## 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
- If any components are missing or damaged, contact QuStream







### 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@gustream.com

## Step (2)

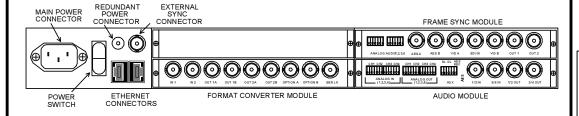
### **GET ACQUAINTED**

- The Integrity CS A2HD516 is a self-contained format converter and audio embedder/de-embedder. It accepts an input of composite (NTSC/PAL) analog video or SD-SDI digital video and produces outputs of HD-SDI, SD-SDI and option outputs selectable as SD-SDI or composite analog
- The included side-column keyer accepts an input of HD SDI
- 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.)

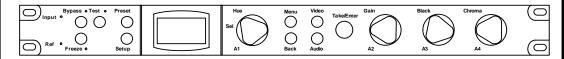
### REAR PANEL LAYOUT

 Your Integrity CS A2HD516 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

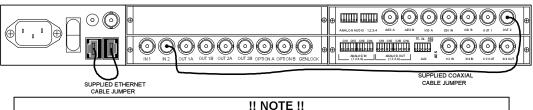
In most installations, the processor control panel is installed directly to the chassis frame. If your system is equipped with the remote panel option, a blank front panel with status LEDs is attached to the chassis. Whether local or remote, the control panel layout is as shown in the illustration below.



## Step

### 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.



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) 2 on frame sync module and connector labeled Input (IN) 2 on format converter module. Refer to figure when installing this
- 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 A2HD516 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

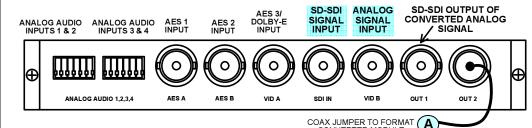
### !! NOTE !!

Your A2HD516 Processor is shipped from the factory with the UDC operating mode selected. This mode allows the processor to function as an analog or SD-SDI to HD converter WITHOUT using the included side column kever function.

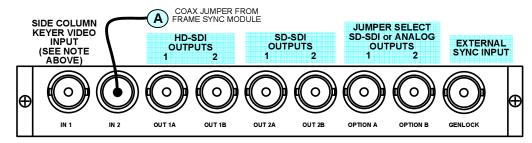
If you wish to use the side column keyer, you MUST provide an HD input signal for use as the kever insert video source, and you MUST change the processor to the UCP operating mode as shown in Step 8 of this guide. If UCP is selected as the operating mode and an HD signal is not applied to the key video input connector, the A2HD516 WILL NOT function properly!!

Complete video and audio connections to the A2HD516 using the diagrams below as a reference. Highlighted connection points indicate major function connections.

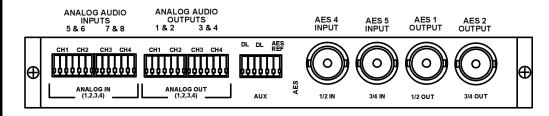
#### FRAME SYNC MODULE CONNECTIONS



### **FORMAT CONVERTER CONNECTIONS**



### **AUDIO MODULE CONNECTIONS**



Audio Module Connector Pin-Outs Shown on Next Page

# Quick-Start Guide

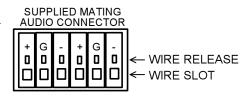


## Step (5) VIDEO/AUDIO CONNECTIONS (CONT.)

### **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.

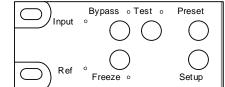
## Step (7)

### 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**

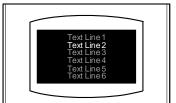
- Input The Input LED illuminates if video input signal is lost for any reason.
- Reference (Ref) The Ref LED illuminates if genlock reference source is lost for any

### **Bypass and Preset**

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

### Menu Display Screen

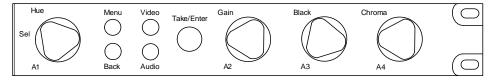
Menus, operational parameters and system status are displayed on a six line screen, as illustrated.



