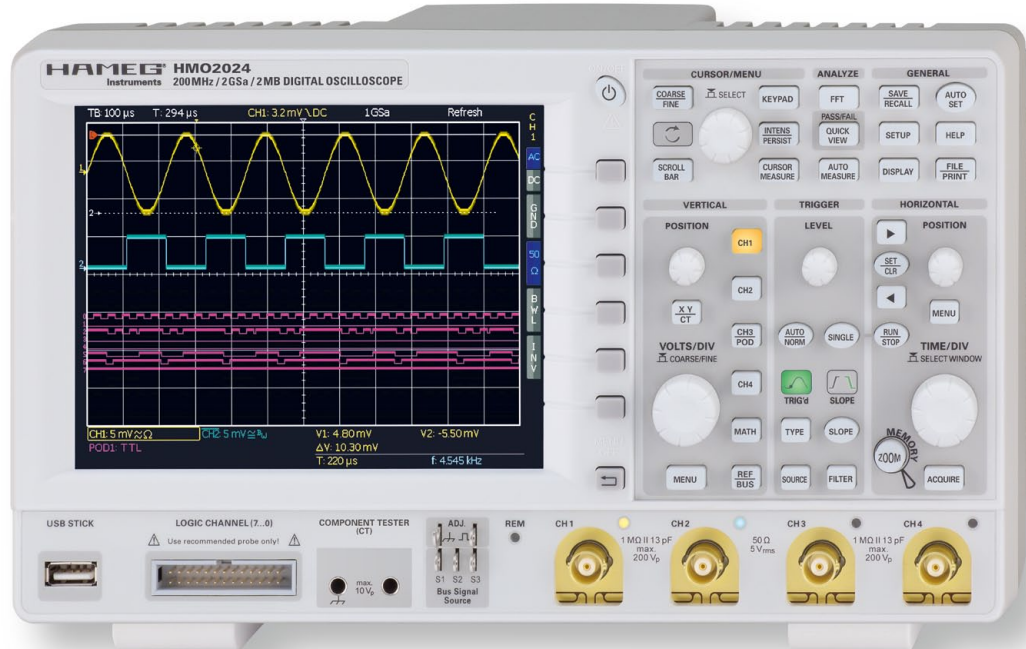


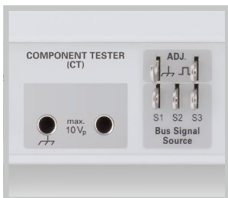
200MHz 2[4] Channel Digital Oscilloscope HMO2022 [HMO2024] 150MHz 2[4] Channel Digital Oscilloscope HMO1522 [HMO1524]



