

COIL - TRIPOD ASSEMBLY

The UTEM 3 coil results from a major redesign of the UTEM 2 coil. The main improvements consist in a reduction in size and weight, and in a substantial improvement in the gain stability, particularly with respect to temperature and mechanical shocks.

Specifications

- Ferrite cored, shielded and guarded design
- Length: 67cm (26.5")
- Diameter: 9cm (3.6")
- Weight: 4.7 kg (10#), 6.5 kg with tripod (14#)
- Effective area without amplifier: 700 m<sup>2</sup> (nominal)
- Output effective area: 60,000 m<sup>2</sup> (nominal)
- Temperature stability of gain: better than 1% -40°C to 50°C
- Output signal bandwidth: 0.03Hz to 45kHz
- Wideband input noise: 3 microV (0-40kHz)
- 0.3 " (0- 1 kHz)
- Equivalent magnetic field noise density referred to input:
 

10 Hz	0.2	mgamma	/Hz	<sup>1/2</sup>
100 Hz	0.02	"		
1 kHz	0.0015	"		

- Tripod: -universal mount tripod for vertical or horizontal leveling of coil
- plastic construction with fiber glass telescopic legs

The interconnection cable to the receiver has four shielded conductors and uses a fast disconnect Cannon connector. The cable length is 4m (12 ft). The coil should be mounted at least 3 m from the receiver to keep the anomaly caused by the conductive receiver case to less than 0.01%.