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Components brochure

April 2011

445NM ROYAL BLUE

All SwissLas Blue diode modules have
- high-end driver with delayed power-on; threshold current for linear modulation from 0.3 to 4.7V
- standby feature for total black-out

BLUE-1500-445F min. 1.000mW, max. 1.500mW / 445nm

Wavelength (nm)	445
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	0.1
Beam divergence, full angle (mrad)	<3.0
Beam diameter, at aperture (mm)	~4
Beam height from base (mm)	28.5
Polarization ratio	50:1 (diagonal)
Operating temperature	10 - 45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	45x80x40 mm, 0.22 kg
Power supply (stabilized)	12V DC,600mA up to 24V DC 300mA; variable power supply 12-24V DC. Very low power consumption, so existing pcb of scanners can be used

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BLUE-3000-445F min. 2.000mW, max. 3.000mW / 445nm

Wavelength (nm)	445
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	0.1
Beam divergence, full angle (mrad)	<3.0
Beam diameter, at aperture (mm)	~4
Beam height from base (mm)	28
Polarization ratio	50:1
Operating temperature	10 - 45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	150x60x45 mm, 0.6 kg
Power supply (stabilized)	12V DC 1200mA up to 24V DC 600mA; variable power supply 12-24V DC. Very low power consumption, so existing pcb of scanners can be used

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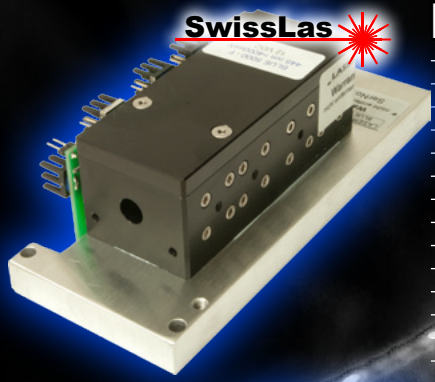

BLUE-5000-445F min. 4.000mW, max. 5.000mW / 445nm

Wavelength (nm)	445
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	0.1
Beam divergence, full angle (mrad)	<3.0
Beam diameter, at aperture (mm)	~4
Beam height from base (mm)	28
Polarization ratio	50:1
Operating temperature	10 - 45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	150x72x45 mm, 0.5 kg
Power supply (stabilized)	12V DC 3A

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BLUE-10.000-445F min. 8W, max. 10W / 445nm

Wavelength (nm)	445
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	0.1
Beam divergence, full angle (mrad)	<3.0
Beam diameter, at aperture (mm)	~4
Beam height from base (mm)	28
Polarization ratio	1:1
Operating temperature	10 - 45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	170x86x78 mm, 1 kg
Power supply (stabilized)	12V DC 6A

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BLUE-400-445 min. 300mW, max. 400mW / 445nm

Wavelength (nm)	445
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	0.1
Beam divergence, full angle (mrad)	~1.2
Beam diameter, at aperture (mm)	~3.5
Beam height from base (mm)	28.5
Polarization ratio	50:1 (diagonal)
Operating temperature	10 - 45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	45x80x40mm, 0.22kg
Power supply (stabilized)	12V DC 350mA up to 24V DC 200mA variable power supply 12-24V DC! very low power consumption, so existing pcb of scanners can be used

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high precision

BLUE-800-445 min. 650mW, max. 800mW / 445nm

Wavelength (nm)	445
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	0.1
Beam divergence, full angle (mrad)	~1.2
Beam diameter, at aperture (mm)	~3.5
Beam height from base (mm)	28.5
Polarization ratio	50:1 (diagonal)
Operating temperature	10 - 45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	45x80x40mm, 0.22kg
Power supply (stabilized)	12V DC 350mA up to 24V DC 200mA variable power supply 12-24V DC! very low power consumption, so existing pcb of scanners can be used

SWISS MADE

high precision

BLUE-1300-445 min. 1.000mW, max. 1.300mW / 445nm

Wavelength (nm)	445
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	<2
Beam divergence, full angle (mrad)	~1
Beam diameter, at aperture (mm)	~2x3
Beam height from base (mm)	28
Polarization ratio	50:1
Operating temperature	10 - 45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	150x80x45mm, 0.35kg
Power supply	12V DC, 4A

