

# VBR-KT 500 Video Vortex Receiver Kit

## VBR500 Kit

The Video Vortex Receiver Kit is a complete, ready to operate microwave video receiver solution and the ideal companion to a compatible video transmitter such as DTC's VMS-2000 Video Transmitter Kit. All of the cables and accessories are included to connect with your monitor.

The VBR500 Kit can be ordered with either the VDAR-1 or ANT-10R Antenna option. The VDAR-1 antenna uses the DTC Hybrid-Patch system to ensure high-purity circular polarization and is mountable with reversible and adjustable suction cup mounts. The ANT-10R is a very wide bandwidth, unidirectional log-spiral array patch antenna, which can be mounted to a wall or swivel mounted with the MAF-1 grip.

Power, Video, Audio, and programming cables along with a world adapter plug set are included. These enable you to set up your kit in a number of configurations and power your receiver with 9 to 16 VDC or 100 to 240 VAC.

The Vortex microwave video receiver offers advanced features and ease-of-use. Up to ten video channels are user programmable, with two user-programmable audio subcarriers on each channel. A rotary switch is used to field-select each channel. Encryption is available as an option, using an Ovation Micro Viewlock II module mounted internally. A clear/scrambled switch is accessible on the front panel.

## Features

- ▲ DTC Vortex Microwave Video Receiver
- ▲ ANT-10R Antenna or VDAR-1 Antenna
- ▲ 6-Foot SMA to TNC Antenna Cable
- ▲ AC Power Adapter with Programming Cable
- ▲ DTC Universal Programming Software
- ▲ World Power Adapter
- ▲ Flying Lead Power Cable
- ▲ Optional DC Automotive Power Cable
- ▲ Optional Encryption

## Models

- ▲ VBR500-KT01-X-VDAR1

Contact your DTC sales representative for other frequency bands which are not listed here

Add "ENC" to any of the above model numbers for Video Encryption

Add "ENC-AV" for Audio & Video Encryption

## Ordering Information

- ▲ Call for availability



## Specifications

### RF

Operating Frequency Range	1700 - 1850 MHz VBR500L 2200 - 2300 MHz VBR500S2 2400 - 2500 MHz VBR500S 4400 - 5000 MHz VBR500-C
Number of Channels	10 maximum (user-programmable)

### VIDEO

Video Frequency Response	6 Hz - 4.2 MHz +/- 1 dB
Output Impedance	75 ohms
Output Level	1 Vpp
De-emphasis	Inverse of CCIR 405 525 line curve
Subcarrier Suppression	40dB (6 - 7.5 MHz)

### AUDIO

Number of Subcarriers	2 per video channel
Subcarrier Frequency Range	6 - 7.5 MHz (user-programmable)
Audio Bandwidth	40 Hz - 15 KHz
Output Impedance	600 ohms
Output Level	1 Vpp
De-emphasis	75 $\mu$ s

### POWER

Input Voltage	9 - 16 VDC
Input Current	300 mA max. (indicators off) 375 mA max. (w/descramble enabled, indicators off) 400 mA max. (indicators on) 475 mA max. (w/descramble enabled, indicators on)
Reverse Battery Protection	Yes

### CONTROLS

Channel Select Switch	10-position rotary
Video Descrambler Switch	Momentary toggle, activates/deactivates
Indicator Switch	Momentary toggle action, enables or disables the RSSI (radio signal strength indicator) and video descrambler clear/scramble indicators