

Models OX7102<sup>III</sup> & OX7104<sup>III</sup>

**Rugged, self-contained,  
handheld oscilloscope with  
100MHz bandwidth**



## SPECIFICATIONS

MODELS	OX7102 <sup>III</sup>		OX7104 <sup>III</sup>
INTERFACE			
Screen Specifications	Color 5.7" LCD (115 x 86mm) 320 x 240 – CCFL backlighting		
Display Mode	Vectors with interpolation		
No. of Traces on Screen	Four traces and four references – split screen and full screen modes (tracing zone 110 x 74)		
Front Panel Control	32 direct shortcuts		
Screen Control	Touch screen – Windows-like menus and graphic commands		
VERTICAL			
Vertical Sensitivity	16 ranges from 2.5mV – 200V/div and up to 156μV/div in verticle zoom mode (12-bit converter) – Accuracy ± 1% of Reading		
Bandwidth	100MHz		
Channels	Two isolated channels	Four isolated channels	
Accuracy	±0.1% of Reading		
Input Impedance	1MΩ ± 0.5%		
Max Input Voltage	600Vdc, 600Vrms, 850Vpk (DC + peak AC at 1kHz) without 10/1 probe 1000Vrms with 10/1 probe derating -20 dB/decade from 100kHz to 100MHz		
Vertical Zoom	Zoom factor: from 1 to x 100		
HORIZONTAL			
Time Base Speed	35 ranges from 1ns/div to 200s/div		
Accuracy	± 0.1% – Roll mode from 100ms to 200s/div		
Horizontal Zoom	x100 maximum		
DIGITAL MEMORY			
Max. Sampling Speed	100GS/s in ETS – 2.5GS/s in Single Shot Mode on each channel		
Vertical Resolution	12 bits		
Memory Capacity per Channel	“TRC” approx. 10kB, “TXT” approx. 20kB		
User Memory	2MB		
Other Modes	Envelope mode (Factors from 2 to 64)		
XY Mode	Between two from the four traces – math functions and cursors		
OTHER FUNCTIONS			
Autoset	Complete autoset < 3s with recognition of channels, Frequency >30Hz		
Trigger Mode	Automatic Triggered, Single shot, Auto Level 50%		
FT Analyzer & Math Functions	FT, +, –, x, / – Editor of mathematical functions		
Cursors	Two or three cursors: V and T simultaneous or Phase Resolution 12 bits, display four digits		
Power Source	Rechargeable 9V 3.8Ah battery (included)		
Battery Life	Four hour operation when fully charged		
Communication	Ethernet, RS-232, Web Server		



## FEATURES

- 5 complementary tools in a single instrument: oscilloscope, FFT analyzer, multimeter/wattmeter, harmonic analyzer on voltage/current/power and recorder
- Sampling rate 2.5GS/s in one-shot mode and 100GS/s in ETS mode (repetitive signals)
- 2 or 4 isolated measurement channels (600V CAT III) and up to 8 traces on screen
- 2 or 4 independent TRMS digital multimeters (8000 counts, 200kHz)
- LCD touch screen and Windows-like menus on screen
- Probix "plug & play" input terminals and smart sensors
- Standard "real-time" FFT analysis and calculation functions on channels
- Multi-interface communication connectors: USB, Centronics and Ethernet
- Memory depth of up to 50,000 points per channel (oscilloscope and recorder modes)
- Triggering on measurement thresholds in oscilloscope and multimeter modes
- Adapter for measuring up to 700VAC RMS 1000Vdc in meter mode
- Web Server (FTP server/client) with cursors and automatic measurements
- MiniFlex<sup>®</sup> sensors, powered by the instrument (sold as accessory)
- Power measurement option included for power measurements

## PRODUCT INCLUDES

OX7102<sup>III</sup> & OX7104<sup>III</sup> Kit

Aluminum carrying case, two red and black 1.5m color-coded leads with needle probe tips, two PROBIX PRHX1 1/10 Probes 250MHz (600V CAT III), two red and black grip probes, two stylus, two Ethernet cables (one straight/one crossover), two for OX7102 & four for OX7104 PROBIX 4mm banana plug adapters; one US power adapter (115/230V), one 110V US power cord, one NiMH 9.6V battery pack, SX-METRO software on CD-ROM, Recorder/Harmonic/Power/50K memory option (installed) and user manual on CD-ROM.



