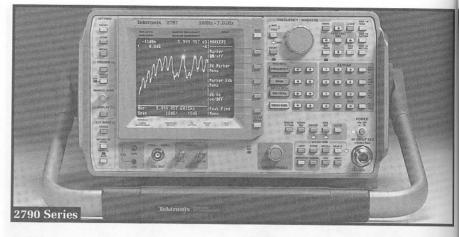
Field proven
rugged portables
with applicationoriented
frequency
ranges.

ANALYZERS

2794/2792 2797/2795

- 100 Hz to 325 GHz Frequency Coverage
- Continuous-Resolution Frequency Tuning
- Up to 90 dB Viewable Dynamic Range
- Built-in Frequency Counters Provide Frequency Determination to Within 0.0000001% (1x10⁻⁹/day ref.)
- Sensitivities to -134 dBm
- Built-in Intelligence for Signal Processing/Marker Functions
- Push Button Noise-Normalization
 Functions
- Macro Capability with Non-volatile Memory
- Optional Switch-Selectable 50/75 Ω Impedances
- Non-volatile Memory for up to Nine Waveforms and Ten Front-panel Settings
- GPIB Programmability with Tektronix Codes and Formats



2790

The Tektronix 2790 Series Spectrum Analyzers are proud successors to the venerable Tektronix 490 Series which has proven itself in years of reliable, rugged service around the world. All units provide full IEEE-488 (GPIB) programmability, which means you can change front-panel settings, read data from the CRT display, and send waveforms from internal digital source memory to other GPIB devices. Frequency ranges of the instruments are as follows:

2794: 10 kHz to 325 GHz 2792: 10 kHz to 325 GHz 2797: 100 Hz to 7.1 GHz 2795: 100 Hz to 1.8 GHz

Built to rugged MIL-T-28800C environmental specifications, these units can withstand transportation shock and vibration to a remote site. Or they can simply be moved from the engineering lab to the production floor with complete confidence in measurement accuracy.

A wide array of price/performance alternatives are available. If you need 10 Hz resolution for an exacting close-in spectral purity measurement, consider the 2794. For more routine uses, such as microwave transmitter maintenance, the 2792 may be the most costeffective solution.

A WIDE ARRAY OF INTELLIGENT FEATURES

Downloadable programming (macro) capability lets you execute your frequently-used measurement routines from the Spectrum Analyzer's non-volatile memory. In addition, these Spectrum Analyzers can store up to ten complete front-panel measurement parameter setups in nonvolatile memory to save measurement time. You can also save up to nine waveform displays, a real benefit when data analysis must be delayed.

Tedious, time-consuming, and often incorrect carrier-to-noise ratio calculations are eliminated; the instrument handles it all with a single keystroke, with automatic noise normalization to 1 Hz and automatic conversion for reference units such as dBm, dBmV, dBV, dBuV, and dB/Hz.

An internal high-stability reference provides marker or center frequency accuracy approaching 10⁻⁹/day in the 2794. For added confidence in measurements, a built-in microwave signal counter in the 2794 with 134 dB compression-to-noise dynamic range means you can determine the exact frequency of marked signals only 30 Hz apart – or count the exact delta-frequency between two marked signals – even with greatly differing amplitudes. You also have the flexibility of tying in with a system clock, using the external reference lock capacity.

A permanent record of CRT displays can be obtained at the push of a button, without a controller, using the direct plot capability and a GPIB plotter such as the Tektronix HC100.

A P P L I C A T I O N S

- Manufacturing ATE
- Avionics
- Broadcasting
- CATV
- Cellular Radio
- Design and Engineering

- Nuclear Physics
- Radio Astronomy
- Satellite Communications
- Terrestrial Microwave
- Two-way Radio

Product(s) available through your local Tektronix representative (listed in the back of this catalog) or call 1-800-426-2200.

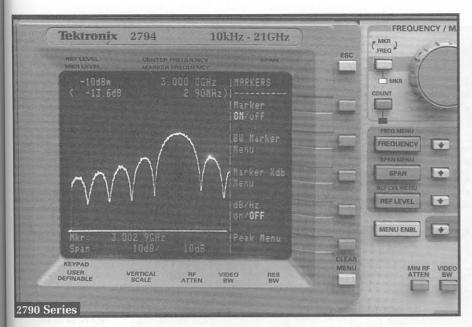


The 2790 Series complies with IEEE Standard 488.1-1987, and with Tektronix Standard Codes and Formats.



