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MTX162UE

MTX162UEW

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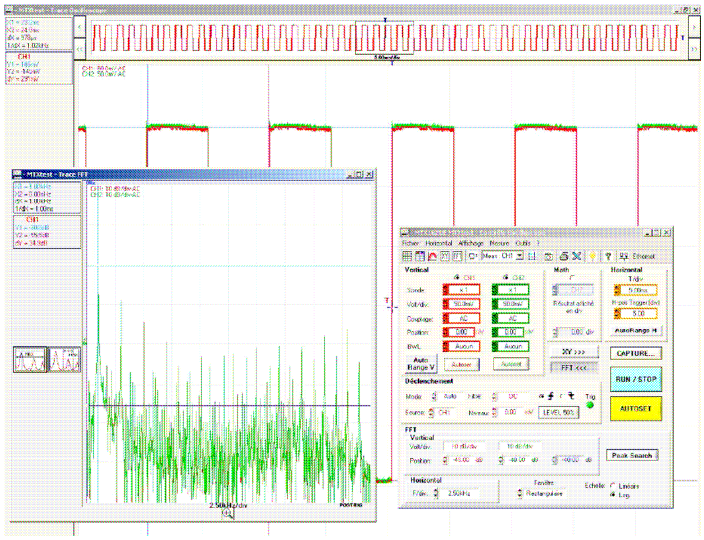
MTX162UE
MTX162UEW

Oscilloscope - FFT Analyser - Recorder
2 channels, 60MHz, cost effective on PC





Differential inputs adapters MTX1032



Compact, cost effective and user friendly, this “in@BOX” virtual measurement instrument includes all the performance and know-how that make Metrix® oscilloscopes so outstanding.

Genuine Instrument, …and PC environnement (multi-display, storage, communication,…) :

- **« Dual Time Base » OSCILLOSCOPE,** with 2 simultaneous trace windows
  Normal or remanent displaying (**“Analog-oscilloscope”**-type trace») *New!*
  Memory depth **50 000 samples per channel**
  Vertical Sensivity from **5mV/div to 100V/div**
  User friendly : selectable **« Vertical Autorange »** & **« Horizontal Autorange »** *New!*
  19 automatic measurements in single window & **Manual cursors** measurements
- **600V/CATIII DIFFERENTIAL INPUTS** (in association with MTX1032-B adapter)
- **2 channels « Real time » FFT ANALYSER,** linear (Volt) or logarithmic (dB) scale
- **2 channels RECORDER** (ROLL mode from 2s to 33mn)
- Communication : **USB, Ethernet and Wifi** (Mtx162UEW) *New!*
- **Automatic detection of Instruments available for communication** *New!*
  (for both USB and Ethernet communication modes)
- **Electrical Safety** according to IEC61010-1, **300V/CATII (user protected by earthing)**
- **Made in France – 3 years warranty**

