

AD-90 PMR 446

Aspera
HIGH PERFORMANCE TWO WAY RADIO

- Enhanced Encryption
- Private/Group/All call
- Battery saving function
- End-tone elimination
- Low battery prompt
- Programmable side key
- Talk around
- PC programming protection
- TOT
- Busy channel lock
- Wide/narrow bandwidth selective



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Dated 18 Oct, 2018



AD-90

Use Time-Division Multiple-Access (TDMA) Digital Technology

Main Functions

- Enhanced Encryption
- Private/Group/All call
- Built In CTCSS/DCS
- Compatible with Mototrbo Tier1 & Tier2(Voice Only)
- Up to 32 Channels
- End-tone elimination
- low battery prompt
- Programmable side key
- Talk around
- PC programming protection
- TOT
- Busy channel lock
- Wide/narrow bandwidth selective

General

Frequency Range	446-446.2MHz
Channel Capacity	32
Zones	2
Channel Specing	12.5KHz
Working Voltage	DC 7.4V(+/-20%)
Frequency Stability	+/-1.5ppm
Antenna Impedance	50ohm
Battery Average Working Time (5/5/90)	Digital 18 hours; Analog 14 hours
Weight	259g(including battery pack)
Battery Capacity	2300 mAh
Dimensions	35(L)x59.7 (W)x114(H) mm

Receiver

Digital Sensitivity	446-446.2MHz
Analog Sensitivity	12.5KHZ
Intermodulation	+/-1.0ppm
Adjacent Channel Selectivity	0.35uV/-116dBm(20dB SINAD) 0.22uV/-120dBm(Typical)
Spurious Suppression	0.3uV/-117.4dBm(BERS%) 0.7uV/-110dBm(BER1%)
FM Noise	TIA603C: 65dB ETSI: 65dB
Frequency Response	TIA603C: 60dB @ 12.5KHZ ETSI: 60b8 @ 12.5KHZ
Audio Power	TIA603C: 70dB ETSI:70dB
Audio Distortion	<-57dBm@1GHZ,>-47dBm@
Conduction Radiation	84dB

Transmitter

Power Output	0.5W
4FSK Modulation	12.5Khz Data Only :7K60FXD 12.5Khz data and voice : 7K60FXE
FM Modulation	12.5Khz : 8K50F3E
Modulation Limitation	+/-2.5KHz @12.5KHz +/-5KHz@5KHz
FM Noise	-40dB
Spurious emission	<-36 dB<=1GHz -30 dB>=1GHz
Adjacent channel Power	<=-60 dB
Frequency Response	+1/-3 dB
Audio Distortion	<3%
Vocoder	AMBER+2™

Environmental Specifications

Working Temperature	-20C ~+60C
Storage Temperature	-30C~+85C
Water proof	IP54

Standard Accessories