Spectrum Analyzers

2797 2795 2794 2792



Menu-selected dynamic markers automatically update frequency and amplitude data with every sweep. Unprecedented signal processing power results when you use these markers in conjunction with the built-in intelligence. With PULSE Mode, you can mark the peak of a main lobe and peaks of side lobes at the push of a button. The CW Mode locates signals that exhibit CW characteristics and ignores all other signals. The SPUR Mode marks all signals that meet user-defined or automatic threshold criteria. User-definable threshold criteria are available for all signal processing modes.

MENU POWER

The 2790 Series is primarily menu-driven. Pressing one of the four front-panel menu keys brings up a selection menu on the right portion of the display. Each menu selection is assigned to a bezel-mounted selection key; simply press the associated key to make a menu selection. When numeric data is required, it can be entered using the keypad. When menu selection is complete, the menu area is used by the waveform to provide a full-screen display.

Some of the common functions are performed by dedicated function keys or knobs. For example, the FREQUENCY/MARKERS knob provides frequency or marker tuning; the function is shifted between marker or frequency by alternately pressing MKR \Leftrightarrow FREQ.

A unique and powerful feature is the USER DEFINABLE knob which can be assigned to many of the front-panel functions; Span, Reference Level, Resolution Bandwidth, Sweep Speed, Minimum RF Attenuation, plus other functions. This allows you to customize the front panel for measurement convenience.

OPERATOR CONVENIENCE

These instruments also offer operator convenience for measuring the bandwidth of filters, amplifiers, and other networks. Just enter the desired bandwidth point and select BAND-WIDTH Mode, and the markers automatically update to display the new value.

Dedicated direct keypad data entry of major measurement parameters enables fast, accurate instrument setup. The unique marker keypad allows Right and Left Next, Next Higher and Lower, Marker to Ref. Level, and Peak Find and Center operations to be executed directly from the front panel. This makes signal searches much easier.

Optional switch-selectable 50 Ω and 75 Ω impedances add versatility. For applications such as baseband and CATV, 75 Ω /dBmV greatly simplifies spectrum analysis.

PRICE/PERFORMANCE SELECTION

The performance leader is the 2794, which offers frequency coverage from 10 kHz to 21 GHz with its internal mixer, and to 325 GHz with external mixers such as the Tektronix WM780 Series (each WM780 Series mixer is individually calibrated). Signal sensitivity is an impressive –134 dBm. The 2794 is optimized for use in baseband through millimeter-wave measurements, where the ability to identify and process signal frequencies and amplitudes over wide dynamic ranges with high accuracy is critical. The 2794 offers full high-resolution and frequency coverage for RF/Microwave component design and test.

The 2792 covers the same coaxial frequency range as the 2794, and provides nearly the same set of outstanding features and state-of-the-art specifications. It is designed as a cost-effective and productive solution to engineering needs. The 2792's frequency range of 10 kHz to 21 GHz is ideal for cost-sensitive applications that still require most of the powerful features of the product family, but can get by with slightly-reduced performance specifications. The 2792 is also ideal for personal communications network testing to 26.5 GHz.

The 2795 features the same functionality and high level of performance as the 2794, but over a frequency range of 100 Hz to 1.8 GHz. It is optimized for stand-alone or automated operation in baseband through UHF measurements, where the ability to identify and process weak signals is critical. The 2795 used with the TR503 Tracking Generator forms a swept frequency system for passive and active component design and test.

The 2797 provides the same cost-effective performance as the 2794, but over a frequency range of 100 Hz to 7.1 GHz. The 2797 is well suited for land, sea, and air mobile communications system design and testing.

REMOTE OPERATION AND COMPLETE SPECTRUM ANALYSIS PACKAGES

Full GPIB-programmability lets you automate your spectrum analysis system needs. Programming is simplified and measurement repeatability ensured. Under program control, you can operate the instrument, change front-panel settings, read data from the CRT display, and send waveforms from internal memory to other GPIB devices. Tektronix' Standard Codes and Formats keep commands clear, consistent, and universally understood.

Tektronix spectrum analyzer software lets you use the 2790 Series Spectrum Analyzers as system components, controlling them with popular instrument controllers such as the PC compatibles. Coupling the computer to the Spectrum Analyzer via the IEEE 488 bus lets you take advantage of the PC's capability, as well as the power and versatility of the Spectrum Analyzer.