8 Channel
Logic Probe H03508



Component Tester/
Bus Signal Source

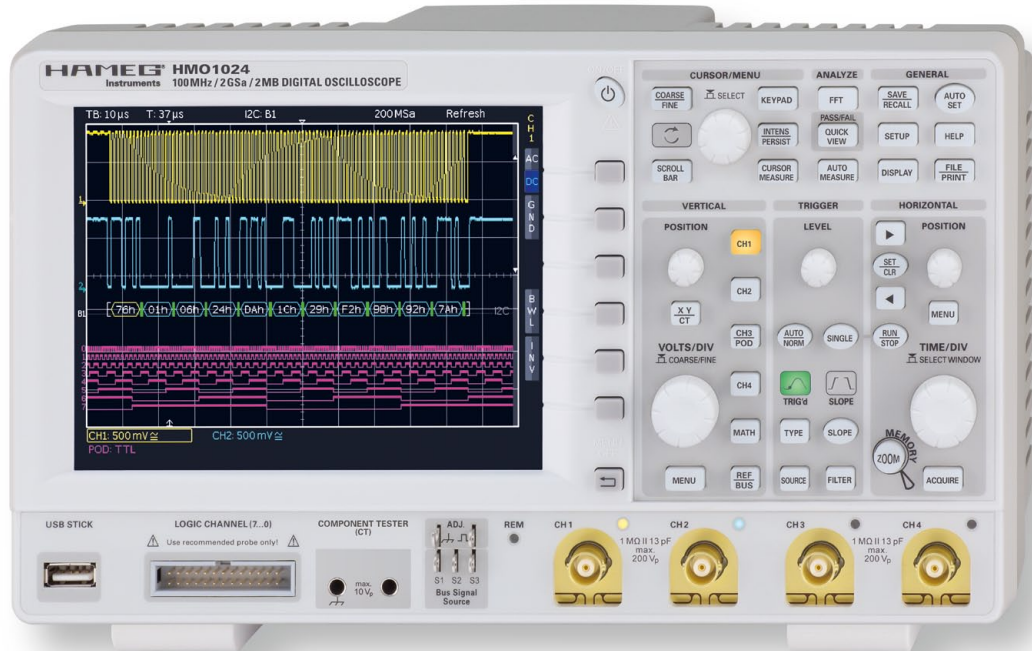


Active Probe HZ030

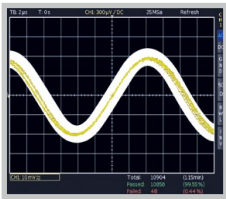


- ✓ 2GSa/s Real Time, Low Noise Flash A/D Converter (Reference Class)
- ✓ 2MPts Memory, Memory Zoom up to 50,000:1
- ✓ MSO (Mixed Signal Opt. H03508) with 8 Logic Channels
- ✓ Serial Bus Trigger and Hardware accelerated Decode, I²C, SPI, UART/RS-232 (Opt. H0010, H0011)
- ✓ 8 User definable Markers for easy Navigation
- ✓ Pass/Fail Test based on Masks
- ✓ Vertical Sensitivity 1mV/div., Offset Control $\pm 0.2... \pm 20V$
- ✓ 12div. x-Axis Display Range, 20div. y-Axis Display Range (VirtualScreen)
- ✓ Trigger Modes: Slope, Video, Pulswidth, Logic, Delayed, Event
- ✓ Component Tester, 6 Digit Counter, Automeasurement, Formula Editor, Ratiocursor, FFT for Spectral Analysis
- ✓ Crisp 16.5cm (6.5") TFT VGA Display, DVI Output
- ✓ Lowest Noise Fan
- ✓ 3 x USB for Mass Storage, Printer and Remote Control optional IEEE-488 (GPIB) or Ethernet/USB

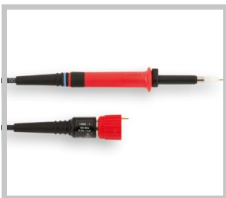
100MHz 2[4] Channel Digital Oscilloscope HMO1022 [HMO1024] 70MHz 2[4] Channel Digital Oscilloscope HMO722 [HMO724]



Mask Test



Passive Probe 1000:1
HZ020



AC/DC Current Probe
100/1000A HZ051



- ✓ 2GSa/s Real Time, Low Noise Flash A/D Converter (Reference Class)
- ✓ 2MPts Memory, Memory  Zoom up to 50,000:1
- ✓ MSO (Mixed Signal Opt. H03508) with 8 Logic Channels
- ✓ Serial Bus Trigger and Hardware accelerated Decode, I²C, SPI, UART/RS-232 (Opt. H0010, H0011)
- ✓ 8 User definable Markers for easy Navigation
- ✓ Pass/Fail Test based on Masks
- ✓ Vertical Sensitivity 1mV/div.
- ✓ 12div. x-Axis Display Range, 20div. y-Axis Display Range (VirtualScreen)
- ✓ Trigger Modes: Slope, Video, Pulswidth, Logic, Delayed, Event
- ✓ Component tester, 6 Digit Counter, Automeasurement, Formula Editor, Ratiocursor, FFT for Spectral Analysis
- ✓ Crisp 16.5cm (6.5") TFT VGA Display, DVI Output
- ✓ Lowest Noise Fan
- ✓ 3 x USB for Mass Storage, Printer and Remote Control optional IEEE-488 (GPIB) or Ethernet/USB

200 MHz 2 [4] Channel Digital Oscilloscope HMO2022 [HMO2024]

150MHz 2[4] Channel Digital Oscilloscope HMO1522 [HMO1524]

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

Display	
Display:	16.5 cm (6.5") VGA Color TFT
Resolution:	640 x 480 Pixel
Backlight:	LED 400 cd/m²
Display area for curves:	
without menu	400 x 600 Pixel (8 x 12 div.)
with menu	400 x 500 Pixel (8 x 10 div.)
Color depth:	256 colors
Intensity steps per trace:	0...31

