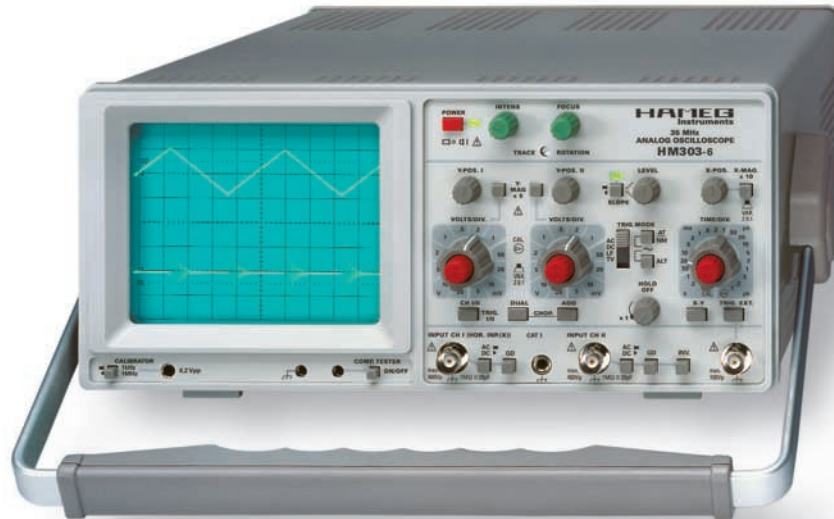
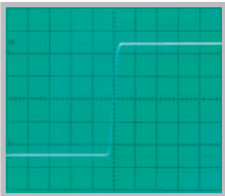


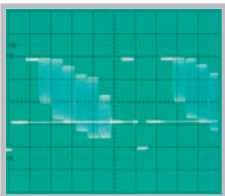
## 35 MHz Analog Oscilloscope HM303-6



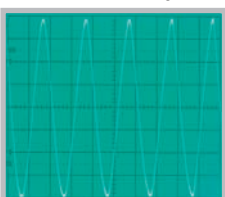
No signal distortion  
resulting from overshoot



Line triggered composite  
video signal



Full screen display of  
35 MHz sine wave signal



Maximum signal fidelity with minimum overshoot

2 Channels with deflection coefficients of 1 mV – 20 V/cm,  
Low Noise Amplifiers

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

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

Analog mode provides unexcelled signal presentation at high  
resolution and up to 500,000 signal displays/sec.

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

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

### Triggering

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

### Horizontal Deflection

<b>Time Base:</b>	0.2 s/div. – 0.1 μs/div. (1-2-5 Sequence)
<b>Accuracy:</b>	± 3%

**Variabel (uncalibrated):** > 2.5:1 to > 0.5 s/div.

<b>X Magnification x 10:</b>	up to 10 ns/div.
<b>Accuracy:</b>	± 5%
<b>Hold-Off Time:</b>	variable to approx. 10 : 1
<b>XY</b>	
<b>Bandwidth X Amplifier:</b>	0 – 2.5 MHz (-3 dB)
<b>XY Phase shift &lt; 3°:</b>	< 120 kHz

### Component Tester

<b>Test Voltage:</b>	approx. 7 V <sub>rms</sub> (open circuit)
<b>Test Current:</b>	max. 7 mA <sub>rms</sub> (short-circuit)
<b>Test Frequency:</b>	approx. 50 Hz
<b>Test Connection:</b>	2 banana jacks 4 mm Ø

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

### Miscellaneous

<b>CRT:</b>	D14-363GY, 8 x 10 cm with internal graticule
<b>Acceleration Voltage:</b>	approx. 2 kV
<b>Trace Rotation:</b>	adjustable on front panel
<b>Calibrator Signal (Square Wave):</b>	0.2 V ± 1%, ≈ 1 kHz/1 MHz (tr < 4 ns)
<b>Power Supply (Mains):</b>	105 – 253 V, 50/60 Hz ± 10%, CAT II
<b>Power Consumption:</b>	approx. 36 Watt at 230 V/50 Hz
<b>Ambient temperature:</b>	0° C...+40° C
<b>Safety class:</b>	Safety class I [EN61010-1]
<b>Weight:</b>	approx. 5.4 kg
<b>Dimensions (W x H x D):</b>	285 x 125 x 380 mm

**Accessories supplied:** Line Cord, operator's manual, 2 Probes 1:1 / 10:1

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