Tektronix' General RF Applications Software Package (GRASP) offers many different applications and utility routines, which are selected through easy menu-driven operation. Also, EMI software is available for FCC, VDE, CISPR, and MIL-STD testing.

2797	
2795	

2794

Spectrum Analyzers

Frequency-related	2794	2792	2797	2795
Frequency Range with Internal Mixers	10 kHz to 21 GHz	10 kHz to 21 GHz	100 Hz to 7.1 GHz	100 Hz to 1.8 GHz
Frequency Range with External Mixers	10 kHz to 325 GHz	325 GHz (Opt. 04)	NA	NA
Frequency Readout Accuracy (center or marker), ±[2% span + (CF x Ref.) + (2N + 25) Hz]	±20 kHz @ 1 GHz with 1 MHz span	±30 kHz @ 1 GHz with 1 MHz span	±21 kHz @ 1 GHz with 1 MHz span	±20 kHz @ 1 GHz with 1 MHz span
Frequency Counter Accuracy, ±[(CF x Ref.) + (5 + N) Hz + 1 LSD]	±7 Hz @ 1 GHz	±10.013 kHz @ 1 GHz, ±9 Hz @ 1 GHz (Opt. 03)	±1 kHz @ 1 GHz, ±7 Hz @ 1 GHz (0pt. 02)	±7 Hz @ 1 GHz
Delta Count Accuracy,	±13 Hz for	±65 Hz for	±14 Hz for	±13 Hz for
±[(D-F x Ref.) + (10 + 2N) + 1 LSD]	1 MHz ∆F	1 MHz ∆F	1 MHz ∆F	1 MHz ∆F
Frequency Reference Accuracy	≤1x10 ⁻⁹ /day (aging)	≤2x10 ⁻⁹ /day (aging) Opt. 03	≤1x10 ⁻⁹ /day (aging) Opt. 02	********************
Frequency Stability (residual FM)	≤3 Hz @ 1 GHz	≤12 Hz @ 1 GHz	≤3 Hz @ 1 GHz	≤3 Hz @ 1 GHz
Frequency Stability (drift)	<50 Hz/minute	<50 Hz/minute	<50 Hz/minute	<50 Hz/minute
Single Sideband Phase Noise (30 kHz offset and N=1)	-105 dBc/Hz @ 1 GHz	-103 dBc/Hz @ 1 GHz	-105 dBc/Hz @ 1 GHz	-105 dBc/Hz @ 1 GHz
Frequency Span Range (plus 0 Hz and MAX)	100 Hz to 150 GHz	2 kHz to 12 GHz	100 Hz to 4 GHz	100 Hz to 1.7 GHz
Frequency Span Accuracy	±5%	±5%	±5%	±5%
Delta Frequency Accuracy Marker Mode	1% of span	1% of span	1% of span	1% of span
Resolution Bandwidth (6 dB) Range	10 Hz to 3 MHz	1 kHz to 3 MHz	10 Hz to 3 MHz	10 Hz to 3 MHz
Resolution Bandwidth Selectivity	≤7.5:1 except	≤7.5:1	≤7.5:1 except	≤7.5:1 except
(-60 dB/-6 dB)	15:1 @ 10 Hz		15:1 @ 10 Hz	15:1 @ 10 Hz
Video Bandwidth Range	0.3 Hz to 30 kHz	3 Hz to 30 kHz	0.3 Hz to 30 kHz	0.3 Hz to 30 kHz
Amplitude-related				
Reference Level Range	-117 to +30 dBm	-117 to +30 dBm	-117 to +30 dBm	-117 to +30 dBm
Maximum Safe Input Power, CW	1 W (+30 dBm)	1 W (+30 dBm)	1 W (+30 dBm)	1 W (+30 dBm)
Maximum Safe Input Power, Pulse	75 W Pk (1 µS pulse, 0.1% duty factor)	75 W Pk (1 µS pulse, 0.1% duty factor)	75 W Pk (1 µS pulse, 0.1% duty factor)	75 W Pk (1 µS pulse, 0.1% duty factor)