# Step

### BASIC OPERATION (CONT.)

- 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.
- 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.

- 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.

## Step (7)



### BASIC OPERATION (CONT.)

#### 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 A2HD516, use SEL knob to highlight Select Frame/Card menu entry, as shown to right.
- Press MENU to advance to next screen

### SELECT CARD SCREEN

- This screen allows selection of frame or device
- Use SEL knob to highlight A2HD516 menu entry, as shown to right.
- Press MENU to advance to next screen.

#### **A2HD516 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
- Press AUDIO to select main audio menu screen

### A2HD516 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
- Press **MENU** to select desired configuration menu screen.

### A2HD516 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,
- Press **MENU** to select desired configuration menu screen.













## **Quick-Start Guide**



## Step (

### **BASIC OPERATION (CONT.)**

### MENU SCREEN ACCESS CODE

- 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 0999, as shown.
- Press **TAKE** to enter password and access desired configuration menu screen.



## Step (8)

### USING SIDE COLUMN KEYER (IF DESIRED)

Your A2HD516 Processor is shipped from the factory with the UDC operating mode selected. This mode allows the processor to function as an analog or SD-SDI to HD converter WITHOUT using the included side column keyer function.

To use the side column keyer, you MUST provide an HD keyer input video signal and change the processor to the UCP operating mode.

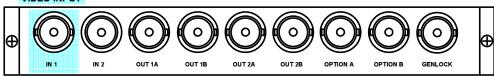
If UCP is selected as the operating mode and an HD signal is not applied to the key video input connector, the A2HD516 WILL NOT function properly!!

#### CONFIGURING A2HD516 FOR SIDE COLUMN KEYING

Connect the keyer video source to the Input (IN) 1 BNC on the rear panel of the format converter module as shown below. This video source must be an HD signal.



### **KEYER VIDEO INPUT (FORMAT CONVERTER MODULE)**



- Access the Change Mode function from the Video Configuration menu as directed in the A2HD516 Video Configuration command listing of the Menu Tree Reference portion of this guide.
- Access to the Change Mode function is password protected, as shown at right.
- Use rotary knobs to set four highlighted digits to 0999. as shown.
- Press **TAKE** to enter password and access Change Mode menu screen.
- Rotate the Select (Sel) control (A1) until the "Switch to UCP" option is displayed, as shown.
- Press **TAKE** to reboot the processor and change operating mode of processor.
- If you wish to return to UDC mode, access Change Mode and select the "Switch to UDC" option and press TAKE to change operating





### MENU TREE REFERENCE

THIS PORTION OF THE A2HD516 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.

### **A2HD516 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
- Press MENU to select desired configuration menu
- 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 Select

Input 1,2 (A1 to select desired setting)

OnVidLoss

Off, Black (A2 to select desired setting)

### **Anlg-SD Select**

SDI, Analog-A, Analog-B (A1 to select desired setting)



### Output

=A2HD516=

### **{Output Config}**

**Primary Output** 

**Format** 

A1 to select desired video format from listing

Freeze Frame

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 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

### SD Config

### **{SD Config}**

SD CloCap

Off, On (A1 to select desired setting)

Translate Timecode

Off, On (A1 to select desired setting)

SD Legalizer

Luma Limit

Off, Loose, Nominal, Tight

A1 to select desired setting

**Encoded Limit** 

Off, Loose, Nominal, Tight

A1 to select desired setting

**RGB Limit** 

Off, Loose, Nominal, Tight

A1 to select desired setting

VBI Legalizer

Is Off, Follows Main

A1 to select desired setting

MENU TREE CONTINUED ON NEXT PAGE



## MENU TREE REFERENCE (CONT.)

### **(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)

### **Noise Reduction**

Recursive Filter

Off, Auto, High, Low (A1 to change value)

