

## VT-RC-74DE Receiver

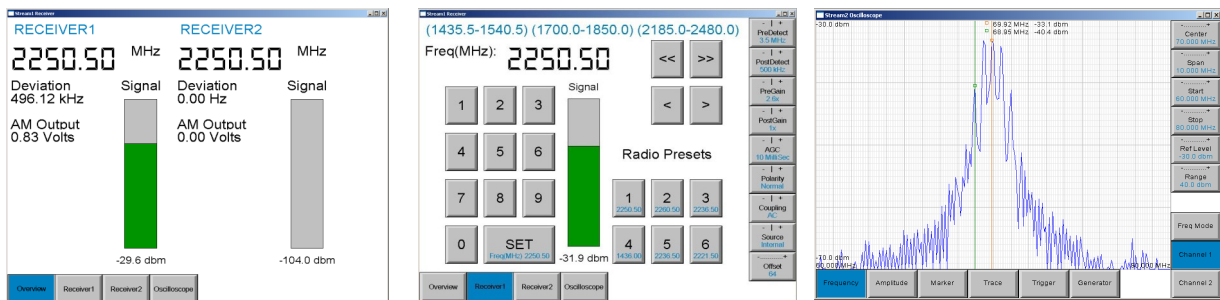
The VT-RC-74DE is a compact receiving system combines up to four high performance RF multiple band digital receivers, pre & post detect diversity combiners, digital bit sync, frequency analyzer, oscilloscope and EYE pattern display in a single 4U height 19 inch rack mountable chassis.



### VT-RC-74DE fitted with Up to Four Complete Receivers, Pre & 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 pre & post detect combiners per channel, best source selector 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 optionally the recovered data may be broadcast over the network in various formats, including IRIG 106 Chapter 10/11.



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, TIER1 and optional TIER2 reception with improved data reception performance over traditional reception systems of anywhere from 6dB 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 excellent AM performance.

For more information, please contact your local agent or contact JDA Systems directly:

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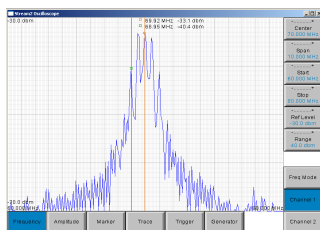
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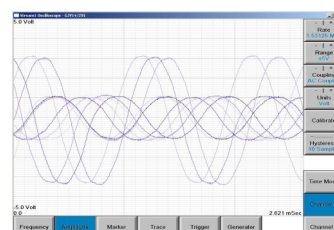
## VT-RC-74DE Receiver Features

- Up To Four Receivers Per 4U System
- Pre & Post Detection Combiner Per Channel with Best Source Selector
- 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, PM, PSK, BPSK, QPSK, SOQPSK demodulation with others as options
- High Absolute Sensitivity < -125 dbm
- TIER0, TIER1 and Optional TIER2
- Superior handling of Fast and Deep fades
- Digital Bit Sync Per Channel
- Symbol Rate up to 20 MBit/Sec
- Improved noise performance over traditional external devices of anywhere from 6dB to 12dB
- Optional Received Data transfer via IRIG106 Chapter 10/11 compatible Software Transfer
- Fully Stand Alone and Remote Operation
- Compatible with JDA Systems Decommutation, Storage, Display and Analysis Software (VuSoft).
- Compatible with JDA Systems autotracking antennas
- Compatible with legacy autotracking antennas
- Weight Approx .12kg
- Dimensions w440 x d320 x h170 mm
- Power 100 to 240 VAC, 50 or 60 Hz < 100W
- Temp Operating -10 to +60 C

## Frequency Analysis & Oscilloscope Software



- Frequency Analysis
- Oscilloscope Functions
- Received Data EYE Pattern Display
- Automatic Frequency Peak Markers



- Dynamic Average
- Peak Hold
- Programmable Trace Hysteresis
- Trace Trigger Selection

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