Vertical System	
Channels:	
DSO mode	CH 1, CH 2 [CH 1...CH 4]
MSO mode	CH 1, CH 2, LCH 0...7 (logic channels) [CH 1, CH 2, LCH 0...7, CH4] with Option H03508
Auxiliary input:	Frontside [Rear side]
Function	Ext. Trigger
Impedance	1 MΩ 14 pF ±2 pF
Coupling	DC, AC
Max. input voltage	100 V (DC + peak AC)
XYZ-mode:	All analog channels on individual choice
Invert:	CH 1, CH 2 [CH 1...CH 4]
Y-bandwidth (-3 dB) (HMO202x):	200 MHz (5 mV...5 V)/div, 100 MHz (1 mV, 2 mV)/div
(HMO152x):	150 MHz (5 mV...5 V)/div, 100 MHz (1 mV, 2 mV)/div
Lower AC bandwidth:	2 Hz
Bandwidth limiter (switchable):	approx. 20 MHz
Rise time (calculated) (HMO202x):	<1.75 ns
(HMO152x):	<2.4 ns
DC gain accuracy	2 %
Input sensitivity:	13 calibrated steps
CH 1, CH 2 [CH 1...CH 4]	1 mV/div...5 V/div. (1–2–5 Sequence)
Variable	Between calibrated steps
Inputs CH 1, CH 2 [CH 1...CH 4]:	
Impedance	1 MΩ 14 pF ±2 pF
Coupling	DC, AC
Max. input voltage	200 V (DC + peak AC), 50 Ω <5 V _{rms}
Measuring circuits:	Measuring Category I (CAT I), UL 61010B-1
Position range	±10 Divs
Offset control:	
1 mV, 2 mV	±0,2 V - 10 div. * Sensitivity
5...50 mV	±1 V - 10 div. * Sensitivity
100 mV	±2,5 V - 10 div. * Sensitivity
200 mV...2 V	±40 V - 10 div. * Sensitivity
5 V	±100 V - 10 div. * Sensitivity
Logic channels	With Option H03508
Select. switching thresholds	TTL, CMOS, ECL, 2 x User -2...+8 V
Impedance	100 kΩ <4 pF
Coupling	DC
Max. input voltage	40 V (DC + peak AC)

Triggering	
Analog channels:	
Automatic:	Linking of peakdetection and triggerlevel
Min. signal height	0.8 div.; 0.5 div. typ.
Frequency range (HMO202x)	5 Hz...250 MHz
(HMO152x)	5 Hz...200 MHz
Level control range	From peak- to peak+
Normal (without peak):	
Min. signal height	0.8 div.; 0.5 div. typ.
Frequency range (HMO202x)	0...250 MHz
(HMO152x)	0...200 MHz
Level control range	-10...+10 div from center of the screen
Operating modes:	Slope/Video/Logic/Pulses/Busses (optional)
Slope:	Rising, falling, both
Sources:	CH 1, CH 2, Line, Ext., LCH 0...7 [CH 1...CH 4, Line, Ext., LCH 0...7]
Coupling:	AC (HMO202x): 5 Hz...250 MHz (HMO152x): 5 Hz...200 MHz DC (HMO202x): 0...250 MHz (HMO152x): 0...200 MHz HF (HMO202x): 30 kHz...250 MHz (HMO152x): 30 kHz...200 MHz LF: 0...5 kHz Noise rejection: switchable

Video:	
Standards	PAL, NTSC, SECAM, PAL-M, SDTV 576i, HDTV 720p, HDTV 1080i, HDTV 1080p
Fields	Field 1, field 2, both
Line	All, selectable line number
Sync. Impulse	Positive, negative
Sources:	CH 1, CH 2, Ext. [CH 1...CH 4]
Logic:	AND, OR, TRUE, FALSE
Sources:	LCH 0...7
State	LCH 0...7 X, H, L

