

FREQUENCY		FFT 3110		
Frequency Range		9kHz±1000MHz		
Frequency Setting		1Hz (9kHz±1000MHz)		
Internal Reference Frequency				
Aging per Year		2 x 10 ⁻⁶		
Temperature Drift		15 x 10 ⁻⁵ (+10 °C to +40 °C)		
External Reference Frequency		10MHz		
Measurement Time (manual mode)		1ms to 5s		
Resolution		1ms		
Measurement Time (sweep mode)		1ms to 5s		
Resolution		1ms		
RESOLUTION BANDWIDTHS				
Digital CISPR EMI Filters BW		200Hz (-6dB Bandwidth)		
		9kHz (-6dB Bandwidth)		
		120kHz (-6dB Bandwidth)		
PRESELECTION				
Pre-Selector Filters		9 kHz to 150kHz		
		150 kHz to 5MHz		
		5MHz to 10MHz		
		10MHz to 15MHz		
		15MHz to 20MHz		
		20MHz to 30MHz		
		30MHz to 60MHz		
		60MHz to 140MHz		
		140MHz to 350MHz		
LEVEL				
		Maximum Input Level		
DC Voltage		50V (AC-coupled)		
CW RF Power		+17dBm (Input Attenuation 0dB)		
		+27dBm (Input Attenuation ≥ 10dB)		
Immunity to Interference				
Image Frequency		> 50dB		
RF Shielding		3V/m (50Ω termination)		
Noise Floor		BW 200Hz	BW 9kHz	BW 120kHz
50Ω termination, Input Attenuation 0dB, Preamplifier OFF				
Peak		< 10dBμV	< 20dBμV	< 18dBμV
Quasi Peak		< 0dBμV	< 15dBμV	< 12dBμV
CISPR Average		< 0dBμV	< 10dBμV	< 7dBμV
RMS		< 0dBμV	< 10dBμV	< 8dBμV
CISPR RMS		< 0dBμV	< 10dBμV	< 8dBμV
50Ω termination, Input Attenuation 0dB, Preamplifier ON				
Peak		< 0dBμV	< 10dBμV	< 8dBμV
Quasi Peak		< -10dBμV	< 5dBμV	< 2dBμV
CISPR Average		< -10dBμV	< 0dBμV	< 0dBμV
RMS		< -10dBμV	< 0dBμV	< 0dBμV
CISPR RMS		< -10dBμV	< 0dBμV	< 0dBμV
Measurement Accuracy with S/N > 20dB		± 0.8dB (9kHz±30MHz) ± 1.2dB (30MHz±300MHz) ± 1.4dB (300MHz±1000MHz)		



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	FFT 3110
FFT SCAN MODE	
Converter Resolution	16 bit
Sampling Rate	Variable
FFT Span	141 kHz (To cover Full CISPR Band A)
	5 MHz (Total 6 bands to cover Full CISPR Band B)
	5 MHz (Total 54 bands to cover Full Band C)
	5 MHz (Total 140 bands to cover Full Band D)
Full Compliant (1Hz) Sweep Measurement Time	< 18s (Band A + Band B)
	< 15s (Band B)
	< 150s (Band C)
	< 350s (Band D)
	< 500s (Band C + Band D)
Simultaneous detectors in parallel	3009 (Band A)
	1669 (Band B)
	211 (Band C)
	49 (Band D)
FFT Frequency Resolution	46,875Hz (Band A)
	3kHz (Band B)
	24kHz (Band C)
	24kHz (Band D)
INPUT & OUTPUT	
RF Input Impedance	50Ω
RF Input Connector(s)	N female (RF 9kHz to 30MHz) (RF 30MHz to 1000MHz)
RF Input VSWR	< 2,0:1 (Input Attenuation 0 dB)
	< 2,0:1 (Input Attenuation ≥ 10 dB)
RF Input Attenuator	0dB to 30dB in 10dB steps
Integrated Signal Generator (Option)	+50 ÷ +90dBμV
GENERAL	
Monitor	10.1" LCD Display
Interface	Ethernet 10/100 MB
	Remotable LAN (LXI Level 0 Protocol)
Power Supply	110/230Vac ± 10% 50/60Hz
Power Consumption	50VA
Operating Temperature	0° to 45°C
Storage Temperature	-20° to 70°C
Size (W x H x D)	450 x 200 x 400mm
Weight	15kg



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