# **SYNCHRONIZATION**

Synclock & Amplock are state-of-the-art synchronization add-ons compatible with all Amplitude ultrafast laser portfolio. This versatile solution is designed for highest accuracy synchronization of the laser system to either a radio frequency or an optical reference.

#### Synclock

Synclock ensures an excellent synchronization of the ultrafast amplified pulses on the fast time scales. It consists in an active stabilization of the seed oscillator cavity to an external reference. Furthermore, the user can adjust remotely and precisely the time of arrival of the pulses.

#### Amplock

Placed at the output of the laser, Amplock compensates for long-term drifts induced by the environmental conditions on the laser and the experimental setup.

These two add-ons, by offering both accuracy and reliability for long-term synchronization, are a must-have for demanding applications such as ultrafast pump-probe experiments, or integrated into secondary sources such as FELs, ICS and OPAs



Synclock



Amplock



### Science:

> Photocatode

> Inverse Compton Scattering

> Time-resolved Experiments

> Terahertz Spectroscopy

> Picosecond Acoustics

Key Features

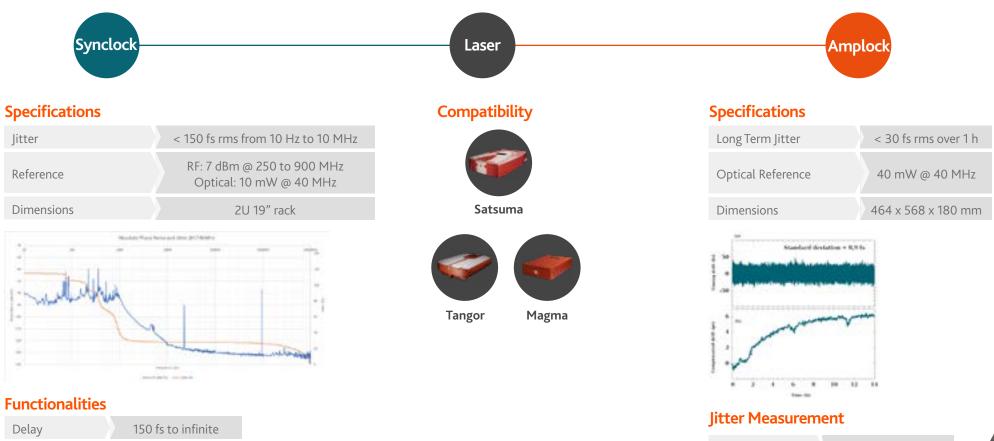
> Synchronization with RF

> Remote Delay & Scanning

> Amplifier drift compensation



## Synchronization offer







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