BLUE, VIOLET & UV DIODE LASER MODULES



- · Active temperature control
- Beam circularization available
- Modulated versions available
- Stable wavelengths & output
- Adjustable focus

Blue, violet, and ultraviolet laser modules at a glance

Compact, versatile, and highly cost-effective, our blue, violet, and ultraviolet IQ (Instrument Quality) laser diode modules are ideal replacements for bulky, inefficient gas lasers. Most applications that use Argon-Ion, Helium Cadmium, and blue Nd:YAG lasers can take advantage of this newer, more efficient technology. Such applications include laser-induced fluorescence, high-resolution printing, interferometry, confocal microscopy, holography, Raman spectroscopy, and bio-

analysis

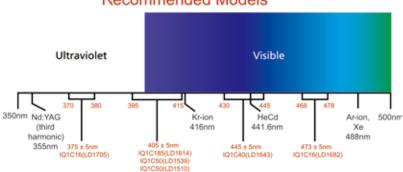
To meet the demands of your application, we now offer a 405 ± 10 nm 185mW IQ, our highest power violet module to date. We also offer a cir- Blue, violet, and ultraviolet laser modules at a glance cularized 405 ± 5 nm 50mW violet IQ, in addition to our standard elliptical beam version. Also available is our 16mW blue IQ unit at 473 ± 5 nm and our 40mW blue IQ at 445 ± 5 nm. In addition, we offer a 16mW ultraviolet IQ module at 375 ± 5 nm.

Our blue, violet, and ultraviolet IQ laser diode modules are available with a circularized beam or with standard elliptical output. In addition, each unit features active temperature control and exceptional wavelength stability. Modulated versions are also available.

APPLICATIONS

- Holography
- Spectroscopy
- Cancer detection
- · High-resolution printing
- IlluminationData storage
- Remote optical sensingFlow cytometry
- Laser-induced fluorescence

Recommended Models



IQ1C16 LD1682)	IQ1C40 (LD1643)	IQ1C430 (LD1741)	IQ1C320 (LD1763)	IQ1C185 (LD1614)	IQ1C50 (LD1539)	IQ1C50 (LD1510)	IQ1C16 (LD1705)
473 ± 5	445 ± 10	445 ± 10	405 ± 5	405 ± 10	405 ± 10	405 ± 10	375 ± 5
16	40	430	320	185	50	50	16
50 x 6.2 / 5 x 157.5**	1.50 x 6.2 / 38.05 x 157.5**	1.50 x 6.2 / 38.05 x 157.5**	1.50 x 6.2 / 38.05 x 157.5**	1.50 x 6.2 / 38.05 x 157.5	1.50 x 6.2 / 38.05 x 157.5	1.50 x 6.2 / 38.05 x 157.5**	1.50 x 6.2 / 38.05 x 157.5**
liptical***	elliptical***	elliptical***	elliptical***	elliptical	elliptical	elliptical***	elliptical***
5 x 40***	2.5 x 40***	2.5 x 40***	TBD	1.3 x 3.0	1.3	2.5 x 40***	2.5 x 40***
<0.5	<0.5	<1	<1	<1	<0.5	<0.5	<0.5
8 - 12	8 - 12	8 - 12	8 - 12	8 - 12	8 - 12	8 - 12	8 - 12
3000	3000	3000	3000	3000	3000	3000	3000
G26	G26	G26	G26	G26	G26	G26	G26
MB6	MB6	MB6	MB6	MB6	MB6	MB6	MB6
5	LD1682) 473 ± 5 16 50 × 6.2 / 5 × 157.5** liptical*** 5 × 40*** <0.5 8 - 12 3000 G26	LD1682) (LD1643) 473 ± 5 445 ± 10 16 40 50 × 6.2 / 1.50 × 6.2 / 38.05 × 157.5** elliptical*** elliptical*** <	LD1682) (LD1643) (LD1741) 473 ± 5	LD1682) (LD1643) (LD1741) (LD1763) 473 ± 5 445 ± 10 445 ± 10 405 ± 5 16 40 430 320 50 x 6.2 / 5 x 157.5** 1.50 x 6.2 / 38.05 x 157.5** 1.50 x 6.2 / 38.05 x 157.5** 38.05 x 157.5** diptical**** elliptical**** elliptical**** elliptical**** 5 x 40**** 2.5 x 40**** TBD <0.5	LD1682) (LD1643) (LD1741) (LD1763) (LD1614) 473 ± 5 445 ± 10 445 ± 10 405 ± 5 405 ± 10 16 40 430 320 185 50 x 6.2 / 5 x 157.5** 1.50 x 6.2 / 38.05 x 157.5** 1.50 x 6.2 / 38.05 x 157.5** 38.05 x 157.5** 50 x 157.5** 38.05 x 157.5** 38.05 x 157.5** 38.05 x 157.5** 60 cliptical**** elliptical**** elliptical 5 x 40**** 2.5 x 40**** TBD 1.3 x 3.0 <0.5	LD1682) (LD1643) (LD1741) (LD1763) (LD1614) (LD1539) 473 ± 5 445 ± 10 445 ± 10 405 ± 5 405 ± 10 405 ± 10 16 40 430 320 185 50 50 x 6.2 / 5 x 157.5** 1.50 x 6.2 / 1.50 x 6.2 / 38.05 x 157.5** 1.50 x 6.2 / 38.05 x 157.5** 1.50 x 6.2 / 38.05 x 157.5** 38.05 x 157.5**	LD1682) (LD1643) (LD1741) (LD1763) (LD1614) (LD1539) (LD1510) 473 ± 5 445 ± 10 445 ± 10 405 ± 5 405 ± 10 405 ± 10 405 ± 10 16 40 430 320 185 50 50 50 x 6.2 / 5 x 157.5** 1.50 x 6.2 / 38.05 x 157.5** 1.50 x 6.2 / 38.05 x 157.5** 1.50 x 6.2 / 38.05 x 157.5** <

^{**}Beam circularization available

^{***}IQ modules containing anamorphic prisms for beam correction are 7.5" [191.0mm] in length. See IQ2C drawing on the opposite side of this specification.