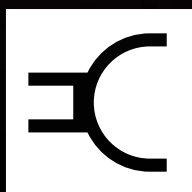




MRAY

TRANSPORTABLE TRANSCEIVER



CODAN
RADIO COMMUNICATIONS

Combining the power of HF and LMR

CODAN MRAY™

The MRAY is a unique solution for linking multiple analog/P25 repeater sites. The solution integrates Codan's Envoy™ HF smart radio, an LMR VHF/UHF 30 W Repeater and 3031 Crosspatch™ to create an innovative product that enables long distance communications between two or more P25 repeater sites via a HF link.

The MRAY provides both on-site radio coverage, via the self-contained analog or P25 repeater, and long-range linking of the local communication via the included 125 W SDR Envoy™ HF radio. This flexible and robust design enables a number of options such as AC and DC power sources, quick deployment solar power and a versatile antenna/mast system. It also delivers the distinct advantages of rapid deployment, ease of use, and long distance communications where previously a leased line, microwave or private IP networks were the only options.

Housed in a polyethylene weather resistant case for rapid deployment, the MRAY's compact design enables it to be transported in passenger vehicles and commercial aircraft. The MRAY is a complete self-contained solution with optional accessories including a solar panel system, battery case, and antenna and masts.

CODAN MRAY™ — KEY SPECIFICATIONS

- **Channel Capacity:** Up to 1000 channels with Envoy™ and up to 32 channels for LMR
- **Operational Time:** Up to 66 hours (100 Ah SLA battery), 53 hours (80 Ah SLA battery) or 24 hours (35 Ah SLA Battery)
- **Temperature Rating:** -30°C to 60°C
- **Frequency Range:** HF: 1.6 to 30 MHz
LMR: VHF, UHF or 700/800/900 MHz
- **Power Rating:** HF: 125 W PEP
LMR: 3 to 30 W
- **AC Operating Range:** 100 to 240 V AC ±10%
50/60 Hz
- **Protection:** Fully protected against supply under/over voltage, RF load open / short circuit / high VSWR
- **Size:** 11.6" H x 24.8" W x 19.4" D,
29.7 cm H x 63.0 cm W x 49.5 cm D
- **Weight:** 61.7 pounds, 25.0 kilograms
- **Colour:** Black or high-visibility yellow



LONG DISTANCE P25

Enables long distance communications between two or more P25 repeater sites over a HF link, with no backbone infrastructure or satellite link required



SECURE COMMUNICATIONS

Configurable to different security standards for encryption over the HF and VHF/UHF links, ensuring communications remain confidential



RAPID DEPLOYMENT

Easy to configure and requires only an antenna for instant communications and the linking of multiple repeater sites



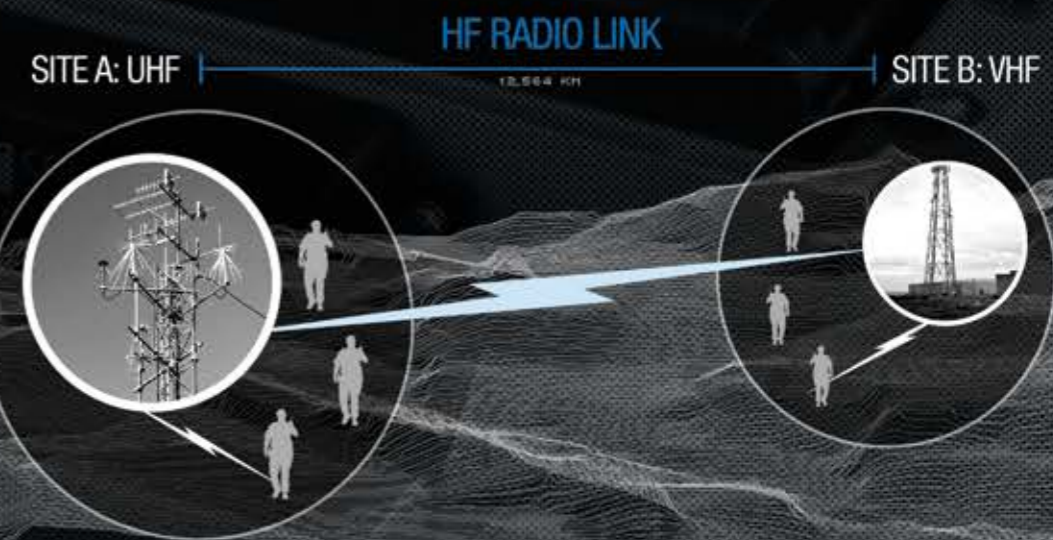
FLEXIBLE FREQUENCIES

Easy to configure to suit any frequency requirements



LIGHTWEIGHT AND RUGGED

Housed in a polyethylene weather resistant case, that is both tough and lightweight, with wheels and handles for easy transportation by vehicle or aircraft



PROBLEM: DISTANT LMR RADIO SITES

The distance between two or more local LMR radio sites can be too great for typical LMR technology to overcome, which means that the groups of subscribers associated with each site are unable to communicate with each other.

SOLUTION: INTEGRATED LMR AND HF RADIO NETWORK

A HF link crosspatched to an LMR repeater at each site enables long distance communications between two or more local LMR sites — previously a leased line, microwaves or private IP networks were the only option. VHF and UHF cannot provide this link due to the physical nature of propagation.

CODAN MRAY™ — THE CODAN SOLUTION

Codan's HF and LMR solution consists of a VHF/UHF 30 W Repeater, Envoy™ Software Defined HF Radio, 3031 Crosspatch™ and a universal-input rugged mains power supply.

A lightweight, compact polyethylene case is available to accommodate standard Codan radio modules in standalone or crosspatch configurations, as well as an optional battery backup, duplexer and accessory storage box. Optional deployable accessories include a solar panel system, battery case and antenna and masts.



Codan Envoy™ HF Radio

Codan 3031 Crosspatch™

Codan VHF/UHF 30 W Repeater

Accessories



BATTERY BACKUP



SOLAR PANEL SYSTEM



TACTICAL 411 BROADBAND ANTENNA

CODAN RADIO COMMUNICATIONS

Codan Radio Communications is a leading designer and manufacturer of premium communications equipment for High Frequency (HF) and Land Mobile Radio (LMR) applications. We've built our reputation for reliability for over 50 years in radio communications, in some of the toughest conditions on the planet.

CODAN RADIO COMMUNICATIONS

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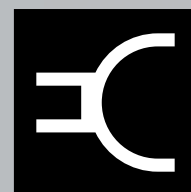
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