MIRO ALTITUDE

Touchscreen, single-channel, laser power & energy meter

New product
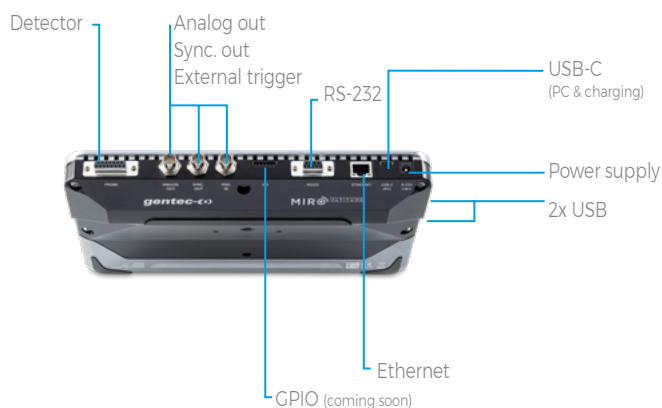
MIRO ALTITUDE

CONNECTIVITY

Detector
Analog out
Sync. out
External trigger
RS-232
USB-C (PC & charging)
Power supply
2x USB
Ethernet
GPIO (coming soon)

KEY FEATURES

> **READS ALL HEADS**
> Power: thermopiles, photodetectors and pyroelectrics
> Energy: thermopiles (in SSE mode) and pyroelectrics

> **LARGE TOUCHSCREEN DISPLAY**
> 10in diagonal
> 1280 x 800 resolution
> Touchscreen controls

> **INTUITIVE USER INTERFACE**
> Easy to navigate interface, with 3 display modes:
> scope, needle and bar chart.
> Instant access to the detector settings

> **REAL-TIME STATISTICAL FUNCTIONS**
> Max, min, average, standard deviation, RMS and PTP
> stability, and repetition rate

> **MULTIPLE OUTPUTS**
> Multiple USB ports for computer connection and
> charging (1x USB-C, 2x USB-A), BNC analog output,
> RS-232, Ethernet, programmable I/O (coming soon)

ACCESSORIES

Additional 12V power supply

Power cord extension

USB-C wall charger (US only)

Extra USB-C to USB-A

Pelican carrying case

STAND-R-443

Extra carrying sleeve

MIRO ALTITUDE
Specifications

CE | NIST* Traceable | WEEE/RoHS COMPLIANT

*Also traceable to NRC-CNRC

POWER DETECTORS

ENERGY DETECTORS

BEAM PROFILING

TERAHERTZ DETECTORS

DISPLAYS & PC INTERFACES

CUSTOM / OEM PRODUCTS

New product

MIRO ALTITUDE	
DETECTOR TYPES	Thermopiles, pyroelectrics, photodetectors
DISPLAY	10" high-resolution, anti-glare, touchscreen

POWER METER SPECIFICATIONS

Power range	4 pW to 150 kW
Meter accuracy	±0.5% ± 3 µV from 20% to full scale
Statistics	Current value, max, min, average, standard deviation, RMS & PTP stability, time

ENERGY METER SPECIFICATIONS

Energy range	2 fJ to 30 kJ
Meter accuracy	1.0% ± 50 µV (< 500 Hz) 2.0% ± 50 µV (500 Hz to 10 kHz)
Software trigger level	0.1 to 99.9%, 0.1% resolution, default 2%
Repetition rate	10 kHz for data acquisition in real time with time stamp, no missing point
Statistics	Current value, max, min, average, std dev., RMS & PTP stability, pulse #, rep. rate and average power

DETECTOR COMPATIBILITY

Thermopile	Average power & single shot energy (UP, XLP & HP series)
Photodetector	Average power (PH series)
Pyroelectric	Average power & pulse energy (QE series, except QE8)