metrix®

Mtx162 : Digital / Analog Oscilloscope on PC

Technical Features	MTX162
MAN-MACHINE INTERFACE	
Display type	Colour PC screen (min. resolution: 1024 x 768)
Display mode	8 x 10 div.- Multi-windowing (control panel, full trace, zoomed trace, FFT, XY, measurements, …)
Curves displaying on screen	2 curves + 2 references + Maths function - Full or border Grid 2500 real acquisition dots on screen (« all acquisition » mode, without information missing) Vectors displaying mode with interpolation, or Remanent mode (« analog-oscilloscope »-type trace)
Screen commands	All commands available from mouse, "Windows-like" menus & online help – keyboard shortcuts
Choice of language	By menu, five complete languages (French, English, German, Spanish and Italian)
OSCILLOSCOPE MODE	
Vertical deviation	
Bandwidth	60 MHz (bandwidth limiter : 15 MHz, 1.5 MHz or 5 kHz)
Number of channels - Impedance	2 channels, class 1, common earth reference - 1 MΩ ± 1%, 13pF ± 2pF
Curves information displaying	Channel number, ground reference indicator and trace with same channel affected colour
Maximum input voltage	300 V -CAT II - Maximum input voltage 420 Vpk without probe
Vertical sensitivity & accuracy	14 settings from 5 mV to 100 V/div - Accuracy ± 2% - Displaying in trace area selectable
« Vertical AutoRange » Mode	Automatic and dynamic sensivity adjustment of Oscilloscope to signal amplitude
Probe ratio compensation	1 / 10 / 100 / 1 000
Horizontal deviation	
Time Base range	32 settings from 5 ns/div to 100 s/div. Dedicated Roll mode from 200ms to 200s/div (recording duration from 2s to 33mn20s)
« Horizontal AutoRange » Mode	Automatic and dynamic time base adjustment of Oscilloscope to signal frequency
« Real time » dual Time Base	Simultaneous displaying of complete acquisition and zoomed portion with 2500 samples each
Horizontal zoom	« Real Time » (see Dual Time Base), or from full 50 000 samples memory transfer (« Capture » mode)
Trigger	
Source / Mode	CH1, CH2, mains / Automatic, Triggered, Single, Roll
Type	Rising or falling edge - adjustable or auto 50% level - Pre-triggering adjustment from 0 to 100 %
Coupling	AC, DC, HFR (HF rejection), LFR (LF rejection)
Sensivity	0.5 div up to 10 MHz, 1.5 div from 10 MHz to 100 MHz , triggering level adjustment within ± 8 div.
Displaying	Level, position and coupling symbol in trace area, displayed in trigger source channel affected colour
Digital memory	
Maximum sampling rate	Periodic = 20 Gs/s – Single shot = 50 Ms/s (on each channel) - accuracy ± 200ppm
Vertical resolution	8 bits (vertical resolution 0.4%)
Memory depth	Acquisition depth = 50 000 samples – « non-limited » storage capacity (depends on PC configuration)
Storage managing	Trace or text files (Windows compatible) for traces and configuration Printing files (depending on Windows printing environment configuration)
GLITCH mode	Detection & displaying of Min & Max amplitudes between 2 acquisition samples - Event duration ≥ 20 ns
Displaying modes	Vector, Envelop, Averaging (from 2 to 16 factor) or remanent (« analog-oscilloscope »-type trace)
XY Mode	CH2 versus CH1 - Simultaneously with « X(t) » mode
Other functions	
AUTOSET	Complete in less than 5 s, with channel selection – Frequency > 30Hz
MATH functions on waveforms	« Real time » math trace : -CH1, -CH2, addition , subtraction , multiplication or division
FFT Analyser	2500 dots Lin or Log FFT - 5 different windowing (rectangle, hamming, hanning, blackmann, flattop) 2 cursors for measurements : frequency & amplitude (volts or dB), with absolute values and difference
Manual cursors	2 cursors mode: V, T, 1/T for each and difference - 3 cursors mode: Phase measurement
Automatic Measurements	19 time or amplitude related measurements & phase measurement – 5 digits displaying resolution Vmin, Vmax, Vpp, Vhigh, Vlow, Vamp, Vrms, Vavg, Over+, Over- Trise, Tfall, W+, W-, P, F, DC, N, Sum (integration)
Probe calibration generator	Square wave , amplitude 0-2.5Vpp ± 2% , frequency 1kHz ± 1%

General features	
Set-up memories	« No limitation », according to PC configuration
Printing	According to « Windows printing environment » configuration – local or Ethernet printer, or file
PC interfaces	USB B type connector and RJ45 Ethernet connector (10 Mb LAN or WAN communication) + WIFI for Mtx162UEW LED on front panel, indicating communication status (ready, detected, occupied)
PC control software	Windows 98, Millenium, 2000, XP and Vista compatible Direct management of free of charge Firmware upgrade from Chauvin Arnoux « Support » website
Ethernet	Utility function to detect Instruments available for communication - Ethernet configuration simplified and guided
Power supply	Universal 100-240 V / 47-63 Hz / < 16 W - removable power cord
Electrical safety / EMC	Electrical Safety according to IEC61010-1 (2001) 300V-CATII – EMC according to EN61326-1
Environment	Storage -20 °C to +60 °C – Use 0 °C to +40 °C
Mechanical specifications	Dimensions (W x D x H) : 270 x 213 x 63 mm – Weight : 1.8 kg

DT Mtx162 Ed01 11-2009
Specifications subject to change

Models include:

Mtx162UE : USB-Ethernet Digital Oscilloscope-Analyser with two 60 MHz channels, european power lead, 1/1-1/10 100 MHz 300 V voltage probe (x2), USB A/B cord, CD-ROM including SCOPEin@BOX_LE PC software, 5 languages user's manual, 2 languages programming manual and LW/LV drivers.

Mtx162UEW : USB-Ethernet-Wifi Digital Oscilloscope-Analyser with two 60 MHz channels, european power lead, 1/1-1/10 100 MHz 300 V voltage probe (x2), USB A/B cord, CD-ROM including SCOPEin@BOX_LE PC software, 5 languages user's manual, 2 languages programming manual and LW/LV drivers.

CHAUVIN ARNOUX GROUP

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