



Logic Portable Repeater

SIMPLE AND INSTANTLY DEPLOYABLE
TWO-WAY RADIO COVERAGE



LOGIC PORTABLE REPEATER

The Logic Portable Repeater (LPR) is designed to allow simple and instantly deployable wide area two-way radio coverage. Housed in a rugged, waterproof Pelican case, it uses the proven and innovative Radio Activity Kairos repeater at its heart. The Kairos repeater is a highly flexible but compact 25w repeater platform that allows the Logic Portable Repeater to be one of the smallest deployable repeater packages available.

The Kairos repeater is available for all common frequency bands and can operate in multiple modes including analogue, DMR Tier 2 and P25 conventional – all in a single repeater. The Kairos repeater also has one of the lowest power consumptions currently available, allowing outstanding shift life from the integrated 22 AHR Lithium Ferro Phosphate (LiFePO₄) battery.

The LPR can be supplied with or without an internal battery, providing fantastic flexibility for different power supply arrangements – power supply and battery management is built in to the package, simplifying its use, even for non-technical personnel.

The package also houses an internal duplexer enabling use of a single antenna, different manufacturer options can be accommodated or supplied by Logic Wireless.

The mechanical design has been engineered for exceptional durability, giving confidence for rapid deployment in harsh environments. Simplicity and toughness have been the key design factors for Logic Wireless to develop the most capable portable repeater on the market.



PRODUCT HIGHLIGHTS

SLED DESIGN

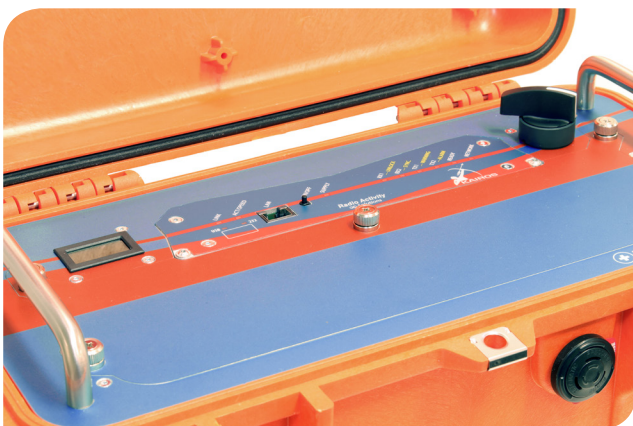
The innovative sled design comprises of an internal component tray housing the repeater and duplexer. The sled can be removed from the outer housing quickly to allow easy retuning of the duplexer when rechannelling the portable repeater.



PACKAGE SPECIFICATION

Case	Pelican 1430 Orange – alternate colour options: Black, Yellow, Olive Drab, Desert Tan
Dimensions	420 x 220 x 340mm
Runtime	>10Hrs @ 15W Transmit, 50/50 Duty Cycle
Battery	22 AHr Lithium Ferro Phosphate LiFePO4* No battery option is available
Charger	Input – 100-240VAC, Output – 15VDC 6A
Charge Time	<6Hrs
Aux DC Input	12-16VDC
	Internal battery voltage indicator Battery isolation switch
IP	IP – Minimum IP54 with the lid closed
Package Weight	13.4kg

* Please check your local battery shipping restrictions



TECHNICAL SPECIFICATIONS

CHOICES OF DUPLEXER

(OTHERS AVAILABLE ON REQUEST):

BAND	MIN TX – RX SPACING	MANUFACTURER	MODEL
66-88MHz	800kHz	Procom	DPF 4/6-HX-150
136-174MHz	1.3MHz	Procom	DPF 2/6-HX-150
406-470MHz	5-7MHz	Procom	DPF 70/6-5/7-N(f)
406-470MHz	9-13MHz	Procom	DPF 70/6-9/13-N(f)
440-490MHz	4.6-6MHz	EMR Corp	65316-1/MC(5G)
440-490MHz	8-11MHz	EMR Corp	65316-1/MC(10G)
490-520MHz	4.6-6MHz	EMR Corp	65316-0/MC(5K)

KAIROS REPEATER SPECIFICATIONS

Frequency Bands	66-88MHz 136-174MHz 400-470MHz 450-520MHz
Supported Protocols Available as standard: Software upgrade options:	Analogue, DMR Tier II, Voting DMR Tier III, P25 Conventional, POCSAG, Simulcast
Channelisation	25/ 20/ 12.5/ 6.25KHz
RF Output Power	1-25 W 100% duty cycle/ selectable per channel
Operating Temperature	-30°C to +60°C
Current Consumption Transmit: Receive:	4.3A @ 25W RF 360mA with Main + Diversity Receive enabled
Interfaces	Audio Lines 2 x 4 wire + E&M LAN port Ethernet 10 Base-T/ 100 Tx on an RJ45 socket 3x Digital I/O 2x Analog Inputs