## **2750 SERIES SPECTRUM ANALYZERS**

Tektronix 2750 Series Spectrum Analyzers offer a broad selection of features and benefits to meet wideranging needs for laboratory-level frequency domain spectrum analysis. All units provide full IEEE-488 (GPIB) programmability, which means you can change frontpanel settings, read data from the CRT display, and send waveforms from internal digital source memory to other GPIB devices. Frequency range of the instruments is as follows:

10 kHz to 325 GHz: 2756P and 2755AP 10 kHz to 21 GHz: 2754P 100 Hz to 1.8 GHz: 2753P

2750 Series Spectrum Analyzers combine affordability with laboratory performance, wide frequency coverage range, and a comprehensive set of powerful features. They are designed for benchtop use or rackmounting, in the lab, on an engineering workbench, or on the manufacturing floor.

A wide array of price/performance alternatives are available. If you need 10 Hz resolution for an exacting close-in spectral purity measurement, the 2756P will fill your need. For more routine uses, such as a microwave transmitter occupied-bandwidth measurement, the 2754P may be the most cost-effective solution.

## A WIDE ARRAY OF INTELLIGENT FEATURES

Downloadable programming (macro) capability lets you execute your frequently-used measurement routines from the Spectrum Analyzer's nonvolatile memory. In addition, these Spectrum Analyzers can store up to ten complete front-panel measurement parameter setups in nonvolatile memory to save you 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-tonoise 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, dBµV, and dB/Hz.

An internal high-stability reference provides marker or center frequency accuracy approaching 10-9/day in the 2756P. For added confidence in measurements, a built-in microwave signal counter in the 2756P with 144 dB dynamic range means you can determine the exact frequency of marked signals only 10 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

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.

These instruments also offer operator convenience for measuring the bandwidth of filters, amplifiers, and other networks. Just enter the desired bandwidth point and select BANDWIDTH 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. Screen messages prompt you for proper keypad inputs-all "valid" keys to push are illuminated to steer you to the proper selections. The unique marker keypad allows Peak Find, Right & Left Next, Next Higher & Lower, Left & Right X dB, and Peak Find & Center operations to be executed directly from the front panel. This makes signal searches much easier.

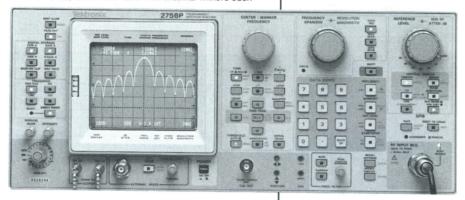
Optional switch-selectable 50-ohm and 75-ohm impedances add versatility. For applications such as baseband and CATV, 75-ohm/dBmV greatly simplifies spectrum analysis.

The performance leader is the 2756P, which offers frequency coverage from 10 kHz to 21 GHz with its internal mixer, and to 325 GHz with external mixers such

## **Laboratory Performance** with Affordable Prices

#### **FEATURES/BENEFITS**

- 100 Hz to 325 GHz Frequency Coverage
- Continuous-Resolution Frequency Tuning Combines "Synthesized" Setability and Accuracy with Analog Feel
- Wide Viewable Dynamic Range; as much as 90 dB with 10 Hz to 3 MHz Resolution Bandwidth
- Built-in Frequency Counters **Provide Frequency** Determination to within 0.0000001% (1x10°/day ref.)
- Sensitivities to −134 dBm
- · Built-in Intelligence for Signal Processing/Marker **Functions**
- Push Button Occupied-Bandwidth and Noise-Normalization Functions



as Tek's WM490 Series, or the new WM780 Series (each WM780 Series mixer is individually calibrated). Signal sensitivity is an impressive -134 dBm. The 2756P 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 2755AP covers the same frequency range as the 2756P, 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

The 2754P'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 2753P features the same functionality and high level of performance as the 2756P, but over a frequency range of 100 Hz to 1.8 GHz. It is optimized for standalone or automated operation in baseband through UHF measurements, where the ability to identify and process weak signals is critical.

