

MIRO ALTITUDE

Touchscreen, single-channel, laser power & energy meter

New product

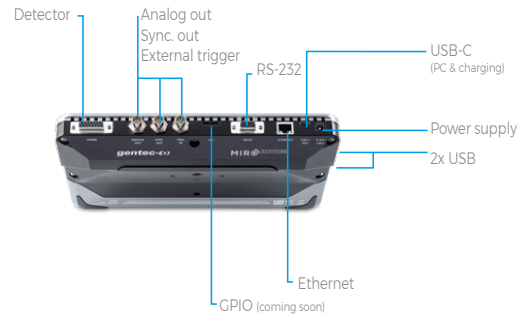


MIRO ALTITUDE

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)

CONNECTIVITY



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

 VDE
*Also traceable to NRC-CNRC

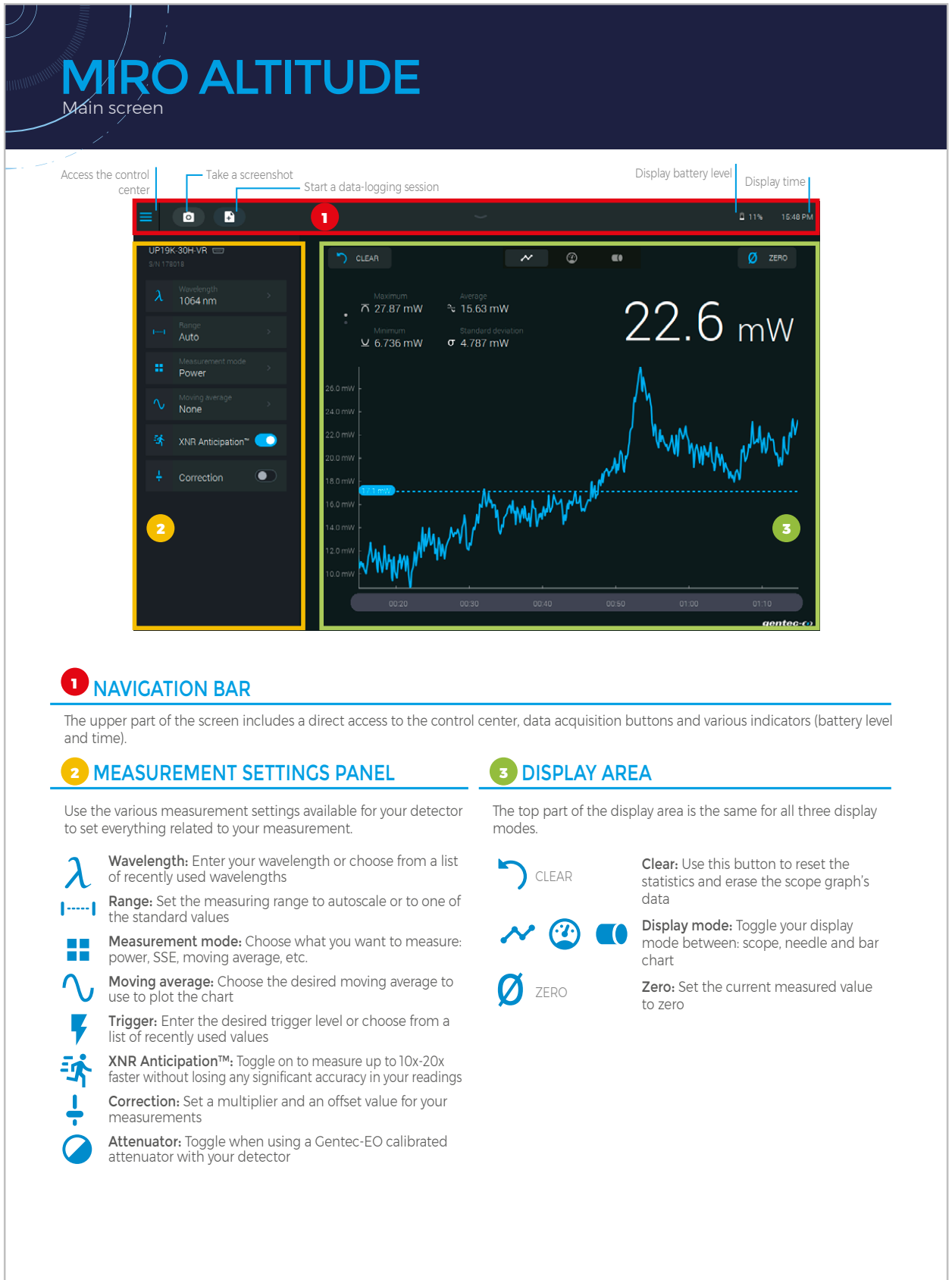


MIRO ALTITUDE	
DETECTOR TYPES	Thermopiles, pyroelectrics, photodetectors
DISPLAY	10" high-resolution, anti-glare, touchscreen
POWER METER SPECIFICATIONS	
Power range	4 pW to 150 kW
Meter accuracy	±0.5% ± 3 µV from 20% to full scale
Statistics	Current value, max, min, average, standard deviation, RMS & 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

MIRO ALTITUDE

Main screen









The screenshot shows the MIRO ALTITUDE main screen. At the top, a navigation bar (1) contains icons for control center, screenshot, data logging, battery level, and time. Below this is a settings panel (2) with options for Wavelength (1064 nm), Range (Auto), Measurement