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high precision

BLUE-2500-445 min. 2.000mW, max. 2.500mW / 445nm

Wavelength (nm)	445
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	<2
Beam divergence, full angle (mrad)	~1
Beam diameter, at aperture (mm)	~3x3
Beam height from base (mm)	28
Polarization ratio	1:1
Operating temperature	10 - 45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	150x80x65 mm, 1 kg
Power supply (stabilized)	12V DC,6A

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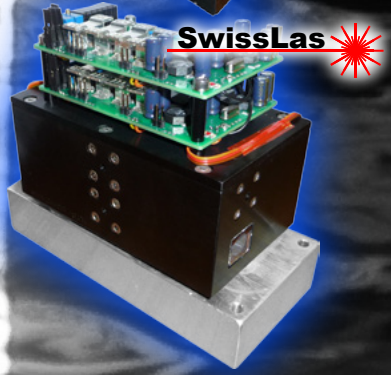
high precision



BLUE-4500-445 min. 4.000mW, max. 4.500mW / 445nm

Wavelength (nm)	445
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	<3
Beam divergence, full angle (mrad)	~1
Beam diameter, at aperture (mm)	~4x4
Beam height from base (mm)	28
Polarization ratio	1:1
Operating temperature	10 - 45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	150x80x100 mm, 2 kg
Power supply (stabilized)	12V DC, 12A

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high precision

640NM BRIGHT RED

Can you imagine to have a really sharp and accurate red laser beam with enormous power at the same time?
These super precise modules were developed to be used in high professional showlaser units. They provide great color at low size.

RED-200-640

min. 150mW, max. 200mW / 640nm

Wavelength (nm)	640
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	5
Beam divergence, full angle (mrad)	<1
Beam diameter, at aperture (mm)	~3
Beam height from base (mm)	15
Polarization ratio	50:1
Operating temperature	10-35°C
Expected Lifetime (hours)	5000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	77x30x30mm, 0.2kg
Size (LxWxH) /weight (PSU/driver)	105x47x38mm, 0.2kg
Power supply	85-265V 50-60Hz AC

RED-400-640

min. 300mW, max. 400mW / 640nm

Wavelength (nm)	640
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	5
Beam divergence, full angle (mrad)	<1
Beam diameter, at aperture (mm)	~3
Beam height from base (mm)	28
Polarization ratio	1:1
Operating temperature	10-35°C
Expected Lifetime (hours)	5000
Modulation	100kHz, analogue
Size (LxWxH) /weight (laserhead)	115x77x45mm, 0.5kg
Size (LxWxH) /weight (PSU/driver)	105x47x38mm, 0.2kg
Power supply	85-265V 50-60Hz AC

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RED-700-640

min. 550mW, max. 700mW / 640nm

Wavelength (nm)	640
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	<2
Beam divergence, full angle (mrad)	~1
Beam diameter, at aperture (mm)	~3
Beam height from base (mm)	28
Polarization ratio	50:1
Operating temperature	10-45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight	150x72x45mm, 0.5kg
Power supply	12V DC 3A

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RED-1200-640

min. 1.000mW, max. 1.200mW / 640nm

Wavelength (nm)	640
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	<2
Beam divergence, full angle (mrad)	~1
Beam diameter, at aperture (mm)	~3
Beam height from base (mm)	28
Polarization ratio	50:1
Operating temperature	10-45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight	150x72x45mm, 0,5kg
Power supply	12V DC, 5A

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RED-2400-640

min. 2.000mW, max. 2.400mW / 640nm

Wavelength (nm)	640
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	<2
Beam divergence, full angle (mrad)	~1
Beam diameter, at aperture (mm)	~3x3
Beam height from base (mm)	28
Polarization ratio	1:1
Operating temperature	10-45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight	170x86x78mm, 1kg
Power supply	12V DC, 6A

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RED-5000-640

min. 4.500mW, max. 5.000mW / 640nm

Wavelength (nm)	640
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	<3
Beam divergence, full angle (mrad)	~1.2
Beam diameter, at aperture (mm)	~4x4
Beam height from base (mm)	28
Polarization ratio	1:1
Operating temperature	10-45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight	360x86x78mm, 2kg
Power supply	12V DC, 14A

