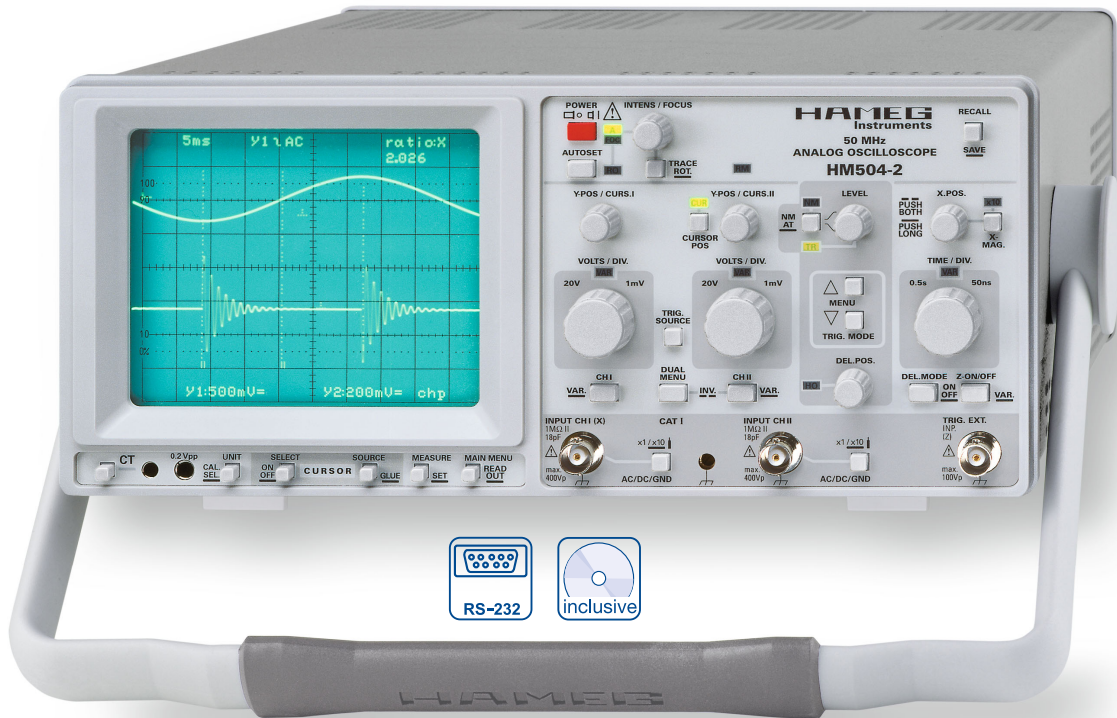
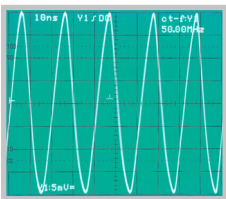


50 MHz Analog Oscilloscope HM504-2

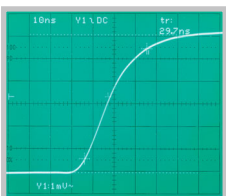
HM504-2



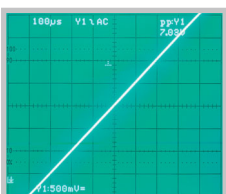
Full screen display of
50 MHz sine wave



Rise-time measurement
with cursor



Optimum deflection linearity



- 2 Channels with deflection coefficients 1 mV/div...20V/div.
- Time Base 50ns/div...0.5s/div.,
with X Magnification to 10ns/div.
- Low Noise Measuring Amplifiers with high pulse fidelity
- Triggering 0...100MHz from 5mm signal level
- Time Base delay provide high X Magnification
of any portion of the signal
- 100 MHz 4-Digit Frequency Counter,
Cursor and Automatic Measurement
- Save/Recall Memories for Instrument Settings
- Readout, Autoset, no Fan
- Yt, XY and component-test modes
- RS-232 Interface (for parameter queries and control)