- Macro Capability with Nonvolatile Memory to Simplify and Speed Up Commonly-Used Routines
- 75-ohm Option Allows Switch-Selectable **Impedances**
- Nonvolatile Memory for up to 9 Waveforms and 10 Front Panel Settings
- GPIB Programmability with Tek Codes and Formats for Standardized Bus Operation
- Optional MATE/CIIL Compatibility for Military **Applications**
- Ergonomically-Designed Front Panel Controls
- Direct Screen Data Plots without a Controller
- Many Application-Specific **Options**

## 2756P/2755AP/ 2754P/2753P

## SPECTRUM ANALYZERS

## TYPICAL MEASUREMENTS

- Baseband Measurements
- · Carrier Level Monitoring
- Carrier ON/OFF Ratios
- Carrier/Noise Measurements
- EMI/RFI Compliance
- EW Gathering and Analysis
- Frequency Counting
- Harmonic Distortion
- IF Amplifier Adjustments
- Modulation Adjustments
- · Pulse Analysis
- Spectral Monitoring
- Spur Searches

### TYPICAL APPLICATIONS

- Manufacturing ATE
- Avionics
- Broadcasting
- CATV
- Cellular Radio
- Design and Engineering
- Nuclear Physics
- Radio Astronomy
- Satellite Communications
- Terrestrial Microwave
- Two-Way Radio

## 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. Tek's Standard Codes and Formats keeps commands clear, consistent, and universally understood.

You can increase programming flexibility and power with the optional MATE/CIIL language extension. It provides direct memory access (DMA) for high-speed data transmission, a requirement for MATE/CIIL compliance.

TekSPANS software lets you use the 2750 Series Spectrum Analyzers as system components, controlling them with popular instrument controllers such as the Tektronix PEP-Series, Compaq models, and other 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.

Available Tektronix automated spectrum analyzer packages provide ordering convenience. They are configured around a DOS-based PC, one of the 2750 Series of programmable Spectrum Analyzers, and Tek's General RF Applications Software Package (GRASP). The GRASP software offers many different applications and utility routines, which are selected through easy menudriven operation. Also, EMI software is available for FCC, VDE, CISPR, and MIL-STD testing.

2750 Series Spectrum Analyzer characteristics are provided in the following tables.

	2750 SERIES CHARACTERISTICS			
	2756P	2755AP	2754P	2753P
FREQUENCY-RELATED	page 18 ft		* =	
Frequency Range with Internal Mixers	10 kHz to 21 GHz	10 kHz to 21 Ghz	10 kHz to 21 GHz	100 Hz to 1.8 GHz
Frequency Range with External Mixers	10 kHz to 325 GHz	10 kHz to 325 GHz	N/A	N/A
Frequency Readout Accuracy (center or marker), ± [2% span + (CF x Ref) + (2N + 25) Hz]	± 20 kHz @ 1 GHz with 100 kHz/div span	±21 kHz @ 1 GHz with 100 kHz/div span	±30 kHz @ 1 GHz with 100 kHz/div span	±20 kHz @ 1 GHz with 100 kHz/div span
Frequency Counter Accuracy, ± [(CF x Ref) + (5 + N) Hz + 1 LSD]	± 100 Hz @ 1 GHz	±1 kHz @ 1 GHz	N/A	± 100 Hz @ 1 GHz
Delta Count Accuracy, ± [(D-F x Ref) + (10 + 2N) + 1 LSD]	± 13 Hz for 1 MHz D-F	± 14 Hz for 1 MHz D-F	N/A	± 13 Hz for 1 MHz D-F
Frequency Reference Accuracy	≤ 1x10 <sup>-7</sup> per year (aging)	≤ 1x10 <sup>-6</sup> per year (aging)	≤ 1x10 <sup>-5</sup> per year (aging)	≤ 1x10 <sup>-7</sup> per year (aging)
Frequency Stability (residual FM)	≤ 5 Hz @ 1 GHz	≤ 12 Hz @ 1 GHz	≤ 12 Hz @ 1 GHz	≤ 5 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	-105 dBc/Hz @ 1 GHz	-103 dBc/Hz @ 1 GHz	–105 dBc/Hz @ 1 GHz
Frequency Span Range (per div)	0 Hz, 10 Hz to 10 GHz	0 Hz, 100 Hz to 10 GHz	0 Hz, 200 Hz to 1 GHz	0 Hz, 10 Hz to 100 MHz
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 Range (6 dB)	10 Hz to 3 MHz	100 Hz to 3 MHz	1 kHz to 3 MHz	10 Hz to 3 MHz
Resolution Bandwidth Selectivity (-60 dB/-6 dB)	≤ 7.5:1 except 15:1 @ 10 Hz	≤ 7.5:1	≤ 7.5:1	≤ 7.5:1 except 15:1 @ 10 Hz
Video Bandwidth Range	0.3 Hz to 30 kHz	0.3 Hz to 30 kHz	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 Watt (+30 dBm)	1 Watt (+30 dBm)	1 Watt (+30 dBm)	1 Watt (+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

