

START

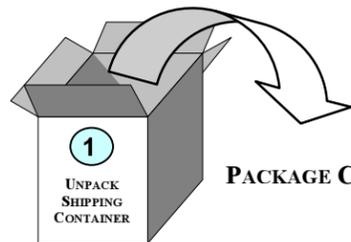
INTEGRITY CS SERIES A2HD531 PROCESSOR

Quick-Start Guide

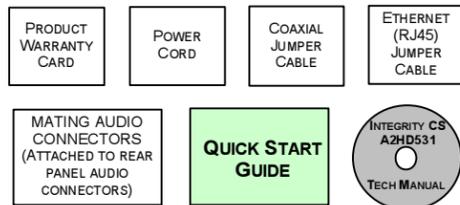


Step 1 UNPACK THE PROCESSOR RACK UNIT

- Carefully unpack your Integrity CS Unit from shipping container and verify package contents against contents listed below.
- Visually inspect the unit for any signs of damage in shipment or transit.
- If any components are missing or damaged, contact QuStream Customer Service.



PACKAGE CONTENTS:



Step 2 VERIFY ALL ITEMS SHOWN ABOVE ARE INCLUDED WITH UNIT

If any components are missing or damaged, contact QuStream Customer Service by phone or e-mail.

Customer Service: 1+ (256) 726-9222
 Toll Free: (800) 323-7372 (US and Canada)
 Fax: 1+ (256) 726-9268
 Email: service@qustream.com

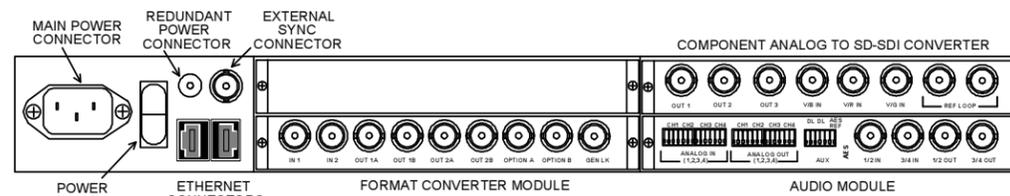
Step 2 GET ACQUAINTED

- The Integrity CS A2HD531 is a self-contained format converter and audio embedder/de-embedder. It accepts an input of component (RGB or YUV) analog video and produces outputs of HD-SDI, SD-SDI and option outputs selectable as SD-SDI or composite analog.
- Inputs are provided for both AES and analog audio sources for embedding. De-embedded audio is available as both AES pairs and analog, selectable from any de-embedded channel

Step 2 GET ACQUAINTED (CONT.)

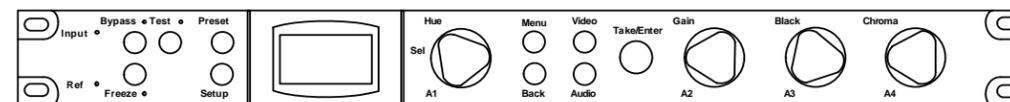
REAR PANEL LAYOUT

- Your Integrity CS A2HD531 is composed of a 1RU rack frame with a power supply and three processing modules, installed in card slots on the rear of the chassis. An illustration of the rear panel layout is shown below.



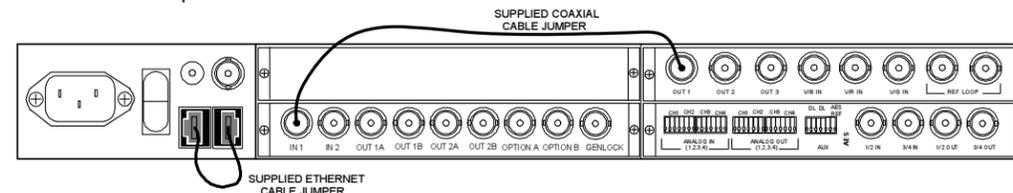
FRONT PANEL LAYOUT

- In most installations, the processor control panel is installed directly to the chassis frame. If your system is equipped with the remote panel option, a blank front panel with status LEDs is attached to the chassis. Whether local or remote, the control panel layout is as shown in the illustration below.



