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Selection Guide

Signal Monitors



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Signal Monitor Selection Guide

PRODUCT FAMILY	VECTORSCOPES			WAVEFORM MONITORS				DIGITAL MONITORS			
	1720/ 1721	1725	1720 SCH/ 1721 SCH	1710J/ 1711J	1730/ 1731	1735	1730D	WFM 601A	WFM 601E	WFM 601M	SDA 601
MODEL NUMBER											
VIDEO STANDARDS											
NTSC; 525/60	X (1720)	X	X (1720 SCH)	X (1710J)	X (1730)	X	X	X	X	X	X
PAL; 625/50	X (1721)	X	X (1721 SCH)	X (1711J)	X (1731)	X		X	X	X	X
Dual Standard 525/625		X				X		X	X	X	X
SIGNAL INPUTS											
Composite Analog	2	2	2	2	2	2	2				
Component Analog (CAV)											
Serial Digital Composite							2				
Serial Digital Component								2	2	2	1
Parallel Digital							X				
High Impedance Probe											
Stereo Audio	X	X	X				X	X			
SIGNAL OUTPUTS											
Analog Picture Monitor				X	X	X	X	X	X	X	X
Digital Picture Monitor								X	X	X	
Line Select Strobe					X	X	X				
Alarm								X	X	X	X
SIGNAL DISPLAYS											
Waveform				X	X	X	X	X	X	X	
RGB/YRGB Parade					X	X	X*4	X	X	X	
Waveform Difference								X	X	X	
VITS Monitoring/Line Select	X*5	X*5	X*5		X	X	X	X	X	X	
Composite Vector	X	X	X								
Component Parade/Overlay								X	X	X	
Component Vector/Lightning/Bowtie								X	X	X	
Diamond (RGB)								X	X	X	
Arrowhead NTSC/PAL GAMUT								X	X	X	
Picture Monitor								X	X	X	
R-Y Sweep	X*7	X*7	X*7								
Eye Pattern (Serial Digital)							X	X	X		
Signal Level/Digital Jitter Readout										X	
Data Logic Analyzer										X	X
Polar SCH Phase			X								
Audio Phase/Amplitude	X	X	X					X			
Frozen Waveform								X	X	X	
MISCELLANEOUS											
Measurement Cursors								X	X	X	
Bandwidth (MHz)	6	6	6	6	6	6	5.5	X*9	X*9	X*9	
Vertical Magnification (# Times)				5	5	5	5	10	10	10	
Remote PC Display											X
Error Alarm							X	X	X	X	X
12 V DC Power											X
Safety/EMI Certified*11	X	X	X	X	X	X	X	X	X	X	X
CONTROL INTERFACE											
User Presets	X*5	X*5	X*5		X	X	X	X	X	X	X
Functions											X
DC Logic Levels	X*5	X*5	X*5		X	X	X	X	X	X	
RS-232C								X	X	X	
Physical Characteristics	*20	*20	*20	*20	*20	*20	*20	*20	*20	*20	*20

Footnote legend on page 4.

Signal Monitor Selection Guide

PRODUCT FAMILY	HDTV		COMBINATION WAVEFORM MONITOR/VECTORSCOPE						COMPONENT/COMPOSITE		
	WFM 1125	1735HD	WFM 90 WFM 91	1740A 1741A	1745A	1750A 1751A	1755A	WVR 500	1760 1761	1765	WFM 300A
VIDEO STANDARDS											
NTSC; 525/60		X	X (WFM 90)	X (1740A)	X	X (1750A)	X	X	X (1760)	X	X*19
PAL; 625/50		X	X (WFM 91)	X (1741A)	X	X (1751A)	X	X	X (1761)	X	X*19
Dual Standard 525/625		X			X			X		X	X*19
HDTV Rates	X*21	X									
SIGNAL INPUTS											
Composite Analog		6	1	8	8	8	8	2	8	8	1
Component Analog (CAV)		2		2	2	2	2		2	2	1
Serial Digital Component		2*22									
Stereo Audio			X*15	X	X	X	X		X	X	
SIGNAL OUTPUTS											
Analog Picture Monitor	X	X*24	X	X	X	X	X	X	X	X	X
Digital Picture Monitor	X										
Rasterized Display	X		X					X			
Extracted AES/EBU Audio	X										
Line Select Strobe	X										
Alarm	X										
SIGNAL DISPLAYS											
RF Spectrum (L Band/70 MHz)		X									
Waveform	X	X	X	X	X	X	X	X	X	X	X
RGB/YRGB Parade	X	X		X	X	X	X		X	X	
Waveform Difference	X*23	X							X	X	X
VITS Monitoring/Line Select	X	X	X	X	X	X	X		X	X	X
Composite Vector			X	X	X	X	X	X	X	X	
Component Parade/Overlay	X	X		X	X	X	X		X	X	X
Component Vector/Lightning/Bowtie	X								X	X	X
Diamond (RGB)	X							X	X		
Picture Monitor			X*16	X	X	X	X	X*18	X	X	
R-Y Sweep				X	X	X	X		X	X	X
Longitudinal Time Code				X	X	X	X		X	X	
Data Logic Analyzer	X										
Polar SCH Phase						X	X		Opt.	Opt.	
Audio Phase/Amplitude			X*17	X	X	X	X		X	X	
Frozen Waveform	X										
MISCELLANEOUS											
Measurement Cursors	X			X	X	X	X		X	X	
Bandwidth (MHz)	30	30	6	10	10	10	10	6	10	10	6
Vertical Magnification (# Times)	10	5	5	10	10	10	10	5	10	10	5
Error Alarm	X		X					X			X
12 V DC Power			X								
Safety/EMI Certified*11	X	X	X	X	X	X	X	X	X	X	X
CONTROL INTERFACE											
User Presets	X	X		X	X	X	X	X	X	X	X
DC Logic Levels	X	X		X	X	X	X		X	X	X
RS-232C	X			X	X	X	X	X	X	X	
Physical Characteristics	*20	*20	*20	*20	*20	*20	*20	*20	*20	*20	*20

