

Worldwide Distributors

Baltic, Nordic

Von Gegerfelt Photonics
Tel.: +49-6251 860 99 20
Fax: +49-6251 860 99 17
dvg@vgphotonics.eu
www.vgphotonics.eu

Italy

LOT-Oriel Italia
Tel.: +39-02 26 82 21 04
Fax: +39-02 26 82 50 07
info@lot-oriel.it
www.lot-oriel.it

Singapore/Malaysia

PhotoniTech Pte Ltd
Tel.: +65-65 70 33 86
Fax: +65-62 33 91 71
csales@photonitech.com
www.photonitech.com

Benelux

Applied Laser Technology (ALT)
Tel.: +31-499 37 53 75
Fax: +31-499 37 53 73
info@alt.nl
www.alt.nl

Japan

Japan Laser Corp.
Tel.: +81-352 85 08 61
Fax: +81-352 85 08 60
lase@japanlaser.jp
www.japanlaser.jp

Taiwan

Tayhwa Technology Co. Ltd.
Tel.: +88-62 23 56 97 37
Fax: +88-62 23 56 96 59
tayhwa@tayhwa.com.tw
www.tayhwa.com.tw

China

Pinnacle Scientific Corporation
Tel.: +86-571 88 22 51 51
Fax: +86-571 88 22 52 52
sales@psci.cn
www.psci.cn

Korea

DongWoo Optron Co., Ltd.
Tel.: +82-317 65 03 00
Fax: +82-317 65 02 22
optron@optron.co.kr
www.optron.co.kr

Turkey

Mitra Anonim Sirketi
Tel.: +90-212 347 47 40
Fax: +90-212 347 47 45
info@mitralaser.com
www.mitralaser.com

France

Photon Lines
Tel.: +33-130 08 99 00
Fax: +33-130 08 99 09
info@photonlines.com
www.photonlines.fr

Poland

Amecam
Tel.: +48-22 207 22 78
Fax: +48-22 207 28 77
amecam@amecam.pl
www.amecam.pl

UK

Photon Lines Ltd.
Tel.: +44-12 95 72 42 25
Fax: +44-12 95 72 42 26
info-uk@photonlines.com
www.photonlines

Israel

Militram
Tel.: +97-299 58 18 60
Fax: +97-299 57 43 83
militram@militram.com
www.militram.com

Spain

LASER Technology S.L.
Tel.: +34-937 50 01 21
Fax: +34-937 50 03 23
josecochon@laser-technology.com
www.laser-technology.com

USA

Market Tech, Inc.
Tel.: +1-83 14 61 11 01
Fax: +1-83 14 61 11 36
info@markettechinc.net
www.markettechinc.net

For Life Science Applications

Germany, Austria, Switzerland, Scandinavia

Von Gegerfelt Photonics
Tel.: +49-6251 860 99 20
Fax: +49-6251 860 99 17
dvg@vgphotonics.eu
www.vgphotonics.eu



Omicron-Laserage Laserprodukte GmbH
Raiffeisenstrasse 5e
63110 Rodgau, Germany
Tel.: +49-61 06 82 24-0
Fax: +49-61 06 82 24-10
mail@omicron-laser.de
www.omicron-laser.de



