



Since 1981

Buyer's Guide

Innovation in Engineering



www.conoptics.com

sales@conoptics.com / support@conoptics.com

800- 748-3349



Made in USA

Modulation Systems - MPM

Conoptics, a pioneer in the manufacturing of optics and laser accessories has developed a solution for Multi-Photon Microscopy (MPM).

Multiphoton fluorescence microscopy is a powerful research tool that combines the advanced optical techniques of laser scanning microscopy with long wavelength multiphoton fluorescence excitation to capture high-resolution, three-dimensional images of specimens tagged with highly specific fluorophores.

Conoptics' Model 350-80LA with BK (resonance-dampened) Option is a KD*P Series Electro-Optic modulator. When configured with our Model 302RM amplifier offers the ability to control laser intensity as well as high-speed shuttering. In addition, this solution can control beam attenuation and fly-back blanking with minimal dispersion and full modulation over the lasers bandwidth. The system operates center in/out with no spatial dispersion and rise/fall times of 1 micro-second.



Made in USA

Pulse Selection System

Conoptics has developed a complete line of Pulse Selection Systems for use with Ti:Sapphire, YAG, YLF and OPO's from 350nm-to 1600nm applications. Customized options are also available.

Specifications:

- Select from single shot to 30 MHz rep rate for middle locked lasers running as high as 100 MHz.
- Low Temporal Dispersion, compatible with FSEC pulses, no spatial dispersion.
- Optical, Transmission > 80%
- Available for Ti: Sapphire and OPO's 350 to 1600 nm



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Deflection System

Conoptics' series of electro-optic deflectors are the most efficient mechanisms for changing the angle of a laser beam. Conoptics EOD's can scan a laser beam over a range of angles, or control the output angle of a laser beam with great accuracy. We employ a quadrupole electric field in an electro-optic material to produce a linear refractive index gradient proportional to the applied sig-

Our electro-optics deflectors are configured to eliminate the piezo-electric ringing that is normally found in EOD's. Equally impressive is that our design has no moving parts, they do not fatigue with prolonged use, and an entire beam is deflected (unlike the acousto-optic devices). The angular deflection of E- O Deflectors is small and has rapid random access response and is extremely precise.



Noise Eaters

Conoptics Laser Stabilization System (LASS-II) is designed to lower the noise intensity in laser beams. The LASS-II significantly enhances the signal to noise ratio of a laser over a broad bandwidth. Customized options are also available upon request.

The LASS-II is particularly convenient for use in recording systems where laser power must be varied as a function of position on the recording medium (i.e. video disc, flat bed recorders, etc.). The system is composed of feedback electronics, power supply and electro-optic modulator with integrated beam-splitter and photodiode amplifier


Optical Isolators



Made in USA

All Isolators are supplied 5mm aperture , (2) GLAN type polarizer's with double escape ports.

700 Series Tuning Ranges

Model Number	Tuning Range	Isolation	Transmission
711A	500- 645	37-40 dB	92%
711C-1	350-390	28-30 dB	85%
711C-2	390-450	28-30 dB	85%
711C-3	425-500	28-30 dB	85%
712A	532-715	37-40 dB	92%
712B	644-780	37-40 dB	92%
712TGG	700-900	37-40 dB	92%
713A	650-900	37-40 dB	92%
713B	790-980	37-40 dB	92 %
714	680-1080	37-40 dB	92%
715	965-1135	37-40 dB	92%
716 (Double)	SPECIFY CENTER 	56-60 dB	88%
716TGG	1064	56-60 dB	88%
815	1020-1100nm	30 dB	92%



Mounts and Accessories

Conoptics Accessories

-Conoptics has developed a complete line of mounts for use with our modulators and deflectors. Customized options are also available.

Modulation Systems – Input Polarizer

-Input Polarizer is used to improve the purity of the laser beam entering the pockel-cell. The performance of our modulators in particular the extinction ratio and transmission, are dependent on proper alignment of the laser beam and its polarization.

Beam Blocker

-Conoptics' new "Beam Block" assembly allows an integrated solution that terminates the rejected component of the polarizer. This innovative design eliminates the need for any external beam block, and provides a safer setup design.

Model 201 – Laser Attenuator/Power Splitter

-Conoptics has released the Model 201 Laser Attenuator / Power Splitter that permits the end user to split the laser beam exiting the Ti:Sapphire into (2) distinct beams and control the power for each instance.

Global Representatives

<p>AUSTRALIA</p> <p>Lastek Pty. Ltd Thebarton Campus University of Adelaide 10 Reid St. Thebarton, S.A. 5031 Australia Tel- 61-8-8443 8668 Fax 61-8-8443 8427 e-mail: sales@lastek.com.au Contact: Alex Stanco</p>	<p>BELGIUM/LUXEMBOURG</p> <p>Acal BFi Belgium Lozenberg 4 1932 Zaventem Belgium Tel. +32 (0)2720 5983 Fax (32) 014-570 679</p> <p>Website: www.acalbfibe.be e-mail: sales-be@acalbfibe.be contact: Michel Simon</p>	<p>BRAZIL</p> <p>QuantumTech Rua: Capitão Adão Pereira Souza Cabral, 467 São Carlos – SP – Brazil Tel: 55- 16- 3374-7673 Fax: 55-16- 2207- 7883 e-mail: andrea@quantum-tech.com.br Contact name: Andreia Ferrari</p>	<p>SWITZERLAND</p> <p>GMP sa Case postale CH-1020 Renens Switzerland Tel-021/633 21 21 Fax- 41 21 633 2129 e-mail: info@gmp.ch</p>
<p>CHINA</p> <p>Aunion Tech Co.,Ltd Rm. 905, F Building, Ever- bright Convention and Exhi- bition Center, No. 86 Caobao road,Shanghai 200235 China Tel: +86-21-51083793 Fax: +86-21-34241962*8009 Mobile: +86-18501662513 Website: www.auniontech.com E-Mail: info@auniontech.com or jinquan-tian@auniontech.com Contact: Allen Tian</p>	<p>TAIWAN</p> <p>Onset Electro-Optics, Co. Ltd. 5f-2, NO. 129, Lane 235, Baoqiao Rd., Xindian Dist., New Taipei 23145, Taiwan, ROC Tel: +886-2-8919-1688 Fax: +886-2-8919-1684</p> <p>website: www.onset-eo.com e-mail: sales@onset-eo.com</p>	<p>SCANDINAVIA</p> <p>Azpect Photonics AB Aminogatan 34 SE-431 53 Mölndal, Sweden Tel: +46 8 55 44 24 80 Dir: +46 8 55 44 24 94 Fax: +46 8 55 44 24 99 Company Web: www.azpect.com e-Mail: joakim.karnbratt@azpect.com Contact: Joakim Kärnbratt</p>	<p>UK/IRELAND</p> <p>Lambda Photometrics Ltd Lambda House Batford Mill Harpenden Herts AL5 5BZ U. K. Tel-01582 764334 Fax-01582 712084 e-mail: info@lambdaphoto.co.uk Contact: Matthew Ball</p>

