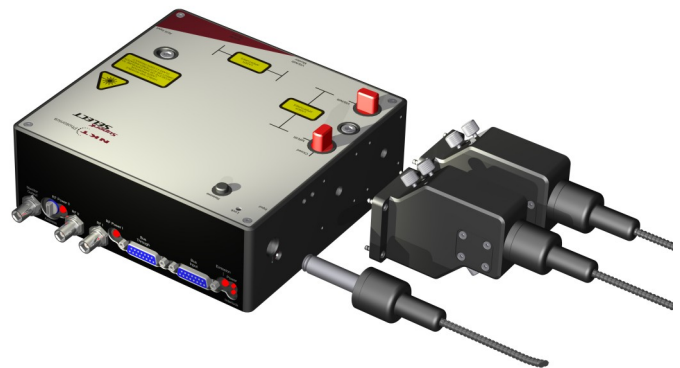


SuperK SELECT

- Wavelength tuning over 400-2400 nm
- Accusto Optical Tunable Filter (AOTF) technology
- Dual VIS/nIR, VIS/IR, nIR/IR port access
- 8 simultaneous, freely tunable wavelength channels
- Effortless connection to SuperK EXTREME
- Free space, collimated beam output, or fiber coupled
- SuperK Connect for stable and efficient single mode fiber delivery
- Easy to use SuperKontrol software interface

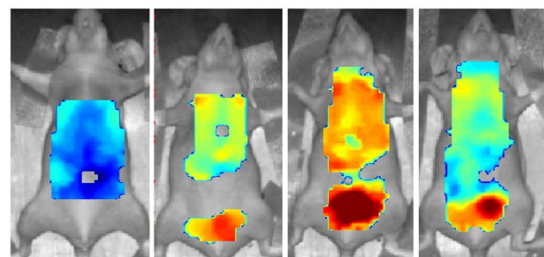
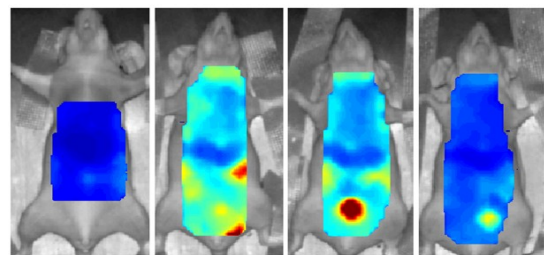


SuperK SELECT with SuperK Fiber Delivery

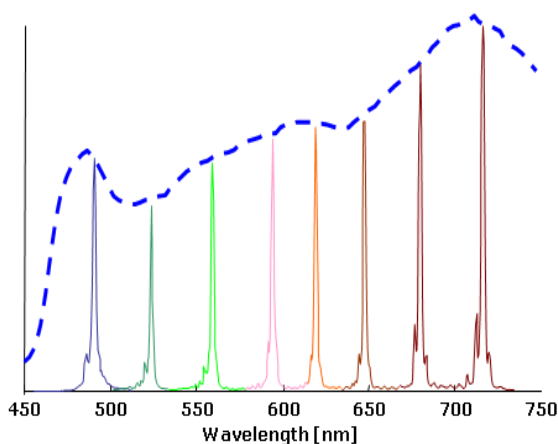
The SuperK SELECT is a tunable wavelength filter based on Acousto-optic Tunable Filter technology (AOTF). AOTFs tune over one octave of optical frequency and the SuperK SELECT allows the integration of two AOTF crystals to provide wide spectral coverage. Together with a range of unique features, the SuperK SELECT provides an easy to use, flexible and accurate tuning accessory to access any wavelength in the SuperK spectrum.

The SuperK SELECT has on-board intelligence. When connected to the SuperK EXTREME, the SuperKontrol software automatically recognizes and initializes the integrated AOTF(s) within SuperK SELECT making them ready for use. No need for complicated downloads, just plug in the SuperK SELECT and let the SuperK EXTREME take care of the rest!