GENERAL SPECIFICATIONS

Digital display size	10.1-inch diagonal LCD - 1280 x 800 pixels
Outputs	Analog out, 0 - 5 V (BNC) Sync out (BNC) RS-232 (DB9) Ethernet (RJ45) USB-C 2x USB-A
Rising edge external trigger	3.3-24 V (BNC)
Serial commands via	USB-C, RS-232 or Ethernet
Data storage via	Internal memory or USB key
Battery type	Rechargeable Li-ion cell
Battery life	6 hours
External power supply	12 VDC power supply included, or UBS-C (min 18 W)

PHYSICAL CHARACTERISTICS

Mounting holes	1/4"-20 and 2x10-32 threaded holes
Dimensions	268W x 196H x 36D mm
Weight	1.36 kg

ORDERING INFORMATION

Compatible stand	STAND-R-443
Product page	

Specifications are subject to change without notice
T 418.651.8003 | info@gentec-eo.com

gentec-eo.com

MIRO ALTITUDE
Main screen

Access the control center

Take a screenshot

Start a data-logging session

Display battery level

Display time

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1 NAVIGATION BAR

The upper part of the screen includes a direct access to the control center, data acquisition buttons and various indicators (battery level and time).

2 MEASUREMENT SETTINGS PANEL

Use the various measurement settings available for your detector to set everything related to your measurement.

λ **Wavelength:** Enter your wavelength or choose from a list of recently used wavelengths

Range: Set the measuring range to autoscale or to one of the standard values

Measurement mode: Choose what you want to measure: power, SSE, moving average, etc.

Moving average: Choose the desired moving average to use to plot the chart

Trigger: Enter the desired trigger level or choose from a list of recently used values

XNR Anticipation™: Toggle on to measure up to 10x-20x faster without losing any significant accuracy in your readings

Correction: Set a multiplier and an offset value for your measurements

Attenuator: Toggle when using a Gentec-EO calibrated attenuator with your detector

3 DISPLAY AREA

The top part of the display area is the same for all three display modes.

↺ CLEAR **Clear:** Use this button to reset the statistics and erase the scope graph's data

Display mode: Toggle your display mode between: scope, needle and bar chart

Ø ZERO **Zero:** Set the current measured value to zero

MIRO ALTITUDE
Display modes

SCOPE DISPLAY

With this display mode, you can travel in time using the time line at the bottom to view measurements at any point in time while MIRO ALTITUDE continues to measure.

The dotted blue line shows the average value.

NEEDLE DISPLAY

Faster than an analog needle thanks to XNR Anticipation™! This mode is particularly useful when tuning a laser. The real-time value and statistics are always visible at the top of the screen.

Arrows indicate the minimum and maximum measured values since the last reset. The zoom function sets these values as full scale of the digital gauge.

BAR DISPLAY

This is the simplest display mode. Its main advantage is that the current measured value is displayed in huge size, allowing you to read the measurement from a good distance.

Arrows indicate the minimum and maximum measured values.
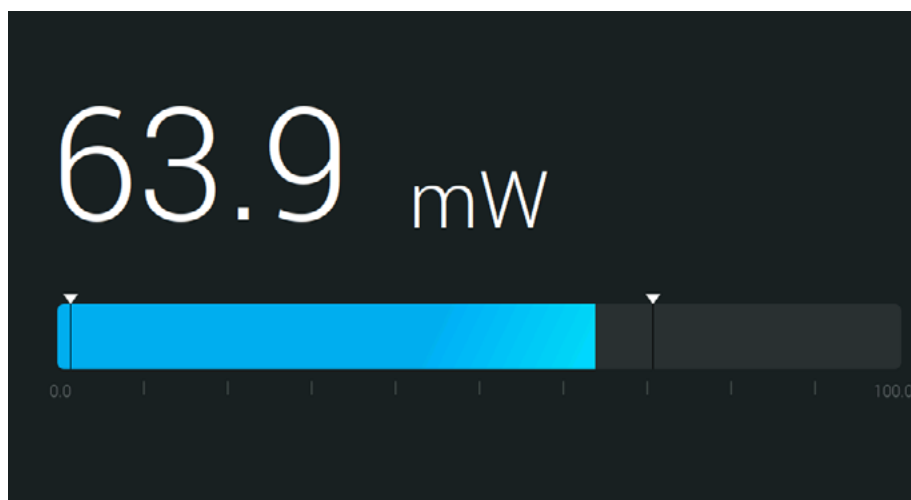
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BUILT-IN FILE MANAGER AND DATA VIEWER

MIRO's built-in file manager lets you access and organize all your screenshots and recorded measurement sessions. You can also copy files on your USB key.

▶ Visualize a recorded measurement session with our built-in data viewer. Data will be displayed in the scope chart display.

There is also a built-in image viewer so you can view your screenshots directly on your MIRO ALTITUDE.
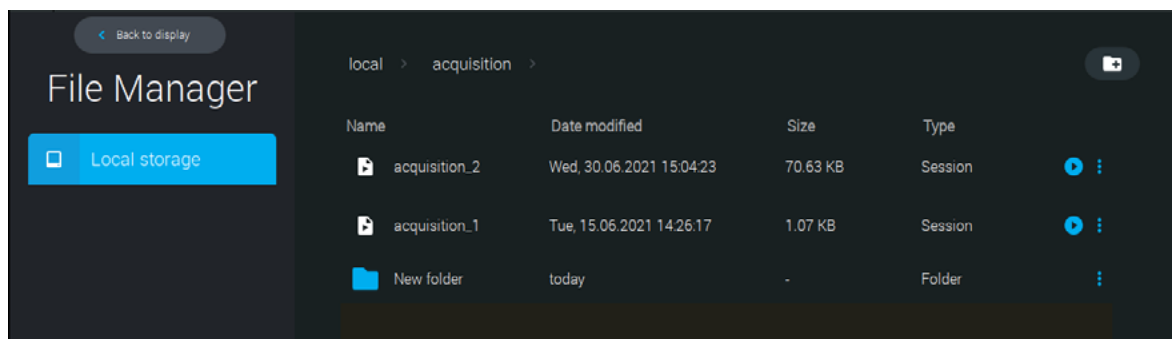
CONTROL CENTER

The control center is accessible from all screens in the top left corner.

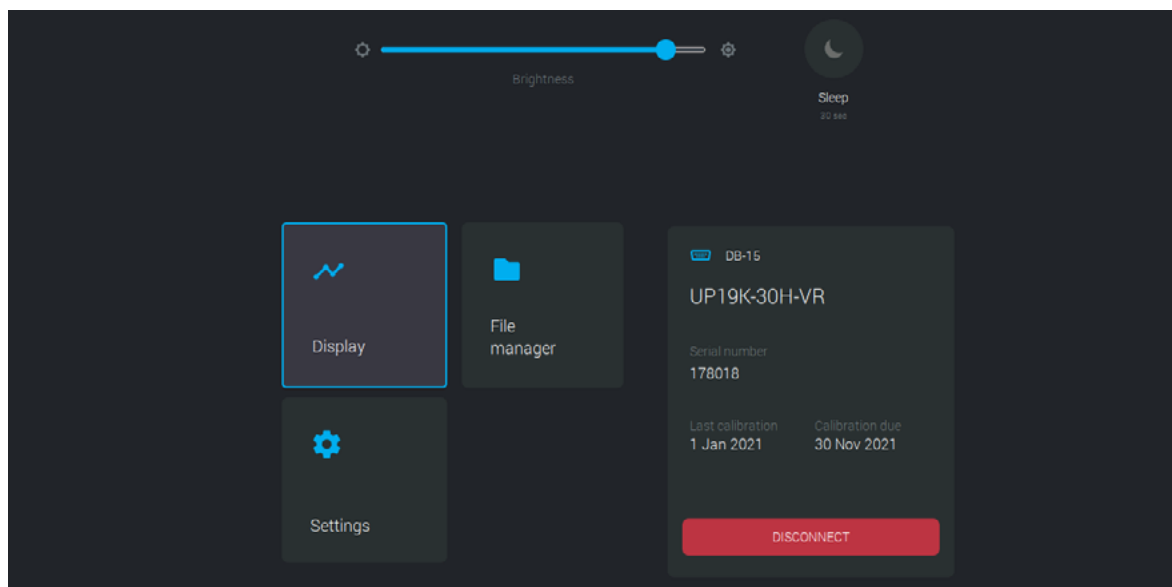Easily navigate between the main screens of the app:
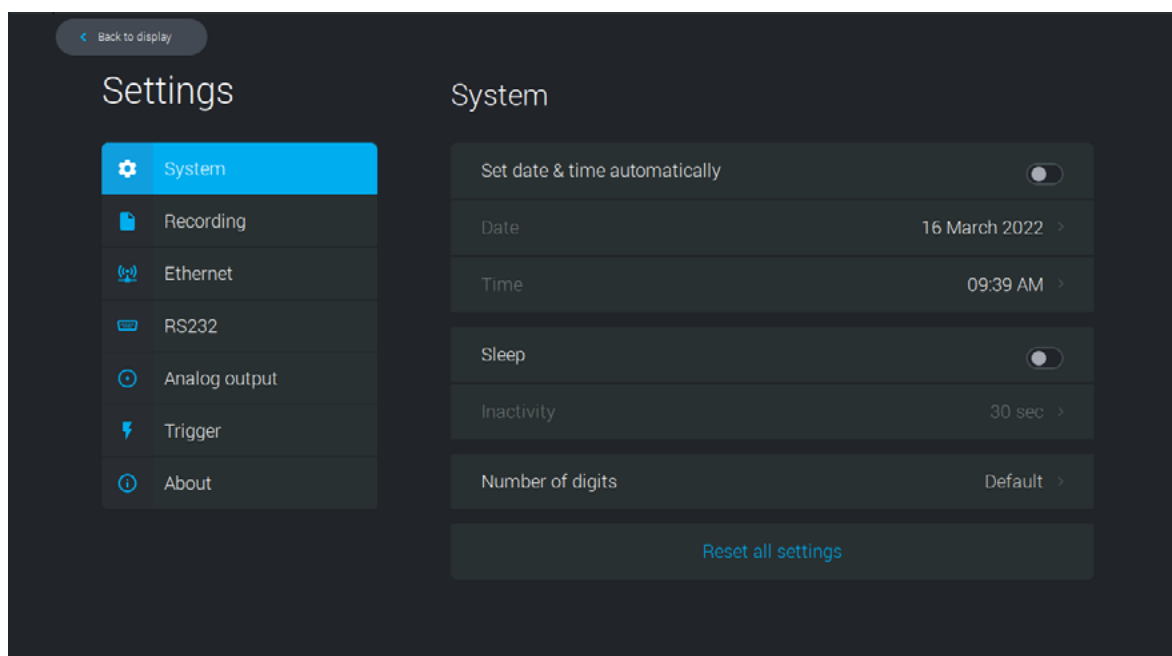
∿ Display

📁 File manager

⚙ Settings for the device.

Connect/disconnect your Gentec-EO detector to MIRO ALTITUDE

MIRO ALTITUDE

DEVICE SETTINGS

⚙️ **System:** Set device settings: language, date, time, sleep, number of digits, etc.

📄 **Recording:** Set your default recording parameters for power/energy measurement and destination.

📡 **Ethernet:** Set your Ethernet parameters or let MIRO manage this automatically.

⌨️ **RS-232:** Set your RS-232 parameters.

◉ **Analog output:** Set your analog output parameters. (coming soon)

⚡ **Trigger:** Use an external trigger and set your trigger level.

ⓘ **About:** View important information about your device (serial number, firmware version, software version, calibration date) and find support.

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