



# UnatSolar First Responder Kit

Photography: Jonathan Fisher

## Portable BGAN-based solution for first responders

The UnatSolar First Responder Kit is a complete, BGAN-based satcoms solution, which has been specifically designed for use by military or emergency services personnel who are first on the scene of a disaster. The kit comprises a Thrane &

Thrane Explorer 500 BGAN terminal, a UnatSolar foldable solar panel, back-up battery, wireless router, cables and adaptor. There's also room for a notebook computer in the ruggedized carrying case, which has been designed to protect the contents against

the effects of dust, water and chemical corrosion. The First Responder Kit weighs approximately 10kg when fully equipped, and measures just 430 x 320 x 160mm, making it small enough to take on to an aircraft as hand luggage. At the heart of the kit is the Thrane & Thrane Explorer 500 BGAN terminal,

which offers simultaneous voice and broadband data, and supports streaming IP at speeds of up to 128kbps. It also offers internet access and high-speed data transfer at speeds of up to 464kbps. The terminal is equally suitable for individual users or small teams, and supports circuit-switched and IP packet

data via standard LAN, USB, Bluetooth and phone/fax interfaces. It is also water- and dust-resistant to IP 54, making it particularly well suited to use in hostile environments. When running off battery power, the terminal has an operating range which spans 0 degrees centigrade to +55 degrees centigrade.

The solar panel delivers 62W, incorporating solid state, thin-film PowerFLEX solar cells that have an operating range of -40 degrees centigrade to +80 degrees centigrade. It weighs just 1.41kg and



measures up at 368 x 216 x 36mm folded. When it is unfolded, the dimensions equal 1,333 x 762 x 2.5mm. Together with the back-up battery, wireless

router, cables and adaptor, the terminal and the portable solar power offers first responders a reliable and robust means of restoring communications in disaster areas in a package that small and lightweight enough to take almost anywhere.

### Technical features

- Explorer 500 BGAN terminal / UnatSolar foldable solar panel / back-up battery / wireless router / cables and adaptor.
- Ruggedised carrying case with room for a laptop
- Weight: 10kg (fully equipped)
- Dimensions: 430 x 320 x 160mm

**BGAN:**

- Simultaneous voice and broadband data
- Streaming IP at up to 128kbps
- High speed data transfer up to 464kbps.
- Water- and dust-resistant to IP 54 standard

**SOLAR PANEL:**

- 62W output power
- Operating temperature range: -40 degrees centigrade to +80 degrees centigrade.
- Weight: 1.41kg
- Dimensions: 368 (length) x 216 (width) x 36 (thick) mm (folded). 1,333 x 762 x 2.5mm (unfolded).