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**TEK** OPERATORS  
MANUAL

Part No.: 070-5557-01  
Product Group 26

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# 494A/494AP SPECTRUM ANALYZER

*Please Check for CHANGE INFORMATION at the Rear of This Manual*

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**Tektronix**  
COMMITTED TO EXCELLENCE

# PREFACE

This manual is one of a set of product manuals for the TEKTRONIX 494A and programmable 494AP Spectrum Analyzer. The manual describes the instrument installation and operation. These instructions assume a thorough knowledge of frequency domain analysis. The purpose of this manual is to explain the operation of the 494A so that measurements will be meaningful whether made under adverse or laboratory conditions. The manual organization is shown in the Table of Contents. The manuals that are available now in addition to this Operators Manual are the

- 494A/494AP Service Manuals, Volume 1 and 2 (optional accessories),
- 494AP Programmers Manual (standard accessory for programmable instrument only),
- 494A/494AP Operators Handbook (optional accessory), and
- Programmers Reference Guide (covering the 494AP and 495P Option 05)

For manual ordering information, contact your local Tektronix Field Office or representative or refer to the Accessories portion of the Replaceable Mechanical Parts list in the Service Manual, Volume 2.

## Standards and Conventions Used

Most terminology is consistent with standards adapted by IEEE and IEC. A glossary of terms is provided in Appendix A. Abbreviations in the manuals are consistent with ANSI Y1.1-1972. GPIB functions conform to the IEEE 488-1978 Standard. Copies of ANSI and IEEE standards can be ordered from the Institute of Electrical and Electronic Engineers Inc.

## Change/History Information

Any change information that involves manual corrections or additional information is located behind the tabbed Change Information page at the back of this manual.

History information, as well as the updated data, is combined within this manual when the page(s) is revised. A revised page is identified by a revision date located in the lower inside corner of the page.

## Unpacking and Initial Inspection

Instructions for unpacking and preparing the instrument for use are described in Section 5.

## Storage and Repackaging

Instructions for short- and long-term storage and instrument repackaging for shipment are described in Section 3.

# TABLE OF CONTENTS

	Page		Page
PREFACE.....	i	<b>Section 4 (continued)</b>	
TABLE OF CONTENTS.....	ii	Instrument Power Control and	
LIST OF ILLUSTRATIONS .....	iv	Frequency.....	4-3
LIST OF TABLES.....	v	Frequency Span and Resolution.....	4-5
<b>SAFETY SUMMARY .....</b>	<b>vi</b>	Marker Functions.....	4-7
<b>Section 1 GENERAL INFORMATION</b>		Display Parameters .....	4-14
Product Overview.....	1-1	Display Parameters (Continued).....	4-16
Firmware Version and Error Message		Sweep .....	4-18
Readout .....	1-1	Digital Storage.....	4-20
Accessories .....	1-1	Display .....	4-22
Options .....	1-2	General Purpose.....	4-24
<b>Section 2 SPECIFICATION</b>		Front-panel Input/Output .....	4-27
Electrical Characteristics.....	2-1	Rear-panel Input/Output.....	4-29
Verification of Tolerance Values.....	2-1	<b>Section 5 INSTRUMENT CHECK OUT</b>	
Frequency Related Characteristics .....	2-1	Firmware Version and Error Message	
Amplitude Related Characteristics.....	2-7	Readout.....	5-1
Input Signal Characteristics .....	2-11	Firmware Version.....	5-1
Output Signal Characteristics.....	2-13	Error Message Readout.....	5-1
General Characteristics.....	2-15	Preparation for Use.....	5-1
Power Requirements.....	2-15	1. Initial Turn On .....	5-1
Environmental Characteristics.....	2-16	2. Calibrate Position, Center	
Physical Characteristics.....	2-17	Frequency, Reference Level, and	
<b>Section 3 PREPARATION FOR USE</b>		Bandwidth.....	5-2
Unpacking and Initial Inspection.....	3-1	Functional or Operational Check.....	5-3
Installation.....	3-1	Equipment Required.....	5-3
Power Source and Power		Preliminary Preparation.....	5-3
Requirements .....	3-1	1. Check Operation of Front-Panel	
Storage and Repackaging.....	3-2	Pushbuttons and Controls.....	5-3
Storage .....	3-2	2. Check Gain Variation Between	
Repackaging for Shipment.....	3-2	Resolution Bandwidths .....	5-12
Transit Case.....	3-2	3. Check Counter Accuracy.....	5-12
<b>Section 4 CONTROLS, CONNECTORS,</b>		4. Check Span Accuracy and	
<b>AND INDICATORS</b>		Linearity .....	5-13
Operating Modes.....	4-1	5. Check Resolution Bandwidth and	
Initial Entry Functions (Black Labels) ..	4-1	Shape Factor.....	5-13
Multiple-Pushbutton Sequence		6. Check Reference Level Gain and	
Functions (SHIFT Pushbuttons).....	4-1	RF Attenuator Steps .....	5-13
Terminating Multiple-Pushbutton		7. Check Sensitivity.....	5-14
Sequences .....	4-1	8. Check Residual FM.....	5-14
DATA ENTRY Functions (Orange		9. Check Frequency Drift or	
Labels) .....	4-1	Stability .....	5-15
Correcting Numerical Entry Errors .....	4-2	10. GPIB Verification Program .....	5-16
		<b>Section 6 OPERATION</b>	
		Instrument Operating Features.....	6-1
		Firmware Version and Error Message	
		Readout .....	6-1
		Crt Filters .....	6-1
		Intensity Level and Beam Alignment...6-1	
		Signal Application .....	6-1
		⚠ RF INPUT Connector .....	6-1