Measured SNR (display)

### **Hot Switch**

A1 to select desired Hot Switch action from listing

#### **Status and Alarms**

OvrTempThr

Over Temperature Alarm Threshold (A1 to change value)

Press TAKE to reset error seconds display

### **User Reset**

Press TAKE to initiate User Reset

### **Change Mode**

Password Prompt Screen

Use A1, A2, A3, A4 to select "0999"

Press TAKE to proceed to Change Mode screen

Change Mode

UDC, UCP (A1 to select desired setting)

Press TAKE to toggle mode selection

### Info

Module 1 Info

Displays operational parameters for selected module

Frame Info

Displays operational parameters for chassis frame

## Quick-Start Guide

### **Eng Config**

Password Prompt Screen

Use A1, A2, A3, A4 to select "0999"

Press TAKE to proceed to Eng Config screens

### {Engineering Cnfqs}

Frame Config

Set Frame IP

A1 moves cursor left and right to select digit to change

A2 to change value of highlighted digit

Reboot Frame

Password Prompt Screen

Use A1, A2, A3, A4 to select "0999"

Press TAKE to initiate frame reboot

Status

Status display of frame operating parameters

Press TAKE to refresh

### {Module1 Cnfqs}

Vid Processing

**Full YUV Gamut** 

ON, Off (A1 to select desired setting)

Press TAKE to advance to next menu

NoiseReduce

On, Off (A1 to select desired setting)

NR Level

A1 to change value

Detail Enh

A1 to change value

#### {Module2 Vid Cnfqs}

Test Patterns

Test Pattern (A1 to select desired test pattern from listing)

En/Dis (Press TAKE to enable/disable dynamic filter)

Coring (A1 to change value)

Luma Filter

Wide, Soft, Shaped, Dynamic (A2 to select desired setting)

Flat, Shaped Dynamic, Flat Dynamic (A3 to select desired

setting)

Averaging

Off, Forced, High, Medium, Low (A4 to select desired setting)

Video-In Proc

Hue (A1 to adjust setting)

Gain (A2 to adjust setting)

Black (A3 to adjust setting)

Chroma (A4 to adjust setting)

### {Analog In Config}

Comb Mode

Off, Line Adaptive, Frame Adaptive, Normal

A1 to select desired setting

Comb Sensitivity

Frame In-Ph (A1 to change value)

Frame Out-Ph (A2 to change value)

Line In-Ph (A3 to change value)

Line Out-Ph (A4 to change value)

Video TBC

Off, On, Auto (A1 to select desired setting)

Video AGC

Off, On (A1 to select desired setting)

### **{Additional Config}**

Video Standard

Displays current operating video standard: NTSC/525 or PAL/625

Press TAKE to toggle between NTSC and PAL standards

Video Timina

Genlock

**Genlock Status** 

Genlock Source Status Display (OK)

**Genlock Source** 

Frame Connector, Board Connector

A1 to select desired source

Genlock Timina

V Phase (A1 to change value)

H Phase (A2 to change value)

Video Pos

H Video Pos

A1 to set desired position

V Video Pos

A1 to set desired position

Freeze Mode

Frame, Field 1, Field 2 (A1 to select desired setting)

Configure VBI

Confia Line/Field

10/1, 10/2....22/1, 22/2 (A1 to select desired setting)

A2 to select desired signal type from listing

0.0, 7.5 IRE (A3 to select desired setting)

Off, On (A4 to select desired setting)

Press TAKE to initiate User Reset



MENU TREE CONTINUED ON NEXT PAGE

# **Quick-Start Guide**



## MENU TREE REFERENCE (CONT.)

### **A2HD516 AUDIO CONFIGURATION**

#### **AUDIO CONFIGURATION 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.
- Follow menu tree screen and command listings below



