



DTV-R3000

8VSB to DVB-ASI DEMODULATOR WITH FAULT RELAY



## DTV-R3000 QUICK START GUIDE

Ventilation required, leave 1 vertical RU space if stacking.

The unit can function stand alone with no Ethernet or Serial control. Just attach an RF input, an output ASI cable, the power supply and tune the front panel to desired RF channel. (Actual RF channel NOT Virtual) "THAT'S IT".

Once the tuner lock led turns green, the DVB-ASI signal will be routed to the ASI OUT connector

The IP address will default to the IP address [192.168.0.253], subnet [255.255.252.0], gateway [X.X.X.X] and DNS [X.X.X.X]." with no ethernet network.

**OR) Communicate via an ethernet connection.**

*The DTVR-3000 is shipped with the DHCP enabled*  
**USERNAME: admin PASSWORD: Dtvx**

**STOP:** Before you begin... Download "IPSETUP" software on the product page at <https://www.dtvexchange.com>

- Connect the RF input to the "RF IN" F connector
- Connect a BNC cable to the "ASI-OUT" connector, and route to the DVB-ASI input on your device
- Connect your network ethernet cable. **BEFORE PLUGGING IN POWER SUPPLY.** "If your network cable is attached to a network with a functioning DHCP server... The DTVR-3000 will get your next available DHCP IP address"
- Use the IPSETUP software or some other IP scanner to find the IP address assigned. Open a browser and type in the IP address.
- If you powered up the device without a network connection. Connect your network cable and power cycle again. REMEMBER: "If you DON'T attach an ethernet cable with a DHCP server or attach a cable to a network that doesn't have DHCP or If a DHCP server is not found on the network ... the default IP setting will be IP address of [192.168.0.253], subnet [255.255.252.0], gateway [X.X.X.X] and DNS [X.X.X.X]."
- Use the IpSetup software you downloaded earlier to search for devices on the network. Once you find your device, open a browser and type in the IP address IpSetup found. Username: **admin** Password: **Dtvx**. From there you can go to the "config" page to set a static IP address assigned supplied by the network admin. **1. Type in the IP information where the zero's are. 2. Click Apply Changes**, and you will lose connection and need to type the new IP address in your browser.



## COMMUNICATING WITH THE DEVICE VIA THE SERIAL PORT

### SERIAL PORT SETTINGS:

**Serial Port Baud Rate-** 115,200  
**Number of Bits -** 8  
**Parity -** NO  
**Stop Bit-** 1  
**Hardware Flow Control -** None

A terminal program such as PuTTY  
(<https://www.chiark.greenend.org.uk/~sgtatham/putty>)  
can be utilized to communicate with the DTV-R3000.

```
Multi-threaded TTY
File Edit TTY Transfer Help
Port Baud Parity Data Bits Stop Bits Local Echo Display Errors CR=>CRLF
COM6 115200 None 8 1 [x] [x] [x]
Font... Comm Events... Flow Control... Timeouts... Disconnect

Waiting 2sec to start 'A' to abort
Hardware Version: 1.00
Booting DTV-R3000, Version - 2.00 (Aug 17, 2018)
Build on Dec 30 2018 at 11:41:20
Reset Source: Power-on
Watchdog Enable: No
Restarting Local Serial Port
Configured IP = 0.0.0.0
Configured Mask = 0.0.0.0
MAC Address= 00:03:f4:11:73:d8
Starting DHCP -> DHCP IP = 172.16.0.30
Starting HTTP Server
Starting Command Processor - Success
Application started
Open Local Connection
Type "help" for a list of commands

DTV-R3000>help
arp ..... Show ARP cache
ch <number> ..... Set tuner channel number
dns [domain] ..... Lookup DNS
login [name] [password] ... Enable access to Additional Commands
exit ..... Exit command session
help ..... Show list of commands
IPConfig ..... Show IP configuration
IPSetup ..... Set IP configuration
ping [domain/ip] ..... Ping other device
reset ..... Reset (reboot)
up ..... Show total time UP
who ..... Show Who is currently logged in
? ..... Show Tuner Status
sl ..... Signal Level
sn ..... Signal to Noise
lf ..... Lock Flags
sf ..... Status Flags
cm ..... Tuner com error

DTV-R3000>ch 33
Channel: 33
DTV-R3000>
```

- Connect the serial cable to a computer that is running a terminal program and hit RETURN to see a **DTV\_R3000>** prompt
- Type the command **IPSETUP** and follow instructions on entering a valid IP address, subnet mask, gateway, and DNS addresses
- Power cycle the unit to get the IP SETUP to take effect. The unit is now ready for web interface
- Type the IP address you entered, into a web browser and hit RETURN or the ENTER key
- Username is "admin" password is "Dtvx"** (case sensitive). To return to DHCP mode. Enter the IP address of 0.0.0.0 in the IPSETUP configuration through the serial interface or on the "ABOUT" web page and power cycle the unit
- Attach an Ethernet cable to the unit and power cycle again to obtain a DHCP IP address. The IP address can be seen on the serial port boot up screen or by typing "**ipconfig**" at the **DTV\_R3000>** prompt through the serial connection
- Typing "Help" at the **DTV-R3000** prompt in the terminal program, will display a list of available command prompts
- Other things can be done through the serial port ...i.e change the channel by typing "ch" space and the 2 digital channel #. "Ch 29"

