

Viso LabAnalyzer is an advanced AC and DC power analyzer that complies with light measurements standards (IES LM-79 and CIE S 025). LabPower fully integrates with your Viso light measurement system and software, and facilitates remote sensing (measuring directlyW at light source terminals)

Advantages

LabAnalyzer keeps track of your power consumption in every detail. It is both easy to install and to use, and provides precise power measurements for both AC and DC. The internal display includes advanced harmonics analysis, power graphics, power factor and displacement factor. Get all results directly into your light measurement file through the USB connection.

It has a versatile measurement range (up to 100 kHz, 2-270V AC/DC, up to around 2000 W), and a sample rate of 2 mio samples per second.

Two models

Standard

Steady power

Sensor sync version

Steady and pulsed power (revolutionary) dedicated to measuring strobe lights through Viso sensor synchronisation



- Dedicated Viso AC/DC power analyzer
- Full integration with any Viso light measurement system
- Complies with CIE S 025/ IES LM-79 requirements
- **Sensor sync version: measure strobing light sources as easily as other light sources**
- Versatile measurement range (up to 100 kHz, 2-270V AC/DC, up to around 2000 W)
- Real-time readout on built-in display
- Remote sensing feature for optimal accuracy

The built-in display provides lots of live data and live AC voltage/current curves



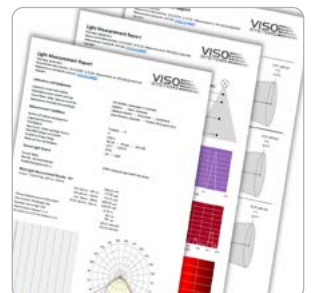
Connects to your PC with USB-C cable. All data is transferred directly to the software



Remote sensing option to avoid effects of voltage drops in cables (separate sense leads included)



Seamless integration with PDF reporting: All feed specs and results can be included in reports



SPECIFICATIONS

The LabAnalyzer is a combined AC and DC power analyzer.
It is fully integrated with Viso Light Inspector Software

Physical dimensions

Dimensions (L x W x H)	270 x 220 x 105 mm
Weight	2 kg

Power input specifications

Maximum Input voltage	AC: 270 VAC 50/60 Hz DC: 380V
Maximum input Current	14A peak and 7A RMS

Prerequisites for power analyzer accuracy

Device Under Test Voltage	5 – 270 VAC / 5 – 380 V DC
Device Under Test Current	<14A peak and 1mA – 7A RMS.
Ambient Temperature	25 ± 1.2 C

Power Analyzer Specifications

Basic Power Accuracy (50/60 Hz)	0.5%
Analyzer Frequency Range	up to 100 kHz
Calibration uncertainty, voltmeter/ammeter	<0,2%
Calibration uncertainty, power meter	<0,5%
Voltage Accuracy	0.2% of reading + 0.2% of range
Current Accuracy	0.3% of reading + 0.3% of range
Voltage AC peak ranges (Crest factor = 3 dB)	6V / 12V / 25V / 51V / 103V / 206V / 413V / 826V
Current AC peak ranges (Crest factor = 3 dB)	3mA / 7mA / 15mA / 30mA / 60mA / 128mA / 257mA / 515mA / 1A / 2A / 4.1A / 8.2A / 16.5A
Power range AC	0.05W to 1700W @ 240VAC / 850W @ 120 VAC
Power range DC	0.05W to 1700W @ 240VDC / 850W @ 120 VDC / 170W @ 24VDC / 85W @ 12VDC Higher power values available open request (with cost of higher minimum power)
Measurement Bandwidth	200 kHz
Sample rate	2 MS/s
Output curve sample rate	125 KS/s
Measurement Parameters	Voltage, current, active power, apparent power, power factor, displacement factor.
Current sense series resistance	0.1 Ω
Voltage sense parallel impedance	3 MΩ internal / 3 MΩ external
Remote sensing function	3 MΩ - Included (Max. test circuit resistance <0.5 Ω, Max. test circuit capacitance <1.5 nF)



Software

Connection	USB connection to Viso Light Inspector software
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About measuring strobe lights

The LabAnalyzer synchronises LabSensor with measured power pulses. This makes it possible to make accurate measurement of a light source that is continuously flashing.

The system measures the details of the flash waveform, peak voltage, amps, and intensity, period length, number of flashes per period, flash lengths and interval lengths etc.

This is done by synchronizing the sensor integration time with the power readings, which is a new, revolutionary system. Never before has it been so easy to measure strobe lights