mode (Power), Moving average (None), XNR Anticipation (on), and Correction (off). The main display area (3) shows a power measurement of 22.6 mW, with statistics for Maximum (27.87 mW), Average (15.63 mW), Minimum (6.736 mW), and Standard deviation (4.787 mW). A scope graph below displays the power fluctuation over time.

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.

-  **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:** 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
-  **ZERO:** Set the current measured value to zero

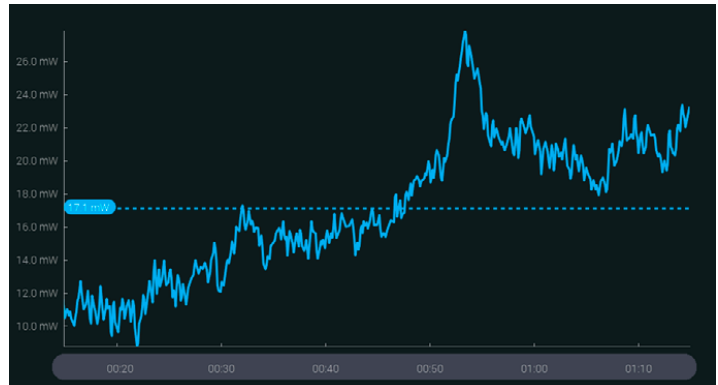
MIRO ALTITUDE

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.

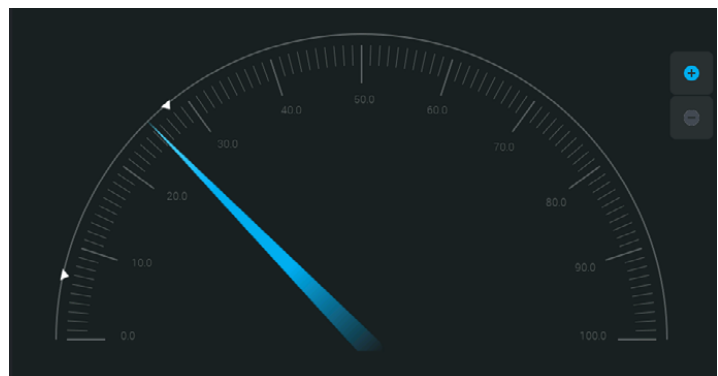
The dotted blue line shows the average value.



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.

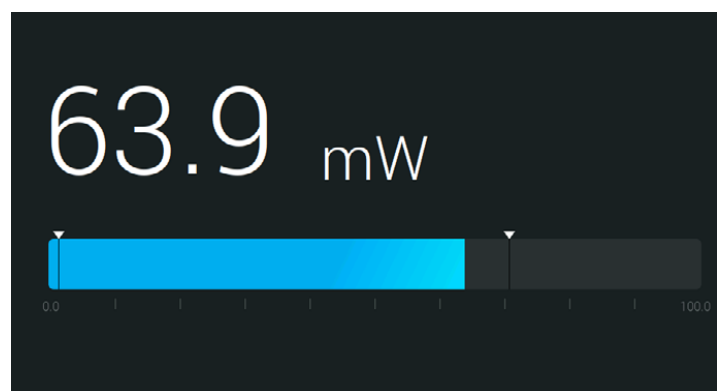
Arrows indicate the minimum and maximum measured values since the last reset. The zoom function sets these values as full scale of the digital gauge.



