



Long Range Active Marker calibration kit

This document describes how to get started with the Long Range Active Marker calibration kit. It also points out some important features and instructions for the markers themselves. For a complete description of the Long Range Active Marker calibration kit please refer to the technical reference.

The Long Range Active Marker calibration kit should be used in applications with volumes that are too great for a passive calibration kit. The reference object has a long axis of 750 mm and the wand is 1500 mm long. They are equipped with 50 mm active markers that are driven by the Long Range Active Marker (LRAM) driver.

During calibration, one LRAM is used to drive the reference object and one is used to drive the wand. After calibration, the same LRAM can be used to drive measurement markers.

CONTENTS:

- Wand kit with 2 markers
- L-frame with 4 markers
- 2 meter sync cable to L-frame

INCLUDED IN KIT 130453:

- 2 Drivers for 4 markers
- 2 Battery packs 14,8V 2200 mAh, Li-Ion charger and battery cable
- 2 IR Receivers with 5 meter cable

POWER

The Long Range Active Marker is delivered with a battery pack, which contains a rechargeable LI-ION battery. When the POWER/BATT LOW LED flashes red, it is time to charge the battery. The charging time for an empty battery is about 3 hours and 30 minutes. The control box can also be powered by any 12VDC power supply.

PERFORMANCE

- The Long Range Active Marker can be used with frequencies from 1 to 200 Hz. The marker will not work correctly above 200 Hz.
- The maximum triggering distance for the IR eye is at least 100 m.
- When the control box is operated on battery power, it will enter standby mode after 30 seconds (power LED flashes green) and shut down itself automatically after 6 hours to save battery.
- The continuous operation with 4 markers at 100 Hz is 9 hours with the supplied battery pack. Other operation times can be calculated from frequency and the number of markers connected to the control box.



SPECIFICATIONS

Control box	114 x 107 x 34 mm, 330 g
Battery pack	114 x 107 x 34 mm, 1 m cable, 450 g
Spherical marker	50 mm in diameter, 5 m cable, 250 g
IR eye	30 x 40 x 15 mm, 5 m cable, 220 g
Total weight of a long range marker calibration kit	2 kg
Frequency range	1–200 fps
Flash time	325 μs
Maximum trigger distance	at least 100 m
Battery time, 50 fps, 4 markers	18 hours
Battery time, 100 fps, 4 markers	9 hours
Time to charge battery	3 hours 30 min
Nominal battery capacity	2200 mAh, 14.8 V
Input power range	10-18 VDC

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QUALISYS



qualisys.com

sales@qualisys.com

Qualisys Europe

Gothenburg, Sweden

Qualisys Americas

Chicago, USA

Qualisys Asia Pacific

Shanghai, China