



TM-RX

Rugged, Battery Powered Mesh Video Receiver

The TM-RX Receiver is a fully portable Mesh enabled digital diversity receiver which incorporates a DTC Software Defined Radio, a high resolution scratch resistant daylight viewable video screen, a flexible antenna pair and a battery.

This is all housed in a compact rugged waterproof enclosure. The integral battery can provide power for >2 hours during continual operation. Batteries can be recharged using the charger supplied in the kit.

Demand for system flexibility has led to Mesh being the first choice for transferring video. A digital Mesh radio network allows encoded video, audio and data to be shared between several nodes simultaneously.

The reception of COFDM point to point type RF transmission is also supported as an option.

On screen diagnostics provides the viewer with vital information such as the RF status and battery levels on both sides of the link.

GPS position of both the TM-RX and a GPS enabled transmitter are displayed together with a distance delta between the two.

A joystick, button and touch-screen interface with silent vibration feedback allows the user to control a wide range of device parameters and also control remote cameras.

Its external Fischer connectors support a direct Ethernet connection and an audio headset interface.

The screen is manufactured from Gorilla glass, making it scratch resistant and resilient to being dropped. The brightness of the screen is adjustable so as to allow viewing in differing daylight levels.

The internal 256GB solid state hard disk ensures video recordings and screen snapshots can be easily archived for future reference.

Security of the link is ensured either through standard DES encryption or optional AES128 or AES256.

Overview

Digital Video Receiver
Wireless Mesh Network
High Resolution Display
Internal Recording
On-Screen Diagnostics
Telemetry Control Path
GPS Positioning
Battery Powered
Headset Connection
Two Way Audio Communications
HDMI Output
External Network Connection
Encrypted Link
System Configurable - On Screen
IP67 Rated
Scratch Resistant Glass
Rugged Build for Tactical Operations

Connections on the topside for antennas, direct Ethernet connection and the audio headset.



Battery access is on the underside.



Specifications

Screen Type	High Definition	RX Antennas	Dual Diversity
Screen Size	6"	Alerts	Silent Vibration
Screen Resolution	1920 x 1080	System Configuration	On Screen Menus
Screen Coating	Anti-Reflective	External Connection	Supplied Cable
Glass Type	Scratch Resistant	External Interface	Ethernet
RF Frequency	L-Band, S-Band, C-Band	GPS Positioning	TX to RX Delta
RF Type	COFDM Mesh, COFDM	Internal Storage	256GB Solid State HD
Control Interface	Joystick, Buttons, Touch	External Input Voltage	10 to 18V DC
Video Interface	HDMI	Battery Capacity	3.35Ah
Video Decoding	H.264 & MJPEG	Run Time	>2 Hours - Continual Use
Audio	Output on EXT-B Fischer	Temperature	-20 to +50°C
IP Stream Decoding	RTSP, RTP over TCP or UDP	Dimensions	190 x 100 x 42mm
Decryption	DES, AES128, AES256	Environmental	IP67

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Product specifications subject to change without notice

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