



Camera Sync Unit

Camera Sync Unit is used with Qualisys camera systems to allow synchronization with external devices such as force plates, EMG systems, analog acquisition boards, time code generators, among others.

The sync unit integrates seamlessly into your camera system daisy chain and is fully supported by Qualisys Track Manager (QTM).

The sync Unit has opto-isolated inputs for triggering the start of measurements as well as synchronizing with external inputs in the form of periodic TTL signals, SMPTE signals or video signals.

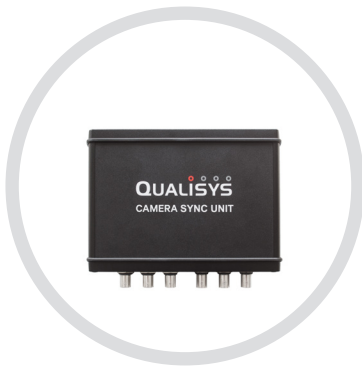
It can also output synchronization signals, configurable in terms of frequency and duty-cycle, to fit any type of external equipment you want to synchronize with your motion capture data.

FEATURES

- External sync in / out
- SMPTE synchronization and time-stamping
- Video genlock
- Hard wired trigger inputs
- Event input
- Opto-coupled Input / Output (I/O)
- Easy to connect – connects like a camera
- Kensington security slot

PACKAGE

- Camera Sync Unit
- 2m data/power cable



Camera Sync Unit

The sync unit integrates seamlessly into your mocap system daisy chain and is fully supported by QTM.



Camera Connection

The data/power cables connect to the front of the sync unit and daisy-chain to the first camera in line



Input / Output

The Input / Output (I/O) uses TTL signal levels and activity on any I/O will be indicated by the associated LED.

SYNC IN/OUT

Sync out is normally used to synchronize capture from analog boards and force plates with the camera system. Using a continuous synchronization signal means that the systems will not drift apart over time, which is the case if the devices run on internal clocks and start simultaneously.

Sync in and SMPTE are often used in sound applications, in which a 48kHz world clock may be used to synchronize the camera system to a common synchronization source in the lab, while the SMPTE time-code is used to time stamp each frame for later alignment of different data streams. The video genlock input is used to synchronize the camera system to a video signal, such as black burst or tri-level.

Each input can be configured in QTM through Project Options > Input Devices > Camera System > Synchronization. For a detailed description of all I/Os and possible configurations, refer to the QTM manual.

SPECIFICATIONS

Weight	900 g (1.98 lbs)
Dimensions	172 × 137 × 55 mm (6.76" × 5.40" × 2.15")
Operating temperature range	0-35 °C (32 – 95 °F)
Inputs	Trig NO, Trig NC, Event, Sync in, SMPTE, video
Outputs	Measurement time, Out 1, Out 2
Signal level	TTL
Communication	Gigabit Ethernet through camera daisy chain
Power	48 VDC @ 200 mA through camera daisy chain
Security	Kensington lock