

AOR SR1050/SR1050V Surveillance Receiver

Are your surveillance tools up to date?



AOR has built a package designed to meet the needs of the surveillance professional. Covering 10 KHz to 2600 MHz, the SR1050/SR1050V combines a state of the art receiver with an LCD Spectrum display unit, giving the operator unsurpassed capabilities to identify and monitor a specific signal and identify its characteristics.

*Discover why AOR is the
Serious Choice in Advanced
Technology Receiverssm*



The "heart" of the AOR SR1050 is the AR5000Plus3 high-performance wide-band all-mode receiver. With accurate tuning to 1 Hz, analog signal strength meter and a host of operator-selected features and options, its performance is highly respected by law enforcement, military and laboratory users. Teamed with the SDU5500 Spectrum Display Unit, the package is interactive and computer compatible. The AS5000 automatic antenna switch (included) works interactively with the AR5000Plus3, providing automatic selection among four antennas for maximum receiver sensitivity.



AS5000 automatic antenna switch

The SR1050V can be used as a vector analyzer, for use in monitoring digital communications.

Data packets in PDC, PHS and GSM formats can be displayed and identified in binary. It is also possible to see HEX information at a point from which analysis can begin. PDC, PHS and GSM can be viewed from the pre-set mode. A manual mode is also available to change modulation modes and symbol rates. This can be useful in using other applications, such as analyzing modems. The display

can depict eye diagram, vector trace, constellation, trellis diagram, hex dump and bin dump outputs.

Bring your surveillance capabilities to their maximum potential with the AOR SR1050 or SR1050V.

- Superior sensitivity
- Rack mounted for mobile or fixed use
- 13.8 VDC input (3A)
- Computer interface
- All mode reception
- TCXO receiver
- Multiple IF bandwidths
- Auto mode bandplan selection
- Intended for government and export use only

AOR SR1050/SR1050V

Designed to meet the needs of the surveillance professional, the SR1050 combines the AR5000Plus3 state of the art receiver with the SDU5500 LCD spectrum display unit.

AR5000Plus3 Features

- TCXO is standard
- Covers 10 KHz ~ 2.6 GHz
- Tuning steps to 1 Hz
- All modes - AM, FM, LSB, USB, CW
- Automatic front end preselection
- Multiple IF bandwidths
- Multifunction LCD with 7 character alphanumeric text
- Analog S Meter
- CyberScan™ up to 45 channels/second
- Auto memory storage
- Excellent strong signal handling

AR5000Plus3 Specifications

Frequency range:	10kHz ~ 2600MHz
Receive modes:	AM, FM, USB, LSB & CW
Nominal filter bandwidths:	3kHz, 6kHz, 15kHz, 30kHz, 110kHz & 220kHz (provision for 500Hz option)
Tuning:	NCO 1Hz to 999.999999kHz
Typical sensitivity 10 - 20 MHz	0.56uV AM 6kHz filter 10dB S/N 0.25uV SSB 3kHz filter 10dB S/N 0.36uV FM 6kHz filter 12dB SINAD 0.40uV FM 15kHz filter 12dB SINAD
90 - 150 MHz	0.50uV AM 6kHz filter 10dB S/N 0.20uV SSB 3kHz filter 10dB S/N 0.25uV FM 6kHz filter 12dB SINAD 0.28uV FM 15kHz filter 12dB SINAD 0.50uV FM 30kHz filter 12dB SINAD 0.80uV FM 110kHz filter 12dB SINAD 1.12uV FM 220kHz filter 12dB SINAD
400 - 700 MHz	0.56uV AM 6kHz filter 10dB S/N 0.23uV SSB 3kHz filter 10dB S/N 0.28uV FM 6kHz filter 12dB SINAD 0.32uV FM 15kHz filter 12dB SINAD 0.50uV FM 30kHz filter 12dB SINAD 0.80uV FM 110kHz filter 12dB SINAD 1.25uV FM 220kHz filter 12dB SINAD
1.6 ~ 2.6 GHz	0.36uV AM 6kHz filter 10dB S/N 0.14uV SSB 3kHz filter 10dB S/N 0.20uV FM 6kHz filter 12dB SINAD 0.22uV FM 15kHz filter 12dB SINAD 0.40uV FM 30kHz filter 12dB SINAD 0.63uV FM 110kHz filter 12dB SINAD 0.90uV FM 220kHz filter 12dB SINAD
Memory channels:	1000 (100ch x 10 banks)
Search banks:	20 banks
Memory scan speed	45 channels per second (max)
Search speed	45 increments per second (max with step size of 100kHz or less)
PASS frequencies	2100 total
Aerial input:	50 OHM unbalanced. N-TYPE & SO239
Audio output:	1.7 WATTS into 8 OHMS (@ 13.5V) @ 10% distortion
Power requirements:	nominal 12V DC @ 1A or less
Size:	217 x 100 x 260mm (W.H.D.) approx excluding projections
Weight:	3.5kg

SDU5500 Features

- Menu driven operation
- Fully interactive with AR5000Plus3
- Wide coverage, ± 5 MHz from input frequency
- Two frequency resolutions, 5 or 30 KHz
- Graphical display and statistical analysis
- PC remote control interface

SDU5500 Specifications

Input frequency:	10.7 MHz
Sweep Width:	1 kHz to 10MHz (1 kHz step)
Frequency Accuracy	± 600 Hz
Resolution Bandwidth	5/30 kHz
Reference Level	-10, -40dBm
Maximum input level	-10dBm
Dynamic Range:	50dBm min
Level Accuracy:	Linearity within ± 2 dB (within -40dB from reference level)
Band Ripple:	± 4 dB@10.7MHz ± 5 MHz
Temperature:	± 6 dB(0° C ~ 40° C)
Marker Mode:	Direct read-out for frequency and level Peak Detect + Continuous Peak Detect Averaging (2 to 32 times sampling adjustment)
Plot Mode:	Outline, Paint
Display Mode:	SPECT/STRES/CHANL
Input Impedance:	20k Ohm
Display Type:	4.7" dot matrix STN LCD
Display resolution:	304 x 128 dots
Screen Refresh	500mSec
Backup:	From primary DC 12V supply
Dimensions:	225 x 124 x 240mm (W.H.D.) approx. excluding projections
Weight:	3.02kg (approx.)
Power requirements:	Nominal 12V DC @1A



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