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532NM INTENSIVE GREEN

GREEN-500-532

min. 300mW, max. 500mW / 532nm

Wavelength (nm)	532
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	10
Beam divergence, full angle (mrad)	<1.5
Beam diameter, at aperture (mm)	~2
Beam height from base (mm)	20
Polarization ratio	>100:1
Operating temperature	22,5°C +/- 2,5°; max op. temp. driver: 60°C
Expected Lifetime (hours)	5000
Modulation	analogue
Size (LxWxH), weight - head/driver	110x32x31mm, 0,25kg / 170x60x29mm, 0,3kg
Power supply	12V DC 8A; 5-6V DC 12A (both needed)

GREEN-800-532

min. 500mW, max. 800mW / 532nm

Wavelength (nm)	532
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	10
Beam divergence, full angle (mrad)	<1.5
Beam diameter, at aperture (mm)	~2
Beam height from base (mm)	20
Polarization ratio	>100:1
Operating temperature	22,5°C +/- 2,5°; max op. temp. driver: 60°C
Expected Lifetime (hours)	5000
Modulation	analogue
Size (LxWxH), weight - head/driver	110x32x31mm, 0,25kg / 170x60x29mm, 0,3kg
Power supply	12V DC 8A; 5-6V DC 12A (both needed)

GREEN-1200-532

min. 800mW, max. 1.200mW / 532nm

Wavelength (nm)	532
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	10
Beam divergence, full angle (mrad)	<1.5
Beam diameter, at aperture (mm)	~2
Beam height from base (mm)	20
Polarization ratio	>100:1
Operating temperature	22,5°C +/- 2,5°; max op. temp. driver: 60°C
Expected Lifetime (hours)	5000
Modulation	analogue
Size (LxWxH), weight - head/driver	110x32x31mm, 0,25kg / 170x60x29mm, 0,3kg
Power supply	12V DC 8A; 5-6V DC 12A (both needed)

GREEN-2000-532

min. 1.200mW, max. 2.000mW / 532nm

Wavelength (nm)	532
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	10
Beam divergence, full angle (mrad)	<1.5
Beam diameter, at aperture (mm)	~2
Beam height from base (mm)	20
Polarization ratio	>100:1
Operating temperature	22,5°C +/- 2,5°; max op. temp. driver: 60°C
Expected Lifetime (hours)	5000
Modulation	analogue
Size (LxWxH), weight - head/driver	110x32x31mm, 0,25kg / 170x60x29mm, 0,3kg
Power supply	12V DC 8A; 5-6V DC 12A (both needed)

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GREEN-4000-532

min. 2.500mW, max. 4.000mW / 532nm

Wavelength (nm)	532
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	10
Beam divergence, full angle (mrad)	<1.5
Beam diameter, at aperture (mm)	~3
Beam height from base (mm)	27,4
Polarization ratio	>100:1
Operating temperature	22,5°C +/- 2,5°; max op. temp. driver: 60°C
Expected Lifetime (hours)	5000
Modulation	analogue
Size (LxWxH), weight - head/driver	197x70x50mm, 2,5kg / 170x60x29mm, 0,3kg
Power supply	12V DC 8A; 5-6V DC 12A (both needed)

GREEN-6000-532

min. 4.500mW, max. 6.000mW / 532nm

Wavelength (nm)	532
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	10
Beam divergence, full angle (mrad)	<1.5
Beam diameter, at aperture (mm)	~3
Beam height from base (mm)	27,4
Polarization ratio	>100:1
Operating temperature	22,5°C +/- 2,5°; max op. temp. driver: 60°C
Expected Lifetime (hours)	5000
Modulation	analogue
Size (LxWxH), weight - head/driver	197x70x50mm, 2,5kg / 170x60x29mm, 0,3kg
Power supply	12V DC 8A; 5-6V DC 12A (both needed)

GREEN-10.000-532

min. 7.500mW, max. 10.000mW / 532nm

Wavelength (nm)	532
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	10
Beam divergence, full angle (mrad)	<1.8
Beam diameter, at aperture (mm)	~4
Beam height from base (mm)	31
Polarization ratio	>100:1
Operating temperature	22,5°C +/- 2,5°; max op. temp. driver: 60°C
Expected Lifetime (hours)	10000
Modulation	analogue
Size (LxWxH), weight - head/driver	325x132x70mm, 2,8kg / 170x60x29mm, 0,3kg
Power supply	PSU included, 85-265V 50-60Hz AC

