



Long Range Active Marker

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 itself down 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.

CONTENTS:

- Driver for 4 markers
- 4 piece set of 50mm markers with 5 meter cable
- Battery pack 14.8V 2200 mAh, Li-Ion charger and battery cable
- 2 meter sync cable
- IR Receiver with 5 meter cable

HOW TO CONNECT:

1. Connect the spherical markers to the connections MARKER 1 – MARKER 4 on the control box. Part of the thread is still visible when it is connected correctly.

IMPORTANT: The markers must be connected before the control box is turned on to operate with full intensity. The spherical markers are delivered with the cable attached. Do not remove - it is difficult to reconnect.

2. Connect the battery pack or power supply to the BATTERY/12 VDC connection. Make sure to fully charge the battery before first time use.
3. Connect the IR eye to the IR IN/SYNC IN connection.
4. Attach a protective cover to any unused connection to keep the box splash-proof.
5. Start the control box with the ON/OFF button.

IMPORTANT: The button must be pressed and held until the POWER/BATT LOW LED is lit green. When switching off the control box press and hold the button until the POWER/BATT LOW LED is turned off.

6. The Long range active marker is now ready for use.
7. Activate it in QTM by selecting “Long Range Active Marker” as “Marker type” on Camera system/Camera settings/Advanced in the Project Options.



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 μ s
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

Qualisys reserves the right to change specifications without notice. For a complete description of the Long Range Active Marker, please refer to the technical reference.

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