Pulses:	Positive, negative
Modes	equal, unequal, less than, greater than, within/without a range
Range	min. 16 ns, max. 268.434 ms, resolution from 16 ns until 2 μs
Sources:	CH 1, CH 2, Ext. [CH 1...CH 4]
Indicator for trigger action:	LED
Ext. Trigger via:	Auxiliary input 0.3 V...10 V _{pp}
2nd Trigger:	
Slope:	Rising, falling, both
Min. signal height	0.8 div.; 0.5 div. typ.
Frequency range (HMO202x)	0...250 MHz
(HMO152x)	0...150 MHz
Level control range	-10...+10 div.
Operating modes:	
after time	32 ns...536 ms
after incidence	1...2 ¹⁶
Busses (Opt. H0010):	I²C/SPI/UART/RS-232
Sources:	CH 1, CH 2, Ext., LCH 0...7 [CH 1...CH 4, Ext., LCH 0...7]
Busses (Opt. H0011):	I²C/SPI/UART/RS-232
Sources:	CH 1, CH 2, Ext. [CH 1...CH 4, Ext.]
Format	hexadecimal, binary
I²C	Trigger on Start, Stop, Restart, NACK, Adress (7 or 10 Bit), Data, Address and Data, up to 5 Mb/s
SPI	up to 32 Bit Data, Chip select (CS) pos. or neg., without CS, up to 12.5 Mb/s
UART/RS-232	up to 8 Bit Data, up to 30 Mb/s

Horizontal System	
Domain representation:	Time, Frequency (FFT), Voltage (XY)
Representation Time Base:	Main-window, main- and zoom-window
Memory Zoom:	Up to 50,000:1
Accuracy:	50 ppm
Time Base:	
Refresh operating modes	2 ns/div...20 ms/div.
Roll operating modes	50 ms/div...50 s/div.

Digital Storage	
Sampling rate (real time):	2 x 1 GSa/s, 1 x 2 GSa/s [4 x 1 GSa/s, 2 x 2 GSa/s] Logic channels: 8 x 1 GSa/s
Memory:	2 x 1 MPts, 1 x 2 MPts [4 x 1 MPts, 2 x 2 MPts]
Operation modes:	Refresh, Average, Envelope, Peak-Detect Roll: free run/triggered, Filter
Resolution (vertical)	8 Bit
Resolution (horizontal)	
Yt Mode	50 Pts./div.
XY Mode	8 Bit
Interpolation:	Sinx/x, linear, Sample-hold
Persistence:	Off, 50 ms...∞
Delay pretrigger:	0...8 Million x (1/samplerate)
posttrigger:	0...2 Million x (1/samplerate)
Display refresh rate:	Up to 2000 waveforms/s
Display:	Dots, vectors, „persistence“
Reference memories:	typ. 10 Traces

Operation/Measuring/Interfaces	
Operation:	Menu-driven (multilingual), Autoset, help functions (multilingual)
Save/Recall memories:	typ. 10 complete instrument parameter settings
Frequency counter:	
0.5 Hz...250 MHz (HMO202x)	6 Digit resolution
0.5 Hz...200 MHz (HMO152x)	6 Digit resolution
Accuracy	50 ppm
Auto measurements:	Frequency, Period, pulse count, V _{pp} , V _{p+} , V _{p-} , V _{rms} , V _{avg} , V _{top} , V _{base} , t _{width+} , t _{width-} , t _{dutycycle+} , t _{dutycycle-} , t _{rise} , t _{fall} , pos. edge count, neg. edge count, pos. pulse count, neg. pulse count
Cursor measurements:	ΔV, Δt, 1/Δt (f), V to Gnd, Vt related to Trigger point, ratio X and Y, pulse count, peak to peak, peak+, peak-, Average, Mean, standard deviation
Interface:	Dual-Interface USB type B/RS-232 (H0720), 2x USB type A (front- and rear side each 1x) max. 100 mA, DVI-D for ext. Monitor
Optional:	IEEE-488 (H0740), Ethernet/USB (H0730)

Display functions	
Marker:	up to 8 user definable marker for easy navigation
VirtualScreen:	virtual Display with 20 div. vertical for all Math-, Logic-, Bus- and Reference Signals
Busdisplay:	up to 2 busses, user definable, parallel or serial busses (option), decode of the bus value in ASCII, binary, decimal or hexadecimal, up to 4 lines
Parallel	logic channels can also be used as source for bus definition
I²C (Opt. H0010, H0011)	color coded Read-, Write Adress, Data, Start, Stop, acknowledge, missing acknowledge, Errors and Trigger condition
SPI (Opt. H0010, H0011)	color coded Data, Start, Stop, Errors and Trigger condition

