

# SWE

# MERCURA

## *Remotely-controlled portable UHF TACSAT antenna*

Introducing the *MERCURA* portable UHF TACSAT antenna from SystemWare Europe.

*MERCURA* is a fully motorised, tripod-mounted helical antenna which can be hand-carried and deployed at your in-theater HQ.

Traditional designs for portable UHF TACSAT antennas can place severe limitations on link performance. These tend to be based on manpack antennas and can lack the gain necessary to give reliable service under adverse conditions. Placing a higher gain antenna at the HQ can greatly improve link margin, giving you reliable communications when you most need them.

The fully motorised tripod mount, with integral controller, allows the user to switch satellites by simply selecting from a drop-down list. When used in conjunction with SystemWare Europe's *AETHERA* fibre-optic system, *MERCURA* can be located hundreds, or even thousands of metres from your radios. A roof-mounted antenna can be totally remotely operated without user intervention.



### *MERCURA features.*

- Lightweight, rugged construction.
- Fully motorised in azimuth and elevation.
- Smart positioner with automatic pointing.
- Available in a variety of gains and frequency ranges.
- Remotely controllable.

### *MERCURA benefits*

- **Easily portable**  
meets commercial carrier baggage requirements.
- **Quick to deploy**  
no tools required.
- **Simply to set-up**  
one alignment required.
- Higher gain gives greater reliability and performance.

SystemWare Europe

# **MERCURA**

## **Specifications:**

### **Electrical (with 8-turn antenna):**

Frequency range 240-315MHz (other ranges available)

Polarisation LHCP or RHCP

Maximum transmit power 250W (up to 1000W optional)

Gain 13dBi

3dB beamwidth - 36°

Power – 28VDC. 115/230VAC, 50/60Hz with optional adapter

Remote interface – RS232 for connection to *AETHERA* Antenna Interface Unit

### **Mechanical:**

Weight:           Antenna – 17kg (37lb)  
                      Tripod – 10kg (22lb)  
                      Positioner head – 12kg (26lb)

Antenna dimensions – 2.9m (113”) length, 1.4m (55”) diameter groundplane

Material – alloy with stainless steel hardware.

### **Environmental:**

Wind speed:      Operational –160kph (100mph)  
                      Survivable – 225kph (140mph)

Operating temperature range - 20°C (-4°F) to 60°C (140°F) ambient

Operating humidity to 100% non-condensing

Operating altitude to 3,050m (10,000ft)

For further information, contact:

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Specifications subject to change without notice