





Miniature P25 Suitcase Repeater



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Small, Light and Dependable

Responding to emergencies and natural disasters demands ultra reliable equipment that can be deployed at a moments notice. Radio users have long sort the ideal tactical response portable repeater configuration especially those operating in P25 digital mode. A dependable communications solution which could be deployed by non-technical staff simply and easily in any environment. Prior attempts had either been physically too heavy and cumbersome, or had required external connection of large bulky batteries and invariably always needed technical support. Wireless Pacific's unique know how in digital radio and rapid deployment techniques has now created Pico P25TM the world's smallest and lightest self contained, P25 secure suitcase repeater.



Rapid Deployment Miniature P25 Suitcase Repeater

Introducing AIRaptor Lite, the world's smallest and lightest P25 digital suitcase repeater. Designed to be deployed in every environment, by almost anyone in just minutes. They are fully code transparent with an internal 8.5AH sophisticated battery management system providing for over 12 hours of heavy voice traffic communications.

AIRaptor Lite's ultralight (<10lbs), ergonomic weatherproof design means it can be deployed in harsh environments with little or no protection. Most significantly, it has been optimized so that "talk in" and "talk out" range is optimally balanced for P25 portable hand-held radios. This helps insure personnel won't be falsely "lured out" of radio range due to over-powered base station transmissions. With the MERLAN P25 option, the AIRaptor Lite units can be hooked together, or linked to existing fixed repeaters, RF control and local base stations to provide dynamic wide area networks. This also allows you to tap into other agency networks for joint operations - anywhere in the world. Designed specifically for mission critical professionals, make it part of your tactical response inventory today.

..when it must work!





- VHF/UHF REPEATER
- V/U & 800MHz RF CONTROL
- CROSS BAND OPTION
- AES/DES TRANSPARENT
- MERLAN P25 "GLOBAL" OPTION
- INTEGRATED 8.5AH Li-POL BATTERY
- SMART DEPLOYMENT ACCESSORIES
- SIMPLE INTUITIVE OPERATION
- MINIMAL USER TRAINING







Magnetic base antenna kit



creating a safer place to work

Encryption

The miniature AlRaptor Lite allows secure operation via transparent operation whereby any valid P25 voice transmission is passed through the repeater.

Solar Power

AlRaptor Lite is designed to allow use with a broad range of solar panels from leading suppliers or the WPSPK series. In normal sunlight this allows the AlRaptor Lite to be recharged and left for weeks, even years without the need for human intervention.

MERLAN P25™ Dynamic Wide Area Connectivity

Setting up a AlRaptor Lite with MERLAN P25 couldn't be simpler. After you've found a suitable location to locate the radio repeater, just connect a cat 5 cable to any available ethernet wall socket. Just enter the local IP address into the MERLAN P25 server and you're connected. Need wireless? Use the WiFi option and log into any 802.11 access point on your network or even at an internet cafe. Connect as many other AlRaptor Lite units as you need, knowing all transmissions received will be instantly routed to every other site for re-transmission - 100% secure.

Remote Site

A comprehensive range of temporary mast kits provides all the necessary parts to implement a highly substantial remote antenna site. These kits are highly compact and designed for immediate deployment with minimal effort. The WPEMF kits include ultralight fiberglass masts-both 5 and 10 Metres versions. Each kit includes a black collapsible mast, unity gain antenna, guy ropes, anchors, mounting base and all required installation items. Alternatively for more durable deployments, we offer a range of WPEMA pump-up aluminium masts.

Transit case

A fully IP67 rated transit case is available for transport and shipping the Raptor Lite repeater anywhere in the world on any aircraft. These cases integrate a custom mould for protecting and storing the repeater and its supplied AC power cable. The case also includes a magnetic base antenna with 5M of coax, along with a 2M DC charging cable with battery "alligator" clips and a deployment operating guide inside its top lid.

Secondary Battery

The PPP3600 lightweight Li-POL Power Pack is available when extended operation is required. These 34AH packs can extend standalone life of the Raptor Lite in repeat mode to over 7 days at a typical 20% Tx duty cycle. These matching size suitcases are shock resistant and completely water/air tight and are available in the complete range of Pelican® colours. Note: can also be used with WPEMA mast pumps.

MODEL OVERVIEW





Control Panel



IP67 AC/DC Connector (MERLAN P25 OPTION FITTED)



Transit Case



PPP3600 34AH LI-POL Power Pack



Specifications:

Frequency bands: 136-174, 360-400, 400-480, 450--520 MHz

Channel Spacing: 12.5/25/30kHz

Operating Temp.: -10° C to $+60^{\circ}$ C (RF-30°C to $+60^{\circ}$ C)

Frequency Stability: 2ppm

Tx Current: 2800mA @5W

380mA

Stand-by Current: Input AC Voltage: Input DC Voltage: 90-260VAC 47-63Hz 10-30VDC >25W RF Power Output: 1-5W (programmable) 5 WATTS Continuous Duty Cycle: Duplexer Bandwidth: 500kHz max (Max Tx:Tx/Rx:Rx) **Duplexer Loss:** 1.5dB max loss (1dB typical) FM Hum & Noise: >40dB(12.5kHz) / >45dB (25kHz)

<0.25µW <1GHz Spurious Emissions: Sensitivity: 0.3uV for 12dB SINAD

P25 Sens. (5% BER): -116dBm

>65dB (ETS Method) Intermodulation:

Selectivity: 25kHz > 73dB / 12.5kHz > 65dB

Spurious Responses: 70dB (ETS) Dimensions:

27.0 x 24.6 x 12.4 cm >12 hrs @ 10% 5W Tx duty cycle Battery Life:

Capacity (ambient 68F/20C) 8.5AH Li-lon

Standard Weight: <4.5Kg

Type Acceptance: FCC, ETS300 AS/NZ4295











3601 E. Algonquin Rd, Suite 800, Rolling Meadows, IL 60008 USA Tel: (847) 818-1649 (866) SAFEMOBILE Fax: (847) 818-9190 www.safemobile com

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