

ULTI
SENSE.



INFO SHEET

INTEGRATOR KIT

Test your ULTISENSE Modules for trouble free integration. Suitable for Laser Rangefinder (LRF) and Digital Magnetic Compass (DMC) Modules.

Basic Kit LRF / Basic Kit DMC

The Basic Kit facilitates initial tests of Ultisense modules. It provides an easy connection between the module and the PC/Laptop via USB C. Distances measured, compass outputs, and many other features are displayed using the software included. Powering up the module is effortless with USB C compatibility, allowing power to be drawn from either a PC or a power bank, negating the need for an external voltage supply regulator. In addition there is still the option to utilize a DC power inlet for laboratory regulated voltages. Basic kits are available for both LRF and DMC modules.

Advanced Kit LRF & DMC

The advanced kit also includes a development board that provides direct access to the hardware signals of the various pins of the LRF module. Quick and easy pin connections are facilitated through removable jumpers. This enables comprehensive testing, including the use of test equipment such as oscilloscopes, etc. for measurements of all potential options before the module's final integration. The advanced kit is optimized for testing LRFs and it also allows testing of the DMC-pico modules.

Terminal Software for PC

Included with all kits is the Ultisense terminal software for either Ultisense LRF or DMC-pico modules. This software needs to be installed on a PC and it allows testing of all software commands specific to the corresponding module. For instance, with LRF modules, various measuring frequencies can be easily tested using the terminal program without the need for coding. In the case of DMCs, a crucial function of the software is to display magnetic disturbances, aiding in pinpointing the most optimal, least disrupted DMC position within the host system.

Eye-protection when using a Class 3B pointer

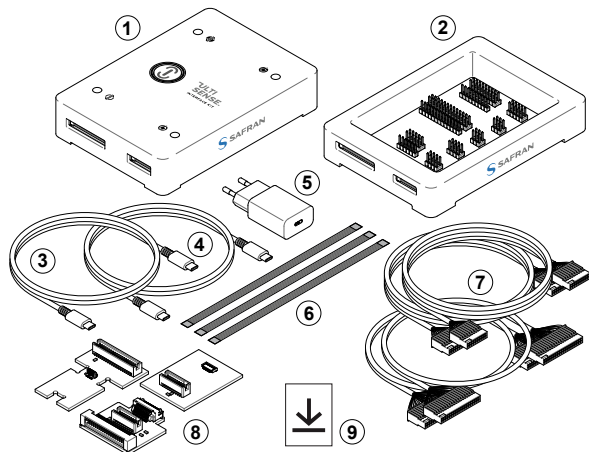
When conducting tests involving a Class 3B laserpowered pointer, it is advisable to utilize an Eye Safety Kit. This kit comprises a filter that is screwed in front of the transmitter, effectively converting a Class 3B laser pointer into a Class 1 laser, which is safe for the eyes. This precaution is particularly advantageous for laboratory testing and experimentation.

Suitable for



INTEGRATOR KIT TECHNICAL DATA

CONTENT OF INTEGRATOR KIT



- 1 Basic hardware board (power and communication converter)
- 2 Advanced development board* (all hardware lines available)
- 3 USB-C cable for data communication
- 4 USB-C cable for power supply
- 5 Plug-in power supply
- 6 Flex cables (3×) for connecting LRF 3013 to its adapter
- 7 Cables (4×) for board-to-board interconnections and connection to adapters
- 8 Adapters (3×) for all modules
- 9 Download code for Terminal software
- 10 Jumpers for development board (not shown)

* is only part of the Advanced Integrator Kit LRF & DMC

DIMENSIONS

Interface Box	130 mm × 91 mm × 26 mm
Development Board	130 mm × 91 mm × 22 mm

POWER SUPPLY

Plug-in power supply	
Voltage range	100 – 240 V AC, 50 – 60 Hz
Power consumption	max. 45 W
Fast charging protocol	SFC 2.0
Charging plug	USB-C
DC power inlet	
DC coaxial power plug	dia. 2.1 × 5.5 mm
Input voltage	18 – 24 V

ORDER INFORMATION AND ACCESSORIES

Basic Integrator Kit DMC	918 484
Basic Integrator Kit LRF	918 485
Advanced Integrator Kit LRF & DMC	918 486
Eye Safety Kit LRF 6019 & LRF 7047	914 675
Eye Safety Kit LRF 6042	917 660

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Values of technical parameters in this document are typical values (measured at room temperature) unless otherwise specified.
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