	2750 SERIES CHAR	ACTERISTICS (cont.)	Top of the English	Plant College Have
	2756P	2755AP	2754P	2753P
AMPLITUDE-RELATED (cont.)				27001
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
Viewable Dynamic Range	90 dB (12 dB/div)	90 dB (12 dB/div)	80 dB (10 dB/div)	90 dB (12 dB/div)
Residual Response (no signal and zero RF attenuation)	-100 dBm (input terminated)	-100 dBm (input terminated)	-95 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 -40 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)	N/A
Third Order Intermodulation Distortion	-70 dBc (mixer level -27dBm)	-70 dBc (mixer level -27dBm)	-70 dBc (mixer level -27dBm)	-70 dBc (mixer level -27dBm)
Calibrator Accuracy	± 0.3 dB	± 0.3 dB	± 0.3 dB	± 0.3 dB
Gain Compression (1 dB)	-13 dBm	-13 dBm	-13 dBm	-13 dBm
Frequency Response (10 dB RF attenuation referred to cal signal) Band 1 (10 kHz to 1.8 MHz) Band 2 (1.7 GHz to 5.5 GHz)	±2.5 dB ±3.5 dB	± 2.5 dB ± 3.5 dB	±3.0 dB ±4.0 dB	± 1.5 dB (100 Hz to 1.8 GHz) N/A
Band 3 (3.0 GHz to 7.1 GHz) Band 4 (5.4 GHz to 18 GHz) Band 5 (15 GHz to 21 GHz) n-band Flatness (with 10 dB RF	± 3.5 dB ± 4.5 dB ± 6.5 dB	± 3.5 dB ± 4.5 dB ± 6.5 dB	± 4.0 dB ± 4.0 dB ± 5.0 dB ± 7.0 dB	N/A N/A N/A N/A
ttenuation) Band 1 (10 kHz to 1.8 MHz)	±1.5 dB	± 1.5 dB	±2.0 dB	± 1.0 dB (100 Hz to 1.8 GHz)
Band 2 (1.7 GHz to 5.5 GHz) Band 3 (3.0 GHz to 7.1 GHz) Band 4 (5.4 GHz to 18 GHz) Band 5 (15 GHz to 21 GHz)	± 2.5 dB ± 2.5 dB ± 3.5 dB ± 5.0 dB	± 2.5 dB ± 2.5 dB ± 3.5 dB ± 5.0 dB	± 3.0 dB ± 3.0 dB ± 4.0 dB ± 6.0 dB	N/A N/ N/A N/A N/A
Displayed Average Noise Level (input erminated, narrowest resolution handwidth & video filter)  Band 1 (100 Hz)  Band 1 (11 kHz to 10 kHz)  Band 1 (10 kHz to 100 kHz)  Band 1 (100 kHz to 1 MHz)  Band 1 (100 kHz to 1 MHz)  Band 1 (1 MHz to 1.8 GHz)  Band 2 (1.7 GHz to 5.5 GHz)  Band 3 (3.0 GHz to 7.1 GHz)  Band 4 (5.4 Ghz to 12/12 to 18 GHz)  Band 5 (15 GHz to 21 GHz)	-80 dBm (typical) -90 dBm (typical) -95 dBm -115 dBm -134 dBm -125 dBm -125 dBm -111/-107 dBm -105 dBm	-30 dBm (typical) -85 dBm (typical) -85 dBm -105 dBm -120 dBm -120 dBm -119 dBm -105/-100 dBm -99 dBm	N/A -35 dBm (typical) -80 dBm -100 dBm -110 dBm -108 dBm -108 dBm -94/-89 dBm -88 dBm	-100 dBm (typical) -105 dBm -110 dBm -120 dBm -131 dBm N/A N/A N/A N/A
	± 2 dB max over 107 dB range	±2 dB max over 107 dB range	± 2 dB max over 97 dB range	±2 dB max over 107 dB range
cale Fidelity, Log 0 dB Range/ 90 dB Range	± 2 dB max/ ± 4 dB max	± 2 dB max/ ± 4 dB max	± 2 dB	± 2 dB max/ ± 4 dB max
cale Fidelity, Linear	±5% of full scale	±5% of full scale	$\pm5\%$ of full scale	±5% of full scale
nput Attenuator Switching Accuracy 20 dB to 60 dB settings) 0 to 1.8 GHz 1.8 to 18 GHz 18 to 21 GHz	±0.5 dB/10 dB; ±1.0 dB max ±1.5 dB/10 dB; ±3.0 dB max ±3.0 dB/10 dB; ±6.0 dB max	±0.5 dB/10 dB; ±1.0 dB max ±1.5 dB/10 dB; ±3.0 dB max ±3.0 dB/10 dB; ±6.0 dB max	$\pm$ 0.5 dB/10 dB; $\pm$ 1.0 dB max $\pm$ 1.5 dB/10 dB; $\pm$ 3.0 dB max $\pm$ 3.0 dB/10 dB; $\pm$ 6.0 dB max	±0.5 dB/10 dB; ±1.0 dB max N/A N/A
esolution Bandwidth Switching ncertainty (ref BW=3 MHz)	± 0.4 dB	± 0.4 dB	± 0.4 dB	± 0.4 dB

