

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.

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
25-1000MHz	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.

*Specifications subject to change without notice or obligation.
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