ABN 43 064 478 842

231 osborne avenue clayton south, vic 3169
PO box 1548, clayton south, vic 3169
t 03 9265 7400 f 03 9558 0875
freecall 1800 680 680
www.tmgtestequipment.com.au

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.

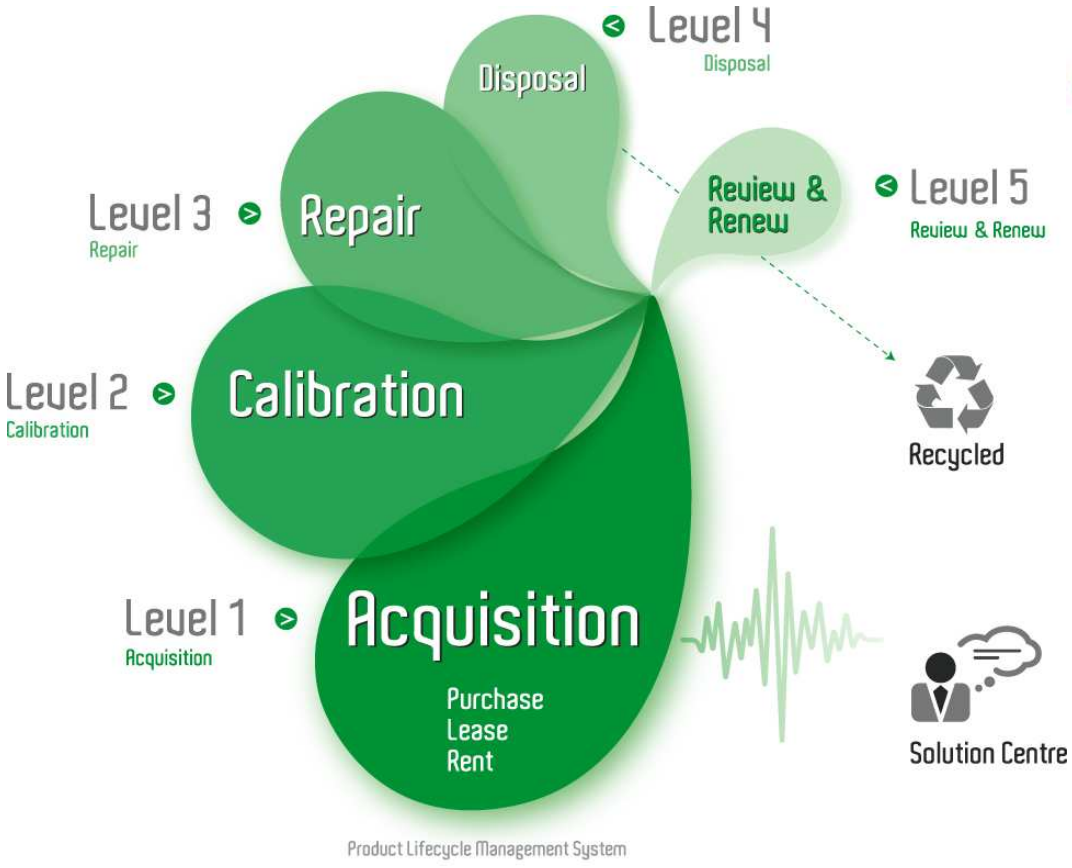
TMG will assist if you are unsure whether this model will suit your requirements.

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 all us for FREE!