UART/RS-232 (Opt. H0010, H0011)	color coded Data, Start, Stop, Errors and Trigger condition
Mathematic functions	
Number of formula sets:	5 formula sets with up to 5 formulas each
Sources:	All channels and math. memories
Targets:	Math. memories
Functions:	ADD, SUB, 1/X, ABS, MUL, DIV, SQ, POS, NEG, INV, INTG, DIFF, SQR, MIN, MAX, LOG, LN, Low-, High-pass filter
Display:	Up to 4 math. memories with label
Pass/Fail functions	
Sources:	Analog channels
Type of test:	Mask around a signal, userdefined tolerance
Functions:	Stop, Beep, screen shot (screen print-out) and/or output to printer for pass or fail, event counting up to 4 billion, including the number and the percentage of pass and fail events

General Information	
Component tester	
Test voltage:	approx. 7V _{rms} (open circuit), approx. 100 Hz
Test current:	max. 7mA _{rms} (short circuit)
Reference Potential:	Ground (safety earth)
Probe ADJ Output:	1 kHz/1 MHz square wave signal ~1V _{pp} (ta <4 ns)
Bus Signal Source	SPI, I ² C, UART, Parallel (4 Bit)
Internal RTC (Realtime clock):	Date and time for stored data
Line voltage:	90...253 V, 50/60 Hz, CAT II
Power consumption:	Max. 50 Watt at 230 V, 50 Hz
Protective system:	Safety class I (EN61010-1)
Operating temperature:	+5...+40 °C
Storage temperature:	-20...+70 °C
Rel. humidity:	5...80 % (non condensing)
Dimensions (W x H x D):	285 x 175 x 140 mm
Weight:	<2.5 kg

Accessories supplied:	Line cord, Operating manual, 2 [4] Probes, 10:1 with attenuation ID (HZ010), CD
Recommended accessories you can find at www.hameg.com/embedded	

100 MHz 2 [4] Channel Digital Oscilloscope HMO1022 [HMO1024]
70 MHz 2[4] Channel Digital Oscilloscope HMO722 [HMO724]
All data valid at 23 °C after 30 minute warm-up.

Display	see HMO2022 [HMO2024]
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Vertical System	
Channels:	
DSO mode	CH 1, CH 2 [CH 1...CH 4]
MSO mode	CH 1, CH 2, LCH 0...7 [logic channels] [CH 1, CH 2, LCH 0...7, CH 4] with Option H03508
Auxiliary input:	
Function	Frontside [Rear side]
Impedance	Ext. Trigger
Coupling	1 MΩ 13 pF ±2 pF
Max. input voltage	DC, AC
XYZ-mode:	100 V [DC + peak AC]
Invert:	All analog channels on individual choice
Y-bandwidth [-3 dB] (HMO102x):	CH 1, CH 2 [CH 1...CH 4]
(HMO72x):	100 MHz [5 mV...10 V]/div., 20 MHz [1 mV, 2 mV]/div. 70 MHz [5 mV...10 V]/div., 20 MHz [1 mV, 2 mV]/div.
Lower AC bandwidth:	2 Hz
Bandwidth limiter (switchable):	approx. 20 MHz
Rise time (calculated) (HMO102x):	<3.5 ns
(HMO72x):	<5 ns
DC gain accuracy	2 %
Input sensitivity:	13 calibrated steps
CH 1, CH 2 [CH 1...CH 4]	1 mV/div....10 V/div. [1–2–5 Sequence]
Variable	Between calibrated steps
Inputs CH 1, CH 2 [CH 1...CH 4]:	
Impedance	1 MΩ 15 pF ±2 pF
Coupling	DC, AC, GND
Max. input voltage	200 V [DC + peak AC]
Measuring circuits:	Measuring Category I [CAT I]
Position range	±10 Divs
Logic channels	With Option H03508
Select. switching thresholds	TTL, CMOS, ECL, 2 x User -2...+8 V
Impedance	100 kΩ <4 pF
Coupling	DC
Max. input voltage	40 V [DC + peak AC]

Triggering	
Analog channels:	
Automatic:	Linking of peakdetection and triggerlevel
Min. signal height	0.8 div.; 0.5 div. typ.
Frequency range (HMO102x)	5 Hz...150 MHz
(HMO72x)	5 Hz...100 MHz

