

Acousto Optic Q Switch Electronic Control

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Q-Switches AA propose a line of Acousto-optic Q-switches and associated RF drivers, for a wide range of applications. They are manufactured from the highest quality materials, with optimized hard coatings for high damage threshold and long term operation.

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Acousto-Optic Q-Switch. The Acousto-optic Q-switch is a special modulator that introduces high repetition frequency loss in the laser cavity. Rather than being continuous-wave output, it causes the output to be composed of a series of light pulses with extremely high peak power and short pulse duration. The Q-switch allows: efficient control of Q factor

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Acousto-optic modulators (AOMs) can be optimized for the particular application of Q switching lasers . Such an acousto-optic Q switch is placed inside a laser resonator . While the laser is pumped, the RF input of the AOM is switched on, on that the diffraction losses of light circulating in the resonator are high (because the diffracted beams leave the resonator), and lasing is suppressed.

[RP Photonics Encyclopedia - acousto-optic Q switches ...](#)

Q-switches are intracavity devices used to generate very high peak power, short duration laser pulses. These are typically loss modulators operating on the zero order beam. The goal of a Q-switch is to diffract as much power from the zero order as possible to increase the cavity loss and extinguish the laser output.

[Q-Switches - Isomet Corporation Acousto Optics](#)

The acousto-optic Q-switch (AOQS) is a special modulator that designed for generation of high intensity pulsed light. It can diffract a portion of the laser out from the cavity (Raman Nath or Bragg regime) when it applied the RF signal. it increases the cavity losses and prevents oscillation. When the RF signal is switched off, the cavity losses decrease rapidly and it will produce the evolves of intense laser pulse.

[Acousto-Optic Q-Switches CASTECH INC.](#)

Acousto-optic Q-switches store laser energy. Acousto-optic Q-switching, traditionally used in high-power Nd:YAG systems, expands to cover diode-pumped laser systems. Diana Zankowsky, Contributing Editor. One of several techniques available for modulating the output beam of a laser is Q-switching.

[Acousto-optic Q-switches store laser energy | Laser Focus ...](#)

Q-Switches (AOQS) An acousto-optic Q-switch (AOQS) works within a laser cavity to generate high intensity, pulsed light by actively controlling the Q-factor (loss) of the cavity. Our acousto-optic Q-switches are rugged, reliable, and long-lasting, backed by millions of hours of service in the field. We offer low insertion loss, highly efficient acousto-optic Q-switches capable of handling very high peak power, and will draw on our 35 years of experience to match the cavity length, repetition ...

[Q-Switches \(AOQS\) | G&H](#)

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A Q switch is a device which can be quickly switched between states where it causes very low or rather high losses, respectively, for a laser beam sent through it. Such devices are typically used within a laser resonator with the purpose of active Q switching the laser ; this is a technique for generating short intense pulses , where the pulse duration is typically in the nanosecond range.

[RP Photonics Encyclopedia - Q switches, acousto-optic ...](#)

Most acousto-optic devices operate in the Bragg regime, the common exception being acousto-optic mode lockers and Q-switches.

[Acousto Optic Principles](#)

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Nu Opto is committed to designing and building high-quality cost effective Acousto-Optic Q-Switch solutions offering high reliability and excellent performance.

[Q-Switches \(AOQS\) | Nu Opto Inc. Acousto-Optic Solutions.](#)

ACOUSTO-OPTIC Q-SWITCH & ELECTRONIC CONTROL 1.0 ACOUSTO-OPTIC Q-SWITCH: The U. S. Laser high power acousto-optic Q-Switch is an optical device utilizing Bragg diffraction to spoil the gain of the laser cavity, allowing loss modulation, or, "Q-Switching".

[ACOUSTO-OPTIC Q-SWITCH ELECTRONIC CONTROL](#)

A simple method of modulating the optical beam travelling through the acousto-optic device is done by switching the acoustic field on and off. When off the light beam is undiverted, the intensity of light directed at the Bragg diffraction angle is zero. When switched on and Bragg diffraction occurs, the intensity at the Bragg angle increases.

[Acousto-optics - Wikipedia](#)

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The two acousto-optic Q-switches (QSG41-4, fabricated by 26th of CETC) are synchronously driven by a RF generator with 41 MHz frequency, longitudinal wave and 100 W total RF power. The optical material is made of fused silica with AR coated at 1.06 \u00b5m and cooled with flowing water.

[Fiber coupled 1 kW repetitively acousto-optic Q-switched ...](#)

The Acousto-optic Q-switch is a special modulator that introduces high repetition frequency loss in the laser cavity. Rather than being continuous-wave output, it causes the output to be composed of a series of light pulses with extremely high peak power and short pulse duration. The Q-switch allows: efficient control of Q factor

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Acousto Optic Devices Brimrose is a world technology leader in the area of Acousto-Optic components. Product lines include Acousto-Optic Tunable Filters (AOTFs), Acousto Optic Modulators, Acousto Optic Frequency Shifters, Acousto Optic Mode Lockers, Acousto Optic Deflectors, Acousto Optic Cavity Dumpers and Acousto Optic Q-Switches.

[Acousto Optic Devices from Pacer](#)

Innovative acousto-optic device designs stretch minimize undesirable effects of crosstalk, light leakage, and beam distortion. Our Fiber-Q \u2122 line of fiber-coupled acousto-optic modulators received the prestigious Queen's Award for Enterprise: Innovation in 2016 and the Institute of Physics (IOP) Award for Innovation in 2014.