

Thank you for your purchase of the Adtec RD-71 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 disregard settings noted with an asterisks.

Quick View Status

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

Decoder Status	Input	TMR	Encryption
DECODING ASI TMR:20.000M CAS:Free to Air SVC: 00001 "Serv. Name" "Serv. Provider"			
Service ID	Service Name	Service Provider	
CODEC	Chroma	Bit Depth	Delay Mode
COD: H.264 CHR: 422 BITD:08 DLYM: NORMAL VRT: 18.012Mb/s RES:1920X1080 FR:59p			
Video Rate	Resolution	Frame Rate	
Video PID	PCR PID	PMT PID	Aspect Ratio
VID:441 PCR:441 PMT:440 ARA:16X9			
Audio 1-8	Type	Bitrate	
1:MU 384k 3:MU 384k 5:MU 384k 7:MU 384k 2:MU 384k 4:MU 384k 6:MU 384k 8:MU 384k			
Audio PIDS 1-8			
Audio 1:11300 3:11400 5:11500 7:11600 PIDS 2:11300 4:11400 6:11500 8:11600			
Input	Mode/FEC	Rcv Level	Link Margin
RF1 32APSK9/10 Lvl:-52.0dB LMar:20.5dB LOCKED DVB-S2 Sym:29.970Ms Es/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	

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 - IP Egress is idle
- On - IP Egress is active

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

BISS

- 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

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.

Front Panel Menus:

- MODE** Use Mode Button to move through top layer menus.
- SELECT** Use select to enter into edit mode and **ENTER** enter to save selection.
- UP** Use arrows for navigation in submenus.

Special Keys:

- F2** Use the F2 button as a decimal.

Services	RF Rx* LB	IP Rx	Video	Audio	VBI	CAS	System
ASI RF1 RF2 IP	<< RF1 - RF2 >>	Rx IP	Output Menu	Audio Assign Order	TimeCode Menu	Mode	Login
Select Service	Tuner State	Rx Port	Genlock Menu	Audio Sync Mode	AFD Menu	Clear SW	Duration
Select First	Downlink	SSM Address		<< AUDIO 1-8 >>	CC Menu	Encrypt. SW	Backlight
	Local Oscillator	Connector		Audio PID	Teletext Menu	User ID 1	Network Menu
	Manual LO	Latency		Offset		User ID 2	Time Menu
	L-Band	Time Out		Dolby D Mode		TS Out Decrypt.	NTP Menu
	Acquisition Range	Error Rec.		SDI Matrix			Alarm Menu
	S2X Rolloff			ANALOG VOL. (Audio 1-2 only)			SNMP Menu
	LNB Polarity						COM2
	LNB Tone						Name
	Modulation Type						Firmware
	Symbol Rate						Feature Menu
	ISI						
	RF Stats						

Model Indicators:

- LB demodulator
- No demodulator

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 <Enter>
 Press <Right arrow>
 Press <Enter>



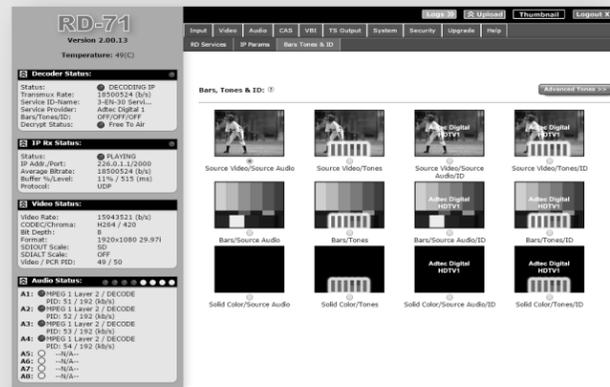
Getting Connected

To begin, you will need to connect to your RD-71 via IP 1 directly, or by adding the RD-71 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® locator 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.

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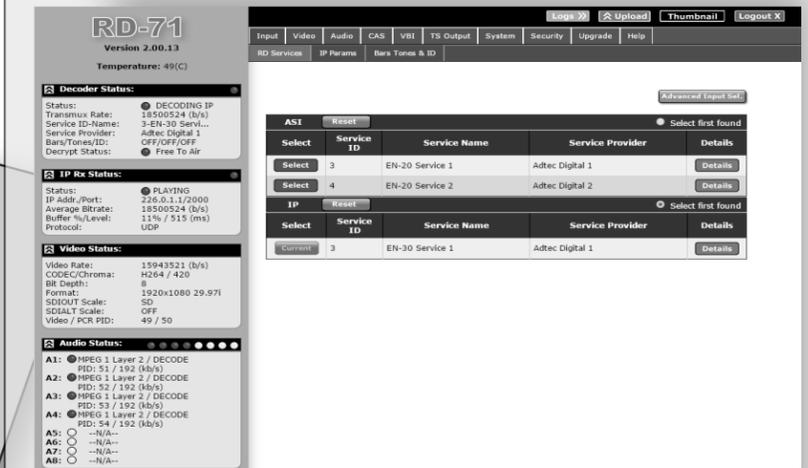
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Have questions? Each field or group of fields in our web-based application has a hint button associate with it. It contains information on use of the field or acceptable ranges.

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 > 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 valid service 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 Rx Address, 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.

- Power
 - Power: 1 & 2 Redundant AC Power, Standard 3 pin computer power plug (Auto range 70-240 VAC Input)
- Processor
 - IP 1: Management/Monitoring default port (10/100/1000BASE-T)
 - IP 2: TSolP UDP, RTP and SMPTE 2022 default port (10/100/1000BASE-T)
 - COM1: Serial Port Used for Troubleshooting (Terminal)
 - COM2: API Serial Communication Interface
 - Parport: 9-pin parallel I/O interface for control systems
 - RS422: Not Currently Supported
 - GPIO: Tally and Control Port

- Decoder
 - Analog Audio Out: Balanced analog audio out. Stereo pairs 1 & 2. DB9
 - AES Audio Out 1-8: 75 Ohm AES-3 BNC
 - DVB-ASI x3 Out: 75 Ohm BNC
 - DVB ASI In: 75 Ohm terminated Input BNC
 - Sync In: Standard analog video sync separation for NTSC, PAL, 480I/P, 576I/P, 720P, and 1080I/P/PsF from Composite Video (CVBS). Bi-level & tri-level sync compatible. BNC
 - CVBS Out: 75 Ohm Standard Definition Composite Video Output BNC
 - Digital Video Out: Digital Video
 - ** SDI Out 1 & 2 (2) 75 Ohm Outputs from decoder
 - ** SFP Optical /Alt SDI Out (1) SFP interface, Module purchased separately.(1) 75 Ohm, BNC
 - ** Note: Video/Audio/VBI Supported- (3G/HD-SDI) SMPTE 425M (Level A and DL-Level B), SMPTE 424M, SMPTE 292M, (SD-SDI) SMPTE 259M-C
 - * Demodulator (optional).....
 - RF 1 & RF 2: RF input, 75 Ohm F-Connector
 - L-Band (LB) Model: Dual Tuners capable of simultaneous lock. Supports L-Band, DVB-S/S2, QPSK, 8PSK, 16APSK, 32APSK*
 - * Software Key field upgradeable to 16APSK and 32APSK.

