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100 MHz CombiScope® with FFT HM1008-2



Either PAL or NTSC: Line triggering with line counter



Digital Mode: TV field and zoomed display of one selected line



Cursor measurement choices in digital mode



1 GSa/s Real Time Sampling, 10 GSa/s Random Sampling

1 MPts Memory per Channel, Memory Doom up to 40,000:1

FFT for spectral analysis

2 Channels

Deflection coefficients: 1 mV/cm - 20 V/cm, Time Base: 50 s/cm - 5 ns/cm

8-Bit Low Noise Flash A/D Converters

Acquisition modes: Single, Refresh, Average, Envelope, Roll, Peak-Detect

Front USB-Stick Connector for Screenshots

USB/RS-232, optional: IEEE-488, Ethernet/USB

Signal display: Yt, XY and FFT; Interpolation: Sinx/x, Pulse, Dot Join (linear)

100 MHz CombiScope® HM1008-2 Valid at 23 °C after a 30 minute warm-up period

Vertical Deflection	
Channels:	2
Analog:	2
Operating Modes	Z
	CH 1 or CH 2 separate DUAL (CH 1 and
Anatog.	CH 2 alternate or chonned) Addition
Digital:	Analog Signal Channels CH 1 or CH 2 sena-
Digitati	rate. DUAL (CH 1 and CH 2). Addition
X in XY-Mode:	CH 1
Invert:	CH 1, CH 2
Bandwidth (-3 dB):	2 x 0 – 100 MHz
Rise time:	< 3.5 ns
Bandwith limiting (selectable	e): about 20 MHz (5 mV/cm – 20 V/cm)
Deflection Coefficients(CH1,2)	:14 calibrated steps
1 mV – 2 mV/cm (10 MHz)	± 5 % (0 – 10 MHz (-3 dB))
5 mV – 20 V/cm	±3% (1-2-5 sequence)
variable (uncalibrated):	> 2.5 : 1 to > 50 V/cm
Inputs CH 1, 2:	
Input Impedance:	
Coupling:	
Max. Input Voltage:	400 v (DC + реак АС) 70 рс
Monsuring Circuite	Vulls Moscuring Catagory
Analog mode only	
Analog mode only:	$\Lambda \cup X \cdot 100 \vee (DC + peak \Lambda C)$
Function (selectable)	Extern Trigger, 7 (unblank)
Coupling:	AC DC
Max. input voltage:	100 V (DC +peak AC)
Triggering	
Analog and Digital Mode	
Automatic (Peak to Peak):	
Min. signal height:	5 mm
Frequency range:	10 Hz – 200 MHz
level control range	frama Daaly ta Daaly
	ITOM PEAK- to PEAK+
Normal (without peak):	
Normal (without peak): Min. signal height:	5mm
Normal (without peak): Min. signal height: Frequency range:	5 mm 0 - 200 MHz
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes:	5 mm 0 - 200 MHz -10 cm to +10 cm
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slone:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1 CH 2 alt CH 1/2 > 8 mm analog
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only] Line. Ext.
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 (≥ 8 mm, analog mode only), Line, Ext. AC: 10 Hz-200 MHz
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 (≥ 8 mm, analog mode only), Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable
Vormal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems (55 Line (50 Hz 6)
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/50 Hz Systems 625 Line/50 Hz Systems
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/50 Hz Systems even/odd/both all/line aumber coloctable
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/50 Hz Systems 625 Line/50 Hz Systems 625 Line/50 Hz Systems 625 Line/50 Hz Systems 626 Line/50 Hz Systems 627 Line number selectable CH 1 CH 2 Ext
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action:	5 mm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/50 Hz Systems 625 Line/50 Hz Systems even/odd/both all/line number selectable CH 1, CH 2, Ext. LED
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via-	Smm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/50 Hz Systems 625 Line/50 Hz Systems even/odd/both all/line number selectable CH 1, CH 2, Ext. LED AUX (0.3 V 150 MHz)
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via: Coupling:	Smm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/50 Hz Systems 625 Line/50 Hz Systems even/odd/both all/line number selectable CH 1, CH 2, Ext. LED AUX (0.3 V _{pp} , 150 MHz) AC. DC
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via: Coupling:	Smm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/50 Hz Systems even/odd/both all/line number selectable CH 1, CH 2, Ext. LED AUX (0.3 V _{pp} , 150 MHz) AC, DC 100V (DC +peak AC)
