



## Description

This device is a high performance oscilloscope with FFT function that records and realises data processing of the electric fields measured by the eoSense instrument (LF model).

Up to 3 channels can record data in standard with 14 bits resolution and has a sampling frequency of 125 M samples per second.

This device is operated by the eoAcq software and allows to display records in volt per meter (V/m) under time-domain or frequency-domain. This device must be connected to eoSense instrument to the laptop for operation.

## Main usage precautions

The eoAcq must not be submitted to mechanical constraints or shocks.

The eoAcq must be placed under the eoSense instrument thanks to accurate position spacers.

The eoAcq must be handle with care and stored inside its provided suitcase.

## Main features

- Direct reading in V/m
- 3 BNC input channels in standard
- Time or frequency domain choice
- Up to 125 M samples / sec
- 14 bit resolution
- 1 BNC input for signal reference
- 1 USB port (for laptop)
- 1 BNC output for AWG signal

## Items provided with eoAcq

- 1 eoAcq software (interactions with eoSense software)
- 3 BNC rigid cables between eoSense and eoAcq
- 1 power cord
- 1 USB cable

## Main specifications of eoAcq\*

### Vertical data

Number of input channels	3 by BNC connector
Impedance of input channels	50 $\Omega$
Max. resolution (3 channels + ref)	14 bits @ 62 MHz
Bandwidth	DC to 62 MHz
Max. sampling rate	125 M samples/sec/channel
External reference input	1 by BNC connector

### General data

Operating temperature	0...+40°C
Power supply	100...240V AC

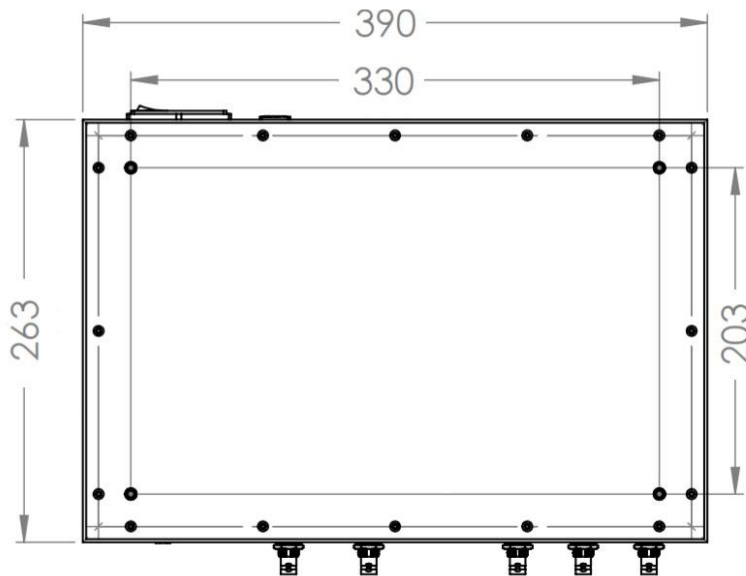
\*Values are valid under certain conditions

## Main specifications of eoAcq software

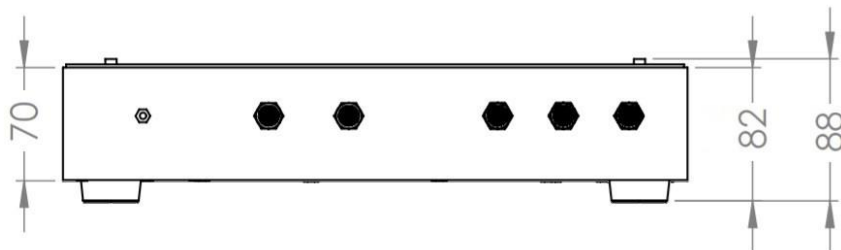
Operating system	Fedora (Linux)
Basic functions	Oscilloscope, FFT
Measuring range	50 mV/m ... 10 MV/m
Measurable values (in V/m)	rms; peak-to-peak; instantaneous, average
Time/div	1 $\mu$ s/div ... 2 s/div
Mathematical functions	Average, FFT, module and phase of sinus wave
Average function	Storage of all points (around 4000 samples)
Data export format	CSV