TMG Corporate Website **TMG Products Website**

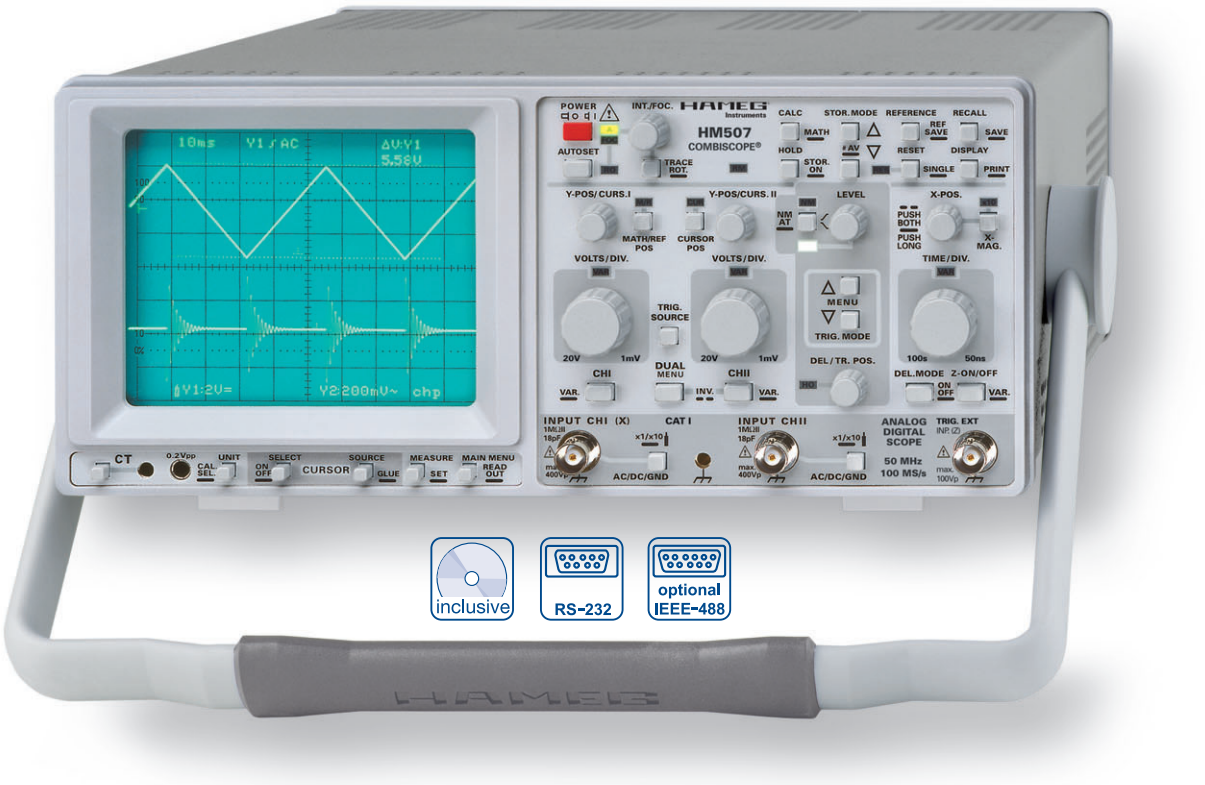
Click-to-Call
TMG Now



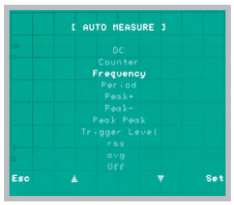
HAMEG Instruments

50 MHz CombiScope®
HM507

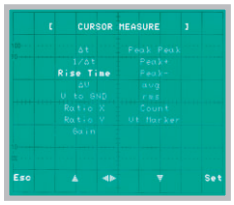
HM507



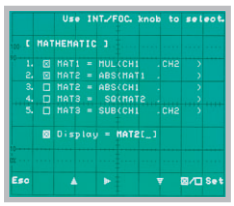
Automatic measurements



Cursor measurement



Signal processing with userdefined formulas



Digital mode:

100 MSa/s Real Time Sampling, 2 GSa/s Random Sampling

2 kPts Memory per Channel

2 Channels

Deflection coefficients: 1 mV/cm – 20 V/cm,
Time Base: 100 s/cm – 20 ns/cm

8-Bit Low Noise Flash A/D Converters

Programmable Mathematical Signal Processing

Acquisition modes: Single, Refresh, Envelope, Average, Roll

RS-232 interface for control and signal data transfer,
incl. Windows® software
optional: Multifunction Interface