ISO 9001:2008



Wavelength Stabilised Laser Diode Modules

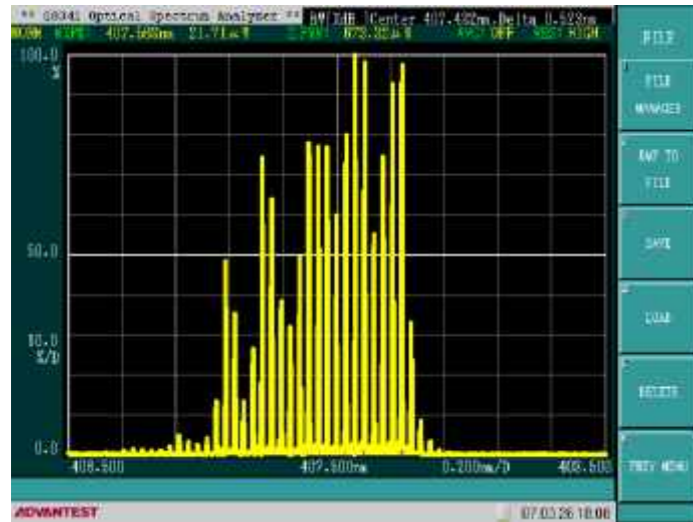
stable wavelength
high coherence length



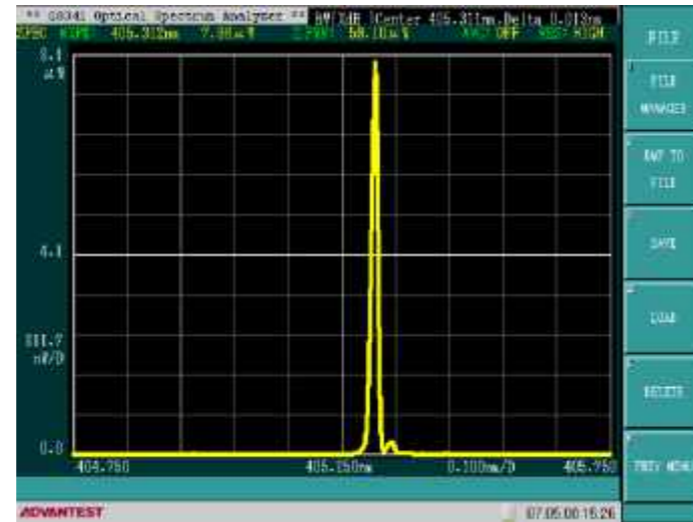
Wavelength Stabilised Laser Diode Modules

The **Bluephoton® WS** and **Redphoton® WS**, "Wavelength Stabilised" laser diode modules are using 375nm to 980nm laser diodes in an external cavity configuration to produce narrow linewidth and stable wavelength emission. Suitable for all UV/VIS/IR applications where wavelength sensitive elements like AO-modulators, electro-optic deflectors etc. are used in the beampath, the Photon-Series WS models are the right choice. The **Bluephoton® WS** UV/violet/blue laser diode modules are the most sophisticated light sources for replacement of gas lasers like Helium Cadmium, Argon Ion and Krypton lasers in high end applications for e.g. microlithography, digital holography, holographic data storage, wafer inspection, laser scanning microscopy aso.

The **Bluephoton® US** and **Redphoton® US** "Ultra Stabilised" laser diode modules offer even smaller bandwidth of <50 MHz. (<150MHz@405nm)



Optical bandwidth of normal 405nm laser diode modules



Optical bandwidth of the **Bluephoton® WS** 405nm wavelength stabilised laser

	Bluephoton® CWA.L.WS	Redphoton® CWA.L.WS	Blue/Redphoton® CWA.L.US
Wavelengths & Powers (other wavelengths and powers on request)	Single-Mode: 375nm / 16mW 405nm / 100mW Multi-Mode: 405nm / 350mW (M²<6)	Single-Mode: 638nm / 30mW 658nm / 100mW 808nm / 150mW 830nm / 150mW 976nm / 120mW 1061nm / 80mW	Single-Mode: 405nm / 40mW
Beam diameter (other diameters on req.)	1.25mm (1/e²) +/- 0.25mm (SM) 2.5mm (1/e²) +/- 0.5mm (MM)	1.25mm (1/e²) +/- 0.25mm	1.25mm (1/e²) +/- 0.25mm
Beam quality M²	< 1.2 (SM) < 6 (MM)	< 1.2	< 1.2
Astigmatism (corrected)	< 0.2*ZR	< 0.2*ZR	< 0.2*ZR
Beam ellipticity	< 1.1:1 (SM)	< 1.1:1	< 1.1:1
Optical bandwidth	< 0.02nm (FWHM)	< 0.2nm (FWHM)	< 150MHz(FWHM)
Polarisation	> 100:1 vertical	> 100:1 vertical	> 100:1 vertical
Power stability	< 0.5% / h	< 0.5% / h	< 1% / h
Noise 0Hz-100MHz	< 0.5% peak<>peak	< 0.5% peak<>peak)	< 1% peak<>peak)
Modulation speed	Analogue: 100Hz Digital: 10kHz	Analogue: 100Hz Digital: 10kHz	Analogue: 100Hz Digital: 10kHz
Supply voltage	24VDC, 2 Amp.		
Features	Safety interlock RS-232 Interface Remote connector		
Options	LDM.COL - collimator objective LDM.FOC - customized focussing objective LDM.FASY.XXX - fibre coupling unit LDM.24VPSU - worldwide power supply unit		