive, Frame Adaptive, Normal	Bank Select 1-4(A1 to select bank)	
(A1 to select desired setting)	ALC Enable	Input Ga
Comb Sensitivity	Off, On (A2 to select desired setting)	
Frame In-Ph (A1 to change value)	ALC Level (A3 to change value)	
Frame Out-Ph (A2 to change value)	ALC Rate (A4 to change value)	
Line In-Ph (A3 to change value)	Limiter	
Line Out-Ph (A4 to change value)	Bank Select 1-4(A1 to select bank)	Phase/M
	Lim Enable	rnase/w
	Off, On (A2 to select desired setting)	
	Lim Level (A3 to change value)	
	Lim Rate (A4 to change value)	
	Bank Config	
	(A1 to assign groups to bank 1)	
	(A2 to assign groups to bank 2)	
	(A3 to assign groups to bank 3)	
	(A4 to assign groups to bank 4)	
	Lip-Sync	
	Tracking	
	Slow, Medium, Fast (A1 to select desired setting)	
	Add Offset (A2 to change value)	
		٨



nfig-- (Cont.)

Gen Freq Tone Gen 1 (A1 to select desired operating frequency) Tone Gen 2 (A2 to select desired operating frequency) Tone Gen 3 (A3 to select desired operating frequency) Tone Gen 4 (A4 to select desired operating frequency) Gen Level Tone Gen 1 (A1 to change value) Tone Gen 2 (A2 to change value) Tone Gen 3 (A3 to change value) Tone Gen 4 (A4 to change value) d Enable On, Off (A1 to select desired setting) Audio Board-bed to DAS None, Grp 1, Grp 2, Grp 3, Grp 4 (A1 to select desired setting) d DAS Audio None, Grp 1, Grp 2, Grp 3, Grp 4 (A1 to select desired setting) (Ext) Config (DAS) t Control--Gain A1 A2 Linking Mono, Stereo (A1 to select desired setting) Gain A1 (Mono), Gain (Stereo), A2 to change value Gain A2 (Mono), Balance (Stereo), A3 to change value Gain A3 A4 Linking Mono, Stereo (A1 to select desired setting) Gain A3 (Mono), Gain (Stereo), A2 to change value Gain A4 (Mono), Balance (Stereo), A3 to change value Gain D1 D2 Linking Mono, Stereo (A1 to select desired setting) Gain D1 (Mono), Gain (Stereo), A2 to change value Gain D2 (Mono), Balance (Stereo), A3 to change value Gain D3 D4 Linking Mono, Stereo (A1 to select desired setting) Gain D3 (Mono), Gain (Stereo), A2 to change value Gain D4 (Mono), Balance (Stereo), A3 to change value e/Mute/Bypass CHANNEL A1, A2, A3, A4, D1, D2, D1-D2, D3, D4, D3-D4 (A1 to select desired setting) Phase Normal, Invert (A2 to select desired setting) Mute Off, On (A3 to select desired setting) Bypass Off, On (A4 to select desired setting)

MENU TREE CONTINUED ON NEXT PAGE

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MENU TREE REFERENCE (CONT.)

{Routing Config}

Routing Presets

Cfg-A, Cfg-B, Follow-VideoIn (A1 to select desired setting) Dig Source Group 1, Group 2, Group 3, Group 4, BNC (A1 to select desired setting) Source

Output Chan A1, A2, A3, A4, D1, D2, D3, D4 (A1 to select desired setting) Source

A1, A2, A3, A4, D1, D2, D3, D4, Tone (A2 to select desired setting) Sum With

A1, A2, A3, A4, D1, D2, D3, D4, Tone (A3 to select desired setting)

{Configuration} Delay Setup

CHANNEL

All, A1, A2, A3, A4, D1, D2, D3, D4 (A1 to select desired setting) Tracking

Internal, None, Ext TTL1, Ext TTL2 (A2 to select desired setting) Slew Rate

Slow, Medium, Fast (A3 to select desired setting) Offset (A4 to change value)

Embedding

Embed to Group Group1, 2, 3, 4, None (A1 to select desired setting) Embed Audio Pair Chans 1/2, Chans 3/4, Both (A1 to select desired setting)

Headroom

Analog 1 (A1 to change value) Analog 2 (A2 to change value) Analog 3 (A3 to change value) Analog 4 (A4 to change value)

Test Tone Config

CHANNEL A1, A2, A3, A4, D1, D2, D3, D4 (A1 to select desired channel) Frequency (A2 to change value) Level (A3 to change value)

AES Config

Output Sample Rate 32, 44.1, 48, 96 kHz (A1 to select desired setting) Output Word Length 16, 20, 24 bits (A1 to select desired setting) Output Sample Ref

AES Blk, Video (A1 to desired setting)

