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## IFR Systems (Aeroflex) AN920

9 kHz to 2.9 GHZ RF Spectrum Analyzer

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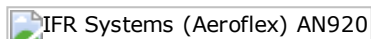
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### Product Description:

IFR Systems (Aeroflex) AN920 9 kHz to 2.9 GHZ RF Spectrum Analyzer



The IFR Systems (Aeroflex) AN920 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) AN920. The CRT displays received signal strength (y-axis) against frequency (x-axis).

Some applications for IFR Systems (Aeroflex) AN920 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) AN920 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) AN920 spectrum analyzer features include antenna isolation, co-channel interference, adjacent channel power, occupied bandwidth, intermodulation, microwave or satellite antenna alignment, and characterization of components.

#### Feature:

Minimum Frequency: 9kHz

Maximum Frequency: 2.9GHz

Resolution bandwidth: 3Hz

FM/Am receiver  
 10,20,50%/div AM  
 1kHz-5MHz/div FM  
 99 trace & 99 mem registers  
 Digital storage O-scope  
 FFT spectrum analyser

### Performance Characteristics of the AN920

Form Factor	Mainframe
Minimum Frequency	9 kHz
Maximum Frequency	2.9 GHz
Frequency Accuracy	0.002 %
Zero Span	Yes
Minimum Span	10 Hz
Maximum Span	290 MHz
Minimum Sweep Time	1 ms
Maximum Sweep Time	10 s
Minimum Resolution Bandwidth	3 Hz
Maximum Resolution Bandwidth	100 Hz
Resolution Bandwidth Steps	1/3/10
Minimum Video Bandwidth	10 Hz
Maximum Video Bandwidth	1 MHz
Video Bandwidth Steps	1/10/100
Minimum Single-Side-Band Noise	-101 dBc/Hz
Maximum Single-Side-Band Noise	-92 dBc/Hz
Maximum Safe AC Input	20 dBm
Maximum DC Input	0 V
Minimum Displayed Average Noise	-135 dBm
Maximum Displayed Average Noise	-95 dBm
Maximum Dynamic Range	80 dB
Trigger Source	External,Internal
Trigger Modes	Freerun,TTL
Demodulation	AM,FM

Connector type (main signal)	Type-N(f)
1st Local Oscillator (LO) Output Connector	SMA(f)
Cal Output Connector Type	BNC(f)
Probe Power	No
Noise Source Driver	No

### Programmability/Connectivity of the AN920

User Interface	Proprietary
Ports to Peripheral Devices	HPIB,RS232
Test Pattern Storage	44 Patterns
Novram data storage	Yes

### AN920 Life Cycle Data

Preceding Model	<a href="#">IFR/2392A</a>
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### AN920 Compliance

CE Compliance	Compliant
UL Compliance	Not compliant

### AN920 Power Requirements

Input Power	Universal (Auto Sense and Switch)
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### AN920 Physical Dimensions

Width: (N/A)  
 Height: 7.5 in(.29 in)  
 Length: 22 in(.86 in)  
 Weight: 44.97 lbs(99.14 lb)

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