### Audio

### **{Audio Config}**

### Audio Config (Demb)

### **Output Sources**

Chan (A1 to select channel 1 to 16)

IsSource (A2 to select source from listing)

SumWith (A3 to select source from listing)

SumBalance (A4 to change value)

### Chan Lvl-Mute-Ph

Audio Out Level

A1 to select group containing channel to adjust

(Using Chan 1...4 entry for reference)

Ch 1 (A1 to change value)

Ch 2 (A2 to change value)

Ch 3 (A3 to change value)

Ch 4 (A4 to change value)

Audio Out Mute (Same steps as Audio Out Level, above)

Audio Out Phase (Same steps as Audio Out Level, above)

### Bank LvI-ALC-Lim

Bank Level

Bank 1 (A1 to change value)

Bank 2 (A2 to change value)

Bank 3 (A3 to change value)

Bank 4 (A4 to change value)

### ALC

Bank Select 1-4(A1 to select bank)

ALC Enable

Off, On (A2 to select desired setting)

ALC Level (A3 to change value)

ALC Rate (A4 to change value)

### Limiter

Bank Select 1-4(A1 to select bank)

Lim Enable

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)

### **Tone 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)

### **Tone 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)

#### **Embed Enable**

On, Off (A1 to select desired setting)

### {Adj Audio Board}

#### **DeEmbed to DAS**

None, Grp 1, Grp 2, Grp 3, Grp 4 (A1 to select desired setting)

### **Embed DAS Audio**

None, Grp 1, Grp 2, Grp 3, Grp 4 (A1 to select desired setting)

### Audio Config (Ext 1)

### **Output Sources**

Chan (A1 to select channel 1 to 16)

IsSource (A2 to select source from listing)

SumWith (A3 to select source from listing)

SumBalance (A4 to change value)

### **AES Sources**

AES-1.1 (A1 to select source from listing)

AES-1.2 (A2 to select source from listing)

AES-2.1 (A3 to select source from listing)

AES-2.2 (A4 to select source from listing)

#### Chan Lvl-Mute-Ph

Audio Out Level (A1 to select group containing channel to adjust)

(Using Chan 1...4 entry for reference)

Ch 1 (A1 to change value)

Ch 2 (A2 to change value)

Ch 3 (A3 to change value)

Ch 4 (A4 to change value)

Audio Out Mute (Same steps as Audio Out Level, above)

Audio Out Phase (Same steps as Audio Out Level, above)

### Bank LvI-ALC-Lim

### Bank Level

Bank 1 (A1 to change value)

Bank 2 (A2 to change value)

Bank 3 (A3 to change value)

Bank 4 (A4 to change value)

### ALC

Bank Select 1-4(A1 to select bank)

ALC Enable

Off, On (A2 to select desired setting)

ALC Level (A3 to change value)

ALC Rate (A4 to change value)

#### Limiter

Bank Select 1-4(A1 to select bank)

Lim Enable

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)

### **Analog In Gain Trim**

Analog In 1 (A1 to change value)

Analog In 2 (A2 to change value)

Analog In 3 (A3 to change value)

Analog In 4 (A4 to change value)

#### Tone Gen Freg

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)

### Tone 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)

**Embed Enable** 

On, Off (A1 to select desired setting)



MENU TREE CONTINUED ON NEXT PAGE

# **Quick-Start Guide**



## MENU TREE REFERENCE (CONT.)

**Audio Config (Ext 2)** 

{Input Control}

**Input 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

Input Gain A3 A4

Linkina

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

Input 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

Input 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

### Phase/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)

Off, On (A4 to select desired setting)

### **{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)

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)

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)

### IN THE EVENT OF TROUBLE

If you have any problems with or questions about your QuStream A2HD516 video processor, contact QuStream Customer Service by phone or e-mail.

1+ (256) 726-9222 **Customer Service:** 

(800) 323-7372 (US and Canada) Toll Free:

1+ (256) 726-9268 Fax: service@gustream.com Email:

