System

Login

Duration

Network Menu

Time Menu

NTP Menu

Alarm

**SNMP Menu** 

COM<sub>2</sub>

Feature Menu

Name

Firmware

**Backlight Dim** 

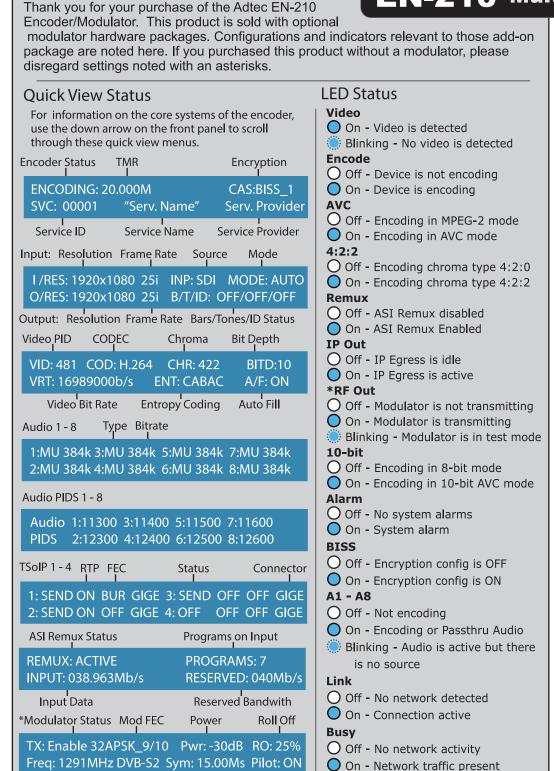
CAS

Mode

Clear SW

User ID 1

User ID 2



Services	*RF Tx	IP Tx	Video	Audio	F
TS Mux Rate	Transmit	<< 1 - 4 >>	Input	<< 1 - 2 >>	Tra
ABR Mode	Туре	Mode	SDI Mode	Surround Mode	P
Program Num	Mode	IP Tx Mode	CVBS Input Mode	Surround Anchor	F
Service Name	Local Oscillator	Tx IP Address	CODEC	<< 1 - 8 >>	Vi
Service Provider	Uplink Freq	Tx Port	Entropy Coding	Input	Au
Tables	Frequency(MHz)	Tx GW Address	Chroma	Mode	Au
ASI Rx Mode	Power(dBm)	DVB per IP	Deblock Filter	Туре	Au
ASI Mode	Spectrum Invrsn	RTP	Video Field Cod.	Rate	Au
ASI Reserve	Fec Frame	FEC Mode	Video Rate	Level	Au
Carrier ID Menu	Roll Off	FEC L	Autofill	Analog Level	Au
Bars,Tones,ID	Pilot	FEC D	Latency	Sync	Au
	Rate Priority	Type of Service	Fault Mode	MPEG Format	Au
	Symbol Rate	TTL	Fault Resolution	IFB	Tel
	Interface Rate	Tx Connector	Aspect Ratio	SDI Pair	Al
	Carrier Mode		AFD	SDI Clock Source	VI
	10 MHz Clock		GOP Type	ECC Words	٧
	Clock Comb.		GOP Structure		Spl
			GOP Size		Sp
					Carrier

Last Loaded Prf nsport ID Source Closed Cap. Select Save **Encrypted SW** Delete udio 1 PID **DVB-S Indicators:** idio 2 PID ıdio 3 PID No modulator udio 4 PID IF/LB/10M modulator idio 5 PID idio 6 PID udio 7 PID ıdio 8 PID etext PID MOL PID TC Mode Reset:

Output Power

Uplink (MHZ): 950.000

Power (dBm): -50.0

Uplink Frequency

Profile

**VBI** 

PIDS

PMT PID

PCR PID

ideo PID

VITC PID

ice Mode

olice PID

er Mode

Tx: ENABLED

Transmit

Carrier: PURE CARRIER

Should you need to reset your device, you can do so via the front panel by pressing the MODE, ESCAPE and RIGHT ARROW keys simultaneously.

Modulator Line-UP \* For access, press the F1 and F2 keys simultaneously.

This feature enables the operator to quickly view and/or configure select modulator RF output parameters. The parameters available in this menu are;

Use SELECT Button to toggle.

**Transmit:** [ENABLED or DISABLED] Use ENTER Button to toggle.

Carrier Mode: [PURE\_CARRIER or MODULATED] Output Power: [ in 0.5dB increments ] Press or hold UP or DOWN arrows to adjust.

> **Uplink Frequency:** [ in 1.0MHz increments ] Press or hold LEFT or RIGHT arrows to adjust.

Units ship with the front panel logged in by default. If you become logged out and are prompted for a password, use the following key sequence for access.

Press < Select> when panel displays 'User Login -- logged out' Press <Up arrow>

Press <Select>

Press <Right arrow>
Press <Enter>

#### **Front Panel Menus:**

Frequency

MODE Use Mode Button to move through top layer menus.

