# Multi-CODEC HD 422 Encoder

### **Getting Started**

Thank you for your purchase of the Adtec mediaHUB-HD 422 Encoder. This Multi-CODEC Encoder supports both MPEG 2 and MPEG 4 AVC standard and high definition encoding at 420 and 422 profiles. Further instructions are available via the manual integrated into the on-board software. You can view it by looking for the HELP tab once your unit is powered up and you are connected to the web-application. See back for more details. This manual and the most recent firmware are available on our support website, www.adtecinc.com. Advanced users can also find direct API command help as part of the on-board web application.

#### Front Panel LEDs:

#### Encode

- O Not Active
- Pre-rolling (Studio Encoding)
- Encoding
- Transition (Encoding to Idling)

#### Video

- O No Video (Audio Only)
- Video Present
- Not Supported
- No Video Present

#### Resolution

○ Standard Definition (NTSC / PAL)

Video

Decoder

CDE/ASI Resolutio

Confidence Decoding

ASI Recieving

Resolution

- 1080i HD
- 720p HD

#### Audio 1 - 4

Multi-CODEC

HD 422

Encoder

Decode

CDE/ASI

Not Active

Decoding

- O Audio Not Enabled
- Audio Enabled

## Control

- O Control Mode Off Control Detected/Remote Mode
- Control Detected/Local Mode

#### Alarm

- O No Encoder Alarm
- Encoder Alarm

#### MP2/AVC

- Encoding MPEG 2
- Encoding MPEG 4 AVC

#### 420/422

- Encoding 4:2:0 Chroma
- Encoding 4:2:2 Chroma

Alarm

Encoder Encoder System Decoder Transmit Video Audio Login Status Sample Freq. Status Duration Conf. Decode Rate A1 A2

MODE Use Mode Button to move through top layer menus.

SELECT Use select to enter into edit mode and ENTER enter to save selection.

 $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$  Use arrows for navigation in submenus.

Front Panel Menus:





#### Link

- O No Link Detected
- Link Active



Encoder

Audio 1

Audio 3

Audio 2

Contro

Audio 4 MP2/AVC 420/422

Sampling Rate

**Front Panel Status** 

Video Resolution Frame Rate Video Bit Rate

1920x1080 29i 33.77M

1DD 192K 2DD 192K 48

Audio Input 1 & 2

### **Getting Connected**

Carefolder an Davida

To begin, you will need to connect to your mediaHUB-HD 422 via ethernet directly, or by adding the mediaHUB-HD 422 to your local area network.The default address for all Adtec devices is 192.168.10.48.

To connect directly to the device, make sure that your computer and the device have IP addresses within the same IP class range (ex. 192.168.10.48 for the device and 192.168.10.49 for your computer). If you need to change the IP address of the device, this can be done via the front panel, System > Network menu. Using a CAT 5 crossover cable, connect one end to your computer and the other to the Ethernet port found on the processor section of the back panel. (Some computers can auto negotiate the connection and a crossover may not be necessary.)

To add the device to a LAN, connect a standard CAT 5 Ethernet cable to your network router and then to the Ethernet port on the back of the device. If your network is DHCP enabled and you prefer that over a static IP, you can turn on DHCP for the device via the front panel, System > Network menu.

### **Web-Based Control Application**



the device. Ex. http://192.168.10.48.

Adtec Digital has adopted zero-configuration networking technology, streamlining the setup and configuration processes for our products. The use of this technology enables automatic discovery of Adtec devices and services on an IP network. Used in tandem with the web-based control and configuration applications we can now provide 1-click access to any device.

By using the built-in Bonjour<sup>®</sup> locater in Apple's<sup>®</sup> Safari<sup>®</sup> browser or the plug-ins readily available for IE<sup>®</sup> or Firefox<sup>®</sup> browsers, users can locate all of the Adtec devices on a network by referencing the serial number on the back of the device. Clicking on the unit in the Bonjour<sup>®</sup> list will re-route you to a login page. If you do not wish to use Bonjour, you can reach the device's web application by pointing your browser to the IP Address of

The left panel of the application will report current status in real-time while the right panel tabs will allow you to configure your device. Additional hints regarding configuration options can be found by clicking on

the hints ⑦ buttons associated with each field or group of fields.

You will be prompted for a username and password.

The default username is 'adtec'. The default password is 'none'.

Confidence Deco		
ASI IN	Asynchronous Serial Interface per EN500083-9 BNC 75 Ohm.	
HD/SD SDI Out	User Defined (D1-1080i). SMPTE (SD)259/(HD)292 Video and (SD)272/(HD)299 Audio	
HDMI	HDMI v1.3, HDCP v1.2, and DVI v1.0 compliant output.	
GigE	MPEG2 or RTP multicast transport egress port (SMPTE 2022)	
CVBS Out	75 Ohm terminated NTSC or PAL D1 Composite Video Output	
Processor	out J- ASI	
COM2	API Serial Communication Interface	
COM1	Serial Port Used for Troubleshooting (Terminal)	
Ethernet	10/100 base T ethernet interface	
USB 2.0	Not Currently Supported	
Encoder	CONFIDENCE	
ASI OUT	75 Ohm source ASI x3 per EN500083-9	
CVBS In	75 Ohm terminated NTSC or PAL D1 Composite Video Input	the second s
SDI In	75 Ohm terminated Input, Video & Audio (SMPTE 259M for SD & SMPTE 292M for HD) BNC	
SDI Out	75 Ohm re-clocked source matched to Input Signal	
RS422	Sony 9-pin electrical and protocol tape deck interface. Controller and Device Modes	
GPIO	Tally and Control Port	
AES Audio In 1-4	75 Ohm AES-3 per AES3-2003	
AES Audio Out 1-2	Compressed Dolby Bit Stream Out	ENC
Analog Audio In	Stereo Pairs 1 and 2 600 Ohm Balanced.	Incoder and the second s
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