Step 3 INSTALL REAR PANEL JUMPERS

- Your Integrity CS Series processing product requires installation of rear panel jumpers for proper operation. These jumper cables are removed for shipping, but are included in the package with the processor.
- Refer to the following figure, and perform the steps to install these necessary jumper cables prior to use of the processor.



NOTE

- Your Integrity CS Processor WILL NOT function unless these connections are completed.
- Locate supplied coaxial cable jumper and supplied Ethernet cable jumper shipped with your Integrity processor.
- Install coaxial jumper between connector labeled Output (OUT) 1 on component analog to SD-SDI converter module and connector labeled Input (IN) 1 on format converter module. Refer to figure when installing this cable.
- If you are using the LOCAL control panel on the front of the frame to control this unit, install Ethernet cable jumper between the two Ethernet (RJ45) port connectors on rear panel of processor. If you are using a REMOTE control panel over the facility LAN, use an Ethernet switch or hub to provide an active network connection to BOTH rear panel Ethernet ports.

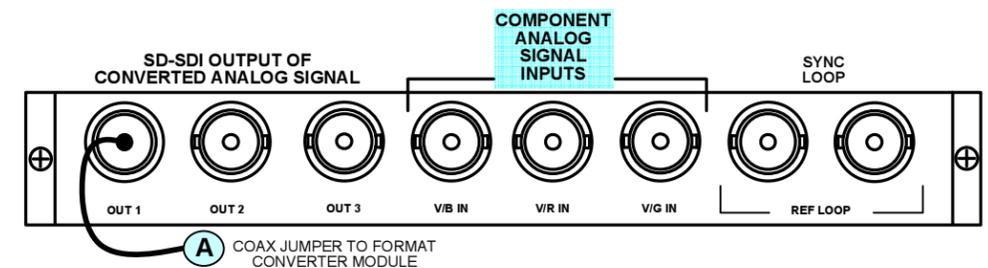
Step 4 MOUNT A2HD531 CHASSIS FRAME

- Considerations for mounting location include proximity to signal sources/destinations, availability of primary power and availability of a source of external sync.
- Mount the chassis frame in an equipment rack and secure frame to rack using four rack mount screws.
- Do not apply power until all external connections are made and verified.

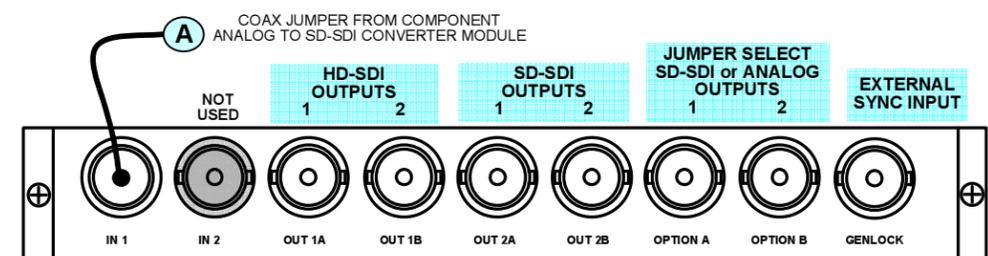
Step 5 VIDEO/AUDIO CONNECTIONS

- Complete video and audio connections to the A2HD531 using the diagrams below as a reference. Highlighted connection points indicate major function connections.

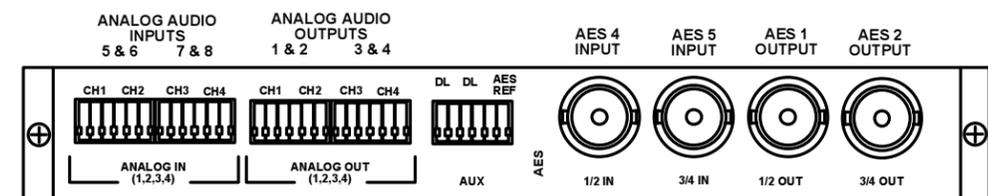
COMPONENT ANALOG TO SD-SDI CONVERTER MODULE CONNECTIONS



FORMAT CONVERTER CONNECTIONS



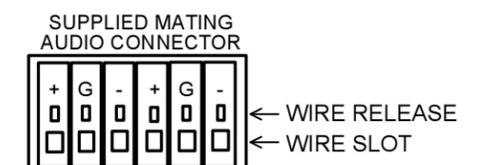
AUDIO MODULE CONNECTIONS



ANALOG AUDIO CONNECTORS

- The illustration and chart identify pin-out for a typical 6-pin analog audio connector.

Pin	Function
+	Positive Audio Signal
G	Shield
-	Negative Audio Signal



Step 6 INITIAL POWER UP

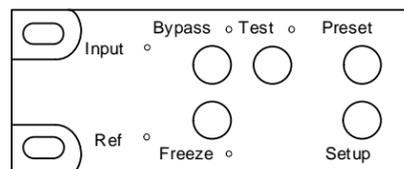
- Inspect all connections to the processor. Ensure that all cables are installed securely.
- Attach power cord to rear panel main power connector and a source of power.
- Move power switch to the "ON" position.

Step 7 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

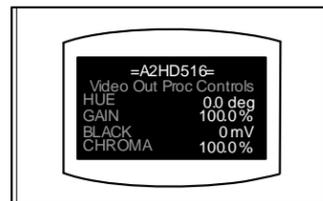
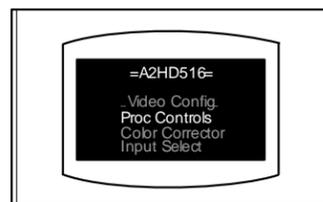
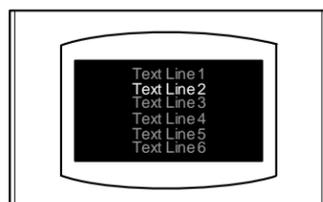
- **Input** – The **Input** LED illuminates if video input signal is lost for any reason.
- **Reference (Ref)** – The **Ref** LED illuminates if genlock reference source is lost for any reason.

Bypass and Preset

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

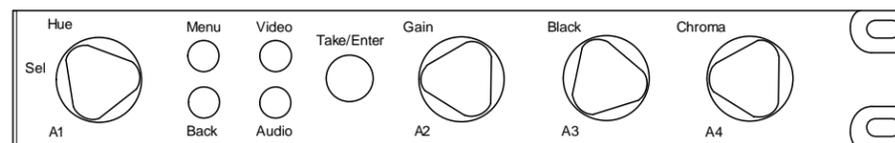
Menu Display Screen

- 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 boot-up 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 A2HD531, use **SEL** knob to highlight **Select Frame/Card** menu entry, as shown to right.
- Press **MENU** to advance to next screen.



Step 7 BASIC OPERATION (CONT.)

SELECT CARD SCREEN

- This screen allows selection of frame or device to control.
- Use **SEL** knob to highlight **A2HD531** menu entry, as shown to right.
- Press **MENU** to advance to next screen.



A2HD531 TOP LEVEL MENU 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** or **VIDEO** to select main video menu screen.
- Press **AUDIO** to select main audio menu screen.



A2HD531 VIDEO - TOP LEVEL 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.



A2HD531 AUDIO - TOP LEVEL MENU SCREEN

- Audio configuration menus and sub-menus are accessed through the Audio Config screen, as shown to right.
- Use **SEL** knob to highlight desired menu entry, as shown.
- Press **MENU** to select desired configuration menu screen.



MENU SCREEN ACCESS CODE

- Certain menus are password protected. When a protected menu is accessed, password entry screen is displayed, as shown to right.
- Use rotary knobs to set four highlighted digits to **0999**, as shown.
- Press **TAKE** to enter password and access desired configuration menu screen.



IN THE EVENT OF TROUBLE

If you have any problems with or questions about your QuStream A2HD531 video processor, contact QuStream Customer Service by phone or e-mail.

Customer Service: 1+ (256) 726-9222
Toll Free: (800) 323-7372 (US and Canada)
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