50 MHz Analog Oscilloscope HM504-2

All data valid at 23 °C after 30 minute warm-up

Vertical Deflection

Operating Modes:	Channel 1 or 2 only Channels 1 and 2 (alternate or chopped) Sum or Difference of CH 1 and CH 2
Invert:	CH 2
XY Mode:	CH 1 (X) and CH 2 (Y)
Bandwidth:	2 x 0...50 MHz (-3 dB)
Rise Time:	< 7 ns
Deflection Coefficient:	1-2-5 Sequence 1 mV/div...2 mV/div.: ± 5% (0...10 MHz [-3 dB]) 5 mV/div...20 V/div.: ± 3% (0...50 MHz [-3 dB]) Variable (uncalibrated): > 2.5:1 to > 50 V/div.
Input Impedance:	1 MΩ 15 pF
Input Coupling:	DC, AC, GND (ground)
Max. Input Voltage:	400 V (DC + peak AC)

Triggering

Automatic (Peak to Peak):	20 Hz...100 MHz (≥ 5 mm)
Normal with Level Control:	0...100 MHz (≥ 5 mm)
Slope:	Rising or falling
Sources:	Channel 1 or 2, CH 1/CH 2 alternate (≥ 8 mm), Line and External
Coupling:	AC (10 Hz...100 MHz), DC (0...100 MHz), HF (50 kHz...100 MHz), LF (0...1.5 kHz)
Trigger Indicator:	LED
Triggering after Delay:	with Level Control and Slope selection
External Trigger Signal:	≥ 0.3 V _{pp} (0...50 MHz)
Active TV sync. separator:	Field and Line, +/-

Horizontal Deflection

Time Base:	50 ns/div...0.5 s/div. (1-2-5 Sequence)
Accuracy:	± 3%
Variable (uncalibrated):	> 2.5:1 to > 1.25 s/div.
X Magnification x 10:	up to 10 ns/div. (± 5%)
Accuracy:	± 5%
Delay (selectable):	200 ns...140 ms (variable)
Hold-Off Time:	variable to approx. 10 : 1
XY	
Bandwidth X amplifier:	0...3 MHz (-3 dB)
XY Phase shift < 3°:	< 120 kHz

Operation / Readout / Control

Manual:	via controls
Autoset:	automatic signal related parameter settings
Save and Recall:	9 instrument parameter settings
Readout:	display of menu, parameters, cursors and results
Autom. Measurement:	Freq./Period, V _{dc} , V _{pp} , V _{p+} , V _{p-} , Trigger Level
Cursor Measurement:	Δt, 1/Δt, tr, ΔV, V to GND, Gain, Ratio X and Y
Frequency counter:	4 digit (0.01 % ± 1 digit) 0.5 Hz...100 MHz
Interface:	RS-232 ¹⁾

Component Tester

Test Voltage:	approx. 7 V _{rms} (open circuit)
Test Current:	max. 7 mA _{rms} (short-circuit)
Test Frequency:	approx. 50 Hz
Test Connection:	2 banana jacks 4 mm Ø

One test circuit lead is grounded via protective earth (PE)

Miscellaneous

CRT:	D14-363GY, 8 x 10 div. with internal graticule
Acceleration Voltage:	approx. 2 kV
Trace Rotation:	adjustable on front panel
Z-input (Intens. modulation):	max. + 5V (TTL)
Calibrator Signal (Square Wave):	0.2V, 1 Hz...1 MHz (tr < 4 ns), DC
Power Supply (Mains):	105...253 V, 50/60 Hz ± 10%, CAT II
Power Consumption:	approx. 34 Watt at 230 V/50 Hz
Safety class:	Safety class I (EN61010-1)
Operating temperature:	+5°C...+40°C
Storage temperature:	-20°C...+70°C
Rel. humidity:	5%...80% (non condensing)
Dimensions (W x H x D):	285 x 125 x 380 mm
Weight:	approx. 5.4 kg

¹⁾ Device control and Parameter query, no CRT content transfer possible.

Accessories supplied: Line Cord, Operators Manual and Software for Windows on CD-ROM, 2 Probes 1:1/10:1 (HZ154)

Optional accessories:
HZ70 Opto Interface (with optical fiber cable)

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