RD-60 Integrated MultiCODEC Receiver/Decoder

Quick Start Guide

CAS

Mode

Clear SW

Encrypt. SW

User ID 1

User ID 2

TS Out Decrypt

System

Login

Duration

Backlight

Network Menu

Time Menu

NTP Menu

Alarm Menu

SNMP Menu

COM2

Name

Firmware

Feature Menu

VBI

TimeCode Menu

AFD Menu

CC Menu

Teletext Menu

Thank you for your purchase of the Adtec RD-60 Receiver/Decoder. This product is sold with optional demodulator hardware packages. Configurations and indicators relevant to those add-on package are noted here. If you purchased this product without a demodulator, please disreguard settings noted with an asterisks.

Encryption

Bit Depth Delay Mode

Ouick View Status

Decoder Activity

CODEC

For information on the core systems of the IRD, use the down arrorw on the front panel to scroll through these quick view menus.

DECODING ASI TMR:20.000M CAS:Free to Air

SVC: 00001 "Serv. Name" "Serv. Provider" Service ID Service Name Service Provider

COD: H.264 CHR: 422 BITD:08 DLYM: NORMAL

VRT: 18.012Mb/s RES:1920X1080 FR:59i Video Rate Resolution Frame Rate

Video PID PCR PID PMT PID Aspect Ratio

Chroma

VID:441 PCR:441 PMT:440 ARA:16X9

Type Bitrate

1:MU 384k 2:MU 384k 3:MU 384k 4:MU 384k 5:MU 384k 6:MU 384k 7:MU 384k 8:MU 384k

Audio PIDS 1-8

Audio 1:11300 2:11400 3:11500 4:11600 PIDS 5:11300 6:11400 7:11500 8:11600

Input Mode/FEC Rcv Level Link Margin

RF1 32APSK9/10 Lvl: -52.0dB LMar:20.5dB Locked DVB-S2 Sym:29.970Ms Eb/No:29.8dB

Lock Status Type Symbol Rate Eb(s)/No RTP Detected RTP Error Count Buffer

RTP: Y RTP-Err: 1234567 Buffer:1234ms FEC: Y FecLoss: 1234567 FecCorr: 1234567

FEC Detected FEC Packet Loss FEC Corrections

Reset:

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.

LED Status

Decode

Off - Decoder is idle On - Decoder is active

ASI/IP/RF

Off - No services detected On - Services detected

Lock 1 / Lock 2

Off - Tuner is not locked On - Tuner is locked

IP Out

Off - Not functional On - Not functional

Bars

Off - B/T/ID options are disabled

On - B/T/ID are enabled

A1 - A8

Off - No Audio Decoding

On - Audio Decoding

Blinking - Fail to decode or pass audio

Alarm

Off - No system alarms

On - System alarm

Off - Decryption config is OFF

On - Decryption config is ON

Busy

Off - No network activity

On - Network traffic present

Link

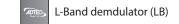
Off - No network detected

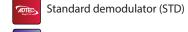
On - Connection active

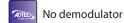


Model Indicators: Premium demodulator (PRM)









Front Panel Menus:

MODE Use Mode Button to move through top layer menus.

Use arrows for navigation in submenus.

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

save selection.

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

logged out and are prompted for a

password, use the following key

Video

Output Menu

Genlock Menu

Audio

Audio Assign Order

Audio Sync Mode

<< AUDIO 1-8 >>

Audio PID

Offset

Dolby E Line

Dolby D Mode

SDI Matrix

ANALOG VOL.

(Audio 1-2 only)

Press <Select>

Press <Enter> Press < Right arrow >

Press <Enter>

sequence for access.

Special Keys:

F2 Use the F2 button as a decimal.



DECODING ASI TMR:20.000M CAS:Free to Air SVC: 00001 "Service Name" Service Provider







Getting Connected

To begin, you will need to connect to your RD-60 via ethernet directly, or by adding the RD-60 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 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.

1 & 2 Redundant AC Power, Standard 3 pin computer power plug

10/100 base T ethernet interface (Monitoring/Management)

Balanced analog audio out. Stereo pairs 1 & 2

75 Ohm terminated. ASI Transport Stream Input

75 Ohm Standard Definition Composite Video Output BNC

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[©] locater in Apple's[©] Safari[©] browser or the plug-ins readily available for IE[®] or Firefox[®] browsers, users can locate all of the Adtec devices on a network by referencing the

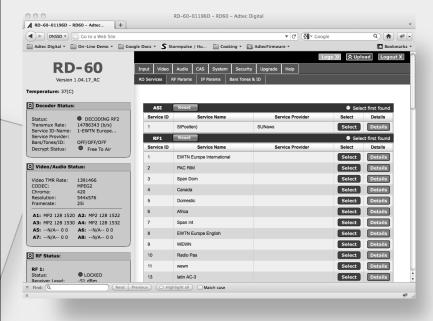
serial number on the back of the device. Clicking on the unit in the Bonjour® list will re-route you to a login page. If you do not wish to use Bonjour, you can reach the device's web application by pointing your browser to the IP Address of the device. Ex. http://192.168.10.48/. You will be prompted 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.

