# OSCILLOSCOPES HANDSCOPE

### **MODEL 0X 5042**

One of the few oscilloscopes on the market with isolated channels that fit into one hand



## **SPECIFICATIONS**

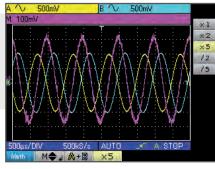
3.5" color TFT LCD screen; Resolution 320 x 240 – LED backlighting
Direct adjustments on front panel & on-screen menus via browser (principal & secondary without "hidden menus")
2500 real acquisition points on screen
2 curves + 2 references + memory trace or mathematical calculation
11 languages: French, English, German, Spanish, Italian, Swedish,
Romanian, Russian, Finnish, Polish, Dutch
40MHz
1.5MHz, 5kHz
2 totally isolated channels
1MΩ ±0.5%, approx. 17pF
600V – Derating -20dB per decade from 100kHz
5mV to 200V/div
25ns/div to 200s/div - Roll Mode from 100ms to 200s/div
Zoom factor: x1, x2, x5
Automatic, triggered, one-shot & triggered Roll
Edge, pulse width (20ns – 20s)
AC or DC (depending on the coupling of the triggering channel) HF, LF or noise rejection
< 1.2 divisions p- p up to 40MHz
2GS/s in ETS mode – 50MS/s in one-shot mode on each channel
9 bits
2500 points per channel
2MB for storing files: trace (.trc), text (.txt), configuration (.cfg), image files (.bmp)
Duration ≥ 20ns – 1250 min/max pairs
Envelope, Averaging (factors 2 to 64) and XY (vector)
Channel inversion, addition, subtraction, multiplication and division (adjustable scaling)
2 cursors: V, T, dV, dt simultaneously – 4-digit display resolution
18 time or level measurements and phase measurement
2 channels, 8000-count display + min/max bargraph – Graphic recording of 2700 measurements (5min to 1 month)
Absolute or relative display (absolute, deviation, ref, ref%) – Monitoring (instantaneous, min, max, Avg)
Ranges from 600mV to 600Vrms, 800mV to 800Vpc – accuracy for Vpc $\pm 1\%$ reading+20D –50kHz bandwidth
Range from 80 $\Omega$ to 32M $\Omega$ - accuracy ±2% reading + 10D -10ms quick continuity test
Ranges from 5nF to 5mF - basic accuracy ±2% reading + 10D
Frequency, rotation speed, 3.3V diode test, temperature measurement (with K-type thermocouple or infrared probe)
Single-phase and balanced three-phase active power values (with or without neutral), simultaneous display of current
2 channels, 31 orders, fundamental frequency from 40 to 450Hz
Total VRMS, THD and selected order (% fundamental, phase, frequency, VRMs)
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Up to 100 files in standard ".bmp" format, viewable on the instrument
Isolated optical USB interface "SX-Metro" PC application software (included)
6 LR6 or 6AA NiMh batteries – Battery life up to 8hrs 30min
Universal line adapter isolated from the channels – Quick charging in 2hrs 30min



## OSCILLOSCOPES HANDSCOPE

### **Functional Displays**

#### **HIGH PERFORMANCE**



FEATURES

- Two isolated channels
- Three instruments in one
- 40MHz oscilloscopeDouble 8000-count TRMS
- Harmonic analyzer
- 3.5" color LCD screen LED backlighting technology
- Integrated interactive multilingual help function
- 2MB recording data

CATALOG NO

- Store graphic recordings of 2700 measurements (5 min to 1 month)
- Communication via isolated USB SCPI protocol

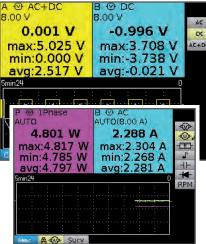


Shown: Model 2150.22 and 2150.23

DESCRIPTION

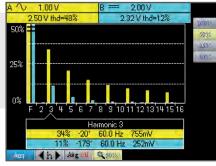
Automatically displays measurements for both isolated channels from your choice of 19 measurement types.

## TWO INDEPENDENT 8000-COUNT TRMS DIGITAL MULTIMETERS



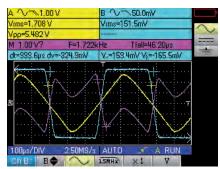
Instantly displays measurements in multimeter mode at the press of a button.

#### HARMONIC ANALYZER



Measures two channels of individual harmonic content up to the 31st harmonic.

## STORAGE COMMUNICATION & PC SOFTWARE



View real-time measurements on your PC, configure the Handscope, export data to spreadsheet using the SX-Metro included software.

### **KITS INCLUDE**

#### 2150.21

Meter, small classic tool bag, US Wall plug, USB Cable, Set of 2, 10 ft. Color-coded Leads (red/black), Set of 2, Color-coded Alligator Clips (red/black), Set of 2, color-coded Probes (red/black), BNC Adapter, 2 Probe 10:1 600V BNC male, 1.2V NiMH rechargeable batteries, quick start guide, and USB drive with software and user manual.

#### 2150.22

Meter, field case, US Wall plug, USB Cable, Set of 2, 10 ft. Color-coded Leads (red/black), Set of 2, Color-coded Alligator Clips (red/black), Set of 2, Color-coded Probes (red/black), BNC adapter, 1- Probe 10:1 600V BNC male, AC Current Probe Model MN251T, MiniFlex<sup>\*</sup> Sensor 3000-24-1-1, 1.2V NiMH rechargeable batteries, quick start guide, and USB drive with software and user manual.

#### 2150.23

Meter, field case, US Wall plug, USB Cable, Set of 2, 10 ft. Color-coded Leads (red/black), Set of 2, Colorcoded Alligator Clips (red/black), Set of 2, Color-coded Probes (red/black), BNC adapter, 1- Probe 10:1 600V BNC male, AC Current Probe Model MN379T, MiniFlex\* Sensor 3000-24-1-1, 1.2V NiMH rechargeable batteries, quick start guide, and USB drive with software and user manual.

CATALUU NU.	DESCRIPTION
2150.21	Handscope Portable Oscilloscope Model OX 5042
2150.22	Handscope Model OX 5042 w/MN251T & MF 3000-24-1-1 {BNC Output}
2150.23	Handscope Model OX 5042 w/MN379T & MF3000-24-1-1 (BNC output; Low AC current measurement)

