

INTEROPERABILITY

MRAY



The Codan MRAY is the lightest 125 W, high power deployable HF base station, or HF to 30 W VHF/UHF Crosspatch™ system, operational from AC mains or its own battery supply.

Housed in a standard Pelican Case for rapid deployment, its rugged design provides a critical capability for today's protection and security forces.

SIMPLE AND QUICK TO INSTALL

Self-contained, the MRAY can be easily configured enabling rapid installation on both static and mobile platforms. The operator simply connects an antenna and communicates.

The MRAY can operate directly from worldwide AC mains using its internal wide-range power supply. With the additional Power Case, the MRAY can operate from its self-contained power source for up to 66 hours, with recharging possible from various AC and DC sources.

LIGHTWEIGHT AND PORTABLE

Weighing typically 20 kg depending on the configuration, the MRAY is easily light and compact enough to be transported in passenger vehicles and commercial aircraft.

FLEXIBLE CONFIGURATION

The MRAY is available in a variety of configurations ranging from HF voice and data communications through to GPS tracking and telephony.

With the addition of VHF/UHF transceivers, the MRAY can also operate as a deployable Crosspatch™ or base station repeater. Available in a black or yellow case.

KEY FEATURES

- Supports Codan's Envoy™ and all MT-4E VHF/UHF Transceivers
- Rapidly deployable
- Up to 66 hours operation with Power Case
- Voice, Email, GPS Tracking, Crosspatch™, Telephone support
- Wide-range fully protected AC mains supply
- Charging capability from vehicle accessory outlet & solar panel
- Vehicle and airline transportable



INTEROPERABILITY



CODAN
COMMUNICATIONS

SPECIFICATIONS

GENERAL

Channel capacity	Up to 1000 channels with Envoy™ / up to 32 channels (LMR)
Operational time	Up to 66 hours (100Ah SLA battery), 53 hours (80Ah SLA battery) or 24 hours (35Ah SLA batteries) Operational time based on 1:9 Tx:Rx, also dependent upon product configuration
Temperature rating	-30°C to 60°C

RF	HF	LMR
Frequency range	1.6 to 30 MHz transmit, 250 kHz to 30 MHz receive	VHF, UHF or 700/800/900 MHz
Power rating	125 W PEP	3 to 30 W
Operating mode	Single sideband (J3E, USB, LSB, AM, ISB)	FM Analog or P25 Digital
RF output impedance	50 Ω (N-type, female)	50 Ω (N-type, female)

ELECTRICAL

AC operating range	100 to 240 V AC ±10% 50/60 Hz
System operating voltage	12 V DC nominal (10 to 16 V DC operational)
External DC charge range	Battery charge input: 13 to 26 V DC Battery charge output: 8 A max
Protection	Fully protected against supply under/over voltage, RF load open/short circuit/high VSWR

MECHANICAL

Environmental	Designed to MIL-STD-810G for Shock and Vibration
Dimensions	630 mm W x 495 mm D x 297 mm H (main case) 575 W x 350 D x 230 mm H (power case)
Weight	Approx 28 kg (main case with HF and VHF/UHF transceivers and PSU installed), 20 kg HF only, 31 kg (80Ah battery case)
Colour	Black or high-visibility yellow

SYSTEM OPTIONS*	HF	LMR
Transceiver	Envoy™	MT-4E series
Power Case	Pelican Case power source available in a 100Ah, 80Ah or 35Ah sealed lead acid battery case Inbuilt battery management and charging capability from DC supply	
Modem	Envoy™ Internal Modem, or RM50e/3212/3012 External Modem	
Crosspatch™	Codan 3031 Crosspatch™ for interconnection of third party VHF/UHF	

*Note: to be ordered separately.

Values noted are typical. Equipment descriptions and specifications subject to change without notice or obligation.

ANTENNAS

- **Tactical Deployment:** Tactical Broadband Antenna
- **Mobile Deployment:** 3040/9300 Automatic Tuning Whip Antenna or 3042/3046 Antenna Tuner with suitable Whip, Range of VHF/UHF antennas available