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.

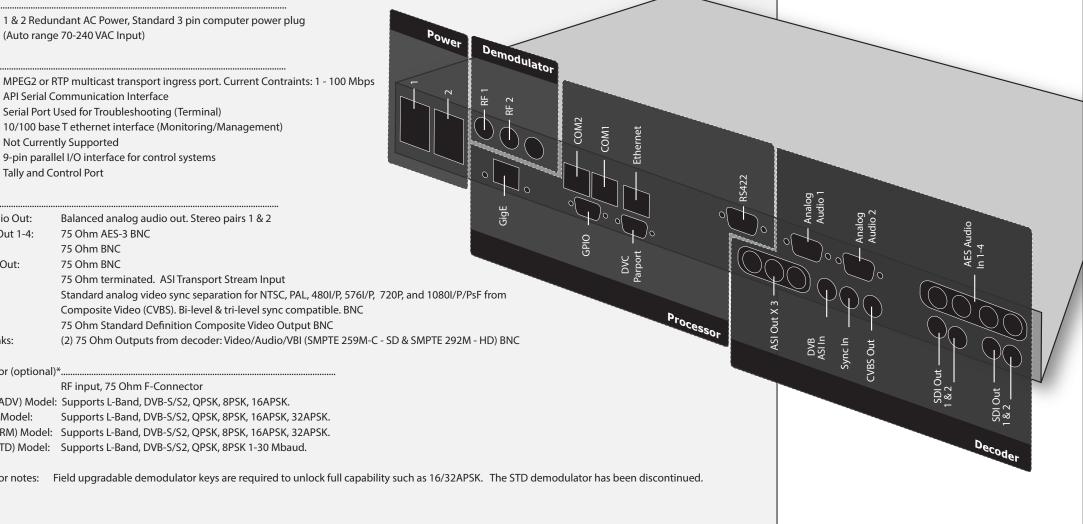
Getting Started

Once your receiver is powered up, configured on your network and you have inputs applied with active services, you can select which services you want to decode via the web-based control application. The below image shows the Input > RD Services tab. From this tab, you can view all services available on your device, select one of the services for decode or view more details about the service. There is a 'Select First Found' option for each input. When selected, this configuration will detect the first service detected in the PAT table of the input and decode it.



Note: IP service selection is treated differently than ASI or RF inputs. To populate the IP services section, you need to first visit the IP Params tab and set the correct Multicast RX, port and handling parameters. Return to the RD Services tab. Click the 'Select First Found' radio button for IP. This will populate the RD Services tab with services found on the IP input.

The most recent firmware releases are available on our support website, www.adtecdigital.com. Advanced users can find direct API command help as part of the on-board web application, Help Tab.



Demodulator (optional)*

Power Power:

Processor GigE:

COM2:

COM1:

RS422:

Parport:

Decoder

Analog Audio Out:

AES Audio Out 1-4:

DVB-ASI x3 Out:

DVB-ASI In:

CVBS Out:

SDI Out Banks:

Sync In:

GPIO:

ASI In:

RF 1 & 2: RF input, 75 Ohm F-Connector

(Auto range 70-240 VAC Input)

API Serial Communication Interface

Not Currently Supported

Tally and Control Port

Serial Port Used for Troubleshooting (Terminal)

9-pin parallel I/O interface for control systems

75 Ohm AES-3 BNC 75 Ohm BNC

75 Ohm BNC

Advanced (ADV) Model: Supports L-Band, DVB-S/S2, QPSK, 8PSK, 16APSK. Supports L-Band, DVB-S/S2, QPSK, 8PSK, 16APSK, 32APSK. L-Band (LB) Model: Premium (PRM) Model: Supports L-Band, DVB-S/S2, QPSK, 8PSK, 16APSK, 32APSK. Standard (STD) Model: Supports L-Band, DVB-S/S2, QPSK, 8PSK 1-30 Mbaud.

Demodulator notes: Field upgradable demodulator keys are required to unlock full capability such as 16/32APSK. The STD demodulator has been discontinued.

Adtec Digital Technical Support: 615.256.6619 www.adtecdigital.com