

## IFR Systems (Aeroflex) A-8000 10 kHz to 2.6 GHz Spectrum Analyzer

The IFR Systems (Aeroflex) A-8000 spectrum analyzer is a wide band, very sensitive receiver. It works on the principle of "super-heterodyne receiver" to convert higher frequencies (normally ranging up to several 10s of GHz) to measurable quantities. The received frequency spectrum is slowly swept through a range of pre-selected frequencies, converting the selected frequency to a measurable DC level (usually logarithmic scale), and displaying the same on the CRT of the IFR Systems (Aeroflex) A-8000. The CRT displays received signal strength (y-axis) against frequency ( x-axis).

Some applications for IFR Systems (Aeroflex) A-8000 Spectrum Analyzers include Site Monitoring: Verify that the frequency and signal strength of your transmitter is accurate. Interference: Before a system is installed you use a IFR Systems (Aeroflex) A-8000 spectrum analyzer to verify that the frequencies (you plan to use) are not occupied or if the presence of a very strong signal will interfere with your new setup. Interference can be created by a number of different situations. Other tests that utilize the IFR Systems (Aeroflex) A-8000 spectrum analyzer features include antenna isolation, co-channel interference, adjacent channel power, occupied bandwidth, intermodulation, microwave or satellite antenna alignment, and characterization of components.

## Performance Characteristics of the A-8000

Form Factor	Mainframe
Input Impedance	50 MOhm
Minimum Frequency	10 kHz
Maximum Frequency	2.6 GHz
Frequency Accuracy	0.0005 %
Zero Span	Yes
Minimum Span	1 kHz
Maximum Span	250 MHz
Minimum Sweep Time	5 ms
Maximum Sweep Time	10 s
Minimum Resolution Bandwidth	300 Hz
Maximum Resolution Bandwidth	3 MHz
Resolution Bandwidth Steps	1/10/100
Minimum Single-Side-Band Noise	65 dBc/Hz
Maximum Safe AC Input	30 dBm
Maximum DC Input	4 V
Maximum Dynamic Range	70 dB
Probe Power	No
Noise Source Driver	No

## Programmability/Connectivity of the A-8000

User Interface Proprietary

## **A-8000 Life Cycle Data**

Preceding Model IFR/2398

## **A-8000 Compliance**

CE Compliance Not on file

UL Compliance Not compliant

## **A-8000 Power Requirements**

Input Power Universal (Auto Sense and Switch)

## **A-8000 Physical Dimensions**

- Width: 333 mm(13.11 in)
- Height: 185 mm(7.28 in)
- Length: 498 mm(19.6 in)
- Weight: 15.5 kg(34.17 lb)