# 2756P/2755AP/ 2754P/2753P SPECTRUM ANALYZERS

	2750 SERIES CHARAC	CONTRACTOR OF THE PARTY OF THE		THE RESERVE OF THE PARTY OF
	2756P	2755AP	2754P	2753P
TIME-RELATED				The RH BUILD
Sweep Time Range, Digitized Display	10 msec/div to 10 sec/div	10 msec/div to 10 sec/div	10 msec/div to 10 sec/div	10 msec/div to 10 sec/div
Sweep Time Range, Real-Time Display	20 µsec/div to 10 sec/div	20 µsec/div to 10 sec/div	20 µsec/div to 10 sec/div	20 µsec/div to 10 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, Video, Single, and External	Free Run, Line, Video, Single, and External	Free Run, Line, Video, Single, and External	Free Run, Line, Video, Single, and External
EXTERNAL INPUT		The second secon		
RF Input Impedance	.50 Ω nominal	50 Ω nominal	50 Ω nominal	50 Ω nominal
VSWR (10 dB input attenuation) < 2.5 GHz 2.5 GHz to 6.0 GHz 6.0 GHz to 18 GHz 18 GHz to 21 GHz Local Oscillator Emission Level	1.3:1 max 1.7:1 max 2.3:1 max 3.5:1 max ≤ −80 dBm	1.3:1 max 1.7:1 max 2.3:1 max 3.5:1 max	1.3:1 max 1.7:1 max 2.3:1 max 3.5:1 max	1.3:1 max N/A N/A N/A ≤ −80 dBm
(10 dB input attenuation)	2 00 dbiii			
External Mixer Input	Approx 2 GHz IF	Approx 2 GHz IF	N/A	N/A
External Reference Input	1, 2, 5, or 10 MHz	1, 2, 5, or 10 MHz	N/A	1, 2, 5, or 10 MHz
Horizontal 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
Video 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
EXTERNAL OUTPUT				
Calibrator	100 MHz ± 10 Hz, -20 dBm ± 0.3 dB	100 MHz ± 100 Hz, -20 dBm ± 0.3 dB	100 MHz ± 1 kHz, -20 dBm ± 0.3 dB	100 MHz ± 10 Hz, -20 dBm ± 0.3 dB
1st Local Oscillator	2 to 6 GHz, +7.5 to +20 dBm	2 to 6 GHz, +7.5 to +20 dBm	2 to 6 GHz, +6 to +20 dBm	2 to 4 GHz, +6 to +20 dBm
2nd Local Oscillator	−7 to −17 dBm	−7 to −17 dBm	−7 to −17 dBm	−7 to −17 dBm
Video Output (crt center reference)	0.5 V of signal per div of video	0.5 V of signal per div of video	0.5 V of signal per div of video	0.5 V of signal 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
Pen Lift	+5 V nominal; TTL-compatible	+5 V nominal; TTL-compatible	+5 V nominal; TTL-compatible	+5 V nominal; TTL-compatible
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	10 MHz, -5 dBm	10 MHz, -5 dBm	10 MHz, -5 dBm +5 V, -15 V, +15 V;
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	100 mA max each
GENERAL SPECIFICATIONS				
Power Requirements Voltage	90-132/180-250 Vac	90-132/180-250 Vac	90-132/180-250 Vac 48-440 Hz	90-132/180-250 Vac 48-440 Hz
Frequency Power	48-440 Hz 210 W max @ 115 Vac, 60 Hz	48-440 Hz 210 W max @ 115 Vac, 60 Hz	210 W max @ 115 Vac, 60 Hz	210 W max @ 115 Vac, 60 Hz
Weight (carrying), Nominal	27 kg (60 lbs)	27 kg (60 lbs)	27 kg (60 lbs)	27 kg (60 lbs)
Dimensions (mm/inches)		177.8 x 431.8 x609.6mm 7 x 17 x 24 in.	177.8 x 431.8 x609.6mm 7 x 17 x 24 in.	7 x 17 x 24 in.
Digital Storage	1000 pts horiz, 250 pts vertical	1000 pts horiz, 250 pts vertical	1000 pts horiz, 250 pts vertical	1000 pts horiz, 250 pts vertical
Digitizing Rate	9 μS	9 μS	9 μS	9 μS
Macro Programming	8K	8K	N/A	8K
Nonvolatile Memory	9 waveforms, 10 control settings	9 waveforms, 10 control settings	9 waveforms, 10 control settings	9 waveforms, 10 control settings