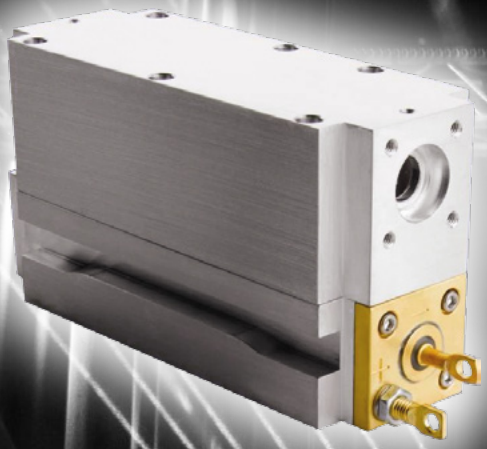
RB-MODULES

SwissLas

RB-1.5 640-445

min. 1.200mW, max. 1.500mW / 445+640nm
red: min. 550mW/640nm
blue: min. 650mW/445nm

Wavelength (nm)	445, 640
Operation mode	CW
Power stability (rms, over 4h)	<3%
Warm up time (minutes)	<2
Beam divergence, full angle (mrad)	~1
Beam diameter, at aperture (mm)	~3x3
Beam height from base (mm)	28
Operating temperature	10 - 45°C at ground plate
Expected Lifetime (hours)	10000
Modulation	100kHz, analogue
Size (LxWxH) /weight (module)	150x72x45mm, 0.5kg
Power supply	12V DC, 5A



COHERENT® TAIPAN

Red laser modules (COHERENT TAIPAN incl. RTI High End Driver)		Beam specs - standard version -	Beam specs - RTI super collimator -
RED-1300-639	1.000 mW - 1.300 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
RED-1800-639	1.500 mW - 1.800 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
RED-2500-639	2.000 mW - 2.500 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
RED-3000-639	2.500 mW - 3.000 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
RED-6000-639	5.000 mW - 6.000 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
Orange laser modules (COHERENT TAIPAN incl. RTI High End Driver)			
ORANGE-1500-607	1.250 mW - 1.500 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
Yellow laser modules (COHERENT TAIPAN incl. RTI High End Driver)			
YELLOW-4000-577	3.000 mW - 4.000mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
YELLOW-6500-577	5.000 mW - 6.500 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
YELLOW-7500-577	6.000 mW - 7.500 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
Mint laser modules (COHERENT TAIPAN incl. RTI High End Driver)			
MINT-2500-561	2.000 mW - 2.500 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
Green laser modules (COHERENT TAIPAN incl. RTI High End Driver)			
GREEN-4000-530	3.000 mW - 4.000 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
GREEN-6500-530	5.000 mW - 6.500 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
GREEN-10.000-530	8.000 mW - 10.000 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
GREEN-12.000-530	10.000 mW - 12.000 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
Cyan laser modules (COHERENT TAIPAN incl. RTI High End Driver)			
CYAN-4000-488	3.000 mW - 4.000 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
CYAN-6500-488	5.000 mW - 6.500 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
Cyan laser modules (COHERENT TAIPAN incl. RTI High End Driver)			
CYAN-1300-480	1.000 mW - 1.300 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
CYAN-2500-480	2.000 mW - 2.500 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
CYAN-5000-480	4.000 mW - 5.000 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
Blue laser modules (COHERENT TAIPAN incl. RTI High End Driver)			
BLUE-1300-460	1.000 mW - 1.300 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm
BLUE-2500-460	2.000 mW - 2.500 mW	ca. 1.0mrad/2mm	ca. 0.7mrad/3mm

The Coherent OPSL technology is highly demanded in showlaser industry. Thanks to the new subsidiary of Laserworld, Ray Technologies GmbH, we are now able to provide you these Taipan laser modules including high end RTI driver at extremely low price.

Coherent Taipan laser modules with BEST BUY GUARANTEE*!
Please ask for pricing!
*conditions please find on http://www.laserworld.com

For complete projectors with OPSL Coherent Taipan technology please refer to the RTI product brochure

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