

EMVS-DGNSS/ROVER & DGNSS/BASE

DIFFERENTIAL GNSS FOR **EMVS-TL**

HIGH ACCURACY CENTIMETER-LEVEL DIFFERENTIAL GEOLOCATION UNIT FOR THE **EMVS** SYSTEM

MAIN FEATURES

- Easy to use, fast assembly DGNSS system
- High performance dual-band GNSS antenna
- Built-in, long range, license free RF link that broadcast GNSS corrections
- Self-powered fixed base unit with long battery life and built in battery charger
- Embedded high capacity data logger for traceability and quality control

GENERAL DESCRIPTION

The system consists of a fixed Base unit, the **DGNSS/BASE**, and a ready-to-use fast assembly **EMVS-DGNSS/ROVER** mounted on the **EMVS** antenna array frame support.

The **DGNSS/BASE unit** embeds a long-range, license-free radio transmitter that provides real-time corrections for the **ROVER** installed on the **EMVS** unit enhancing GPS tracking accuracy to a centimeter level.

At the end of the search operations, the **EMVS-DGNSS/ROVER** allows the user to extract on PC recordings of differential data of the scanned area as well as data relevant to the metal detector alarms.



EMVS-DGNSS/ROVER



DGNSS/BASE

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CEIA reserves the right to make changes, at any moment and without notice, to the models (including programming), their accessories and options, to the prices and conditions of sale. FC140K0216v2000hUK



SPECIFICATIONS

GENERAL FEATURES

GNSS RECEIVER	Receiver type: Multiband GPS, GLONASS, Galileo and BeiDou
	RTK (Real-time kinematic) format: Multiband RTK (RTCM 3.3)
	LBAND Receiver: SBAS (WAAS, EGNOS, MSAS and GAGAN)
Accuracy	Single 1.5 m (without EMVS-DGNSS/ROVER)
	DGNSS 40 cm
	RTK < 1 cm (with EMVS-DGNSS/ROVER)
RF COMMUNICATIONS	Frequency 869.4 ÷ 869.65 MHz
	Channels 10 (from A to J)
	Channel spacing 50 kHz
	Modulation 4GFSK
	Range Up to 4 km, line of sight (RF Power = 5)

EMVS-DGNSS/ROVER

WEIGHT	2 kg
DIMENSIONS	(WxLxH) 130 mm x 154 mm x 116 mm
PROTECTION DEGREE	IP68
TEMPERATURE	Operating: -46°C to +70°C
	Storage: -55°C to +85°C
DATA LOGGER CAPACITY	Up to 18 hours

DGNSS/BASE-SET

WEIGHT	9.25 kg
DIMENSIONS	(WxLxH) 360 mm x 360 mm x 1295 mm
PROTECTION DEGREE	(IEC 60529) IP65
TEMPERATURE	Operating: -25°C to +65°C
	Storage: -45°C ÷ +85°C

Complies with MIL-STD-810H and the international standards on radio interference and human exposure to electromagnetic fields

BATTERY OPERATION	Operating time: 48 hours of continuous operation
	Charging time: 4.5 hours

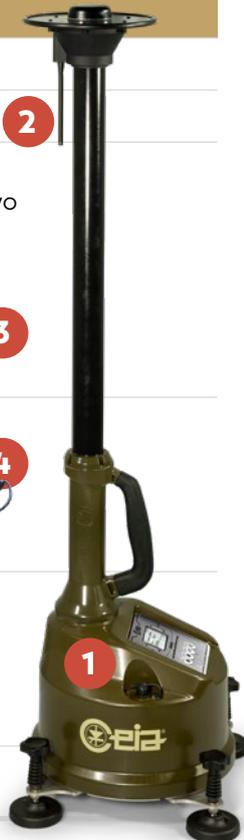
PART LIST

EMVS-DGNSS/ROVER

A	EMVS-DGNSS/ROVER unit
B	RF Antenna
C	EMVS connection cable
D	EMVS antenna array frame support fixing toolkit
E	USB cable for PC connection
F	Transport case

DGNSS/BASE-SET

1	DGNSS/BASE unit
2	RF Antenna
3	Power Supply Adapter for the built-in battery charger, with two power cords (UL and CEE plug)
4	Power Supply Adapter for the built-in battery charger fitted with a car cigarette lighter plug
5	Canvas bag
6	Instructions manual



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