

The most complete and advanced Femtosecond & Nanosecond laser portfolio

Ti:Sa solution: from TW level to multi-PW level system

Laser 4.0 HE

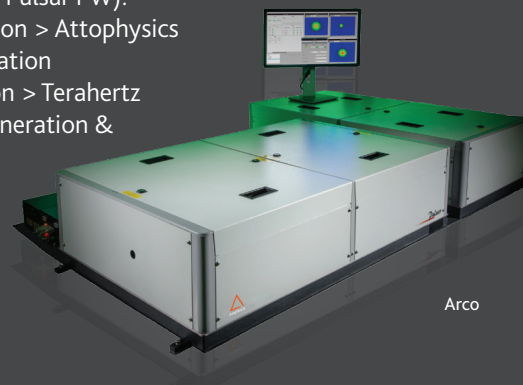
Arco: #Ti: Sapphire #Amplifiers #Ultra intense femtosecond lasers

Key parameters: Up to 40 W, single shot to multi-kHz, CEP

Pulsar PW: #Ultra intense #Ultrafast laser #Reliability #Sub 20 fs

Applications (Arco and Pulsar PW):

- > High harmonic generation > Attophysics
- > Spectroscopy > Filamentation
- > Laser wakefield acceleration > Terahertz
- > Plasma physics > Particle generation & acceleration X-Ray Imaging
- > Proton therapy



Arco

Follow Amplitude we-chat account!



Nanosecond Advanced Lasers

NEW Elite: #Innovation #Performance #Best value

Key parameters: 100 J @ 1053 nm & 75 J @ 527 nm
Single beam

Premiumlite: #High repetition #High energy
#DISK technology

Key parameters: Up to kJ level, Up to 750 W

Applications (Elite and Premiumlite):

- > Pumping of PW-class laser systems > Laser Dynamic Shock Compression > LIDT metrology (IR, green) > High energy frontier science > Ti:Sapphire pumping for PW and multi-PW Laser systems > Laser driven shock applications
- Options:** #Attenuators #Spectral Smoothing Device



Elite



Premiumlite

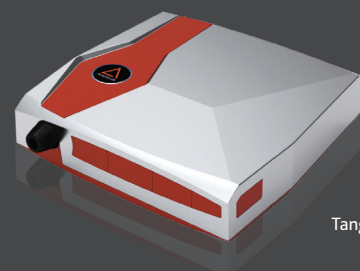
Yb HR: HHG source, high flux, high photon energy, most efficient

Tangor & Tangerine: #Customization function FemtoBurst™

#Trigger on demand - FemtoTrig™ #SuperSync Control

Key parameters: Up to 300 W, Down to 15 fs, CEP

Applications: > Micromachining > Ultrafast Spectroscopy
> High harmonic generation > Attoscience



Tangor 300

Yb HE: Industrial Ytterbium solution from few mJ to hundreds of mJ

Magma: #High energy #Ultrafast laser #Customizable configuration

Key parameters: Up to 500 mJ, Down to 500 fs, multi-kHz

Applications: > THz > ICS > Filamentation > Photocathode



Magma