

Cesar VALENCIA GALLARDO

Supported by



✓ Synchronize any PC with UTC time.

Delay controled with microsecond precision (Firing).



Time UTC 12:45:26.153.825

http://www.timeB0Xutc.com Information: info@timeboxutc.com،Sales:sales@timeboxutc.com



UTC time in astronomy

Get the UTC (Coordinated Universal Time) from GPS satellites with great precision (4μ Sec).

Astronomy

- Astrometry.
- PHEMU's.
- Asteroid occultation.

PC time synchronization.



SYRTE (CNRS, Observatoire de Paris) Atomic Clock tests.

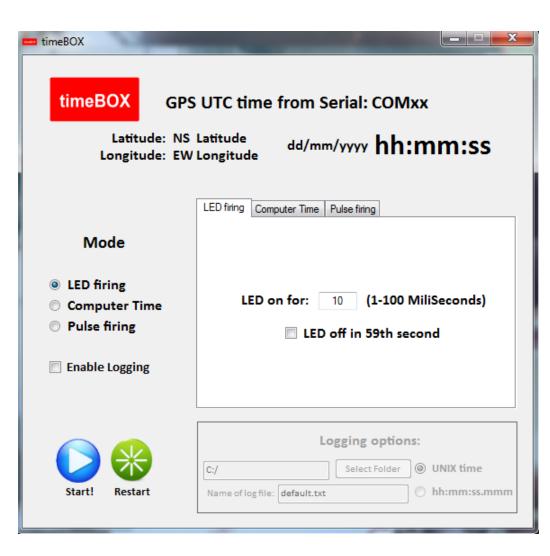


LED firing

Use the timeBOX LED to insert the UTC time on any video recording:

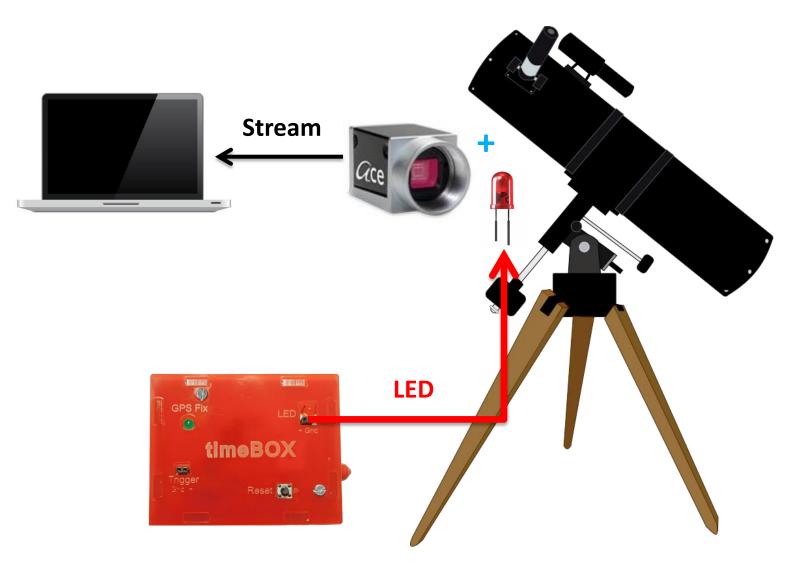
Features:

- ✓ Low delay (4 μ Sec) from UTC.
- ✓ Time-controlled pulse.
- ✓ Disable the 59th second firing (optional).
- ✓ Square pulse suited for triggering (1Hz).





LED firing



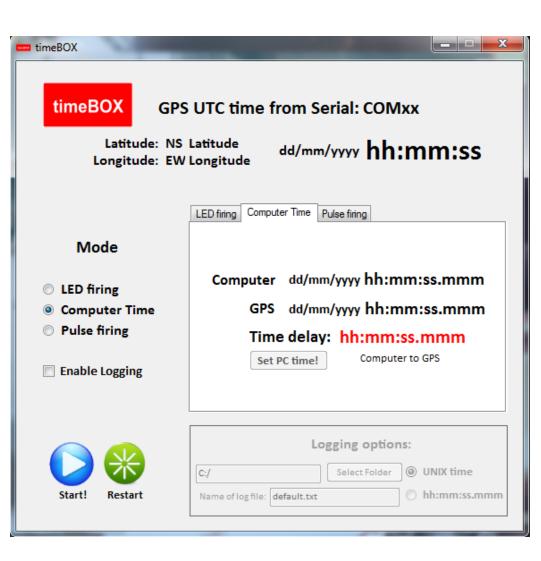


Computer time synchronization

Use the timeBOX to synchronize the PC time with the UTC.

