

Models OX7202^{III} & OX7204^{III}

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



SPECIFICATIONS

MODELS	OX7202 ^{III}	OX7204 ^{III}
INTERFACE		
Screen Specifications	Color LCD 5.7" (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	
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	

PRODUCT INCLUDES

OX7202^{III} & OX7204^{III} 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.



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[®] sensors, powered by the instrument (sold as accessory)
- Power measurement option included for power measurements



Models OX7102^{III} & OX7104^{III}

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



► SPECIFICATIONS

MODELS	OX7102 ^{III}	OX7104 ^{III}
INTERFACE		
Screen Specifications	Color LCD 5.7" (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	
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- Memory depth of up to 50,000 points per channel (oscilloscope and recorder modes)
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- Adapter for measuring up to 700VAC RMS 1000VDC in meter mode
- Web Server (FTP server/client) with cursors and automatic measurements
- MiniFlex[®] sensors, powered by the instrument (sold as accessory)
- Power measurement option included for power measurements



► PRODUCT INCLUDES

OX7102^{III} & OX7104^{III} Kit

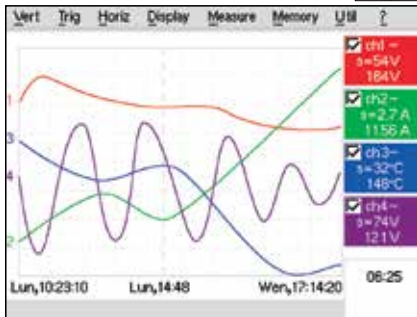
Aluminum carrying case, two red and black 1.5m color-coded leads with needle probe tips, two PROBIX PRHX1 1/10 Probes 250MHz (600V CAT III), two red and black grip probes, two stylus, two Ethernet cables (one straight/one crossover), two for OX7102 & four for OX7104 PROBIX 4mm banana plug adapters; one 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 OX7102^{III}, OX7104^{III}, OX7202^{III} & OX7204^{III}

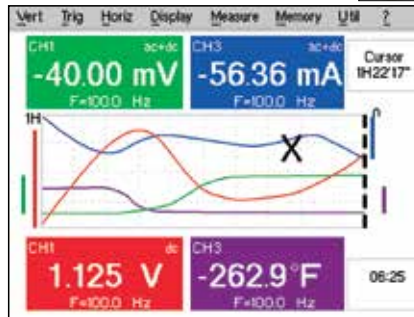
Four Tools in One!

Recorder



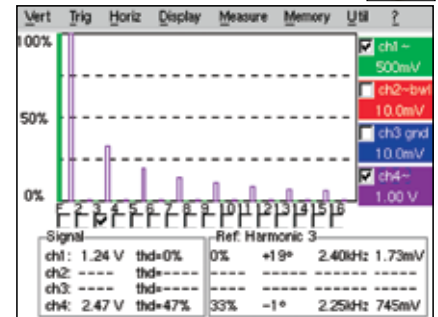
The OX^{III} Series supports a great variety of sensors (voltage, current, temperature, 0 to 10V, 4 to 20mA, etc) and displays them in their original physical scale and units.

Multimeter



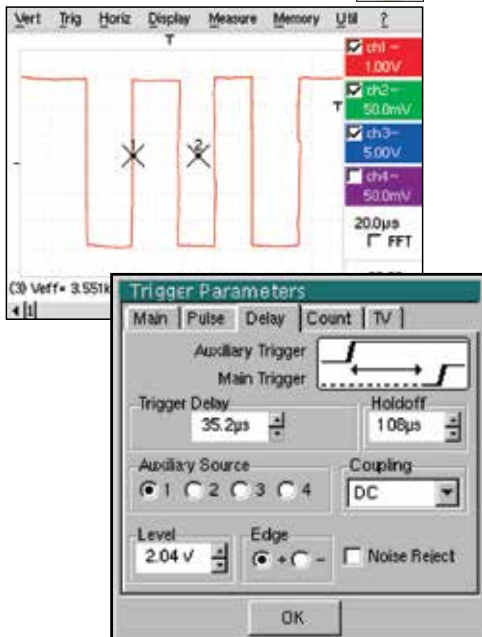
Automatic recording of the measured values are stored in memory on all active channels allowing review of periods lasting from five minutes to 24 hours.