## eoAcq dimensions

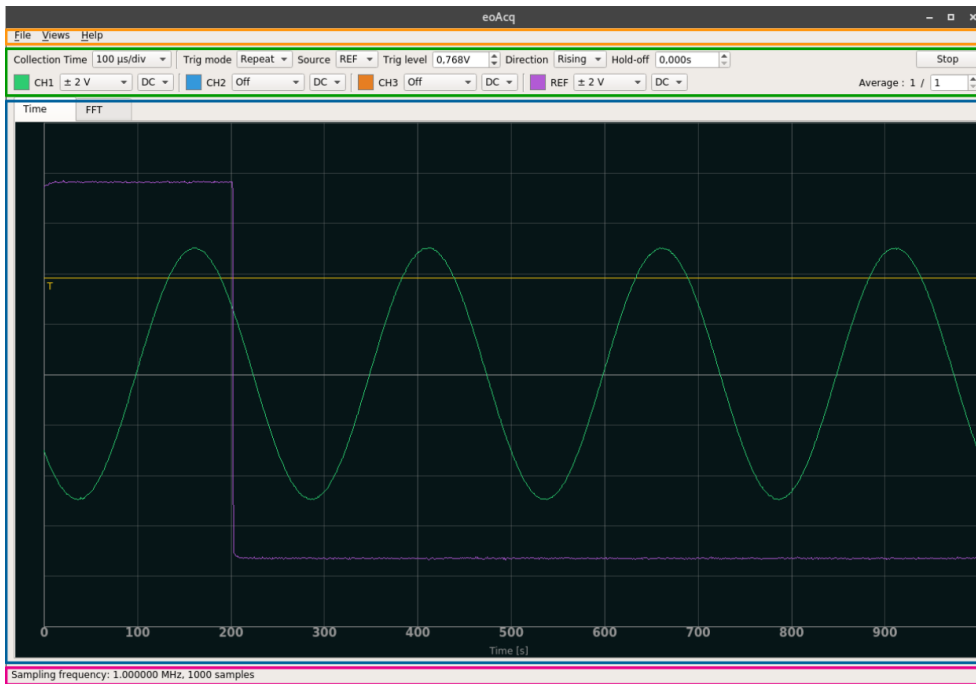
Top view



Front view



## Software main window



Orange area: Top menu  
Green area: oscilloscope menu  
Blue area: signal visualisation  
Magenta area: sampling information

## Installation recommendations

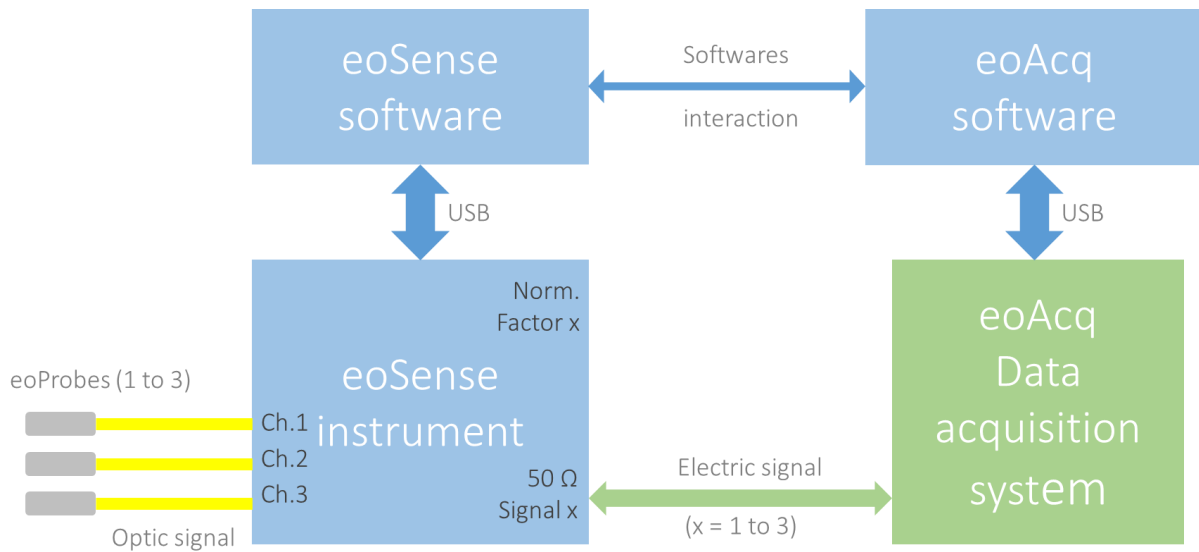
In order to reduce to a minimum the cables of the channels, the eoAcq system must be placed underneath the eoSense instrument as shown below. Four spacers allows the accurate placement of the eoSense on top of the eoAcq.



The Out BNC connector is not used.  
The Ref. BNC connector is used with eoCal accessory or may also be used as an external trigger.

## Hook-up

The link between the eoSense output channels and the eoAcq input channels is realised with the 3 metals leads provided with eoAcq. The Norm. Factor 1 to 3 connectors are not used.



## Accessories

No accessory is available.

## Services

### Calibration

No calibration of eoAcq is requested.

### Rental

Rental of an eoAcq is possible only in case of an eoSense rental.

## Contact us

Kapteos SAS  
Bâtiment CleanSpace  
354 voie Magellan  
73800 Sainte-Hélène du Lac  
France

[contact@kapteos.com](mailto:contact@kapteos.com)

Tel: +33 (0)4 79 62 88 34

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