



MULTI-FUNCTION EM RECEIVER

Many techniques in ONE box

Compatible with the versatile
family of UMT Receivers

MTU-5C
MTU-8A
RXU-8A



V9

MAIN ADVANTAGES

One system does it all:

- UMT-CSAMT-TDEM- TDIP-SIP
- 5 E-channels for high density and fast acquisition (CSAMT, IP, UMT)
- 3 H-channels (UMT, TDEM)
- Up to 96 KHz sampling rate
- Real time data processing with data displayed on 4.3" screen
- UMT: Simultaneous recording of high and low bands: 10,000 Hz to >50,000 sec

TRANSMITTERS

Works with any Phoenix or
Third party EM Transmitter



Introducing the new V9 receiver

The V9 receiver is the next step forward from the trusted V8 multi-function EM receiver. Built with modern hardware and updated electronics, it's designed to handle real field conditions with confidence. Its sturdy design helps protect against drops, vibrations, and everyday wear, so you can focus on the work instead of the equipment.

With lower controlled source system noise, the V9 allows for deeper and faster exploration while using less transmitter current. This means greater efficiency in the field and reliable results you can count on.

The V9 also brings ultrawideband TDEM acquisition into a single, seamless workflow. Decay and resistivity curves are recorded across the same frequency range, from very early to very late times, ensuring consistent data with no mismatch between low and high repetition rates.

Thanks to a high sampling rate of up to 96 kHz, the V9 supports a wide range of geophysical methods, including UMT, CSAMT, TDEM, TDIP, SIP, DC resistivity, FDEM, and more as new techniques become available.

Getting started is quick and simple. The V9 is easy to set up, speeds up field operations, and delivers faster recordings with improved data quality at every site.

To top it off, the large 4.3-inch screen lets you view TDEM recordings live in the field, giving you immediate feedback and peace of mind while you work.

- **SYSTEM simplicity:** Universal configuration for all the systems of your fleet, to improve field efficiency and to reduce mistakes.
- **Software:** One single software for configuring instruments, field evaluation, and data processing
- **CSAMT new low noise channels:** Same or better results using smaller transmitter output signals. 5 Electric channels increase the daily production by 40%
- **TDEM:** Only one repeated transmitter frequency to cover large bands of early and late time. Decrease the recording time by 50%. Up to three simultaneous 96 KHz full waveform recording per run.
- **IP:** All your electrodes data at a glance with the on-board screen display. Easily troubleshoot and fix the layout issues.
- **UMT:** Fully compatible with other modern Phoenix systems. Real time MT processing coming soon.

SPECIFICATIONS

Acquisition Mode

Ultra Wide UMT, CSAMT, TDEM, TDIP

Sample Rates

96 KHz continuous or decimation with sparse sampling.
24 KHz decimation with sparse sampling.
2400 Hz, 150 Hz and 30 Hz continuous.
Additional sampling schemes to be soon delivered.
A/D conversion: Ultra low noise, true 24 bits

Channels

8 channels (5E+3H); each with independent gains, filters and sensors

Sensor Connectors

3 Magnetic sensor connectors, military grade, 10-pin, 20 kOhm input resistance, compatible with broadband MTC-100 series, AMTC-30, MTC-50H, MTC-80H, most common fluxgate sensors and TDS-1000 TDEM loop.

2 pairs of rugged electric channel binding posts.
10Mohm input resistance

Connectivity

Ethernet, Wireless, Cellular or Satellite

GNSS

BeiDou, Galileo, GPS

Synchronization between Instruments

GPS disciplined, better than 500 nanoseconds

Environmental

Operating temperature range:-25 to +55 Celsius
IP67 compliant, water and dust proof

Enclosure

Ruggedized, monobloc, aluminium case for maximum strength and reduced weight. Impact resistant, shock mounted architecture, one meter drop test. Tested waterproof immersion. Ballistic nylon carrying bag for easy transport

Weight and Dimensions

5.1 Kg, L32 cm x H27 cm x W14 cm

Software Updates

Easy firmware updates direct from SD card

Ultra Low Power consumption

As low as 8.5W

Dynamic Range

Better than 130dB

Storage

Environmentally rugged SD card, up to 512 GB (hundreds of measurements)

Display

4.3 inch, 800x480 pixels, colour

Integrated Realtime Quality Control

Self diagnostics at power up, at recording start and real-time recording statistics. Displayed on the colour screen: live display of levels, instrument status and recording status (Satellites, operating mode, diagnostics, sensors detected, etc.). Parallel noise test: automatic acquisition and processing (EMpower)

Calibration

Simple automatic in-field calibration of instrument and sensors for greater accuracy of processed data and advanced system quality control. Includes generic calibration



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