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^{III} 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



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CATALOG NO.	DESCRIPTION
2124.58	Handheld Oscilloscope Model OX7102 ^{III} 100MHz (2 x 100MHz, Color, 50k memory, Harmonics, Recorder, Power)
2124.59	Handheld Oscilloscope Model OX7202 ^{III} 200MHz (2 x 200MHz, Color, 50k memory, Harmonics, Recorder, Power)
2124.67	Handheld Oscilloscope Model OX7104 ^{III} 100MHz (4 x 100MHz, Color, 50k memory, Harmonics, Recorder, Power)
2124.68	Handheld Oscilloscope Model OX7204 ^{III} 200MHz (4 x 200MHz, Color, 50k memory, Harmonics, Recorder, Power)

Accessories (Optional)

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

Oscilloscope & BNC Terminated Probes

Oscilloscope current probes expand oscilloscope applications in industrial or power measurement environments, and are ideal for analysis and measurement of distorted current waveforms and harmonics

MODEL	MEASUREMENT RANGE		OUTPUT SIGNAL	PHASE SHIFT*	MAXIMUM CONDUCTOR SIZE		OUTPUT CONNECTION
	AC	DC	VOLTAGE		Ø CABLE	BUS BAR	
 SL261	100mA to 10A 1 to 100A	100mA to 10A 1 to 100A	100mV/AC/DC 10mV/AC/DC	<1.5°	0.46" (11.8mm)	N/A	Lead w/BNC UL
 MN261	0.1 to 24A 0.5 to 240A	—	100mV/AC/AC 10mV/AC/AC	<2.5°	0.78" (19.8mm)	N/A	Lead w/BNC UL
 MR461	0.2 to 40A 0.5 to 400A	0.4 to 60A 0.5 to 600A	10mV/AC/DC 1mV/AC/DC	<1.5°	One 1.18" (30mm) Two 0.95" (24mm) 2 x 500kcmil	Two 1.2 x 0.4" (31.5 x 10mm)	Lead w/BNC
 MR561	0.2 to 100A 0.5 to 1000A	0.4 to 150A 0.5 to 1500A	10mV/AC/DC 1mV/AC/DC	<1.5°	One 1.5" (39mm) Two 0.98" (25mm)	One 1.96 x 0.49" (50 x 12.5mm) Two 1.96 x 0.19" (50 x 5mm)	Lead w/BNC
 SR661	0.1 to 12A 0.1 to 120A 1 to 1200A	—	100mV/AC/AC 10mV/AC/AC 1mV/AC/AC	<1°	2.05" (52mm)	1.96 x 0.19" (50 x 5mm)	Lead w/BNC UL
 JM861	1 to 30A 1 to 300A 1 to 3000A	—	10mV/AC/AC 1mV/AC/AC 0.1mV/AC/AC	<1°	2.52" (64mm) 2.52 x 3.94" (64 x 100mm)	1.97 x 5.31" (50 x 135mm)	Lead w/BNC

*Phase shift indicated at maximum rating.

Note: All probes are rated 600V CAT III and CE compliant. Not all models are UL approved; please consult factory.

CATALOG NO.	DESCRIPTION
1201.51	AC/DC Current Probe Model SL261 (10A-100mV/A, 100A-10mV/A, BNC)
2115.82	AC Current Probe Model MN261 (24A-100mV/A, 240A-10mV/A, BNC)
1200.72	AC Current Probe Model MR461 (60A-10mV/A, 600A-1mV/A, BNC)
1200.73	AC Current Probe Model MR561 (150A-10mV/A, 1500-1mV/A, BNC)
2113.49	AC Current Probe Model SR661 (10A-100mV/A, 100A-10mV/A, 1000A-1mV/A, BNC)
2110.90	AC Current Probe Model JM861 (30A-10mV/A, 300A-1mV/A, 3000A-0.1mV/A, BNC)