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## Test & Measurement

- sales
- rentals
- calibration
- repair
- disposal

## Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

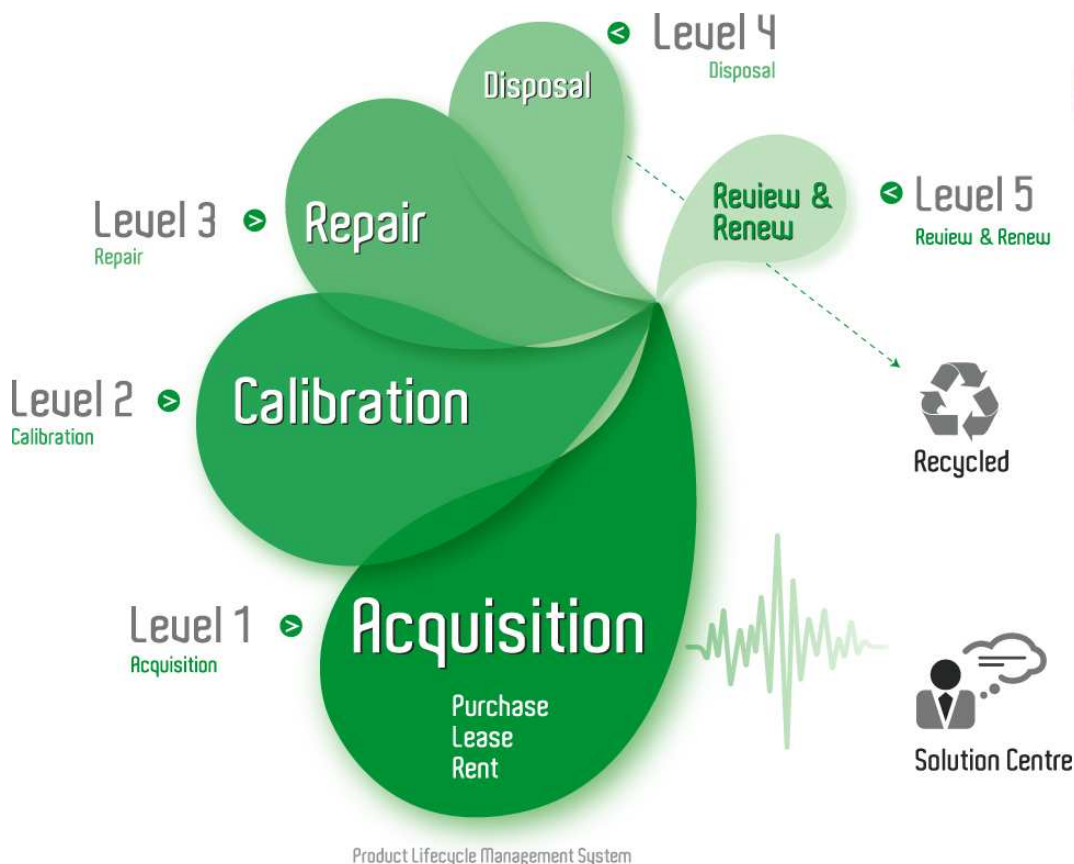
If you click on the “Click-to-Call” logo below, you can call us for FREE!

TMG Corporate Website

TMG Products Website



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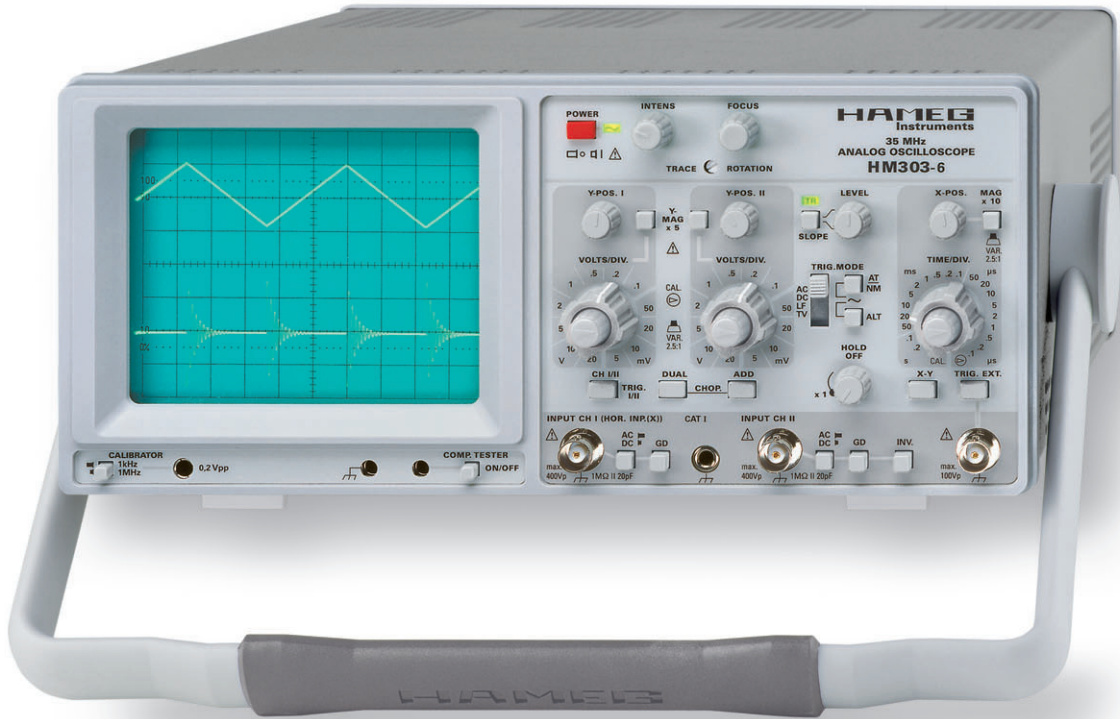
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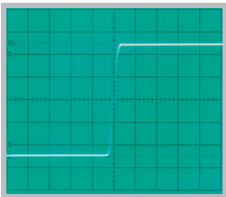


## 35 MHz Analog Oscilloscope HM303-6

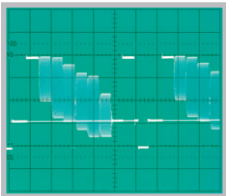


HM303-6

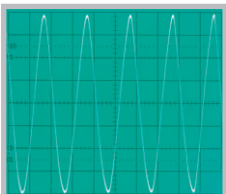
No signal distortion  
resulting from overshoot



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

<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>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%
<b>Variabel (uncalibrated):</b>	> 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>	D 14-363GY, 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 (HZ154)

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