	2756P	2755AP	2754P	2753P
ENVIRONMENTAL (PER MIL-T-288000	C, TYPE III, CLASS 5, STYI	LE E)		
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 STD. 488 (GPIB)	•			1 1001
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 CO	SH1, AH1, T5, L3, SR1, RL1, PP1, DC1, DT1, and CO
Direct Plotter Output	Supports Tek HC100, HP 7470A			
Waveform Transfer Speed	165 msec/1000 pts	165 msec/1000 pts	165 msec/1000 pts	165 msec/1000 pts

国达民间2017年12月19日第		ORDERING INFORMATION		· 19 · 19 · 19 · 19 · 19 · 19 · 19 · 19	
50 Series Spectrum Analyzers are warranted to b m defects in material and workmanship for 1 yea	ne free	Opt. 28 - COMPAQ Deskpro 386S, Model 40 (with	12 12 15 16 A	SERVICE MANUALS	
e of shipment.	ai IIUIII	80386SX processor, VGA color monitor, 2 MR RAM		2753P Volume 1 070-6306-00	
66P Programmable Spectrum Analyzer	\$43,255	40 MB hard drive, 1.2 MB floppy drive, serial/paralle	91	Volume 2 070-6307-00	
ludes: Operator's Manual: Programmer's Man-		interface, DOS), GRASP software, PC2A	SHEET IN	2754P Volume 1 070-6097-00	
6-ft, 50-ohm coaxial cable, N-N (012-0114-00)	WHILE STA	interface, and GPIB cable.	. 6050	Volume 2 070-6098-00	
inch, 50-ohm coaxial cable, BNC-BNC (012-	THE HEALTH	Opt. 30 – Rackmount 19" rack width Opt. 31 – Rackmount 19" rack width with rear panel	+\$250	2755AP Volume 1 070-6032-01	
6-00); N male to BNC female adapter (103-		input/output capability	,6450	Volume 2 070-6033-01	
5-00); power cord and spare fuses; CRT filter se	et	(2754P)	+\$450	2756P Volume 1 070-6318-00	
sisting of amber and gray light filters plus		Opt. 39 – Non-lithium (Silver) batteries for battery-	A STATE OF	Volume 2 070-6319-00	
sh filter, gray CRT light filter.		backed memory.	+\$50		
5AP Programmable Spectrum Analyzer	\$32,450	(2754P)	1000	WARRANTY-PLUS SERVICE OPTIONS	S
udes: same as 2756P.		Opt. 41 (all except 2753P) - Digital Microwave		For more information see page 378.	
4P Programmable Spectrum Analyzer	\$20,900	Radio Measurement Enhancement package.	+\$450		
udes: same as2756P	***	(2754P)	11	Opt. M1 - 2 years service and 2 calibrations	
3P Programmable Spectrum Analyzer	\$22,900	Opt. 42 - Replaces MARKER/VIDEO input port on		2756P	+
udes: same as 2756P.		the rear panel with a 110 MHz IF output port that		2755AP	+5
OPTIONS		provides a 3 dB signal bandwidth $\geq$ 4.5 MHz.	+\$1,500	2754P	+5
. 07 – 75 $\Omega$ dBmV input and calibration in		(2755AP)	+\$750	2753P	+5
