



# MIDLAND®

## OLYMPIAN SERIES MOBILE RADIO

- 8 / 16 / 32 / 128 CHANNELS / 50 WATTS VHF / 45 WATTS UHF
- CTCSS / DCS
- MULTIPLE SCAN FUNCTIONS
- TWO-TONE ENCODE / DECODE
- PROGRAMMABLE 12.5 / 25 KHZ BY CHANNEL
- ALPHA-NUMERIC DISPLAY ON 32 & 128 CHANNEL MODELS
- PROGRAMMABLE SOFT KEYS
- MEETS MIL-STD 810F



**ROCK  
SOLID**



VHF MODEL # MO-1008/16 /32 /128  
UHF MODEL # MO-4008/16 /32 /128

MIDLAND RADIO CORPORATION  
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	VHF Models MO-1008 / MO-1016 MO-1032 / MO-1128	UHF Models MO-4008 / MO-4016 MO-4032 / MO-4128
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Specifications	VHF Models MO-1008 / MO-1016 MO-1032 / MO-1128	UHF Models MO-4008 / MO-4016 MO-4032 / MO-4128
Frequency Range	136 - 174 MHz	430 - 470 MHz
Channels	8 / 16 / 32 / 128 [banks of 16]	8 / 16 / 32 / 128 [banks of 16]
Channel Spacing	12.5 / 25 kHz	12.5 / 25 kHz
Channel Stepping	5 / 6.25 / 7.5 kHz	5 / 6.25 / 7.5 kHz
CTCSS / DCS per Channel	50 CTCSS / 104 DCS	50 CTCSS / 104 DCS
Input Voltage	13.6V DC $\pm$ 15%	13.6V DC $\pm$ 15%
Dimensions H x W x D	1.73" x 6.45" x 6.38" [44 x 164 x 162 mm]	1.73" x 6.45" x 6.38" [44 x 164 x 162 mm]
Weight	3.3 lbs. [1.5 kg]	3.3 lbs. [1.5 kg]
MIL-STD Specifications	810F	810F
FCC Identifier	MMAMO1032	MMAMO4032
FCC Compliance	Part 90	Part 90



Heavy Duty DTMF Mobile Mic (ACC-709)  
Heavy Duty Mobile Mic (ACC-4473)



Heavy Duty Remote Speaker  
(AA-1470A)



Base Station Power Supply  
110V/220V AC (MS-0730)

### Receiver Specifications

Measurements Per TIA/EIA-603 Specifications

Specifications	VHF Models MO-1008 / MO-1016 MO-1032 / MO-1128	UHF Models MO-4008 / MO-4016 MO-4032 / MO-4128
Frequency Stability	$\pm$ 2.5 ppm [-30° to +60° C]	$\pm$ 2.5 ppm [-30° to +60° C]
Sensitivity [12dB SINAD]	0.25 $\mu$ V	0.25 $\mu$ V
Selectivity	70 dB @ 25 kHz ; 65 dB @ 12.5 kHz	70 dB @ 25 kHz ; 65 dB @ 12.5 kHz
Acceptable Radio Frequency Displacement	$\pm$ 2 kHz @ 25 kHz; $\pm$ 1 kHz @ 12.5 kHz	$\pm$ 2 kHz @ 25 kHz; $\pm$ 1 kHz @ 12.5 kHz
Spurious Rejection	70 dB @ 25 kHz ; 65 dB @ 12.5 kHz	70 dB @ 25 kHz ; 65 dB @ 12.5 kHz
Intermodulation Rejection	70 dB @ 25 kHz ; 65 dB @ 12.5 kHz	70 dB @ 25 kHz ; 65 dB @ 12.5 kHz
Squelch Sensitivity	<12 dB SINAD	<12 dB SINAD
Audio Response	Per EIA/TIA-603 Specifications	Per EIA/TIA-603 Specifications
Audio Output	4 Watts <5% THD into 8 $\Omega$	4 Watts <5% THD into 8 $\Omega$
RF Input Impedance	50 $\Omega$	50 $\Omega$



Base Station Microphone  
(ACC-704)

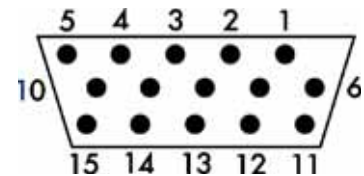
\*\*\*Other Options Not Shown\*\*\*

- PC Programming Software (Win 95 or later)  
on CD-ROM (ACC-910CD)
- PC Programming Interface Cable (ACC-2100)
- MO Series Service Manual (680-100-2017)

### Transmitter Specifications

Measurements Per TIA/EIA-603 Specifications

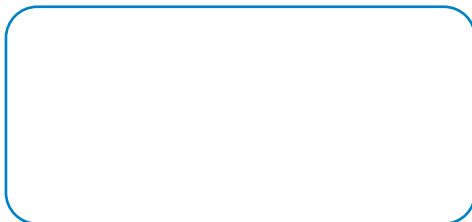
Specifications	VHF Models MO-1008 / MO-1016 MO-1032 / MO-1128	UHF Models MO-4008 / MO-4016 MO-4032 / MO-4128
RF Power Output	50 Watts or 5 Watts	45 Watts or 5 Watts
Frequency Stability	$\pm$ 2.5 PPM -22° F to +140° F [-30° C to -60° C]	$\pm$ 2.5 PPM -22° F to +140° F [-30° C to -60° C]
Modulation	11K0F3E, 16K0F3E	11K0F3E, 16K0F3E
Adjacent Channel Emissions	70 dB @ 25 kHz; 60 db @ 12.5 kHz	70 dB @ 25 kHz; 60 db @ 12.5 kHz
Spurious Emissions	70 dB	70 dB
FM Hum and Noise	45 dB @ 25 kHz ; 40 dB @ 12.5 kHz	45 dB @ 25 kHz ; 40 dB @ 12.5 kHz
Audio Response	Per EIA/TIA-603 Specifications	Per EIA/TIA-603 Specifications
Audio Distortion	<5% 1 kHz @ 60% deviation	<5% 1 kHz @ 60% deviation
RF Output Impedance	50 $\Omega$	50 $\Omega$



### DATA CONNECTOR PIN-OUT

- |                    |                        |
|--------------------|------------------------|
| 1 - Speaker 1      | 8 - Decode Valid       |
| 2 - Speaker 2      | 9 - TX Data            |
| 3 - Ignition Sense | 10 - Mic. Mod. In      |
| 4 - Call Alert     | 11 - Discriminator Out |
| 5 - Hook Switch    | 12 - RX Data           |
| 6 - PTT            | 13 - Ground            |
| 7 - RX Audio Out   | 14 - Switched 13.6V DC |
|                    | 15 - Subaudible In     |

FOR MORE INFORMATION, CONTACT:



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