Level control range	From peak- to peak+
Normal [without peak]:	
Min. signal height	0.8 div.; 0.5 div. typ.
Frequency range (HMO102x)	0...150 MHz
(HMO72x)	0...100 MHz
Level control range	-10...+10 div.
Operating modes:	Slope/Video/Logic/Pulses/Busses (optional)
Slope:	Rising, falling, both
Sources:	CH 1, CH 2, Line, Ext., LCH 0...7 [CH 1...CH 4, Line, Ext., LCH 0...7]
Coupling:	
AC (HMO152x): 5 Hz...150 MHz	
(HMO72x): 5 Hz...100 MHz	
DC (HMO152x): 0...150 MHz	
(HMO72x): 0...100 MHz	
HF (HMO152x): 30 kHz...150 MHz	
(HMO72x): 30 kHz...100 MHz	
LF: 0...5 kHz	
Noise rejection: switchable	

Video:	
Standards	PAL, NTSC, SECAM, PAL-M, SDTV 576i, HDTV 720p, HDTV 1080i, HDTV 1080p
Fields	Field 1, field 2, both
Line	All, selectable line number
Sync. Impulse	Positive, negative
Sources:	CH 1, CH 2, Ext. [CH 1...CH 4]
Logic:	AND, OR, TRUE, FALSE
Sources:	LCH 0...7
State	LCH 0...7 X, H, L
Pulses:	Positive, negative
Modes	equal, unequal, less than, greater than, within/without a range
Range	min. 16 ns, max. 268.434 ms, resolution from 16 ns until 2 μs
Sources:	CH 1, CH 2, Ext. [CH 1...CH 4]
Indicator for trigger action:	LED
Ext. Trigger via:	Auxiliary input 0.3 V...10 V _{pp}
2nd Trigger:	
Slope:	Rising, falling, both
Min. signal height	0.8 div.; 0.5 div. typ.
Frequency range (HMO102x)	0...100 MHz
(HMO72x)	0...70 MHz
Level control range	-10...+10 div.
Operating modes:	
after time	32 ns...536 ms
after incidence	1...2 ¹⁶
Busses [Opt. H0010]:	I ² C/SPI/UART/RS-232
Sources:	CH 1, CH 2, Ext., LCH 0...7 [CH 1...CH 4, Ext., LCH 0...7]
Busses [Opt. H0011]:	I ² C/SPI/UART/RS-232
Sources:	CH 1, CH 2, Ext. [CH 1...CH 4, Ext.]
Format	hexadecimal, binary
I ² C	Trigger on Start, Stop, Restart, NACK, Address (7 or 10 Bit), Data, Address and Data, up to 5 Mb/s up to 32 Bit Data, Chip select [CS] pos. or neg., without CS, up to 12.5 Mb/s
SPI	up to 8 Bit Data, up to 30 Mb/s
UART/RS-232	up to 8 Bit Data, up to 30 Mb/s

Horizontal System	see HMO2022 [HMO2024]
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Digital Storage	see HMO2022 [HMO2024]
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Operation/Measuring/Interfaces	
Operation:	Menu-driven (multilingual), Autoset, help functions (multilingual)
Save/Recall memories:	typ. 10 complete instrument parameter settings
Frequency counter:	
0.5 Hz...150 MHz (HMO102x)	6 Digit resolution
0.5 Hz...100 MHz (HMO72x)	6 Digit resolution
Accuracy	50 ppm
Auto measurements:	Frequency, Period, pulse count, V _{pp} , V _{p+} , V _{p-} , V _{rms} , V _{avg} , V _{top} , V _{base} , t _{width+} , t _{width-} , t _{dutycycle+} , t _{dutycycle-} , t _{rise} , t _{fall} , pos. edge count, neg. edge count, pos. pulse count, neg. pulse count
Cursor measurements:	ΔV, Δt, 1/Δt (f), V to Gnd, Vt related to Trigger point, ratio X and Y, pulse count, peak to peak, peak+, peak-
Interface:	Dual-Interface USB type B/RS-232 (H0720), 2x USB type A (front- and rear side each 1x) max. 100 mA, DVI-D for ext. Monitor
Optional:	IEEE-488 (H0740), Ethernet/USB (H0730)