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via: Coupling: Max. input voltage: Digital mode	Simm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz - 200 MHz DC: 0 - 200 MHz HF: 30 kHz - 200 MHz LF: 0 - 5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/50 Hz Systems 625 Line/50 Hz Systems 625 Line/50 Hz Systems even/odd/both all/line number selectable CH 1, CH 2, Ext. LED AUX (0.3 V_{pp} , 150 MHz) AC, DC 100 V (DC +peak AC)
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via: Coupling: Max. input voltage: Digital mode Pre/Post Trigger:	Smm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/60 Hz Systems 625 Line/60 Hz Systems even/odd/both all/line number selectable CH 1, CH 2, Ext. LED AUX (0.3 V _{pp} , 150 MHz) AC, DC 100 V (DC +peak AC) -100 % to +400% related to complete memory
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via: Coupling: Max. input voltage: Digital mode Pre/Post Trigger: Analog mode	Simm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/0 Hz Systems 625 Line/0 Hz Systems 626 Line/10 Hz Systems 627 Line/10 Hz Systems 628 Line/10 Hz Systems 629 Line/10 Hz Systems 620 Line/10 Hz Systems 620 Line/10 Hz Systems 621 Line number selectable CH 1, CH 2, Ext. LED AUX (0.3 V _{pp} , 150 MHz) AC, DC 100 V (DC +peak AC) -100 % to +400% related to complete memory
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via: Coupling: Max. input voltage: Digital mode Pre/Post Trigger: Analog mode 2nd Trigger	Simm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/60 Hz Systems 625 Line/50 Hz Systems even/od/both all/line number selectable CH 1, CH 2, Ext. LED AUX (0.3 V _{pp} , 150 MHz) AC, DC 100 V (DC +peak AC) -100 % to +400 % related to complete memory
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via: Coupling: Max. input voltage: Digital mode Pre/Post Trigger: Analog mode 2nd Trigger Min. signal height:	Smm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/50 Hz Systems even/odd/both all/line number selectable CH 1, CH 2, Ext. LED AUX (0.3 V _{pp} , 150 MHz) AC, DC 100 V (DC +peak AC) -100 % to +400 % related to complete memory
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via: Coupling: Max. input voltage: Digital mode Pre/Post Trigger: Analog mode 2nd Trigger Min. signal height: Frequency range:	Smm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/50 Hz Systems even/odd/both all/line number selectable CC H 1, CH 2, Ext. LED AUX (0.3 V _{pp} , 150 MHz) AC, DC 100 V (DC +peak AC) -100 % to +400 % related to complete memory 5 mm 0 - 200 MHz
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via: Coupling: Max. input voltage: Digital mode Pre/Post Trigger: Analog mode 2nd Trigger Min. signal height: Frequency range: Coupling:	Smm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0 - 200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems 625 Line/50 Hz Systems even/odd/both all/line number selectable CH 1, CH 2, Ext. LED AUX (0.3 V _{pp} , 150 MHz) AC, DC 100 V (DC +peak AC) -100 % to +400% related to complete memory 5 mm 0 - 200 MHz DC
Normal (without peak): Min. signal height: Frequency range: Level control range: Operating modes: Slope: Sources: Coupling: Video: Standards: Field: Line: Source: Indicator for trigger action: External Trigger via: Coupling: Max. input voltage: Digital mode Pre/Post Trigger: Analog mode 2nd Trigger Min. signal height: Frequency range: Coupling: Level control range:	Smm 0 - 200 MHz -10 cm to +10 cm Slope/Video positive, negative, both CH 1, CH 2, alt. CH 1/2 [≥ 8 mm, analog mode only], Line, Ext. AC: 10 Hz-200 MHz DC: 0-200 MHz HF: 30 kHz-200 MHz LF: 0-5 kHz Noise Rej. switchable pos./neg. Sync. Impulse 525 Line/60 Hz Systems even/odd/both all/line number selectable CC H 1, CH 2, Ext. LED AUX (0.3 V _{pp} , 150 MHz) AC, DC 100 V (DC +peak AC) -100 % to +400 % related to complete memory 5 mm 0 - 200 MHz DC -10 cm to +10 cm