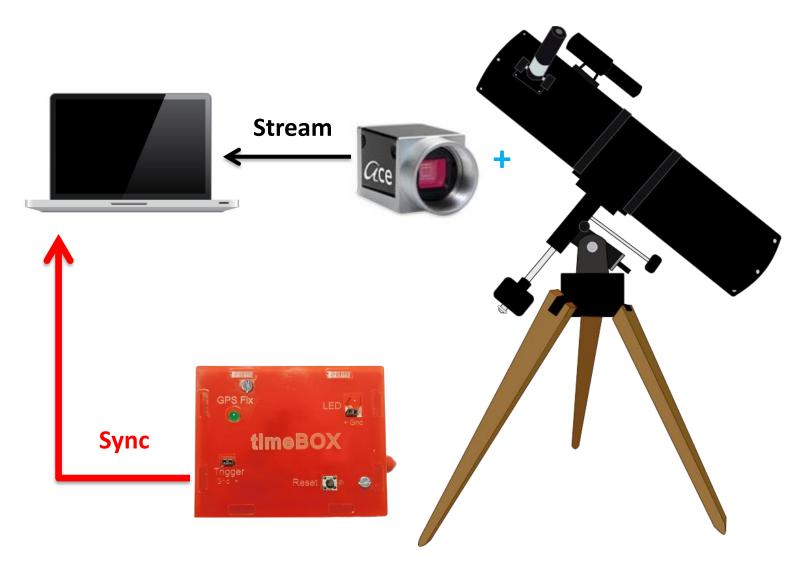
Features:

- ✓ One-click synchronization of the PC clock.
- ✓ Precise (± 2 miliseconds* UTC).
- ✓ Serial latency estimation to correct the conversion and transmission delay.
- ✓ PC time drift measured over time.

