

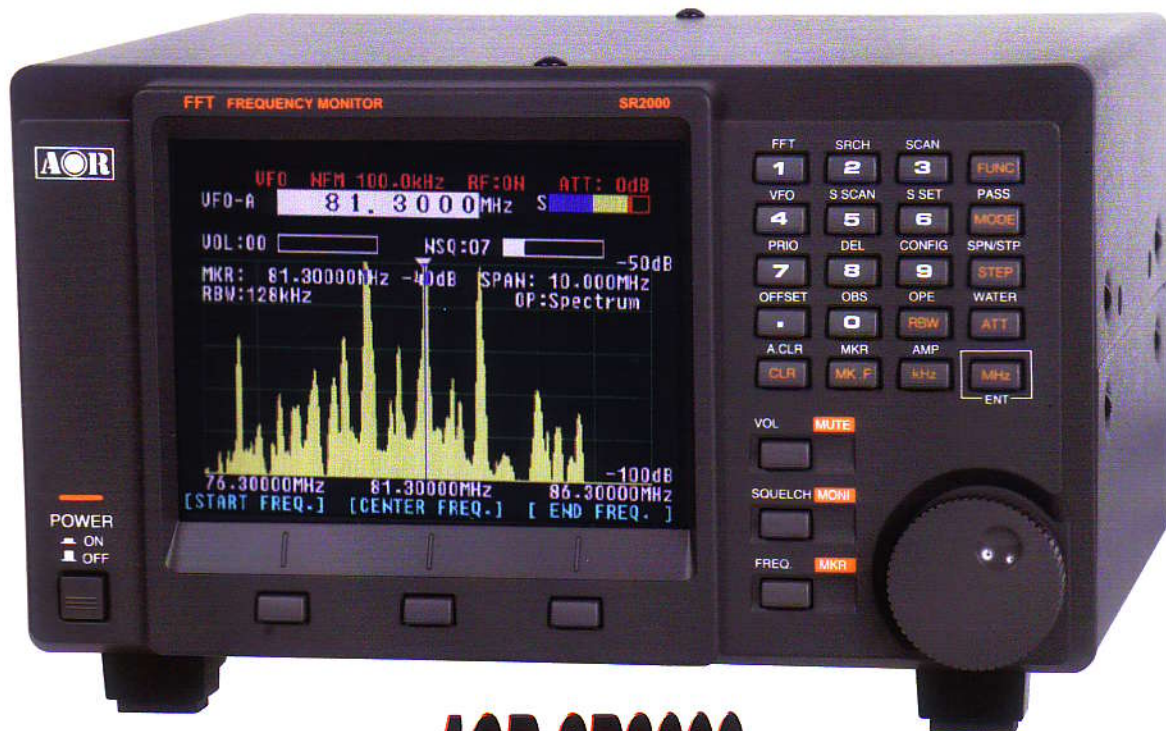
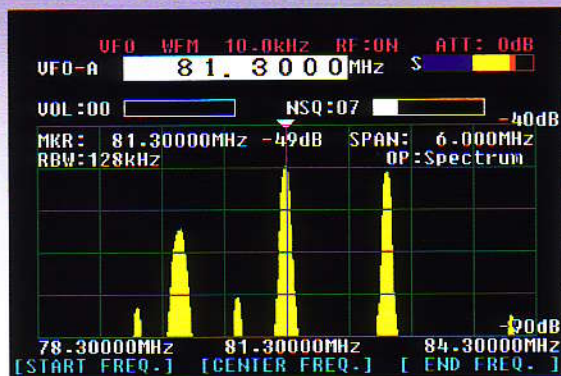
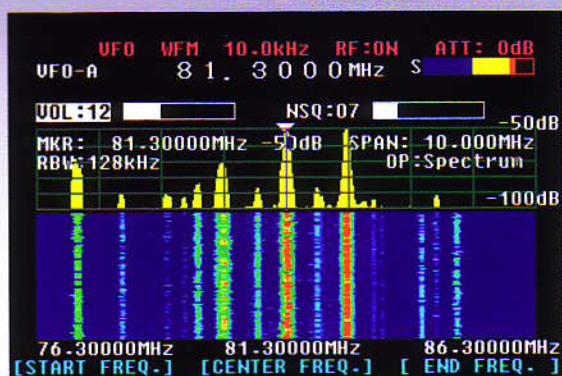


# SR2000 FREQUENCY MONITOR

High speed FFT (Fast Fourier Transform) signal analysis

## 10 MHZ BANDWIDTH SAMPLED 6 TIMES PER SECOND!

- Receiver coverage: 25MHz~3GHz (no gap)
- High resolution 5 inch color TFT display
- 1000 memory channels (100ch x 10 banks)
- Advanced DSP powered color imaging
- User friendly menu driven operation
- Reception modes: AM / NFM / WFM / SFM
- "Waterfall" display function
- FFT: be quickly aware of new active frequencies
- Signal intensity display by average or highest value
- RS-232C port for PC control



# AOR SR2000



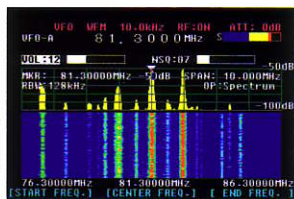
# AOR SR2000

## A 10MHz spectrum spread in 0.17 seconds!

A maximum 10MHz bandwidth is sampled 6 times per second, displaying all signals over a given noise level, with frequency and signal level indication.