Global Representatives

<p>FRANCE</p> <p>Acal BFi France SAS 4 Allée du Cantal Z.I. La Petite Montagne Sud CE 1834-91018 EVRY Cedex France Tel: +33 (0)1 60 79 59 06 Fax: 33 1 60 79 89 01</p> <p>Website: www.acalbfi.fr e-mail: photonique.fr@acalbfi.fr Contact: Damien BRISSOT</p> <p>Jocelyn TANAÏS</p>	<p>GERMANY</p> <p>POLYTEC GMBH Polytec-Platz 1-7 D-76337 Waldbronn GERMANY Tel. +49 (0) 7243 604-0 Fax +49 (0) 7243 69944 e-mail: h.rossmann@polytec.de Contact: Helmut Rossmann</p>	<p>ITALY</p> <p>ATLASER Via Novoli 91N-50127 Firenze Italy Tel-055 4360771 Fax 055 431472 e-mail : atlaser@tiscalinet.it Contact: Andrea Tappi</p>	<p>JAPAN</p> <p>Japan Laser 2-14-1 Nishiwaseda-Shinjuku Tokyo , 169 Japan Tel- 03-5285-0861 Fax- 03-5285-0860 e-mail: yoshikawa@japanlaser.co.jp Contact: M. Yoshikawa (Tokyo) H. Kihara (Osaka)</p>
<p>JAPAN</p> <p>Phototechnica Corporation 1-2-17 Minamiurawa, Minami-Ku, Saitama-Shi, Saitama 336-0017, Japan TEL: 81-48-871-0067/FAX: 81-48-871-0068 Company Web: www.phototechnica.co.jp e-Mail: yobara@phototechnica.co.jp Contact: Yoshio Obara</p>	<p>KOREA</p> <p>Korea Electro-Optics Co. Ltd 226 Samjung-Dong , Ojung-Ku Boochun Si . Kyongki-Do 421-150 Korea Tel-032-673-6114 Fax 032 673-4010 e-mail: sales@keocvi.com</p>	<p>KOREA</p> <p>Qbic Laser System Inc. Techno Park 303-90, Samjeong-Dong, Ojeon-Gu Bucheon-Si, Kyoungki-Do 421-741, Korea TEL: 82-32-325-4544 FAX: 82-32-323-4736 Company Web: www.qbiclaser.com email: ckkim@qbiclaser.com Contact:C.K.Kim</p>	<p>THE NETHERLANDS</p> <p>Acal BFi Netherlands BVLuchthavenweg 535657 EA Eindhoven The Netherlands Tel. +31 (0)40 250 7400 Fax (31) 0172-44 34 14</p> <p>Website: www.acalbfi.nl e-mail: sales-nl@acalbfi.nl contact: Rob Satink</p>

About Us

A leader in optics & laser accessories

-Conoptics was founded in 1981 by former product managers of the Coherent Modulator Division and is a global leading manufacturer of laser accessories. Our products are utilized at research laboratories, disc manufactures, universities, military and laser manufactures.

Conoptics Milestones:

- Designed the first DC to 100MHz air-cooled modulation system
- Developed e-o modulators for color-separation systems used in laser scanners
- Developed modulation systems for video-disc mastering systems which included Noise-eaters for removing laser noise and exposure control. These systems also included high speed modulation for video content and multi-function deflector for code tracking
- Developed modulators for use in deep UV (257nm)
- Developed modulators and high speed drivers for use in pulse selection systems and regen switches
- Developed optical isolators for use over the Visible and near IR
- Worked jointly with Cornell University (Webb Group) to develop low dispersion modulator for use in Multi-Photon Microscopy (MPM)
- Designed miniature optical isolators for use in 3-D measuring systems
- Developed high speed, high extinction ratio modulation system for the semi-conductor industry

CONOPTICS HISTORY

Since 1981



HISTORY

32 YEARS IN BUSINESS 

1ST IN CUSTOMER SATISFACTION RATING 

WORK

TOP SELLING PRODUCT MODULATOR **30k** 

19 GLOBAL STRATEGICALLY PLACED REPRESENTATIVES 

SALES

65%

- EO MODULATION SYSTEM
- PULSE PICKER
- ISOALTOR
- DEFLECTION
- OPTICS

MADE IN USA 

Conoptics works hand-in-hand with hundreds of top name Universities throughout the country as well as globally.

-  HARVARD
-  YALE
-  CORNELL
-  BYU
-  STANFORD

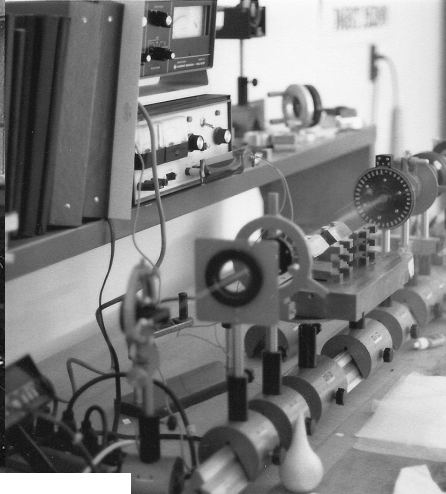
MILESTONES

CONOPTIC'S PRODUCTS ARE UTILIZED IN:

-  **RESEARCH LABORATORIES**
-  **MANUFACTURES**
-  **EDUCATION**
-  **MILITARY**



DEVELOPED MODULATORS FOR USE IN DEEP UV



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