### Models OX7202<sup>III</sup> & OX7204<sup>III</sup>

**Rugged, self-contained,  
handheld oscilloscope with  
200MHz bandwidth**



#### FEATURES

- 5 complementary tools in a single instrument: oscilloscope, FFT analyzer, multimeter/wattmeter, harmonic analyzer on voltage/current/power and recorder
- Sampling rate 2.5GS/s in one-shot mode and 100GS/s in ETS mode (repetitive signals)
- 2 or 4 isolated measurement channels (600V CAT III) and up to 8 traces on screen
- 2 or 4 independent TRMS digital multimeters (8000 counts, 200kHz)
- LCD touch screen and Windows-like menus on screen
- Probix "plug & play" input terminals and smart sensors
- Standard "real-time" FFT analysis and calculation functions on channels
- Multi-interface communication connectors: USB, Centronics and Ethernet
- Memory depth of up to 50,000 points per channel (oscilloscope and recorder modes)
- Triggering on measurement thresholds in oscilloscope and multimeter modes
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#### SPECIFICATIONS

MODELS	OX7202 <sup>III</sup>		OX7204 <sup>III</sup>
INTERFACE			
Screen Specifications	Color 5.7" LCD (115 x 86mm) 320 x 240 – CCFL backlighting		
Display Mode	Vectors with interpolation		
No. of Traces on Screen	Four traces and four references – split screen and full screen modes (tracing zone 110 x 74)		
Front Panel Control	32 direct shortcuts		
Screen Control	Touch screen – Windows-like menus and graphic commands		
VERTICAL			
Vertical Sensitivity	16 ranges from 2.5mV – 200V/div and up to 156µV/div in verticle zoom mode (12-bit converter) – Accuracy ± 1% of Reading		
Bandwidth	200MHz		
Channels	Two isolated channels	Four isolated channels	
Accuracy	±0.1% of Reading		
Input Impedance	1MΩ ± 0.5%		
Max Input Voltage	600Vdc, 600Vrms, 850Vpk (DC + peak AC at 1kHz) without 10/1 probe, 1000Vrms with 10/1 probe derating -20 dB/decade from 100kHz to 200MHz		
Vertical Zoom	x5 maximum		
HORIZONTAL			
Time Base Speed	35 ranges from 1ns/div to 200s/div		
Accuracy	± 0.1% - Roll mode from 100ms to 200s/div		
Horizontal Zoom	x100 maximum		
DIGITAL MEMORY			
Max. Sampling Speed	100GS/s in ETS – 2.5GS/s in Single Shot Mode on each channel		
Vertical Resolution	12 bits		
Memory Capacity per Channel	“TRC” approx. 10kB, “TXT” approx. 20kB		
User Memory	2MB		
Other Modes	Envelope mode (Factors from 2 to 64)		
XY Mode	Between two from the four traces – math functions and cursors		
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Autoset	Complete autoset < 3s with recognition of channels, Frequency >30Hz		
Trigger Mode	Automatic Triggered, Single shot, Auto Level 50%		
FT Analyzer & Math Functions	FT, +, -, x, / – Editor of mathematical functions		
Cursors	Two or three cursors: V and T simultaneous or Phase Resolution 12 bits, display four digits		
Power Source	Rechargeable 9V 3.8Ah battery (included)		
Battery Life	Four hour operation when fully charged		
Communication	Ethernet, RS-232, Web Server		

#### PRODUCT INCLUDES

##### OX7202<sup>III</sup> & OX7204<sup>III</sup> Kit



Aluminum carrying case, two PROBIX PRHX1 1/10 Probes 250MHz (600V CAT III), two red and black 1.5m color-coded leads with needle probe tips, two red and black grip probes, two stylus, two Ethernet cables (one straight/one crossover), two for OX7202 & four for OX7204 PROBIX 4mm banana plug adapters, one US power adapter (115/230V), one 110V US power cord, one NiMH 9.6V battery pack, one 512MB SD memory card, SX-METRO software on CD-ROM, Recorder/Harmonic/Power/50K memory option (installed) and user manual on CD-ROM.



