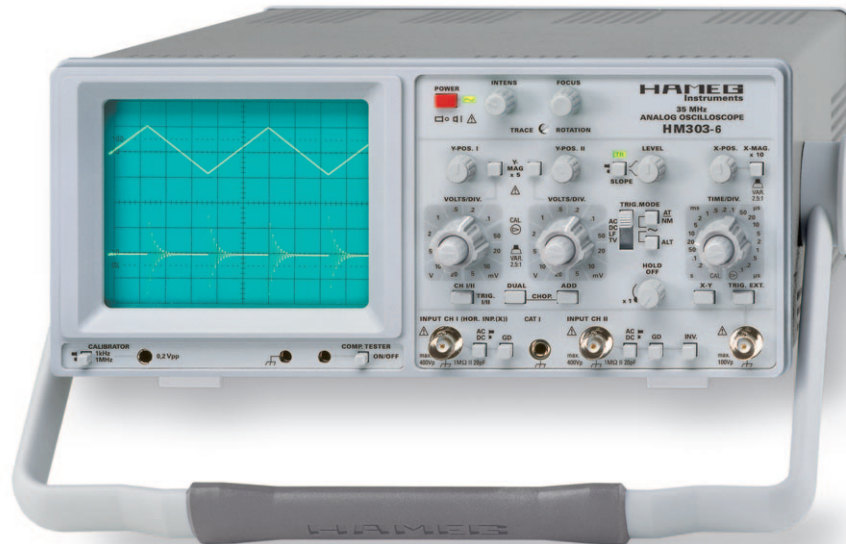
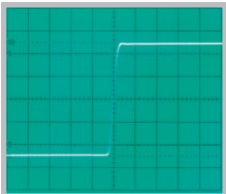


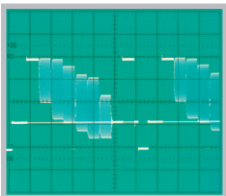
35 MHz Analog Oscilloscope HM303-6



No signal distortion
resulting from overshoot



Line triggered composite
video signal



Full screen display of
35 MHz sine wave signal



2 Channels with deflection coefficients of 1 mV/cm – 20 V/cm

Time Base: 0.2 s/cm – 100 ns/cm,
with X Magnification to 10 ns/cm

Low Noise Measuring Amplifiers with high pulse fidelity
and minimum overshoot

Triggering from 0 to 50 MHz from 5 mm signal level
(up to 100 MHz from 8 mm)

Up to 500,000 signal displays per second
in optimum analog quality

Yt, XY and component-test modes

35 MHz Analog Oscilloscope HM303-6

Valid at 23 °C after a 30 minute warm-up period

Vertical Deflection

| | |
|---------------------------------|---|
| Operating Modes: | Channel I or II only Channels I and II (alternate or chopped) Sum or Difference of CH I and CH II |
| Invert: | CH II |
| XY Mode: | via CH I (X) and CH II (Y) |
| Bandwidth: | 2 x 0 to 35 MHz (-3 dB) |
| Rise Time: | < 10 ns |
| Overshoot: | max. 1% |
| Deflection Coefficients: | 1-2-5 Sequence |
| 1 mV/div. – 2 mV/div.: | ± 5 % (Bandwidth 0 – 10 MHz (-3 dB)) |
| 5 mV/div. – 20 V/div.: | ± 3 % (Bandwidth 0 – 35 MHz (-3 dB)) |
| Variable (uncalibrated): | > 2.5 : 1 to > 50 V/div. |
| Input Impedance: | 1 MΩ II 20 pF |
| Input Coupling: | DC, AC, GND (ground) |
| Max. Input Voltage: | 400 V (DC + peak AC) |

Triggering

| | |
|-----------------------------------|--|
| Automatic (Peak to Peak): | 20 Hz – 50 MHz (≥ 5 mm) 50 MHz – 100 MHz (≥ 8 mm) |
| Normal with Level Control: | 0 – 50 MHz (≥ 5 mm) 50 MHz – 100 MHz (≥ 8 mm) |
| Trigger Indicator: | LED |
| Slope: | positive or negative |
| Sources: | Channel I or II, CH I / CH II alternate (≥ 8 mm), Line and External |
| Coupling: | AC: 10 Hz – 100 MHz DC: 0 – 100 MHz LF: 0 – 1.5 kHz |
| Trigger Indicator: | LED |
| External Trigger Signal: | ≥ 0.3 V _{pp} (30 Hz – 50 MHz) |
| Active TV sync. separator: | pos. and neg. |

Horizontal Deflection

| | |
|---------------------------------|---|
| Time Base: | 0.2 s/div. – 0.1 μs/div. (1-2-5 Sequence) |
| Accuracy: | ± 3 % |
| Variabel (uncalibrated): | > 2.5:1 to > 0.5 s/div. |
| X Magnification x 10: | up to 10 ns/div. |
| Accuracy: | ± 5 % |
| Hold-Off Time: | variable to approx. 10 : 1 |
| XY | |
| Bandwidth X Amplifier: | 0 – 2.5 MHz (-3 dB) |
| XY Phase shift < 3°: | < 120 kHz |

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 cm with internal graticule |
| Acceleration Voltage: | approx. 2 kV |
| Trace Rotation: | adjustable on front panel |
| Calibrator Signal (Square Wave): | 0.2 V ± 1 %, ≈ 1 kHz/1 MHz (tr < 4 ns) |
| Power Supply (Mains): | 105 – 253 V, 50/60 Hz ± 10 %, CAT II |
| Power Consumption: | approx. 36 Watt at 230 V/50 Hz |
| Ambient temperature: | 0° C...+ 40° C |
| Safety class: | Safety class I (EN61010-1) |
| Weight: | approx. 5.4 kg |
| Dimensions (W x H x D): | 285 x 125 x 380 mm |

Accessories supplied: Line Cord, operator's manual, 2 Probes 1:1 / 10:1 (HZ154)

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