

The Matrix logo is displayed in a stylized, blue, lowercase font with a registered trademark symbol. It is positioned in the top left corner of the advertisement, set against a dark blue background. A lightning bolt graphic extends from the right side of the logo towards the center of the page.

Welcome to a new era of communication...
before,
you used
an
oscilloscope
from now on
you'll use
ScopiX III



- Remote control in real time on PC via the ScopiX® Webserver
- Windows Mobile, Windows (...) / Wifi FTP connection via external access point
- «Windows-like» commands and menus
- Ergonomic and intuitive
- 4 isolated channels, 600 V CAT. III
- Bandwidth of 100 or 200 MHz
- 2 GB storage on MicroSD card
- TFT colour touch screen with backlighting

5 instruments in 1!

All the ScopiX® models are simultaneously oscilloscopes, multimeters, FFT analysers, harmonic analysers and recorders. From simple diagnostics to in-depth surveys, for benchtop or hand-held use in the lab or in the field, ScopiX® combines ergonomic design, high safety performance and communication.



Scopix III 7042, 7062, 7102, 7202, 7104, 7204

TECHNICAL SPECIFICATIONS	OX 7042 ⁽¹⁾	OX 7062	OX 7102	OX 7202	OX 7104	OX 7204
MAN-MACHINE INTERFACE						
Type of display	B&W LCD, 5.7" (115 x 86 mm) - 320 x 240 - CCFL backlighting (adjustable shutdown function) or colour TFT LCD, 5.7" (115 x 86 mm) - 320 x 240 - LED backlighting (adjustable shutdown function)					
Screen commands	Touch screen - «Windows-like» menus and graphic commands					
Choice of language	5 complete languages, menus and online help (French, English, German, Spanish and Italian)					
OSCILLOSCOPE MODE						
Vertical deflection						
Bandwidth	40 MHz	60 MHz	100 MHz	200 MHz	100 MHz	200 MHz
Number of channels	2 isolated channels			4 isolated channels		
Vertical sensitivity	16 calibres from 2.5 mV to 200 V/div and up to 156 µV/div in vertical zoom mode (12-bit converter) - Accuracy ± 1 %					
Vertical zoom	«One Click Winzoom» system (12-bit converter and direct on-screen graphic zoom) - x 16 max					
Probe factors	1 / 10 / 100 / 1000 or any scaling - Definition of measurement unit					
Horizontal zoom						
Sweep speed	35 calibres from 1 ns/div to 200 s/div., accuracy ± 0.1 % - Roll mode from 100 ms to 200 s/div					
Horizontal zoom	One Click Winzoom» system (direct on-screen graphic zoom) - x 100 max					
Triggering						
Mode	On all channels: automatic, triggered, one-shot, auto level 50 %					
Type	Edge, pulse width (20 ns to 20 s), delay (120 ns to 20 s), counting (3 to 16,384 events), TV frame or no. of lines (525 = NTSC or 625 = PAL/SECAM) - Continuous adjustment of Trigger position					
On measurement window	On one of the 16 automatic measurements - Automatic acquisition and storage of faults					
Digital memory						
Maximum sampling rate / resolution	100 GS/s in ETS mode - 2.5 GS/s on each channel in one-shot mode - 12 bits (vertical resolution 0.025 %)					
Memory depth	2,500 points/channel and up to 50,000 points/channel with the Extended Acquisition Memory option					
User memory - «Windows-like» file management	2 MB for storing various types of files: trace, text, configuration, MATH functions, print file, image files, etc.+ large-capacity removable SD Card (512 MB to 2 GB)					
GLITCH and averaging modes	2 ns GLITCH mode, Envelope mode, Averaging (factors 2 to 64), XY mode					
Other functions						
FFT analyser and MATH functions	FFT (Lin or Log) with measurement cursors - +, -, x and / functions and mathematical function editor					
Cursors	2 or 3 cursors: V and T simultaneously or Phase - 12-bit resolution, 4-digit display					
Automatic measurements	19 time-based or level-based measurements, Phase measurement - 12-bit resolution, 4-digit display					
MULTIMETER MODE						
General specifications	2 or 4 channels - 8,000 cts max. + min/max bargraph - TRMS - Time-date-stamped graphic recording (5 min to 31 days)					
AC, DC and AC+DC voltages	600 mV to 600 Vrms, 800 mV to 800 Vdc - Accuracy Vdc 0.5 %R + 5D - Bandwidth 200 kHz					
Triggering on measurement window	2 or 4 monitored channels, possibility of setting fault duration - Up to 100 time/date-stamped faults stored in a .TXT file					
Active power and PF	Single-phase, balanced three-phase (OX 7104 or OX 7204) with or without neutral and by the 2-wattmeter method					
Resistance	80W to 32 MW - accuracy 0.5 %R + 25 D - 10 ms quick continuity test					
Other measurements	Temperature (HX0035 = K thermocouple, HX0036 = Pt 100) - Capacitance from 5 nF to 5 mF - Frequency 200 kHz - 3.3 V diode test					
HARMONIC ANALYSER MODE (option)						
Multi-channel analysis	2 or 4 (depending on model), 61 orders, fundamental frequency from 40 to 450 Hz in auto or manual mode					
Simultaneous measurements (voltage/current)	Total RMS value, THD and selected order (% fundamental, phase, frequency, RMS value)					
Single-phase and balanced 3-phase power	Harmonic analysis on the apparent power, with «received/emitted» identification for each order					
RECORDER MODE (option)						
Duration / sampling interval	2 s to 1 month / 800 µs to 18 min (40 µs to 53 s with the Extended Acquisition Memory option)					
Recording conditions	On thresholds or windows, simultaneous conditions on several channels, with adjustable duration from 160 µs					
Analysis of recordings	Scale and physical units, automatic or cursor measurements, searching among time/date-stamped faults, zoom, etc.					
General specifications						
Printing	Network printer via 10 Mb Ethernet (standard), RS232 (standard), or Centronics (option)					
PC communication	10 Mb local Ethernet, USB or RS 232 (option) (max. 115 kb/s) - «Sx-Metro» PC application software (option)					
Network	10 Mb remote Ethernet, Web server (remote control, «real-time» trace, cursors and automatic measurements)FTP server (file transfers with a PC), FTP client (storage on PC hard disk - unlimited capacity), SCOPEADMIN utility					
Mains power supply	NiMH battery - Battery life up to 4 h - Adjustable auto-shutdown - Multi-voltage fast charger/adaptor (standard) - 98-264 V / 47-63 Hz / (15 W)					
Safety / EMC	Safety as per IEC 61010-1 (2001) - EMC as per EN61326-1 - 600 V CAT III					
Mechanical specifications	265 x 195 x 56 mm - 1.9 kg with batteries - IP51 protection (IP41 for OX 7104 and OX 7204)					

