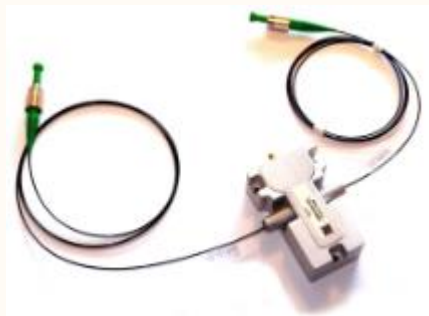




AA OPTO-ELECTRONIC and QUANTA TECH propose one of the most complete range of standard Acousto-optic components and associated Radio frequency drivers. AO devices cover wavelengths from 180 nm to 11  $\mu\text{m}$ . The range of RF drivers cover from DC to 3 GHz and up to 500 W. Drivers are matched to AO devices. Custom devices are welcome.

INFOS - ACOUSTO-OPTIC - RF DRIVERS - CUSTOM ELECTRONICS - 27.07.2020



### FIBRE PIGTAILED

AA proposes scientific and industrial fibre components: modulators, pulse pickers, frequency shifters, q-switches...

Wavelengths from 400nm up to 2200nm...

Fibres Multi modes, Single Modes, PM, PLMA....



### 2 axis - 1 axis DEFLECTORS

AA proposes wide band, high efficiency, large apertures acoust-optic deflectors with their associated frequency drivers based on VCO or Direct Digital Synthesizers.

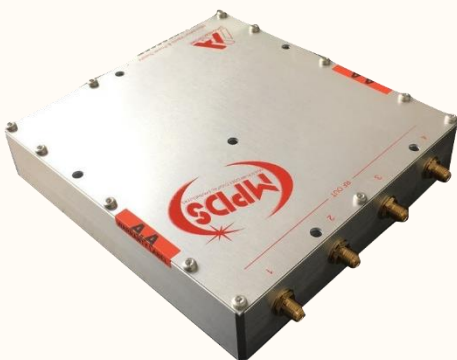
Wavelengths from 400nm up to 1600nm...



### NEW ULTRA COMPACT DRIVER

AA proposes an ultra compact, dual AM control digital+analog fixed frequency driver for AO modulators, fixed frequency shifters and pulse pickers.

Available up to 160MHz and up to 2.5W, this driver offers a huge extinction ratio with a very compact size...



### MULTI OUTPUTS DRIVER

AA proposes a special driver with up to 4 or 8 independent outputs. This driver based on individual frequency synthesizers allows the use of different frequencies and powers for each output.

It is perfectly suitable to drive multiple AO devices or multi channels AOMs...

## European project - MultiFlex – Making ultrafast lasers faster

Ultrafast lasers with pulse durations down to the femtosecond range are known for their ultra-precise ablation and cutting results, but also for their long process durations. Funded by the EU, the MultiFlex project aims to make material processing with ultrafast lasers up to a hundred times faster by using a high-power USP laser with more than 1kW average power and a selective multibeam approach to deliver the power efficiently to the workpiece. Several partners are involved in this project including AA Opto Electronic.

[Watch the video here](#)

### AA's Contribution

AA Opto Electronic is quite proud to make its contribution to this project, by developing and designing a high optical power Acousto Optic Modulator (AOM) together with the associated RF driver. The AOM here is a multi-channel one capable of handling up to 8 beams simultaneously and switching them ON/OFF individually with rise/fall time < 200 ns. Thanks to our RF electronics experience, we have also developed the associated

RF driver based on synthesizers with 8 outputs. With this complete set, AA will certainly help to reduce the overall process time required for this project.



We Welcome all your challenging projects...