

VT-RC-74DE Receiver

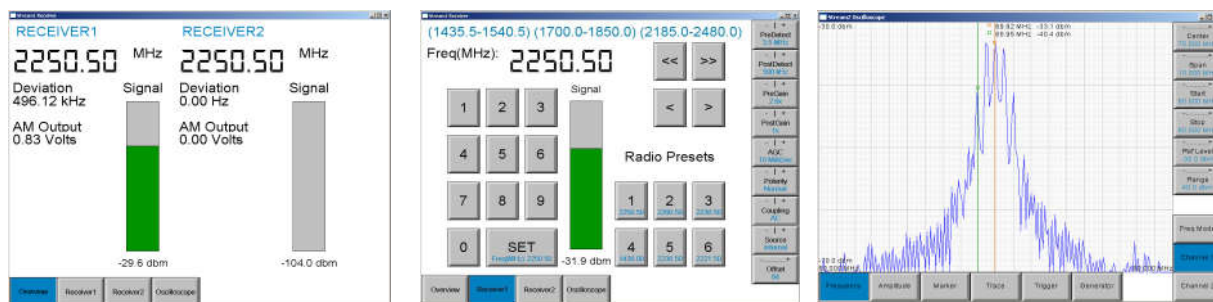
The VT-RC-74DE is a compact receiving system combines two high performance RF multiple band digital receivers, a post detect diversity combiner, digital bit sync and optional frequency analyzer with full oscilloscope and EYE pattern display in a single 4U height 19 inch rack mountable chassis.



VT-RC-74DE fitted with Two Complete Receivers, Post Detect Combiners, Bit Syncs and Optional Frequency Analyzer/Oscilloscope

The VT-RC-74DE high performance multi band receiver system offers a no compromise, high density telemetry and data reception solution. With integrated post detect combiner per channel and integrated digital bit syncs the VT-RC-74DE replaces multiple units in a traditional ground station.

A full Ethernet based remote control interface is supplied as standard and the recovered data may be broadcast over the network in various formats, including IRIG 106 Chapter 10.



This easy to use full function graphical software interface on the large front panel full color touch screen controls all aspects of the receiver system offering full stand alone operation.

The VT-RC-74DE receiver system has a very wide bandwidth of more than 30 MHz per channel over the range 70MHz to 6GHz and an ultra low total noise figure of better than 4db.

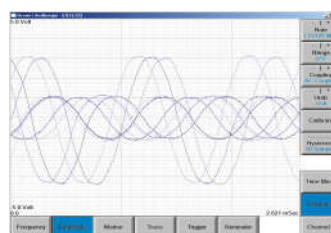
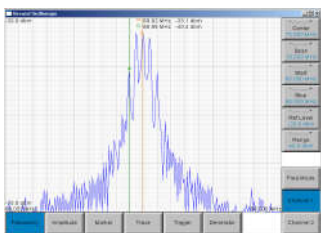
This fully digital direct conversion receiver provides dual channel trellis based bit synchronization functionality for TIER0 and optional TIER1 or TIER2 reception with improved data reception performance over traditional reception systems of anywhere from 8db to 12db.

Uniquely the VT-RC-74DE digital receiver can also supply analog data reception outputs suitable for legacy operation, such as analog Video reception, and improved performance AM down to below – 125dBm for use with Auto Tracking antenna systems.

VT-RC-74DE Receiver Features

- Two Receivers Per 4U System
- Post Detection Combiner Per Channel
- Ethernet Control Interface
- Large Front Panel Graphic Interface
- Remote Controllable
- Multiple Band Operation
 - √ 70 - 6000 MHz
- User Selectable Input Bandwidth
- Programmable Tracking Bandwidth
- User Selectable Post-Detect Filters
- Programmable Post-Detect Gain
- NTSC & PAL Video De-emphasis
- AM and AGC Outputs for Auto Tracking Antennas
- Low Total Noise of Less Than 4dB
- Wide Band Operation up to 30 MHz
- AM, FM, BPSK, QPSK demodulation with others as options
- High Absolute Sensitivity < -125 dbm
- Superior handling of Fast and Deep fades
- Digital Bit Sync Per Channel
- Symbol Rate upto 15 MBit/Sec
- Improved noise performance over traditional external devices of anywhere from 8db to 12db
- Received Data transfer via IRIG106 Chapter 10 compatible Software Transfer
- Fully Stand Alone and Remote Operation
- Compatible with JDA Systems Decommata-tion, Storage, Display and Analysis Software (VuSoft).
- Compatible with JDA Systems autotracking antennas
- Compatible with legacy autotracking antennas
- Weight Approx 10kg
- Dimensions w440 x d320 x h170 mm
- Power 100 to 240 VAC, 50 or 60 Hz
- Consumption < 100W
- Temp -20 to +65 C

Optional Frequency Analysis & Oscilloscope Software



- Frequency Analysis from 1KHz to 100 MHz
- Full Oscilloscope Functions from 2Hz to 200 MHz
- Received Data EYE Pattern Display
- Automatic Frequency Peak Markers
- Dynamic Average
- Peak Hold
- Programmable Trace Hysteresis
- Trace Trigger Selection
- Integrated Signal Generator