Signal Monitor Selection Guide

PRODUCT FAMILY	MEASUREMENT SETS			RF
	1780R 1781R	VM100 VM101	VM700T	1705A
MODEL NUMBER				
VIDEO STANDARDS				
NTSC; 525/60*1	X (1780R)	X(VM100)	Opt. 01	
PAL; 625/50*1	X (1781R)	X (VM101)	Opt. 11	
Dual Standard 525/625			Opt. 01/11	
SIGNAL INPUTS				
Composite Analog	4	1	3	
Component Analog (CAV)	1		1 Opt. 30	
High Impedance Probe	X		Opt. 1Z	
Stereo Audio	X		Opt. 40/41	
SDI			X	
SIGNAL OUTPUTS				
Analog Picture Monitor	X			
SIGNAL DISPLAYS				
RF Spectrum (L Band/70 MHz)				X
Waveform	X		X	
RGB/YRGB Parade	X		Opt. 30	
Waveform Difference	X		X	
VITS Monitoring/Line Select	X		X	
Composite Vector	X		X	
Component Parade/Overlay	X		Opt. 30	
Component Vector/Lightning/Bowtie	X*6		Opt. 30	
Picture Monitor	X		X	
Polar SCH Phase	X		X	
Audio Phase/Amplitude	X		Opt. 40/41	
Measurement Results List		X	X	
Video Wander			X	
MISCELLANEOUS				
Measurement Cursors	X		X	
Bandwidth (MHz)	20	5	6	950-1800*10
Vertical Magnification (# Times)	5		≈300	
Remote PC Display		LIST	VMREMGR	
Precision Audio Measurements			Opt. 40/41	
Measurement Routines	X	X	X	
Automatic Measurements		X	X	
Error Alarm		X	X	
Safety/EMI Certified*11	X	X	X	X
CONTROL INTERFACE				
User Presets	X		X	
Functions			X	
DC Logic Levels	X			
RS-232C	X	X	X*12	
Physical Characteristics	*20	*20	*20	*20

MODEL NUMBER	DIMENSIONS			NET WEIGHT (lbs./kg)
	Height*13 (in./mm)	Width*14 (in./mm)	Depth (in./mm)	
1705A	3U	Half	18.1/460	8.5/3.8
1720/21/25	3U	Half	18.1/460	8.5/3.8
1720SCH/21SCH	3U	Half	18.1/460	8.5/3.8
1710B/11B	3U	Half	18.1/460	8.0/3.6
1730/31/35	3U	Half	18.1/460	8.5/3.8
1730D	3U	Half	18.1/460	9.0/4.0
1735HD	3U	Half	18.1/460	10.3/4.7
1740A/41A	3U	Half	18.1/460	9.0/4.0
1745A	3U	Half	18.1/460	9.4/4.2
1750A/51A/55A	3U	Half	18.1/460	9.4/4.2
1760/61/65	3U	Half	18.1/460	10.0/4.5
1780R/81R	3U	Full	18.1/460	28/12
SDA601	7.5/191	3.6/91	2.2/56	1.5/0.68
VM100/101	1U	Half	18.4/460	4/1
VM700T	5U	Full	21.9/556	45/20
WFM90/91	9.6/244	5/127	3.2/81	3/1.4
WFM300A	3U	Half	18.1/460	9.0/4.0
WFM601/601i	3U	Half	18.1/460	9.0/4.0
WFM601M	3U	Half	18.1/460	9.0/4.0
WFM1125	3U	Half	18.1/460	9.0/4.0
WVR500	1U	Half	18.1/460	4/1.8

Footnotes

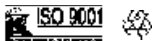
- *1 VM700T must be ordered with one of these options.
- *2 With optional Probe Adapter (Tektronix P/N 067-1429-00).
- *3 Left, right, auxiliary inputs.
- *4 Analog inputs only.
- *5 When connected to appropriate 173X Waveform Monitor.
- *6 Bowtie only.
- *7 Output to waveform monitor.
- *8 LED bar graphs for precise level setups; PPM ballistics.
- *9 Accepts signals conforming to CCIR 601 standard.
- *10 45 MHz to 100 MHz on separate input.
- *11 UL-1244/CSA Listed, FCC 15J (Class A), VDE 0871.5 (Class B), 89/336/ECC.
- *12 GPIB and SLIP available as options.
- *13 3U = 3 rack units (5.25 in./132 mm) 5U = 5 rack units (8.75 in./220 mm).
- *14 Half = Half rack width (8.1 in./206 mm) Full = Full rack width (19.0 in./483 mm).
- *15 Displays one audio channel.
- *16 Color display.
- *17 Amplitude only.
- *18 Displays on color monitor.
- *19 Select graticule option for desired NTSC or PAL format.
- *20 See Physical Characteristics table.
- *21 60 or 59.94 Hz field rates:
Opt. 0A, SMPTE 274M, 1920 x 1080 interlaced.
Opt. 0B, SMPTE 296M, x 720 progressive.
Opt. 0C, Dual standard, 1080i/720p.
- *22 SMPTE 292M, 1.485 Gb/s.
- *23 Waveform Save Mode.
- *24 Outputs selected component channel.

For further information, contact Tektronix:

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