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.



MIRO ALTITUDE

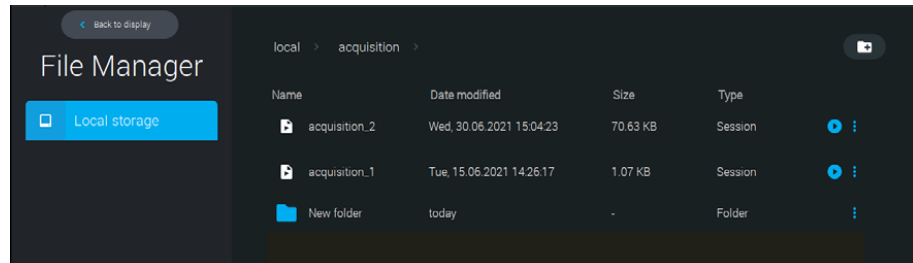
Settings & controls

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.



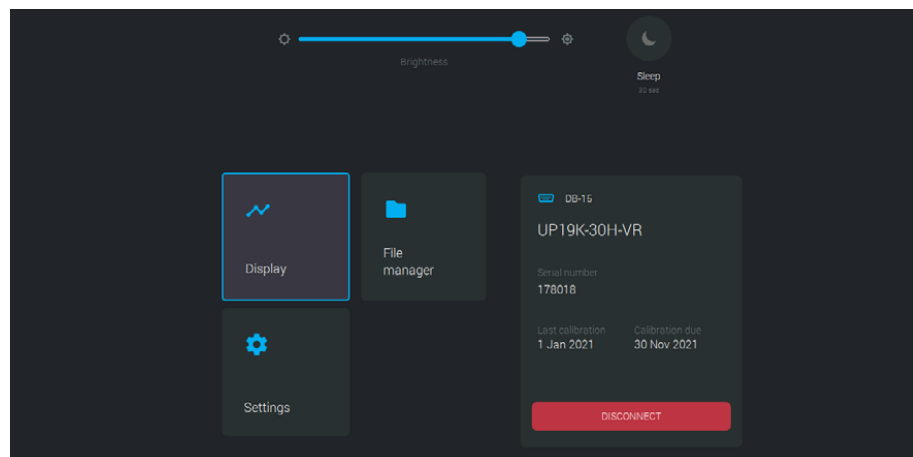
CONTROL CENTER

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.

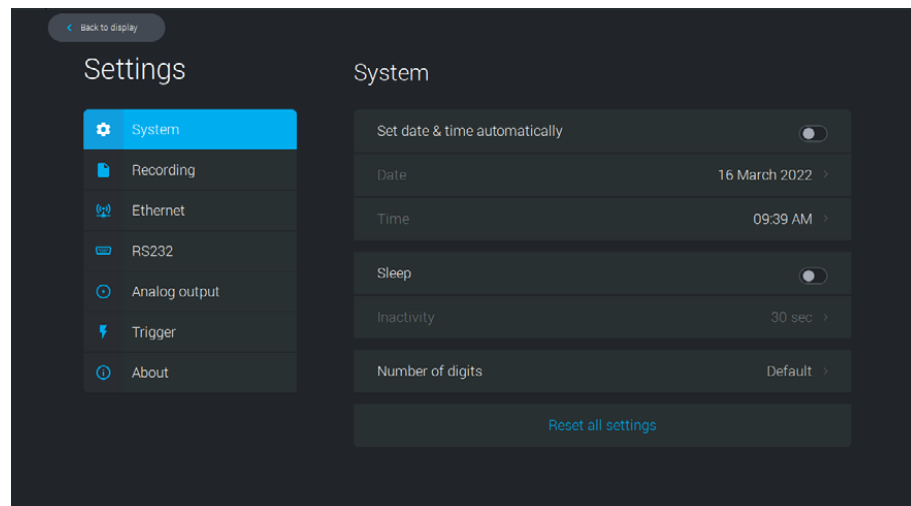
Connect/disconnect your Gentec-EO detector to MIRO ALTITUDE










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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.