CRT Display Range, Log	1 to 15 dB/div	1 to 15 dB/div	1 to 15 dB/div	1 to 15 dB/div
CRT Display Range, Linear	39.6 nV/div to 2.8 V/div	39.6 nV/div to 2.8 V/div	39.6 nV/div to 2.8 V/div	39.6 nV/div to 2.8 V/div
Input Attenuator Range	0 to 60 dB in 10 dB steps	0 to 60 dB in 10 dB steps	0 to 60 dB in 10 dB steps	0 to 60 dB in 10 dB steps
Dynamic Range (maximums):				***************************************
Compression to noise Signal to distortion harmonic	134 dB 77 dB to 1.7 GHz ≥100 dB 1.7 to 21 GHz	110 dB 65 dB to 1.7 GHz ≥100 dB 1.7 to 21 GHz	130 dB 75 dB to 1.7 GHz	130 dB 75 dB
	93 dB to 1.7 GHz ≥100 dB 1.7 to 21 GHz	76 dB to 1.7 GHz ≥100 dB 1.7 to 21 GHz	≥100 dB 1.7 to 21 GHz 90 dB to 1.7 GHz ≥100 dB 1.7 to 7.1 GHz	90 dB
Viewable on CRT screen	90 dB	80 dB	90 dB	90 dB
Residual Response (no signal and zero RF attenuation)	-100 dBm (input terminated)	–95 dBm (input terminated)	-100 dBm (input terminated)	-100 dBm (input terminated)
Second Harmonic Distortion, RF Frequency Range	-60 dBc (mixer level -40 dBm)	–60 dBc (mixer level –40 dBm)	-60 dBc (mixer level -40 dBm)	-60 dBc (mixer level -30 dBm)
Second Harmonic Distortion Microwave Frequency Range	-100 dBc (mixer level -20 dBm)	-100 dBc (mixer level -20 dBm)	-100 dBc (mixer level -20 dBm)	NA NA
Third Order Intermodulation Distortion	-70 dBc (mixer level -27 dBm)	-70 dBc (mixer level -27 dBm)	-70 dBc (mixer level -27 dBm)	-70 dBc (mixer level -27 dBm)
Calibrator Accuracy	±0.3 dB	±0.3 dB	±0.3 dB	±0.3 dB
Gain Compression (1 dB)	0 dBm	0 dBm	0 dBm	0 dBm
Frequency Response (10 dB RF attenuation referred to cal signal): Band 1 (10 kHz to 1.8 GHz)	±2.5 dB	±3.0 dB	, 2 5 dD	20 dP (100 Hz to 1 0 0Hz
Band 2 (1.7 GHz to 5.5 GHz)	±2.5 dB	±4.0 dB	±2.5 dB ±3.5 dB	±2.0 dB (100 Hz to 1.8 GHz NA
Band 3 (3.0 GHz to 7.1 GHz)	±3.5 dB	±4.0 dB	±3.5 dB	NA
Band 4 (5.4 GHz to 18 GHz)	±4.5 dB	±5.0 dB	NA NA	NA
Band 5 (15 GHz to 21 GHz)	±6.5 dB	±7.0 dB	NA	NA NA
In-band Flatness (with 10 dB RF attenuation): Band 1 (10 kHz to 1.8 MHz)	±1.5 dB	±2.0 dB	±1.5 dB (100 Hz to 1.8 GHz)	+1 0 dB (100 Hz to 1 0 cm-
Band 2 (1.7 GHz to 5.5 GHz)	±2.5 dB	±3.0 dB	±2.5 dB	NA
Band 3 (3.0 GHz to 7.1 GHz)	±2.5 dB	±3.0 dB	±2.5 dB (5.4 GHz to 7.1 GHz)	
Band 4 (5.4 GHz to 18 GHz)	±3.5 dB	±4.0 dB	NA	NA

