

MGL Avionics

VHF-10 Transceiver



Advanced digital technology – large display – 250 grams – low price!

\$1,235!

(delivered)

MGL's air band VHF transceiver is the first commercial product of its kind to utilize modern receiver and transmitter technology. All audio processing and much of the receiver and transmitter circuitry is fully digital resulting in an outstanding quality experience unavailable with traditional technology.

TX carrier power 6W (unmodulated), digitally controlled modulation for best possible carrier use at all times resulting in excellent range.

25Khz or 50Khz channel spacing (European model 8.33Khz narrow band enabled).

VHF band including navigation channels (RX only). 100 channel storage with frequency, alpha numeric designation and function identifiers. Active/Standby frequency system with scanning. Built in fully digital 2 place VOX system with independent VOX for each microphone.

Dual, configurable PTT.

Dual remote control of transceiver for Primary and backup EFIS panels. Additional remote control for passive control head.

Emulates SL40 communications protocol for easy integration with existing EFIS panels. Can be fully remote controlled by low cost, passive panel (ideal for tandem seater aircraft).

Simple installation, light weight at 250 grams, very compact with low mounting depth.

No brackets required, fits standard 3.5" instrument hole (3.1/8" hole size). Very low power requirements, very high transmitter power efficiency due to Class-D modulator.

This transceiver is ideal for open cockpit aircraft and can be fully operated with gloved hands.

Wide Operating voltage range: 10V (at slightly reduced output power) to 28V DC.

VHF Airband transceiver based on modern digital signal processing technology with built in multi-mode dual circuit intercom system.

Shipping Now!

(02) 6259 2002

Asia Pacific Light Flying

www.lightflying.com.au

MGL Avionics VHF-10 features:



- 6W TX carrier power (unmodulated)
 - 108.00 to 117.75 MHz navigation channel RX (sound only, no navigation functions)
 - 118.00 to 136.75 MHz coverage (RX and TX)
 - Large sunlight readable LCD display
 - 100 channels with alpha-numeric frequency name and function
 - Active and standby frequency/channel selection system
 - Dual scan with priority on active using single transceiver
 - Dual watch with priority on active using two transceivers connected to each other (one for active, one for standby frequency, full redundancy operation possible)
 - Comprehensive dual communication links for fully redundant remote control from two independent EFIS panels
- SL40 communications compatible with MGL extensions to enable full remote control of entire transceiver with status feedback
 - Fully digital audio subsystem using 18bit resolution CODEC for excellent dynamic range
 - Dual circuit digital intercom system (Pilot and passenger circuit)
 - User selectable ambient noise suppression system and VOX modes:
 - a) Traditional VOX with adjustable level and soft mute
 - b) Traditional VOX with adjustable level, soft mute and audio delay path
 - c) MGL Avionics propriety VOGAD ambient noise elimination system. The best ever. Period.
 - Switchable voice band filter for extremely high noise environments
 - Auxiliary audio input for EFIS or music systems (two inputs)
 - Adjustable microphone levels with bargraph display of levels - easily adjust for best performance
 - Pilot and passenger PTT circuits
 - Pilot and passenger PTT join or isolate
 - Audio output drives 8ohm speaker or 600 ohm headsets
 - Fully digital class-D modulator for best in class power efficiency during transmit
 - Excellent TX sound quality with digitally controlled modulation
 - Highly accurate and stable fully digital PLL frequency source operating at 5GHZ (DPLL)
 - Dual superhet receiver with 45Mhz 1st IF and 455Khz 2nd IF
 - Bargraph display of received signal level
 - Bargraph display of transmitted audio level - see how well your TX carrier is modulated (visual sidetone)
 - Field updatable software (requires PC with RS232)
 - PC based interface and simulation application available free. Maintain your frequency databases on your PC and upload if you prefer (requires Rs232 port or USB to Rs232 converter)
 - Wide voltage range operation - 10V to 28VDC
 - Super low power consumption: RX 120mA, TX 1.2A (at 13.8V DC)
 - Large keys, no knobs - possible to operate with gloved hands, ideal for open cockpit aircraft
 - Fits standard 3 1/8" hole (3.5" between mounting holes diagonal)
 - Very low weight: 250grams (~1/2 lbs)
 - Very small mounting depth, only 5.5cm (2.2") plus connectors
 - Zero internal adjustment and calibration during either production or service, no adjustable inductors, capacitors or anything else for long stability and service life
 - Low cost - best "bang for the buck" airband radio ever created.



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