Ref. to order	State at delivery	Ref. to order	State at delivery
• OX7042-MSD • OX7042-CSD • OX7062-CSD • OX7102-CSD • OX7202-CSD • OX7204-CSD	Oscilloscope with:mains adapter/charger, NiMH battery pack - 9.6 V - 3.8 A/h,HX0030(A) 1/10 ProbiX probe, HX0031 BNC ProbiX adapter,ProbiX HX0033 USB Ø 4 mm banana adapter, set of Ø 4 mm banana leads, HX0040 crossed Ethernet cable, HX0084 USB cable, magnetic stylus, MicroSD-Card with minimum capacity of 512 MB and SD-Card adapter,strap and operating/programming manual on CD-Rom.	• OX7104-CSDK • OX7042P-CSDK • OX7104P-CSDK	Ditto plus:HX0030(A) 1/10 ProbiX probe, HX0031 BNC ProbiX adapter, HX0039 straight Ethernet cable, SX-METRO/P processing software and carrying case. Same as CSDK version plus:all software options installed, HX0072 and HX0073 FLEX current probes,2 HX0071 industrial accessory kits for HX0030A probes.

In **ELECTRONICS MAINTENANCE**, the **OX 7202** and the **OX 7204 (200 MHz)** will be particularly appreciated, with their 2 or 4 isolated channels (600 V Cat. III), their advanced triggering functions, their built-in FFT function, their mathematical calculations on curves and their WEB Server.

INDUSTRIAL MAINTENANCE professionals will find the **OX 7042s'** extra-large monochrome or colour screen, 40 MHz bandwidth, 2 isolated channels (600 V Cat. III) and harmonic analyser module (option) particularly attractive.