Spectrum Analyzers

2797 2795 2794 2792

Amplitude-related (continued)	2794	2792	2797	2795
Displayed Average Noise Level (input terminated,				
arrowest resolution bandwidth, and video filter):				75 10 (/ ' ')
Band 1 (100 Hz)	-80 dBm (typical)	NA CO dDm (tunical)	-75 dBm (typical)	-75 dBm (typical)
Band 1 (1 kHz to 10 kHz) Band 1 (10 kHz to 100 kHz)	-90 dBm (typical)	-60 dBm (typical)	−95 dBm −115 dBm	−95 dBm −100 dBm
Band 1 (100 kHz to 100 kHz)	−95 dBm −115 dBm	−70 dBm −90 dBm	-113 dBm	-115 dBm
Band 1 (1 MHz to 1.8 GHz)	-134 dBm	-110 dBm	-130 dBm	-131 dBm
Band 2 (1.7 GHz to 5.5 GHz)	-125 dBm	-108 dBm	-127 dBm	NA
Band 3 (3.0 GHz to 7.1 GHz)	-125 dBm	-108 dBm	-126 dBm	NA
Band 4 (5.4 to 12 GHz/12 to 18 GHz)	-111/-107 dBm	-94/-89 dBm	NA	NA
Band 5 (15 GHz to 21 GHz)	-106 dBm	-88 dBm	NA NA	NA
Gain Uncertainty	±2 dB max over	±2 dB max over	±2 dB max over	±2 dB max over
	107 dB range	107 dB range	107 dB range	107 dB range
cale Fidelity, Log	±2 dB max/	±2 dB max	±2 dB max/	±2 dB max/
80 dB range/90 dB range)	±4 dB max		±4 dB max	±4 dB max
cale Fidelity, Linear	±5% of full scale	±5% of full scale	±5% of full scale	±5% of full scale
put Attenuator Switching Accuracy				
20 dB to 60 dB settings): 0 to 1.8 GHz	±0.5 dB/10 dB:	±0.5 dB/10 dB;	±0.5 dB/10 dB;	±0.5 dB/10 dB;
0 to 1.8 GHZ	±0.5 dB/10 dB, ±1.0 dB max	±0.5 dB/10 dB,	±0.5 db/10 db,	±1.0 dB max
1.8 to 18 GHz	±1.5 dB/10 dB;	±1.5 dB/10 dB:	±1.5 dB/10 dB;	NA NA
1.0 to 10 d1/2	±3.0 dB max	±3.0 dB max	±3.0 dB max (1.8to 7.1 GHz)	1471
18 to 21 GHz	±3.0 dB/10 dB:	±3.0 dB/10 dB;	NA NA	NA
	±6.0 dB max	±6.0 dB max		
Resolution Bandwidth Switching Uncertainty reference BW = 3 MHz)	±0.4 dB	±0.4 dB	±0.4 dB	±0.4 dB
ime-related				
weep Time Range	200 µsec/div to	200 µsec/div to	200 µsec/div to	200 µsec/div to
option of the state of the stat	100 sec/div	100 sec/div	100 sec/div	100 sec/div
Sweep Time Accuracy	±5%	±5%	±5%	±5%
Marker Time Measurement Accuracy	±10%	±10%	±10%	±10%
Delta Marker Time Measurement Accuracy	±5%	±5%	±5%	±5%
Sweep Trigger	Free Run, Line,	Free Run, Line,	Free Run, Line,	Free Run, Line,
weep ingger	Video, Single, Ext.	Video, Single, Ext.	Video, Single, Ext.	Video, Single, Ext.
xternal Input				***************************************
RF Input Impedance	50 Ω nominal	50 Ω nominal	50 Ω nominal	50 Ω nominal
SWR (10 dB input attenuation):				
<2.5 GHz	1.3:1 max	1.3:1 max	1.3:1 max	1.3:1 max
2.5 GHz to 6.0 GHz	1.7:1 max	1.7:1 max	1.7:1 max	NA
6.0 GHz to 18 GHz	2.3:1 max	2.3:1 max	NA NA	NA
18 GHz to 21 GHz	3.5:1 max	3.5:1 max	NA	NA
ocal Oscillator Emission Level	≤–70 dBm	≤–70 dBm	≤-70 dBm	≤-70 dBm
0 dB input attenuation)				
xternal Mixer Input	Approx. 2 GHz IF	NA NA	NA NA	NA
xternal Reference Input	1, 2, 5, or 10 MHz	NA NA	1, 2, 5, or 10 MHz	1, 2, 5, or 10 MHz
lorizontal Input/Trigger Input	0 to +10 V/1 to 50 V	0 to +10 V/1 to 50 V	0 to +10 V/1 to 50 V	0 to +10 V/1 to 50 V
/ideo Input/Marker Input	0 to +4 V/0 to -10 V	0 to +4 V/0 to -10 V	0 to +4 V/0 to -10 V	0 to +4 V/0 to -10 V
xternal Output				
Calibrator	100 MHz ±10 Hz, -20 dBm ±0.3 dB	100 MHz ±1 kHz, -20 dBm ±0.3 dB	100 MHz ±100 Hz, -20 dBm ±0.3 dB	100 MHz ±10 Hz, -20 dBm ±0.3 dB
st Local Oscillator	2 to 6 GHz,	2 to 6 GHz,	2 to 6 GHz,	2 to 4 GHz,
at 25 at 600 mater	+7.5 to +20 dBm	+7.5 to +20 dBm	+6 to +20 dBm	+6 to +20 dBm
and Local Oscillator	-12 dBm to +5 dBm	-12 dBm to +5 dBm	-12 dBm to +5 dBm	-10 dBm to +15 dBm
Video Output	0.5 V of signal	0.5 V of signal	0.5 V of signal	0.5 V of signal
CRT center reference)	per div of video	per div of video	per div of video	per div of video
Sweep Output (CRT center reference)	0.5 V/div; ±2.5 V max	0.5 V/div; ±2.5 V max	0.5 V/div; ±2.5 V max	0.5 V/div; ±2.5 V max
	+5 V nominal;	+5 V nominal;	+5 V nominal;	+5 V nominal;
Pen Lift				