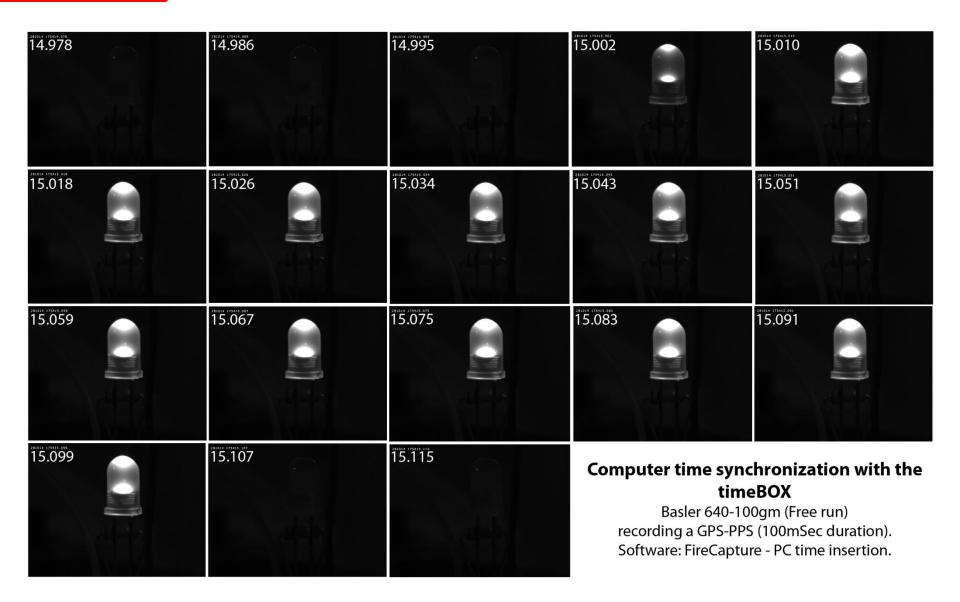




timeBOX







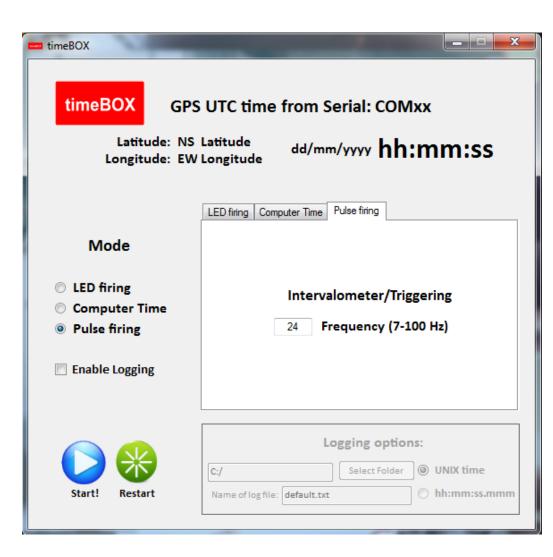


Intervalometer

Use the timeBOX to trigger UTCphased frames of selected CCD/CMOS cameras.

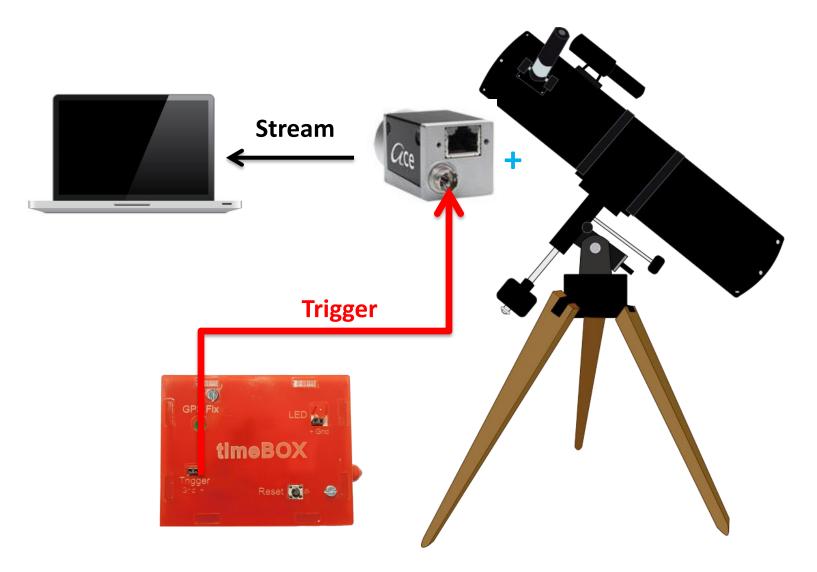
Features:

- ✓ Logic square pulses (3.3v).
- ✓ Low delay (4µSec UTC), Low jitter (<12µSec @ 24Hz).
- ✓ Phase constant pulses.
- ✓ Wide range frequency (7-100 Hz, variable on demand).