	Page
<b>Section 6 (continued)</b>	
Resolution Bandwidth, Frequency Span, and Sweep Time .....	6-3
Using the HELP Feature.....	6-3
Using the MANUAL PEAK Control or Automatic Peaking .....	6-4
Using the Signal Identifier .....	6-4
Using the Video Filters.....	6-4
Using Time Domain Operation .....	6-5
Triggering the Display.....	6-6
Sweeping the Display.....	6-6
Manual Scan of the Spectrum.....	6-6
Reference Level, RF Attenuation, and Vertical Display .....	6-6
Reference Level Offset.....	6-6
Alternate Reference Level Units Selection .....	6-7
Using the Delta A Mode .....	6-7
Using MIN NOISE, MIN DISTORTION or the Reduced Gain Mode .....	6-7
Using Digital Storage .....	6-8
Using the Store and Recall Features ..	6-9
Plotting the Display.....	6-9
Instrument Interface Functions.....	6-10
Using the Markers Feature.....	6-10
Marker Terms.....	6-10
Marker Turn On.....	6-10
Marker Menu and Assign Menu .....	6-11
Using HELP with the Marker Menu ..	6-12
Assigning Markers .....	6-12
Tuning Markers .....	6-12
Using Signal Count.....	6-12
Front-panel Control .....	6-12
Counted Locations .....	6-13
Signal Counting and Stored Traces ..	6-13
Signal Count Familiarization.....	6-14
Using the Tracking Generator Mode ..	6-15
Using the Sideband Analyzer Mode ..	6-16
Using the EOS Correction Mode .....	6-16
Using the Multiband Sweep Mode ....	6-16
Using the Time Measurement Feature.....	6-18
Programming Features (GPIB Operation for Programmable Instruments Only)....	6-18
Setting GPIB Address Switches.....	6-18
TALK ONLY, LISTEN ONLY Switches.....	6-18
Personalized Macros .....	6-18
External Mixer Operation.....	6-19
External Mixers and Diplexer.....	6-19
Reference Level Readout and Conversion Loss for External Mixers .....	6-19
Handling .....	6-19
Installation.....	6-20
Operation .....	6-21
Operational Considerations/Precautions .....	6-21

	Page
<b>Section 6 (continued)</b>	
1. ⚠ RF INPUT Power Limit.....	6-21
2. Instrument Warm-up After Storage .....	6-21
3. Auto Resolution.....	6-21
4. Waveguide Mixer/Spectrum Analyzer system.....	6-21
5. Measurements Outside Specified Frequency and Tuning Range vs Display Span .....	6-22
6. Level of Pulsed Signals.....	6-22
7. Level of Continuous Wave Signals .....	6-22
8. Excessive Input Signal Level.....	6-22
9. No Crt Trace .....	6-22
10. PEAK/AVERAGE .....	6-22
11. Digital Storage Effects on Signal Analyses.....	6-22
12. Stored Display Averaged in Wide Spans .....	6-23
13. TRIGGERING .....	6-23
Service Information .....	6-23
Service Manual.....	6-23
Product Service.....	6-23
Emergency Repair.....	6-23
Maintenance Agreements.....	6-23
<b>Section 7 OPTIONS</b>	
Options A1–A5 (Power Cord Options) .....	7-1
Option B1 (Optional Service Manuals) ..	7-1
Options M1–M3 (Extended Service and Warranty Options) .....	7-1
Option 07 ⚠ (Provide 75 Ω Input).....	7-2
Option 08 (Delete External Mixer Capability) .....	7-3
Options 21 and 22 (Waveguide Mixer Sets).....	7-3
Option 39 (Provide Silver Battery).....	7-4
Option 41 (Provide Digital Microwave Radio) .....	7-4
Option 42 (Provide 110 MHz IF Output) .....	7-5
Option 45 (Provide MATECO Capability) .....	7-5
Option 52 (Provide North American 220 V).....	7-5
<b>Appendix A GLOSSARY</b>	
General Terms.....	A-1
Terms Related to Frequency .....	A-1
Terms Related to Amplitude .....	A-2
Terms Related to Digital Storage.....	A-3
Terms Related to Markers.....	A-3