Display functions	see HMO2022 [HMO2024]
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Mathematic functions	see HMO2022 [HMO2024]
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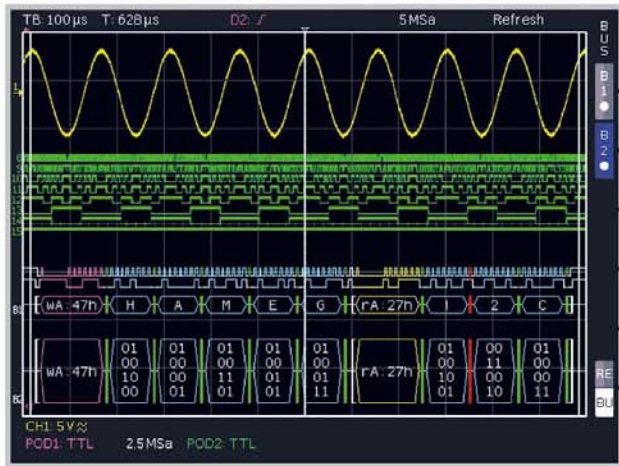
Pass/Fail functions	see HMO2022 [HMO2024]
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General Information	see HMO2022 [HMO2024]
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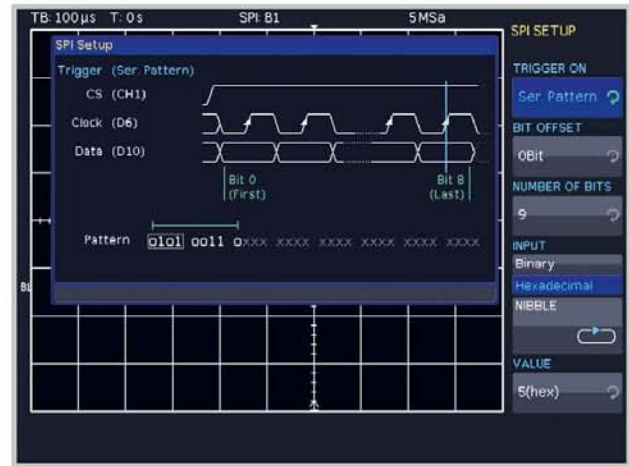
Accessories supplied:	Line cord, Operating manual, 2 [4] Probes, 10:1/1:1 switchable (HZ154), CD
Recommended accessories you can find at www.hameg.com/embedded	

	HM03522 [HM03524]	HM02524	HM02022 [HM02024]	HM01522 [HM01524]	HM01022 [HM01024]	HM0722 [HM0724]
Vertical						
Number of Channel	2 [4]	4	2 [4]	2 [4]	2 [4]	2 [4]
Bandwidth	350 MHz	250 MHz	200 MHz	150 MHz	100 MHz	70 MHz
Input Impedance	1M Ω /50 Ω	1M Ω /50 Ω	1M Ω /50 Ω	1M Ω /50 Ω	1M Ω	1M Ω
V/div. 1M Ω	1mV/div....5V/div.	1mV/div....5V/div.	1mV/div....5V/div.	1mV/div....5V/div.	1mV/div....10V/div.	1mV/div....10V/div.
Max. Input voltage 1M Ω	200Vpk					
V/div. 50 Ω	1mV/div....1V/div.	1mV/div....1V/div.	1mV/div....1V/div.	1mV/div....1V/div.	N/A	N/A
Probe Attenuation Sense	Standard					
Horizontal						
Sample Rate per Analog Channel	2 GSa/s	1.25 GSa/s	1 GSa/s	1 GSa/s	1 GSa/s	1 GSa/s
Max. Sample Rate	4 GSa/s	2.5 GSa/s	2 GSa/s	2 GSa/s	2 GSa/s	2 GSa/s
Memory Depth per Ch.	2 MPts.	2 MPts.	1 MPts.	1 MPts.	1 MPts.	1 MPts.
Max. Memory	4 MPts.	4 MPts.	2 MPts.	2 MPts.	2 MPts.	2 MPts.
Timebase Accuracy	15 ppm	15 ppm	50 ppm	50 ppm	50 ppm	50 ppm
Trigger						
Trigger Rate	2500 wfs/s	2500 wfs/s	2000 wfs/s	2000 wfs/s	2000 wfs/s	2000 wfs/s
Trigger Modes	Edge, Pulse Width, Pattern, Video incl. HDTV, A/B Trigger					
Measurement						
Cursormeasurement List	ΔV , Δt , $1/\Delta t$ (f), V to Gnd, Vt related to Trigger point, ratio X and Y, pulse count, peak to peak, peak+, peak-					
Parameter List	Frequency, Period, pulse count, V_{pp} , V_{p+} , V_{p-} , V_{rms} , V_{avg} , V_{top} , V_{base} , t_{width+} , t_{width-} , t_{duty+} , t_{duty-} , t_{rise} , t_{fall} , pos. edge count, neg. edge count, pos. pulse count, neg. pulse count					
HW Counter	6 Digit					
Advanced Math, Math on Math	Standard					
Math Functions std.	ADD, SUB, 1/X, ABS, MUL, DIV, SQ, POS, NEG, INV, INTG, DIFF, SQR, MIN, MAX, LOG, LN, Filter (low-pass, high-pass)					
Pass/Fail Mask testing	Standard					
Mixed Signal						
Mixed Signal Functionality	via Option H03508 (8 Channel) or H03516 (16 Channel)		via Option H03508 (8 Channel)			
Max. Number of Logic Channel	16	16	8	8	8	8
Sample Rate of the Digital Channel	1 GSa/s	1,25 GSa/s	1 GSa/s	1 GSa/s	1 GSa/s	1 GSa/s
Memory Depth of the Digital Channel	1 MPts.	2 MPts.	1 MPts.	1 MPts.	1 MPts.	1 MPts.
Serial Trigger and Decode						
Serial Trigger and Decode I ² C, SPI, UART/RS-232	H0010 via Analog Channels and/or Logic Channels, H0011 via Analog Channels					
Display						
Display Size	6.5 inch					
Display Resolution	640 x 480					
Virtual Screen	20 div.					
Interfaces						
Monitor Output	Standard: DVI-D					
USB Remote Interface	Standard					
RS-232 Remote Interface	Standard					
Ethernet Remote Interface	Option H0730					
GPIO Remote Interface	Option H0740					
Divers						
Fan noise	very low					
Dimension (W x H x D)	28,5 x 17,5 x 22 cm	28,5 x 17,5 x 22 cm	28,5 x 17,5 x 14 cm	28,5 x 17,5 x 14 cm	28,5 x 17,5 x 14 cm	28,5 x 17,5 x 14 cm
Footprint	627 cm ²	627 cm ²	399 cm ²	399 cm ²	399 cm ²	399 cm ²
Weight	3,6 kg	3,6 kg	2,5 kg	2,5 kg	2,5 kg	2,5 kg
Power	70 W max	70 W max	50 W max	50 W max	50 W max	50 W max
Component Tester	N/A	N/A	Standard	Standard	Standard	Standard
Bus Signal Source	Standard					
Languages	German, English, French, Spain					

