



The instruments allow the noise attenuator, noise filter, signal attenuator values, step size, and signal filter setting to be selected in three ways: at the front panel keypad, remotely via IEEE-488 bus, or automatically under program control.

Every front panel operation except instrument on/off is programmable. Programs are easily written using the program key, and information on the display guides the user through the next steps. Nine user-created programs that contain subroutines, delay times, and loops can be stored in non-volatile memory.

UFX7100, UFX7200 SERIES							
MODEL	FREQUENCY RANGE	_		ARACTERISTICS FLATNESS(dB)	μV/ Hz		
UFX7101	10 Hz - 20 kHz	+13	-30	±0.5	7071		
UFX7103	10 Hz - 500 kHz	+13	-44	±0.5	1414		
UFX7105	10 Hz - 10 MHz	+13	-57	±0.5	316		
UFX7107	100 Hz - 100 MHz	+13	-67	±0.75	100		
UFX7108	100 Hz - 500 MHz	+10	-77	± 1.0	31.6		
UFX7109	100 Hz - 1 GHz	+10	-80	± 1.5	22.4		
UFX7110	100 Hz - 1.5 GHz	+10	-82	±1.5	18.2		
UFX7111	1 GHz - 2GHz	+10	-80	±1.5	22.4		
UFX7112	1 MHz - 2 GHz	0	-93	±2.0	5.01		
UFX7124	2 GHz - 4 GHz	-10	- 103	±2.0	1.58		
UFX7126	2 GHz - 6 GHz	-14	-110	<u>+</u> 2.0	0.71		
UFX7128	10 MHz - 10 GHz	-17	-117	<u>+</u> 3.0	0.32		
UFX7218	2 GHz - 18 GHz	-20	-122	±2.0	0.18		
UFX7240	2 GHz - 40 GHz	-20	-126	±4.0	0.11		

UFX7900 SERIES (1WATT OUTPUT)					
MODEL	FREQUENCY RANGE	OUTPUT ( POWER (dBm)	HARACTEI dBm/Hz		
UFX7903	500 Hz - 500 kHz	+30	-27	±2	
UFX7905	500 Hz - 10 MHz	+30	-40	±2	
UFX7907	250 kHz - 100 MHz	+30	-50	±2	
UFX7908	1 MHz - 200 MHz	+30	-53	±2	
UFX7909	1 MHz - 300 MHz	+30	-55	±2	
UFX7910	2 MHz - 500 MHz	+30	-57	±2	
UFX7911	5 MHz - 1 GHz	+30	-60	±3	

Lab Windows Drivers available from National Instruments

## **Applications:**

- Electromagnetic susceptibility
- Filter testing
- CATV gain (tilt) alignment
- Image and spurious rejection tests
- GPS receivers
- Disk drive testing
- Spectrum analyzer calibration
- · Jamming systems
- Signal to noise measurement

OPTIONS				
<b>Option Number</b>	Description			
U7opt01	N female output connector			
U7opt02	BNC female output connector			
U7opt03	0 to 127.9 dB noise attenuator in 0.1 dB steps			
	instead of 127 dB in 1 dB steps†			
U7opt04	Switch elements, 2 X SP6T for 4 subband filters,			
	1 thrupath, 1 termination (filters are optional)			
U7opt05	N/A			
U7opt06	75 ohm output impedance (6 dB loss in the noise			
	path and 12 dB loss in the signal path)			
U7opt07	Combiner for input signal (6 dB loss in noise and			
	signal paths)			
U7opt08	Double output terminals (switched)			
U7opt09	Special configuration			
U7opt10	Line power 230 VAC, 50 Hz			
U7opt11	RS-232C, RS-422, RS-423, in addition to standard			
	IEEE-488 interface			
U7opt12	0 to 127 dB signal attenuator in 1 dB steps*			
U7opt13	0 to 127.9 dB signal attenuator in 0.1 dB steps <sup>†</sup>			
U7opt14	Special frequency range (consult factory)			

<sup>†</sup> N/A for UFX7128, UFX7218 and UFX7240 (0 to 79.9 for UFX7124 and UFX7126)

<sup>\*</sup> U7opt07 must also be included when ordering this option, 0 to 79 dB above 2 GHz