Continued on next page.

2797 2795

Spectrum Analyzers

External Output (continued)	2794	2792	2797	2795
2nd IF Output (Opt. 42)	110 MHz, 0 dBm; 3 dB BW is 4.5 MHz	110 MHz, 0 dBm; 3 dB BW is 4.5 MHz	110 MHz, 0 dBm; 3 dB BW is 4.5 MHz	110 MHz, 0 dBm; 3 dB BW is 4.5 MHz
3rd IF Output	10 MHz, -5 dBm			
Probe Power	+5 V, -15 V, +15 V; 100 mA max each	+5 V, -15 V, +15 V; 100 mA max each	+5 V, -15 V, +15 V; 100 mA max each	+5 V, -15 V, +15 V; 100 mA max each
General Specifications				
Power Requirements: Voltage Frequency Power	90-132/180-250 VAC 47-63 Hz 210 W max @ 115 VAC. 60 Hz	90-132/180-250 VAC 47-63 Hz 210 W max @ 115 VAC. 60 Hz	90-132/180-250 VAC 47-63 Hz 210 W max @ 115 VAC, 60 Hz	90-132/180-250 VA0 47-63 Hz 210 W max @ 115 VAC, 60 Hz
Weight (carrying), Nominal	22.2 kg (48 lb.)	21.3 kg (46 lb.)	20.83 kg (45 lb.)	19.44 kg (42 lb.)
Dimensions (without handle, feet, or cover), mm/inches	175 x 327 x 499/ 6.9 x 12.87 x 19.65	175 x 327 x 499/ 6.9 x 12.87 x 19.65	175 x 327 x 499/ 6.9 x 12.87 x 19.65	175 x 327 x 499/ 6.9 x 12.87 x 19.65
Digital Storage	1000 pts horizontal, 250 pts vertical			
Digitizing Rate	9 µS	9 μS	9 µS	9 μS
Macro Programming	8 K	8 K	8 K	8 K
Non-volatile Memory	9 waveforms, 10 control settings			
Environmental (Per MIL-T-28800C, Type III,	Class 3, Style C)	***************************************		······································
Electromagnetic Compatibility (consult data sheet for compliance details)	MIL-STD-461B	MIL-STD-461B	MIL-STD-461B	MIL-STD-461B
Calibration Interval	1 Year	1 Year	1 Year	1 Year
IEEE 488 (GPIB)				
Interface Functions	SH1, AH1, T5, L3, SR1, RL1, PP1, DC1, DT1, and C0	SH1, AH1, T5, L3, SR1, RL1, PP1, DC1, DT1, and C0	SH1, AH1, T5, L3, SR1, RL1, PP1, DC1, DT1, and C0	SH1, AH1, T5, L3, SR1, RL1, PP1, DC1, DT1, and CO
Direct Plotter Output	Supports Tektronix HC100, HP7470A	Supports Tektronix HC100, HP7470A	Supports Tektronix HC100, HP7470A	Supports Tektronix HC100, HP7470A
Waveform Transfer Speed	165 msec/1000 pts	165 msec/1000 pts	165 msec/1000 pts	165 msec/1000 pts
Safety	Listed FM 3810 Certified CSA			

2794 Programmable Spectrum Analyzer

Includes: Operator's Manual; Programmer's Manual; 6 ft., 50 Ω Coaxial Cable, N-N (012-0114-00); 18 in., 50 Ω Coaxial Cable, BNC-BNC (012-0076-00); N Male-to-BNC Female Adapter (103-0045-00); Rear Connector Shield (337-3274-00); Power Cord and Spare Fuses.