# LIST OF ILLUSTRATIONS

Figure Number	Page	Figure Number	Page
	Tektronix 494AP Programmable Spectrum Analyzer.....viii	6-1	Circuit of a 75 to 50 $\Omega$ matching pad (ac coupled) .....6-2
2-1	Dimensions.....2-17	6-2	Graph illustrating the relationship between dBm, dBmV, and dB $\mu$ v.....6-2
4-1	Instrument Power Control and Frequency.....4-3	6-3	Volts-dBm-Watts conversion chart for 50 $\Omega$ impedance.....6-3
4-2	Frequency Span and Resolution.....4-5	6-4	Typical example of Identifier mode displays.....6-5
4-3	Marker Functions.....4-7	6-5	Typical display mixed with the VIDEO FILTER ..6-5
4-4	Locating the signal peak.....4-8	6-6	Typical display using B-SAVE A to observe the difference between SAVE A and B displays .....6-8
4-5	Using <green-SHIFT> PEAK FIND .....4-10	6-7	Simulated displays when counting at the center frequency or marker frequency .....6-14
4-6	Signal finding example.....4-11	6-8	Simulated display of stored displays with signal counts .....6-14
4-7	Signal finding example.....4-12	6-9	Simulated display showing counting being done at the marker while the center frequency is being tuned.....6-15
4-8	Signal finding example.....4-12	6-10	Simulated display showing delta marker operation with signal count on a saved display.....6-16
4-9	Signal finding example.....4-13	6-11	Block diagram showing external waveguide mixer installation .....6-20
4-10	Signal finding example.....4-13	6-12	A typical display from an external mixer.....6-21
4-11	Display Parameters.....4-14		
4-12	Display Parameters (continued) .....4-16	7-1	International power cord options for the spectrum analyzer.....7-1
4-13	Sweep.....4-18		
4-14	Digital Storage .....4-20		
4-15	Display .....4-22		
4-16	General Purpose .....4-24		
4-17	Front-Panel Input/Output .....4-27		
4-18	Rear-Panel Input/Output .....4-29		
5-1	Crt display and readout at initial turn on.....5-1		
5-2	Typical display of calibration markers in the maximum span position .....5-2		
5-3	Integrating a display with the VIDEO FILTER.....5-5		
5-4	Using the IDENT feature to identify a real or true response.....5-6		
5-5	Displays that illustrate how bandwidth and shape factor are determined .....5-13		
5-6	Typical display showing how to determine residual FM .....5-16		

# SAFETY SUMMARY

(Refer all servicing to qualified servicing personnel)

The safety information in this summary is for both operating and servicing personnel. Specific warnings and cautions will be found throughout the manual where they apply, but may not appear in this summary.

## CONFORMANCE TO INDUSTRY STANDARDS

This instrument complies with the following Industry Safety Standards and Regulatory Requirements.

### Safety

CSA: Electrical Bulletin

FM: Electrical Utilization Standard Class 3820

ANSI C39.5 — Safety Requirements for Electrical and Electronic Measuring and Controlling Instrumentation.

IEC 348 (2nd edition) — Safety Requirements for Electronic Measuring Apparatus.

### Regulatory Requirements

VDE 0871 Class B — Regulations for RFI Suppression of High Frequency Apparatus and Installations.

## TERMS

### In This Manual

CAUTION statements identify conditions or practices that could result in damage to the equipment or other property.

WARNING statements identify conditions or practices that could result in personal injury or loss of life.

### As Marked on Equipment

CAUTION indicates a personal injury hazard not immediately accessible as one reads the marking, or a hazard to property, including the equipment itself.

DANGER indicates a personal injury hazard immediately accessible as one reads the marking.

## SYMBOLS

### In This Manual



This symbol indicates where applicable cautionary or other information is to be found.

### As Marked on Equipment



DANGER — High voltage.



Protective ground (earth) terminal.



ATTENTION — refer to manual.



Refer to manual

# LIST OF TABLES

Table Number	Page	Table Number	Page
1-1	Tektronix Waveguide Mixers .....1-2	6-1	50 $\Omega$ System Reference Level Conversion.....6-2
2-1	Frequency Related Characteristics.....2-1	6-2	Marker Menu .....6-11
2-2	Amplitude Related Characteristics.....2-7	6-3	Assign Menu.....6-11
2-3	Input Signal Characteristics.....2-11	6-4	Marker Trace Organization.....6-13
2-4	Output Signal Characteristics .....2-13	7-1	Power Cord Options .....7-1
2-5	General Characteristics .....2-15	7-2	Extended Service and Warranty Options .....7-2
2-6	Power Requirements .....2-15	7-3	Option 07 Alternate Specifications.....7-2
2-7	Environmental Characteristics .....2-16	7-4	Options 21 and 22 Alternate Specifications.....7-4
2-8	Physical Characteristics.....2-17	7-5	Option 41 Alternate Specifications.....7-5
4-1	Interface Functions .....4-30	7-6	Option 42 Alternate Specifications.....7-5
5-1	Sensitivity .....5-15		