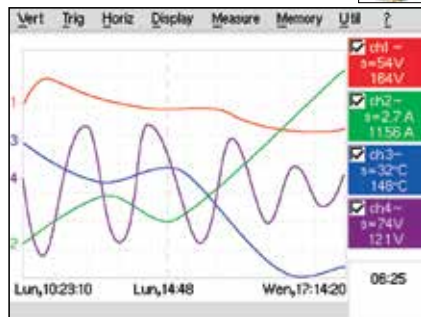
# HANDHELD OSCILLOSCOPES

OX<sup>III</sup> Series

## Models OX7102<sup>III</sup>, OX7104<sup>III</sup>, OX7202<sup>III</sup> & OX7204<sup>III</sup>

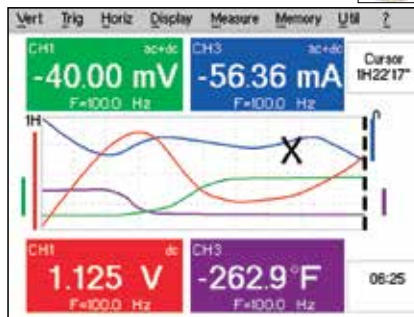
### Four Tools in One!

#### Recorder



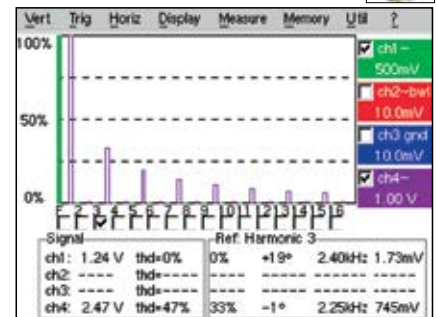
The OX<sup>III</sup> Series supports a great variety of sensors (voltage, current, temperature, 0 to 10V, 4 to 20mA, etc) and displays them in their original physical scale and units.

#### Multimeter



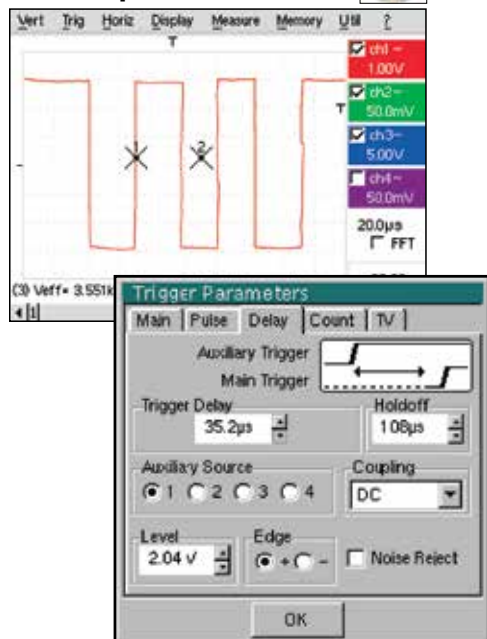
Automatic recording of the measured values are stored in memory on all active channels allowing review of periods lasting from five minutes to 24 hours.

#### Analyzer



Harmonic analysis results are displayed in bargraph form.

#### Oscilloscope



Triggering menu allows selection of type, duration, delay, count and more using touch screen drop-down menu.

### OPTIONAL ACCESSORIES

#### Probe options for Models OX<sup>III</sup> Series Oscilloscopes

**AmpFlex® 0.5A to 3kA, 200kHz**  
Catalog #2124.91



**MiniFlex® 0.5A to 300A, 3mHz**  
Catalog #2124.92



**PROBIX PRHX5 50Ω Adapter**  
Catalog #2124.75



**PROBIX 4 to 20mA Adapter**  
Catalog #2124.99



**PROBIX 20mA to 20A Current Probe**  
Catalog #2124.77



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CATALOG NO.	DESCRIPTION
2124.58	Handheld Oscilloscope Model OX7102 <sup>III</sup> 100MHz (2 x 100MHz, Color, 50k memory, Harmonics, Recorder, Power)
2124.59	Handheld Oscilloscope Model OX7202 <sup>III</sup> 200MHz (2 x 200MHz, Color, 50k memory, Harmonics, Recorder, Power)
2124.67	Handheld Oscilloscope Model OX7104 <sup>III</sup> 100MHz (4 x 100MHz, Color, 50k memory, Harmonics, Recorder, Power)
2124.68	Handheld Oscilloscope Model OX7204 <sup>III</sup> 200MHz (4 x 200MHz, Color, 50k memory, Harmonics, Recorder, Power)
<b>Accessories (Optional)</b>	
2124.75	PROBIX PRHX5, 50Ω Adapter
2124.91	AmpFlex® 0.5A to 3kA, 200kHz for use with Oscilloscope OX Series
2124.92	MiniFlex® 0.5A to 300A, 3MHz for use with Oscilloscope OX Series