Programmable Spectrum Analyzer....\$24,200 Includes: Same as 2794.

Programmable Spectrum Analyzer.....\$28,900 Includes: Same as 2794.

Programmable Spectrum Analyzer.....\$25,000

Includes: Same as 2794.

Opt. 02 - (2797) Precision Freq. Reference.

1 x 10⁻⁷/yr aging+\$2,200 Opt. 03 - (2792) Precision Freq. Reference.

5 x 10⁻⁷/yr aging+\$1,500 Opt. 04 - (2792) Freq. range extension to 325 GHz.....+\$750

Opt. $07 - 75 \Omega$ dBmV input and calibration in addition to the normal 50 Ω dBm input and calibration. (Not combinable with

Opt. 04 and Opts. 10 through 14.) Includes: 42 in., 75 Ω BNC-BNC Coax Cable (012-0074-00) and BNC Male to "F" Female Adapter (013-0126-00)+\$750

Product(s) available through your local Tektronix representative (listed in the back of this catalog) or call 1-800-426-2200.



The 2790 Series complies with IEEE Standard 488.1-1987, and with Tektronix Standard Codes and Formats

Tektronix Measurement products are manufactured in ISO registered facilities.

ORDERING IN	IF UR MATION
\$34,000 Manual; 6 ft., n., 50 Ω Coaxial NC Female Adapter (274-00); Power	Opt. 10 – (2794) Freq. range extension to 26.5 GHz+\$2,000 Opt. 11 – (2794) Freq. range extension to 40 GHz+\$3,500 Opt. 12 – (2794) Freq. range extension to 60 GHz+\$5,500 Opt. 13 – (2794) Freq. range extension to 140 GHz+\$10,500 Opt. 14 – (2794) Freq. range extension to 325 GHz+\$14,500 Opt. 23 – GRASP Software (S26RF00), PC2A Interface, GPIB Cable+\$1,530
\$24,200	NOTE: The PC2A is a National Instruments GPIB Interface Card.
\$28,900	Opt. 30 – Rackmount with handles for 19 in. rack
\$25,000	Opt. 42 – Replaces MARKER/VIDEO input port on the rear panel with a 110 MHz IF output port that provides a 3050-Series DSP System compatible 3 dB signal bandwidth ≥4.5 MHz+\$750
#\$1,500 GHz+\$750 addition to the combinable with 2 in., d BNC+\$750	INTERNATIONAL POWER PLUG OPTIONS Opt. A1 – Universal Euro 220 V, 50 Hz

Spectrum Analyzers

2797

2794

2792

1405/TV Sideband Adapter

Works with the 279X and 271X Series Spectrum Analyzers to analyze the sideband and in-band response of a television transmitter.

See page 223 for details.

TR503 Tracking Generator

Works with all 2790 Series spectrum analyzers to provide constant level, calibrated sources for swept frequency tests.

See page 225 for detail.