## The waterfall function

The "waterfall" function displays signal strength variation in conjunction with the time lapsed. In addition to spectrum mode, it offers step resolution and channel scope mode.



## RF front-end spectrum display

The SR2000 is a DSP powered spectrum display unit with high quality RF front-end, for professional users. The IF signal originating from the RF's front-end is digitally processed, analyzed by high-speed FFT (Fast Fourier Transform), to enable an almost real time spectrum display on the monitor. This compact unit is a spectrum analyzer which combines a high quality RF with digital technology.

## Be quickly aware of new frequencies

Through the high resolution 5 inch TFT monitor, signals are visible in bright and vivid colors. The high quality IF signal generated by the RF front-end is transformed into digital, then FFT processed to allow a 10MHz bandwidth wide spectrum to be displayed in real time. The "waterfall" function displays in color the signal intensity variation in conjunction with the time elapsed. FFT search enables high speed signal analysis within a chosen range, allows a fast display of the active frequencies and outputs this data through the PC interface for later processing.

## High performance front-end

The RF front-end covers a wide range from 25MHz to 3GHz (no gap) with triple conversion superheterodyne. Thanks to a well designed RFU, the generated IF signal of 10.7 MHz is of high linearity. Moreover, the demodulated signal is amplified to a high-definition audio (AF) signal, which can be output to an external speaker for superb sound.

## User friendly operation

This colorful spectrum display can be operated through 26 keys and one rotating dial. Frequency as well as the AF gain can be precisely adjusted through the dial. Functions can be accessed and tuned through the 3 multi-function soft keys below the monitor. Featuring 1000 memory channels and 40 search banks, the SR2000 is a Frequency Monitor which opens the door to new possibilities and applications.

Receiver coverage	25 - 3000MHz (no gap)			
Reception modes	AM / NFM / WFM / SFM			
Configuration	Triple conversion superheterodyne front end			
Signal output	10.7MHz			
Sensitivity IP3 S/N	Band	Sensitivity	IP3 (dBm)	S/N (dB)
	25M-225MHz	NFM: 0.35uV(12dB SINAD) AM: 0.6uV (10dB S/N) WFM: 2.0uV (12dB SINAD)	+1.0	40
	225M-1.7GHz	NFM: 0.35V(12dB SINAD) AM: 0.8 uV (10dB S/N) WFM: 2.0uV (12dB SINAD)	+1.0	35
	1.7GHz-2.7GHz	NFM: 0.6uV(12dB SINAD)	+1.0	32
	2.7GHz-3GHz	NFM: 1.5uV(12dB SINAD)	+1.0	30
Frequency stability	±1ppm(0~50°C)			
LCD display	5 inch (127mm) TFT color LCD			
Memory channels	1000			
Search banks	40			
Pass frequencies	2000			
Priority channel	1 channel			
LCD monitoring mode	Spectrum / step resolution / channel scope			
Aerial connection	50 Ω BNC			
Audio output	1200mW (8 OHMS) MAX@ 10% THD. Rear panel 3.5mm socket			
Audio distortion	5% (3kHz FM deviation)			
Internal speaker	None			
PC Control interface	RS-232C x1 (USB optional)			
Power consumption	600mA typical usage. 12-16VDC, negative ground. 700mA Maximum Audio Power			
Controls	26 keys & main dial			
Operation temperature	0 to 50 degrees Celsius			
Dimensions	220(W) x 120(H) x 195(D) mm			
Weight	3.3kg			

**Supplied accessories:** AC Adapter, RS-232C cable (for the receiver's internal use, the PC connection cable is not supplied), I/F controller cable. The PC software for screen capture and receiver control is not supplied as it is still under development, but might be available in the future. The command list to enable you to create your own control software is supplied in the instructions manual.

- Although carefully designed, the SR2000 (like all receivers) suffers from a degree of internal noises known as spurious. They are a product of the receiver's circuitry and do not represent a fault.
- The reception might be affected by interferences produced by nearby electrical appliances such as television, PC, walkie-talkies, etc...
- The reception might be strongly affected by powerful transmissions if the receiver or the antenna are located nearby a transmitter (such as TV broadcasting transmitter).
- Digital transmissions or encrypted content cannot be decoded by this receiver.
- Specification is typical but not guaranteed, subject to change without notice due to continuous development of the product.



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