

SPECIFICATIONS



Custom Multimode Square Core Fiber Output

	ALBEDO LF	ALBEDO MF	ALBEDO HF
Numerical Aperture	0.22	0.14	0.12
Core dimensions, μm	200x200	200x200	200x200
Fiber Length, m	3	5	3
Max % Transmission	85	80	70
Spectral Bandwidth, nm	350-2 200	350-2 200	350-750
Polarization	Random	Random	Random
Max Optical power	12 W	12W	12W
Despeckle Frequency	300 Hz	300 kHz	800 kHz
Suitable Camera Frame Rate	$\leq 60\text{Hz}$	$\leq 1\text{kHz}$	$\leq 10\text{ kHz}$

ALBEDO Features and Benefits

- Top hat beam profile
- Infinity focus
- High speed modulation
- Spectral range: 350-2500 nm
- 80% of coupling efficiency
- Long-term stability of coupling
- 1 μs phase randomizer
- Speckle free

ERROL Laser Module

Laser Diode	Titan	Hydre	Triton	Hypérion	Eléra
Center Wavelength nm	405	473	532	570	640
Output Power mW	200	1 000	1 000		400
Center Tolerance +/- nm	5	5	1		0.5
Beam diameter 1/e2, mm	4	4x4	2.0		2.8
Beam structure	TEM 00	Multimode	TEM 00		TEM 00
Beam Divergence half angle, mrad	0.2	0.5x0.2	0.75		0.17
Linear Polarization	Yes	Yes	Yes		Yes
M2	≤ 1.1	-	≤ 1.2		≤ 1.1
Modulation frequency kHz	10	10	10		10

OPTIONAL LASERS MODULE

Microscopy Wide field Lighting
Total Internal Reflexion Fluorescence/TIRF
Total Internal Reflexion Macroscopy/TIRM
PALM / STORM
Retrofit Spinning Disk
Optogenetics for DLP
Photo activation/ Photo conversion
DLP Illumination

APPLICATIONS