

high speed confocal microscopy

* Led and Laser operation

- * Fast Spinning Disk with Sync Operation
- * Easy Slide-in Filters mount
- * Double Size Hole Pattern on same Disk
- * CCD Focusing without moving the CCD itself
- * Large Fo∨ (single hole pattern) up to I" × I"
- * Terrific Price/Performance Ratio



Emission WWW.CRESTOPT.COM Filter Wheel Dichroic Mirror -dser FRAP לעםר Spinnig Di FRAP Mirror FRAP Mirror ST Mirror WOJLdOISadJNNN



Led and Laser operation



CrEST LM3 Laser Launcher

LED and Laser high efficiency coupling



CrEST Lm5 Laser Launcher



Lumencor Light Source for X-LIGHT

Fast Spinning Disk with Sync operation



Double size hole pattern on same disk (for high and low NA) 70 micron - 40 micron fast spinning disk with sync output (10.000 rpm standard, up to 18.000 rpm on request)

Custom patterns are available for dedicated applications (90 - 120 days are required)



Easy Slide-in Filter Mount

Easy slide-in filters mount



Emission filter wheel



Dichroic filter wheel

CCD Focusing without moving the CCD itself



Focusing Lens doublet, with Fixed CCD position Easy alignment on your microscopy setup by means of the advanced LED / Laser launcher - optomechanic interface





Technical Specification

- Double hole pattern spinning disk, on same physical disk
- High density hole patterns, with Nipkow design
- 40 micron holes (for objective NA<1)
- 70 micron holes (for objective NA>1)
- Anti Reflection coated spinning disk for highest throughput on the market
 - Fast spinning disk 10.000 rpm; up to 18.000 on custom request
 - Up to 1420 frame/s (tested with CMOS High Speed Systems)
 - Custom hole patterns are available for dedicated applications (90-120 days delivery), from receipt of customer specification/pattern geometrical description
 - Excitation Gimbal mount for easy alignment on custom microscope setup and for best S/N
 - LED and Laser excitation mounts for high efficiency coupling
 - Motorized Dichroic three positions Filter Wheel (Five positions on custom request)
 - Manual four positions Emission Wheel
 - Easy Slide IN/OUT filter mount for fast filters exchange





Technical Specification



- C-mount thread on excitation and emission ports for motorized filter wheels easy mount
- Built-in FRAP mirrors and aperture for upcoming CrEST FRAP module or existing customer FRAP system
- CCD operation during FRAP sample laser scanning: suitable for laser scanning image acquisition and laser optical tweezing
- Large 1" x 1" Field of View for new sCMOS confocal imaging (on single hole pattern disk)
- CCD focal plane easy focusing without moving the CCD Camera
- Adapter for Multimode Laser FC/PC and/or SMA-905 fiber excitation
- Adapter for LUMENCOR LEDs Light Source



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