50 MHz CombiScope® HM507

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 – 50 MHz (-3 dB)
Rise Time:	‹ 7 ns
Deflection Coefficients:	1-2-5 Sequence
1 mV/div. – 2 mV/div.:	± 5 % (0 to 10 MHz (-3 dB))
5 mV/div. – 20 V/div.:	± 3 % (0 to 50 MHz (-3 dB))
Variable (uncalibrated):	› 2.5: 1 to › 50 V/div.
Input Impedance:	1 MΩ II 15 pF
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:	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), HF (50 kHz – 100 MHz), LF (0 – 1.5 kHz)
Trigger Indicator:	with 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 (analog and digital)

Analog	
Time Base:	0.5 s/div. – 50 ns/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):	140 ms – 200 ns (variable)
Hold-Off Time:	variable to approx. 10 : 1
XY Mode	
Bandwidth X amplifier:	0 – 3 MHz (-3 dB)
XY Phase shift ‹ 3°:	‹ 120 kHz
Digital	
Time Base:	100 s/div. – 100 ns/div. (1-2-5 Sequence)
Accuracy:	± 2 %
X-Magnification x 10:	up to 20 ns/div.
Accuracy:	± 2 %
XY Mode	
Bandwidth X Amplifier :	0 – 50 MHz (-3 dB)
XY Phase shift ‹ 3°:	‹ 10 MHz

Digital Storage

Operating Modes:	Refresh, Roll, Single, XY, Envelope, Average, Random Sampling
Interpolation:	Linear Dot Join Function
Sampling Rate (Real Time):	max 100 MSa/s, 8 bit Flash A/D Converter
Sampling Rate (Random):	2 GSa/s relative
Post/Pre-Trigger:	-10 div. to +10 div. (continuous)
Display Refresh Rate:	max. 180/s
Bandwidth:	2 x 0 – 50 MHz (-3 dB)
Signal Memory:	3 x 2 k x 8 bit
Reference Signal Memory:	3 x 2 k x 8 bit
Mathematical Signal Memory:	3 x 2 k x 8 bit
Resolution (dots/div.) Yt Mode:	X: 200/div., Y: 25/div.
Resolution (dots/div.) XY Mode:	X: 25/div., Y: 25/div.

Operation / Readout / Control

Manual:	via controls
Autoset:	automatic signal related parameter settings
Save and Recall:	9 user defined parameter settings
Readout:	display of menu, parameters, cursors and results
Auto Measurements:	
Analog mode:	Frequency, Period, V_{DC}, V_{pp}, V_{p+}, V_{p-},
also in digital mode:	V_{rms}, $V_{average}$
Cursor Measurements:	
Analog mode:	ΔV, Δt, 1/Δt (f), tr, V to GND, ratio X and Y
also in digital mode:	Pulse count, Vt related to Trigger Point, Peak to Peak, Peak+, Peak-
Frequency counter:	4 digit (0.01 % ±1 digit) 0.5 Hz – 100 MHz
Interface (standard fitting):	RS-232 (Control, Signal Data)
Interface Option:	HO79-6 (IEEE-488, RS-232, Centronics)

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
Z-Input (Intens. modulation, analog):	max. + 5 V (TTL)
Calibrator Signal (Square Wave):	0.2 V ± 1 %, 1 Hz – 1 MHz (tr ‹ 4 ns), DC
Power Supply (Mains):	105-253 V, 50/60 Hz ±10 %, CAT II
Power Consumption:	approx. 42 Watt at 230 V/50 Hz
Min./max. Ambient temperature:	0° C...+40° C
Safety class:	Safety class I (EN61010-1)
Weight:	approx. 6.0 kg
Dimensions (W x H x D):	285 x 125 x 380 mm

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)

HO79-6 Multifunction Interface

www.hameg.com

HAMEG Instruments GmbH · Industriestr. 6 · D-63533 Mainhausen · Tel +49 (0) 6182 800 0 · Fax +49 (0) 6182 800 100 · www.hameg.com · info@hameg.com

A Rohde & Schwarz Company