ORDERINGI	N
Opt. B1 – Service Manual +\$250	
Opt. B2 – Additional Set of Manuals+\$300	
SERVICE ASSURANCE OPTIONS	
Opt. R2 – Adds two years of post-warranty	
Repair Protection+\$590	
Opt. C5 – Adds five years of Calibration Services+\$1,225	
See page 233 for complete description.	
GRASP (General RF Applications) Software –	
Order S26RF00\$875	
RSM (Host Site) Software - Order S26RM00\$300	
RSM (Remote Site) Software - Order S26RM01\$750	
EMI Prequalification Software - Order S26EM00\$1,475	
RECOMMENDED ACCESSORIES	
See page 446 for complete selection information.	
PROBES	
FET Probe - DC to 900 MHz. Order P6201\$1,599	
FET Probe – DC to 500 MHz. Order P6202A \$1,115	
50 Ω Divider Probe – DC to 3.5 GHz, 6 ft.	
Order P6156 \$275	
Current Probe – 935 Hz to 120 MHz. Order P6022	
PLOTTER Plotter - Four Color. Order HC100 Opt. 01\$1,380	
CARTS	
K420 Instrument Cart\$730	
DOWED COLUTTED (6 4B)	
50 Ω, SMA, 18 GHz. Order 015-0565-00\$445	
CABLES, PADS AND ADAPTERS	
50 Chavial Cable -	
BNC to BNC 5.5 in. Order 012-0214-00\$80	
BNC to BNC 18 in. Order 012-0076-00\$34 BNC to BNC 42 in. Order 012-0057-01\$31	
75 Ω Coaxial Cable – BNC to BNC 42 in. Order 012-0074-00	
CPIR Cables -	
0.5 m Order 012-1282-00\$170	
1 m Order 012-0991-01	
2 m Order 012-0991-00	
75 Ω to 50 Ω Minimum Loss Attenuator – With DC block,	
5.7 dB loss. Order 011-0112-00	
75 Ω to 50 Ω Matching Attenuator – With 11.25 dB	
conversion factor from dBm to dBV with DC block.	
Order 011-0118-00 \$140	
"F" Female to BNC Male Adapter – Order 013-0126-00\$25	

FORMATION
BNC Female to "F" Male Adapter - Order 103-0158-00\$15.50
"N" Female to BNC Male Adapter - Order 103-0058-00\$19.75
75 Ω to 50 Ω Matching Transformer – 0.5 dB loss.
50 kHz to 300 MHz. Order 120-1883-00\$250
5 MHz to 1 GHz. Order 120-1884-00\$250
DC BLOCKS
N to N – DC Block 015-0509-00 is rated over the coaxial frequency range of 10 kHz to 21 GHz. Its electrical
characteristics, rugged construction, and type "N" connectors
make it the preferred solution for EMI/RFI and other applications
requiring the blocking of 2790 front ends. Characteristics –
Operating Frequency: 10 kHz to 21 GHz. Insertion Loss: 1.0 dB maximum. VSWR: 1.4:1 maximum, 10 kHz to 18 GHz; 1.6:1
maximum 18 to 21 GHz. Voltage Rating: 50 VDC maximum.
Impedance: 50 Ω Connectors: Type "N" male and female.
Order 015-0509-00\$490
BNC to BNC – Maximum DC potential 50 V. Order 015-0221-00
GPIB CARDS PC-GPIB Card – IBM PC, AT, and Compatibles.
Order S3FG210\$395
AT-GPIB Card - IBM AT Bus (High-speed Card).
Order S3FG220\$495
MC-GPIB Card – IBM PS/2 with Microchannel Bus.
Order S3FG230\$450
ADDITIONAL ACCESSORIES EMI Ancillary Devices – See page 235.
Service Manuals –
2797, Volume I. Order 070-8638-00
2797, Volume II. Order 070-8642-00\$180
2795, Volume I. Order 070-8637-00
2795, Volume II. Order 070-8636-00 \$180 2794, Volume I. Order 070-8636-00 \$95
2794, Volume II. Order 070-8640-00 \$180
2792, Volume I. Order 070-8635-00\$95
2792, Volume II. Order 070-8639-00
Service Kit – Order 006-3286-01 \$1,995
Diplexer Assembly – For 2790 Series and WM780 Waveguide Mixers. Order 015-0385-00\$385
Diplexer Interconnecting Cable – Required for use
with Diplexer Assembly. $\overline{50}~\Omega,~SMA-to-SMA.$ Order 012-0649-00
Rack Adapter – 19 in. Order 016-0844-01*1
Rear Panel Connector Cover – Order 337-3274-00
Soft Side Case – Order 016-0659-00
Transit Case - Order 016-0658-00
TV Sideband Analyzer Adapter – 525/60 Markers.
Order 1405
Tracking Generator – 100 Hz to 1800 MHz. Order TR503\$8,500
Order TR503
Microwave Comb Generator – TM500 Series Compatible. Order 067-0885-00\$3,455

*1 Contact your Tektronix representative for price information.

Product(s) available through your local Tektronix representative (listed in the back of this catalog) or call 1-800-426-2200.



The 2790 Series complies with IEEE Standard 488.1-1987, and with Tektronix Standard Codes and Formats.



Tektronix Measurement products are manufactured in ISO registered facilities.