

# AR-ONE

## Communications Receiver

The AR-ONE gives you total command of frequencies, modes, tuning steps and more. It is possible to tune in increments of **one** Hz.



## Monitor Any Frequency from 10 KHz to 3.3 GHz

### Ultra-stable reference frequency oscillator (0.1ppm)

**The AR-ONE is a  
new beginning for  
wide-range monitors.**

*The AR-ONE is designed to support computer controlled operation. Link up to 99 receivers for control by a single PC. The AR-ONE can be used for mobile or fixed monitoring operations.*

Surveillance operations are enhanced. Monitoring multiple frequencies is easier and faster. Computer control gives you maximum flexibility and unleashes the many features found in this advanced technology receiver.

The AR-ONE is the right choice for the new world we now monitor.

- Super wide coverage: 10 KHz ~ 3.3 GHz
- 1000 memory channels
- 10 VFOs
- Monitor AM, NFM, WFM, USB, LSB, CW, Data
- Ultra-stable reference frequency oscillator
- Two RS-232C ports plus control head port
- Control up to 99 AR-ONE Units with one PC
- Triple conversion superheterodyne front end
- Antenna input level readout
- Adjustable BFO
- High intercept
- Multi IF signal output (10.7 MHz or 455 KHz)
- Excellent sensitivity

*The AR-ONE is designed for use by the monitoring professional. The AR-ONE is so advanced, you'll be thinking of new applications for its powerful capabilities.*



Authority on Radio  
Communications

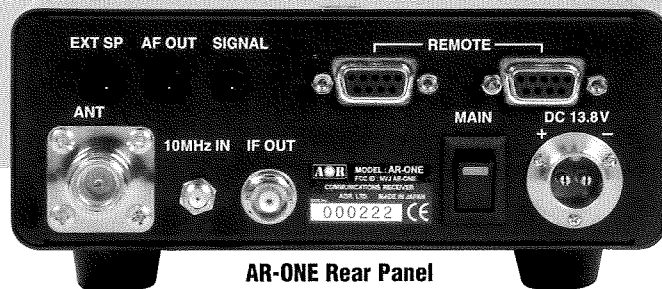
**The Serious Choice in Advanced  
Technology Receivers™**

# AR-ONE

## Advanced Technology Communications Receiver

### SPECIFICATIONS

Model:	AR-ONE	
Configuration:	Triple conversion super heterodyne	
Frequency coverage:	10KHz ~ 3.3 GHz (no gap)	
Receive mode:	AM, NFM, WFM, USB, LSB, CW	
Sensitivity:	NFM/WFM: 12dB SINAD (IF GAIN = 255 (0 - 255)) AM/SSB/CW: 10dB S/N (IF GAIN = 100 (0 - 255))	
20 - 40 KHz	CW	5uV
40- 100KHz	CW	2.5uV
	AM	10uV
100-1000KHz	NFM	4uV
	CW	2uV
	AM	5uV
1-25MHz	NFM	2.5uV
	CW	2uV
	AM	5uV
25-1000HMz	NFM	0.8uV
	WFM	1.3uV
	CW	0.8uV
	AM	2.3uV
1G-2.5GHz	NFM	0.8uV
	WFM	1.3uV
	AM	1.3uV
2.5G-3.3GHz	NFM	1.3uV
	WFM	1.5uV
	AM	1.5uV
IF frequencies:	1st IF : 755 MHz /265 MHz, 2nd IF : 10.7 MHz, 3rd IF : 455 KHz	
Frequency steps :	Standard steps: 1, 10, 50, 100, 500 Hz, 1, 5, 6.25, 9, 10, 12.5, 20, 25, 30, 50, 100, 500 KHz	
Non standard steps:	Less than 1 MHz ( 1 Hz incremental)	
Selectivity:	B/W	- 6 dB - 60 dB
	0.5 KHz	0.5 KHz > < 2 KHz
	3 KHz	3 KHz > < 6 KHz
	6 KHz	6 KHz > < 20 KHz
	9 KHz	9 KHz > < 30 KHz
	15 KHz	15 KHz > < 40 KHz
	30 KHz	30 KHz > < 70 KHz
	110 KHz	110 KHz > < 450 KHz
	220 KHz	220 KHz > < 600 KHz
300 KHz	300 KHz > < 900 KHz	
Spurious Sensitivity:	60 dB >	
Adjacent Selectivity:	50 dB >	
Dynamic Range:	90 dB >	
Unwanted Spurious emission:	< -57 dBm	
Intermodulation:	65dB	
Frequency stability:	+/- 0.1 ppm (-10 ~ 50 C)	
THD:	20 dB > (< 10 %)	
Audio Output:	1.5 w (at 8 ohms, THD < 10 %)	
Power requirement :	13.5 V DC, < 2 amp. ( @ 1 w audio output)	
Antenna impedance:	50 ohm	
Antenna Connector :	N type	
IF output level:	-30 dBm (10.7 MHz/455 KHz) at -50 dBm of RF input	
External frequency standard input :	10 MHz (0 dBm +/- 3 dB)	
Control interface :	RS-232C	
Operating temperature:	-10 ~ 50 degrees ( C ) , +14 ~ 144 degrees ( F )	
Dimensions:	157 (w) x 58 (h) x 270 (d) (mm), 6.2 (w) x 2.3 (h) x 10.8 (d) (inch)	
Weight:	Approximately 2.2 Kg (4.9 lbs)	



AR-ONE Rear Panel

### Amazing Stability

Accuracy of 0.1 ppm from -10° ~ 50° C (14° ~ 122°)

### Unparalleled Range

Continuous tuning from 10 KHz to 3.3 GHz.

### Connectivity

Control up to 99 AR-ONE units from just one PC. Provisions for external speaker, IF outputs (10.7 MHz or 455 KHz), Frequency standard input (for coherent).

### High Intercept

Greater than +2 dBm (-1 dBm above 2.5 GHz).

### Applications

Surveillance, military, intelligence gathering, media monitoring, transmitter location, technical troubleshooting and more.



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*In the USA, AR ONE is only available to authorized users, documentation required.*

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