Horizontal Deflection Analog mode Operating modes: Time base A: Time base B: Accuracy A and B: ±3%

A, ALT (alternating A/B), B 0.5 s/cm - 50 ns/cm (1-2-5 sequence) 20 ms/cm - 50 ns/cm (1-2-5 sequence)

X Magnification x10:	to 5 ns/cm	
Accuracy:	±5%	
Variable time base A/B:	cont. 1:2.5	
Hold Off time:	var. 1:10 (LED-Indication)	
Bandwidth X-Amplifier:	0 - 3 MHz (-3 dB)	
X Y phase shift < 3°:	< 220 kHz	
<u>Digital mode</u>		
I Ime base range (1-2-5 s	20 ma (am Ena (am	
Refresh Mode:	20 ms/cm - 3 ns/cm	
With Peak Detect:	20 ms/cm - 2 ms/cm (min. Pulse width 10 ns)	
Roll Mode:	50 S/CIII - 50 IIIS/CIII	
Time base	50 nnm	
Display:	+ 1 %	
	max /0.000.1	
Bandwidth X-Amplifier:	0 - 100 MHz (-3 dB)	
X Y phase shift < 3°:	< 100 MHz	
Digital Storage		
Sampling rate (real time):	Analog channels: 2x 500 MSa/s,	
	1 GSa/s interleaved	
Sampling rate (random sampli	ing): 10 GSa/s	
Bandwidth:	2 x 0 – 100 MHz (random)	
Memory:	1 M-Samples per channel	
Operating modes:	Refresh, Average, Envelope/	
	Roll (Free Run/Triggered), Peak-Detect	
Resolution (vertical):	8 Bit (25 Pts/cm)	
Resolution (horizontal):		
Yt:	11 Bit (200 Pts/cm)	
XY:	8 Bit (25 Pts /cm)	
Interpolation:	SINX/X, DOT JOIN (LINEAR), PULSE	
Delay:	Million x 1/Sampling Rate to	
Display refresh rate.	4 Million X 1/Sampling Rale	
Display refreshrate:	Date (acquired points only) Vectors (partly	
Display.	internolated) ontimal (complete memory	
	weighting and vectors]	
Reference Memories:	9 with 2 kPts each (for recorded signals)	
	0 ; , , (0 ((, , , , , ,))	
Display:	2 signals of 9 (free selectable)	
Display:	2 signals of 9 (free selectable)	
Display: FFT Mode	2 signals of 9 (free selectable)	
Display: FFT Mode Display X:	2 signals of 9 (free selectable) Frequency Range	
Display: FFT Mode Display X: Disaplay Y:	2 signals of 9 (free selectable) Frequency Range True rms value of spectrum	
Display: FFT Mode Display X: Disaplay Y: Scaling:	2 signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display:	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Display:	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Maging	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zeam (feasure even)	2 signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude un to 120	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis):	2 signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis):	2 signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis): Operation/Measuring/Ir Operation.	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20 Menu (multilingual) Autoset	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis): Operation/Measuring/Ir Operation:	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20 Menu (multilingual), Autoset, help functions (multilingual)	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis): Operation/Measuring/Ir Operation: Save/Recall (instrument par.	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20 hterfaces Menu (multilingual), Autoset, help functions (multilingual) ameter settings): 9	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis): Operation/Measuring/Ir Operation: Save/Recall (instrument par- Signal display:	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20 hterfaces Menu (multilingual), Autoset, help functions (multilingual) ameter settings): 9 max. 4 traces	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis): Operation/Measuring/Ir Operation: Save/Recall (instrument par- Signal display: analog:	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20 hterfaces Menu (multilingual), Autoset, help functions (multilingual) ameter settings): 9 max. 4 traces CH 1, 2 (Time Base A) in combination with	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis): Operation/Measuring/Ir Operation: Save/Recall (instrument particular): Signal display: analog:	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20 hterfaces Menu (multilingual), Autoset, help functions (multilingual) ameter settings]: 9 max. 4 traces CH 1, 2 (Time Base A) in combination with CH 1, 2 (Time Base B)	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis): Operation/Measuring/Ir Operation: Save/Recall (instrument par- Signal display: analog: digital:	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20 hterfaces Menu (multilingual), Autoset, help functions (multilingual) ameter settings): 9 max. 4 traces CH 1, 2 (Time Base A) in combination with CH 1, 2 (Time Base B) CH1, 2 and ZOOM or Reference or	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis): Operation/Measuring/Ir Operation: Save/Recall (instrument particity): analog: digital:	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20 hterfaces Menu (multilingual), Autoset, help functions (multilingual) ameter settings): 9 max. 4 traces CH 1, 2 (Time Base A) in combination with CH 1, 2 (Time Base B) CH1, 2 and ZOOM or Reference or Mathematics)	
Display: FFT Mode Display X: Disaplay Y: Scaling: Level display: Window: Control: Marker: Zoom (frequency axis): Operation/Measuring/Ir Operation: Save/Recall (instrument particular) Save/Recall (instrument particular) Save/Recall (instrument particular) Gignal display: analog: digital: USB Memory-Stick:	Z signals of 9 (free selectable) Frequency Range True rms value of spectrum Linear or logarithmic dBV, V Square, Hanning, Hamming, Blackmann Center frequency, Span Frequency, Amplitude up to x20 Netrfaces Menu (multilingual), Autoset, help functions (multilingual) ameter settings]: 9 max. 4 traces CH 1, 2 (Time Base A) in combination with CH 1, 2 (Time Base B) CH1, 2 and ZOOM or Reference or Mathematics)	
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Mathematic functions	
Number of Formula Sets:	5 with 5 formulas each
Sources:	CH 1, CH 2, Math 1-Math 5
Targets:	5 math. memories, Math 1-5
Functions:	ADD, SUB, 1/X, ABS, MUL, DIV, SQ, POS, NEG, INV
Display:	max. 2 math. memories (Math 1–5)
Display	
CRT:	D14-375GH
Display area (with graticule):	8 cm x 10 cm
Acceleration voltage:	approx. 14 kV
General Information	

Component tester	
Test voltage:	approx. 7V _{rms} (open circuit), approx. 50 Hz
Test current:	max. 7 mA _{rms} (short circuit)
Reference Potential :	Ground (safety earth)
Probe ADJ Output:	1 kHz/1 MHz square wave signal 0.2 V _{pp} (tr < 4 ns)
Trace rotation:	electronic
Line voltage:	105 - 253 V, 50/60 Hz ±10 %, CAT II
Power consumption:	47 Watt at 230 V, 50 Hz
Protective system:	Safety class I (EN61010-1)
Weight:	5.6 kg
Cabinet (W x H x D):	285 x 125 x 380 mm
Ambient temperature:	0°C+40°C

Accessories supplied: Line cord, Operating manual, 2 Probes 10:1 with attenuation ID (HZ200), Windows Software for control and data transfer Optional accessories: H0730 Dual-Interface Ethernet/USB H0740 Interface IEEE-488 (GPIB) HZ70 Opto-Interface (with optical fiber cable)

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