tion to the normal 50 \O dBm input and calibra-		Opt. 45 (except 2754P) - MATE/CIIL language		Opt. M2 – 4 years service	
(Not combinable with Options 21 and 22 no		interface.	+\$4,975	2756P	+5
rnal mixer capability)	+\$750	Opt. B1 – Service manual(s).	+\$250	2755AP	+5
ides: 42-inch, 75 Ω BNC-BNC coax cable		Opt. B2 - Operator's Manual, Programmer's		2754P 2753P	+5
2-0074-00) and BNC male to "F" female adapter	Tall Hill	Manual, and Service Manual(s) set.	+\$300		+\$
-0126-00)		INTERNATIONAL POWER PLUG OPTIONS		Opt. M3 – 4 years service and 4 calibrations 2756P	
21 (2756P, 2755AP) -High-performance 18		Opt. A1 - A5 – Available. See page 374.		2755AP	+\$
GHz WM490 Series Waveguide Mixer Set	+\$2,785			2755AP 2754P	+\$
ides: WM490 (18-26.5 GHz and WM490A		OPTIONAL ACCESSORIES		2754P 2753P	+\$
5-40 GHZ) Waveguide Mixers, Diplexer Assem-	THE REAL PROPERTY.	1405 – TV Sideband Analyzer Adapter	AF	Opt. M7 – 2 calibrations	+\$
015-0385-00), and interconnecting cable		(525/60 markers)	\$5,980	2756P	
-0649-00).		TR503 - Tracking Generator, 100 Hz to 1800 MHz	\$7,080	2755AP	1
22 (2756P, 2755AP) - High-performance 18		Microwave Comb Generator – TM500-Series	40 000	2753AP 2754P	1
GHz Waveguide Mixer Set	+\$4,685	compatible. Order 067-0885-00 <b>2750 Series</b> – Rack Adapter Parts Kit.	\$2,265	2753P	1
des: same as Option 21 plus WM490U 60 GHz) Waveguide Mixer		Contact Tektronix Sales Representative.		Opt. M8 – 4 calibrations	1
23 – GRASP software (S26RF00), PC2A		Tek HC100 – Color Plotter	\$050	2756P	+\$
ace GPIB cable.	¢4 E00	CRT Visor — Order 016-0653-00	\$950 \$60	2755AP	+\$
PC2A is a National Instruments GPIB interface	\$1,530	<b>75</b> $\Omega$ to <b>50</b> $\Omega$ minimum loss adapter – Order	\$60	2754P	+\$
and a mational mistruments GP18 Interface		011-0112-00	\$70	2753P	+
27 - Epson LT-386SX (with 80386SX		DC blocking capacitor - N connector	\$70	Opt. M9 – 2 years service	
ssor, VGA LCD display, 2 Mb RAM, 40 Mb		Order 015-0509-00	\$345	2756P	+\$1
vable hard drive, 1.44 Mb 3.5" diskette drive,		2-meter GPIB cable — Order 012-0630-01	\$345 \$105	2755AP	+\$1
/parallel interface, battery pack and charger,		GPIB cable - Order 012-0991-00	\$105 \$160	2754P	+\$1
, GRASP software, PC2A interface and GPIB		Programmer's Reference Guide –	φ100	2753P	+\$1
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