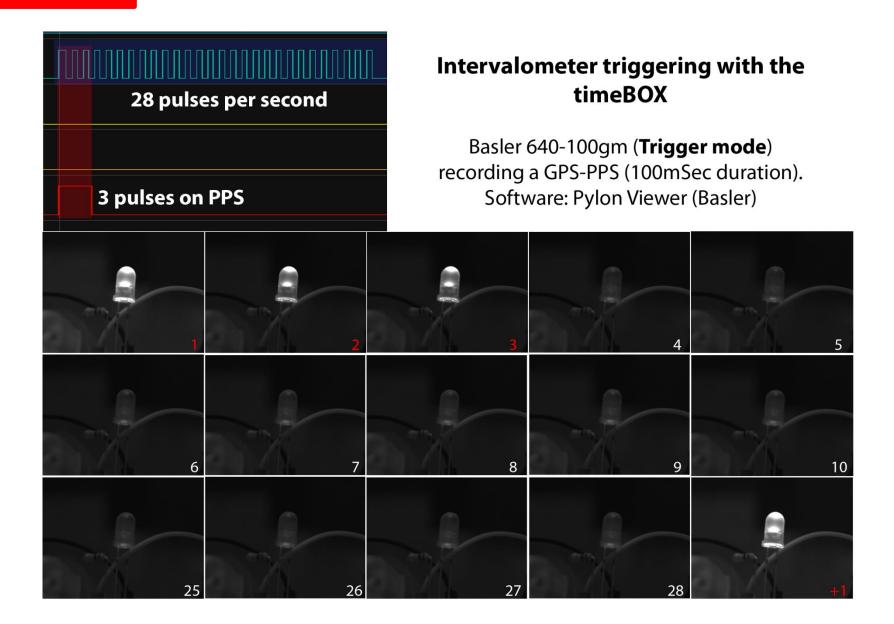




Intervalometer









File E timeBi Mode: Comput Pulse Pulse

Frame timing using the LOG file

	Image stream					
TrigerLog - Notepast Edit format View Help Edit format View Help Edit Soft Log Ct Toger at given frequency: 24frames/sec. puter Time.GPS Time Se rumber: 1, Time from second (miliseconds): 1.881, Time from second (microSeconds): 1881, Se rumber: 2, Time from second (miliseconds): 1.963, Time from second (microSeconds): 1861, Se rumber: 3, Time from second (miliseconds): 1.963, Time from second (microSeconds): 1861, Se rumber: 3, Time from second (miliseconds): 1.17, Time from second (microSeconds): 1881, Se rumber: 3, Time from second (miliseconds): 131,313, Time from second (microSeconds): 131,313, Se rumber: 5, Time from second (miliseconds): 131,313, Time from second (microSeconds): 131,313, Se rumber: 5, Time from second (miliseconds): 131,613, Time from second (microSeconds): 131,313, Se rumber: 5, Time from second (miliseconds): 131,613, Time from second (microSeconds): 131,313, Se rumber: 5, Time from second (miliseconds): 131,613, Time from second (microSeconds): 131,313, Se rumber: 5, Time from second (miliseconds): 131,613, Time from second (microSeconds): 131,313, Se rumber: 5, Time from second (miliseconds): 131,613, Time from second (microSeconds): 131,313, Se rumber: 5, Time from second (miliseconds): 131,613, Time from second (microSeconds): 131,633, Se rumber: 5, Time from second (miliseconds): 131,613, Time from second (microSeconds): 131,633, Se rumber: 5, Time from second (miliseconds): 131,613, Time from second (microSeconds): 131,633, Se rumber: 5, Time from second (miliseconds): 131,613, Se rumber: 5, Time from second (miliseconds): 131,613, Time from second (miliseconds): 131,613, Se rumber: 5, Time from second (
is number: 7, Time from second (m115econds): 258.39, Time from second (microseconds): 258300 se number: 8, Time from second (m115econds): 300.41, Time from second (microseconds): 300.41 se number: 10, Time from second (m115econds): 300.41, Time from second (microseconds): 300.41 se number: 11, Time from second (miliseconds): 423.395, Time from second (microseconds): 425.395 se number: 12, Time from second (miliseconds): 425.395, Time from second (microseconds): 425.395 se number: 12, Time from second (miliseconds): 425.395, Time from second (microseconds): 425.395 se number: 12, Time from second (miliseconds): 425.395, Time from second (microseconds): 425.395 se number: 13, Time from second (miliseconds): 500.497, Time from second (microseconds): 503.649 se number: 15, Time from second (miliseconds): 500.497, Time from second (microseconds): 634.110 se number: 16, Time from second (miliseconds): 634.131, Time from second (microseconds): 634.131 se number: 16, Time from second (miliseconds): 634.131, Time from second (microseconds): 634.131 se number: 16, Time from second (miliseconds): 634.131, Time from second (microseconds): 634.131 se number: 16, Time from second (miliseconds): 739.063, Time from second (microseconds): 734.063 se number: 16, Time from second (miliseconds): 737.644, Time from second (microseconds): 734.053 se number: 12, Time from second (miliseconds): 739.063, Time from second (microseconds): 734.054 se number: 21, Time from second (miliseconds): 844.308, Time from second (microseconds): 734.054 se number: 21, Time from second (milisecond): 844.308, Time from second (microseconds): 734.054 se number: 21, Time from second (milisecond): 844.308, Time from second (microseconds): 734.054 se number: 21, Time from second (milisecond): 844.308, Time from second (microseconds): 843.088 se number: 22, Time from second (milisecond): 844.308, Time from second (microseconds): 843.088 se number: 23, Time from second (milisecond): 844.659 se number: 23, Time from second (microseconds): 0, Time from second	15:45:15.001.881	15:45:15.049.634	15:45:15.091.368	15:45:15.133.133	15:45:15.174.887	
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Easy determination of each frame UTC time



Pre-order

300 €



http://www.timeBOXutc.com

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Merci pour votre attention

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