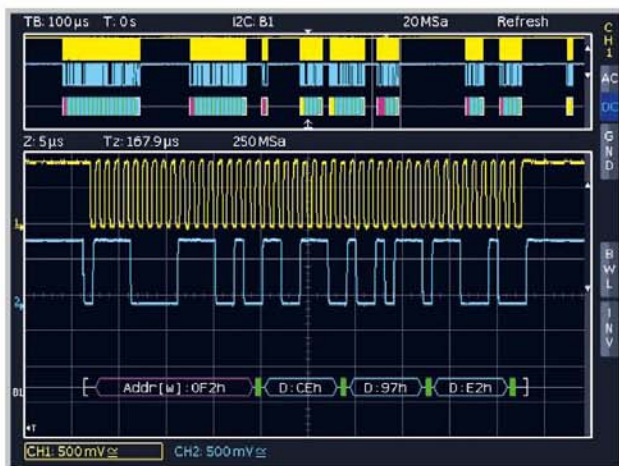
H0010/H0011 Serial Bus for all Oscilloscopes of the HMO Series



Mixed Signal and Bus Display



SPI Bus Trigger Setup



I²C Bus Hex Decode of the Analog Channels



I²C Bus ASCII and Binary Decode of the Digital Channels

- ☑ H0010 via Analog Channels and/or Logic Channels, H0011 via Analog Channels
- ☑ I²C, SPI, UART/RS-232 Bus Trigger and Decode
- ☑ Hardware accelerated Decode in Realtime
- ☑ Color Coded Display of the Content for intuitive Analysis and easy Overview
- ☑ More Details of the decoded Values come visible with increasing Zoom Factor
- ☑ Bus Display with synchronous Display of the Data and may be Clock Signal
- ☑ Decode into ASCII, Binary, Hexadecimal or Decimal Format
- ☑ Up to four Lines to show the decoded Values Comfortably
- ☑ Powerful Trigger to isolate specific Messages
- ☑ Option for all Oscilloscopes of the HMO Series, retrofittable