Mode

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

( A ) Use arrows for navigation in submenus.

#### Special Kevs:

Symbol Rate

F2 Use the F2 button as a decimal.



ENCODING:20.000M CAS:BISS 1 SVC:00001 "Service Name" Service Provider



# **Getting Connected**

To begin, you will need to connect to your EN-210 via IP 1 directly, or by adding the EN-210 to your local area network. The network settings can be found via the front panel System > Network Menu. IP addresses are dynamically set via DHCP. If you wish to assign a static address, you will need to turn DHCP off prior to setting a manual address.

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). Using a CAT 5 crossover cable, connect one end to your computer and the other to the IP 1 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 or switch and then to the IP 1 port on the back of the device.

# **Web-Based Control Application**



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 device. Ex. http://192.168.10.48/. You will be prompted for a username and password. The default username is 'adtec'. The default password is 'none'.

The left-hand panel of the application will report current status in real-time while the right panel tabs will allow you to configure your device.

Bars/Tones/ID: Last Loaded Profile

TransMux Rate:

Service Name:

Service Provide Encryption:

Symbol Rate:

Active Output

Video Detected

Interface Rate: Frequency:

TRANSMITTING -30.0(d8m)

1: O TRANSMITTING - NO FEC

3: O NOT TRANSMITTING 4: O NOT TRANSMITTING

IP Addr./ Port 226.0.1.58/2000 2: O NOT TRANSMITTING

Have questions? Each field or group of fields in our web-based application has a hint button associate with it. It contains information on use of the field or acceptable ranges.

### **Getting Started**

0 days 01:44:21.15

OFF/OFF/OFF prfAdtecHDTV

81592000 he/

22.312096 (Mb/s)

15 (Maym/s) 22.312096 (Mb/s)

● SDI 1920×1080

50p ON / 20122000

SDI/ENCODE

70 (MHz) DVB-52 / QPSK\_3/4

AdtecHDTV1

Adtec Digital OFF

Once your encoder is accessible via network, you can set it up for transmission. You will need to adjust the configurations using the front panel or web UI. As you make changes, you will see the status sections on the left hand side of

> the web UI adjust. These status sections report the majority of the critical information needed for monitoring during a transmission. Each of these status menus can be collapsed by clicking on the 🔼 icon. This allows you to view only that information which is most critical for you, but keeps a LED indicator visible for all sections at all times for alarms.

**Encoding Status:** These values indicate the encoder's state and displays alarms when a video loss event is detected.

Service Data: These values indicate the service or program data being used in your transmission as well as the total TMR output.

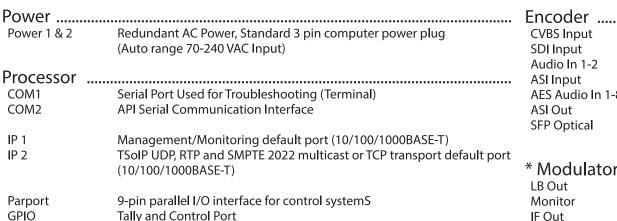
\* Modulator Status: Devices

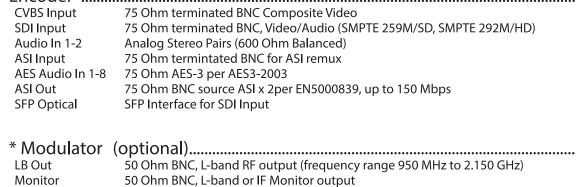
display this status window indicating activity and critical uplink parameters. **IP Status:** These values indicate the status of IP Egress including address, port and FEC parameters.

containing the optional modulator will

Video Status: The video status information is auto-detected per the input selected. Information such as resolution, chroma, framerate and video rate are included.

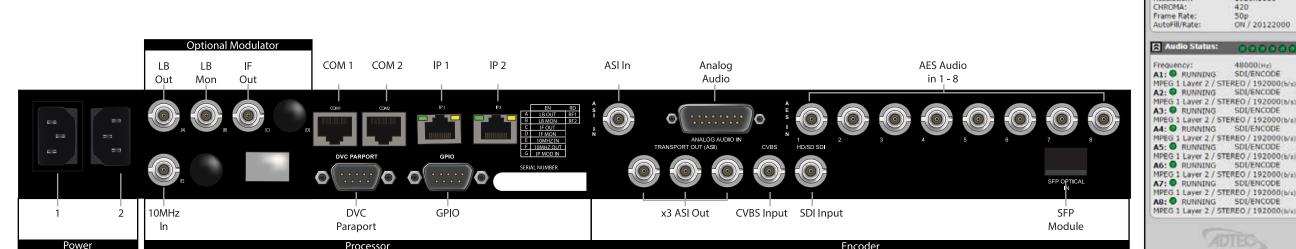
Audio Status: This section will display all audio status including bitrate, format and audio input selected.





50 Ohm BNC, IF RF output (frequency range 50 MHz to 180 MHz)

50 Ohm BNC connector for external 10MHz reference input



10MHz In