

# Mag One

by Motorola



Portable Radio

# A8

Ultra-Affordable Business Radio



## Ultra-affordable Business Radio

**Looking for an effective and affordable communication tool to improve your business productivity?**

Look no further, the Mag One by Motorola A8 is the answer. Ideal for use in retail, hotel, restaurants, entertainment and service industries, the Mag One by Motorola A8 is the right choice for businesses seeking a simple yet reliable and affordable two-way radio to provide ease of communications at the work place.

**Easy to use features that boost productivity**

### 16 Channels

Allows users to organise work teams into different talkgroups to increase operational efficiency. The rotary channel knob provides quick and easy access to these talkgroups.



### Private Line (PL)/Digital Private Line (DPL)

Setting up talkgroups with unique PL/DPL helps to block out unwanted conversation on the same frequency.



### Compact Design

The small and compact radio fits comfortably in the hand, making it easy to handle throughout the work shift.



### Loud and Clear Audio

The loud and clear audio enable users to continue communicating even in noisy environment.



### Long Battery Life

Provides more than 8 hours of talktime with a single battery. The battery life could be further extended by enabling the Battery Saver Mode feature.



### Low Battery Indicators

The LED visual indicator, plus an audible tone, alert users of low battery capacity.



### Repeater/Talkaround

Enable user to chose point-to-point communication or via a repeater at the press of a button.



### Scan

Allow users to monitor activities on different communication channels so that important message will not be missed. Priority scan is available for those who want to constantly monitor a particular channel.



### Sticky Permanent Monitor

Allows users to stay on monitor on the current channel without consistently pressing the button.



### Other Features

- Button Lock
- Volume set
- Time-out-timer
- Tight or Normal Squelch Setting
- Busy Channel Lockout
- Nuisance Channel Delete

### Accessories

- PMMN4008: Remote Speaker Microphone



- PMLN4442 & PMLN4443: Earbud/Ear Receiver with in-line mic/PTT



- PMLN4445: Ultra Lightweight Headset with in-line PTT



- PMLN4294: Earbud with Microphone & PTT



- PMLN4605: Add-on Optional Kit: Clear Acoustic Earpiece



- PMLN4658: D-shell Earset with Boom Mic/PTT



- PMLN4742 & PMLN4741: Hard Leather & Soft Leather cases



- PMNN4071: NiMH Battery, 1200mAh



- AZPMLN4686/87/88 & PMLN4689: Charger-Mid Rate



General	VHF		UHF	
Frequency Range	136-150MHz 150-174MHz		403-425MHz 450-470MHz	
Memory Channels	16			
Channel Spacing	12.5/25 kHz switchable			
Operating Temperature Range	-30C to +60C (Radio) -20C to +60C (with NiMH battery)			
Dimensions (H X W X D)	107mm x 58mm (bottom) x 37mm			
Weight	350g			
Average Battery Life @5-5-90% Duty Cycle	>8 hrs			
Sealing	Passes rain testing per IPX4			
Shock & Vibration	Diecast with impact resistance polycarbonate housing, Passes EIA 603B			
Dust & Humidity	Weather resistant housing passes EIA 603B			
Transmitter	VHF		UHF	
RF Output	High Power 5W	Low Power 1W	High Power 4W	Low Power 1W
Spurs and Harmonics	-63dBc (-26Bm @ 5W: -27dBm @ 4W)			
Frequency Stability	±2.5ppm			
FM Hum & Noise	40dB			
Modulation Limiting	≤ 5Khz (25KHz) ≤ 2.5Khz (12.5kHz)			
Audio Response (from 6dB/oct pre-emphasis, 300-3000Hz)	+1/-3dB			
Audio Distortion @ 1 kHz tone, 60% rated max dev.	<5%			
Receiver	VHF		UHF	
Sensitivity (12dB SINAD)	<-119dBm (0.25µV)		<-117.5 dBm (0.3µV)	
Adjacent Channel Selectivity	65dB (25kHz), 60dB (12.5kHz)			
Intermodulation	65dB (25kHz), 60dB (12.5kHz)			
Spurious Rejection	65dB			
Audio Distortion	<5%			
Hum and Noise	40dB			
Conducted Emission	<-57dBm			
Audio Output @ <5% Distortion	500mW			

Portable Military Standards 810 C, D, E and F								
Applicable MIL-STD	810 C		810 D		810 E		810 F	
	Methods	Procedures	Methods	Procedures	Methods	Procedures	Methods	Procedures
High Temp	501.1	1	501.2	1	501.3	1	501.4	1
Low Temp	502.1	1	502.2	1, 2	502.3	1, 2	502.4	1, 2
Temp. Shock	503.1	1	503.2	1	503.3	1	503.4	1
Solar Radiation	505.1	1	505.2	1	505.3	1	505.4	1
Humidity	507.1	2	507.2	2, 3	507.3	2, 3	507.4	3
Salt Fog	509.1	1	509.2	1	509.3	1	509.4	1
Dust	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	8, 10	514.3	1	514.4	1	514.5	1



Availability subject to country's law and registrations.  
All specifications shown are typical and subject to change without notice.