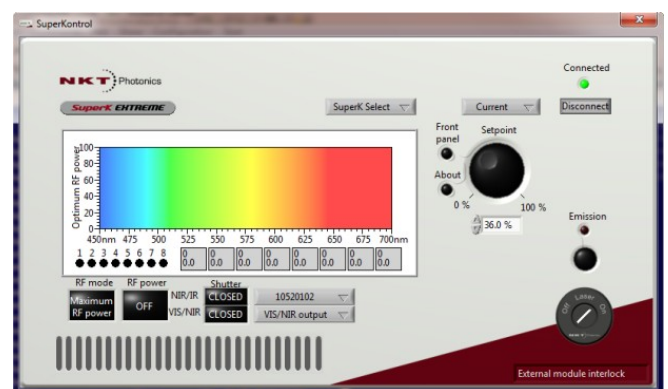
SuperK SELECT also features a built-in RF switch for toggling between the two AOTFs without physical cable connection changes.



SuperK EXTREME together with a SuperK SELECT optimized in the nIR used for in-vivo fluorescent lifetime imaging in a anaesthetized mouse (courtesy of ART Inc, Canada)



Independent power and wavelength control of up to 8 simultaneously available lines per AOTF. The visible wavelength range is shown here.



SuperKontrol software allows easy use of the SuperK SELECT

SuperK SELECT Specifications

AOTF Wavelength Coverage

UV-VIS	400 – 650nm
VIS (1x)	430 – 700nm
VIS (4x)	450 – 700nm
VIS-nIR	500 – 900nm
nIR 1	640 – 1100nm
nIR 2	800 – 1400nm
IR	1100 – 2000nm

Number of Tunable Lines 1 – 8 (per AOTF)

Filter Bandwidth* of AOTF (UV-VIS) 1,8 – 8,5nm

Filter Bandwidth* of AOTF (VIS 1x / VIS 4x) 0,5 – 1,85nm / 2,5 – 8,5nm

Filter Bandwidth* of AOTF (VIS-nIR) 3,5 – 14nm

Filter Bandwidth* of AOTF (nIR 1 / nIR 2) 1,8 – 5nm / 2,6 – 9,6nm

Filter Bandwidth* of AOTF (IR) 6,4 – 19,8nm

AOTF Deflection Efficiency > 90 % (1-8 channel operation)

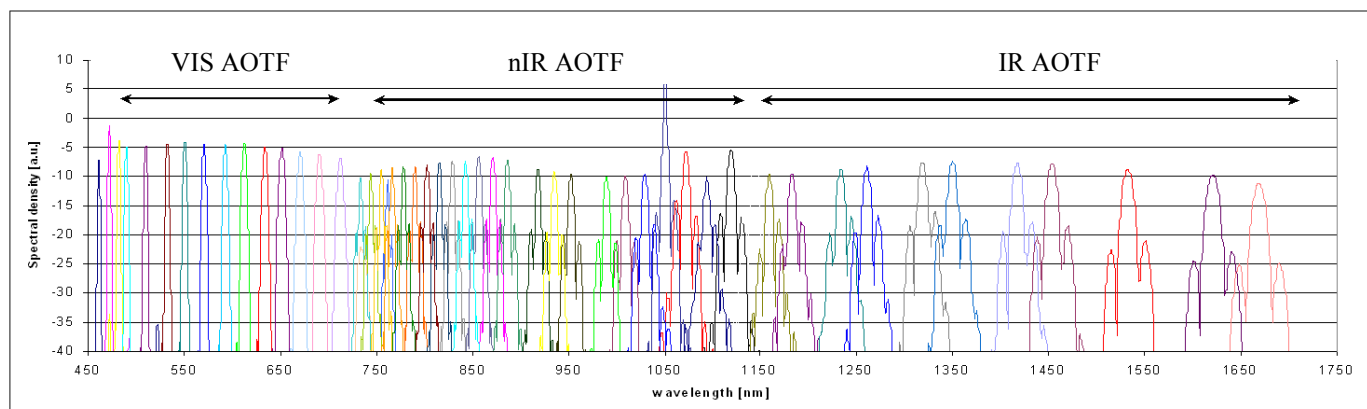
Polarization Linear

Output Mode Free Space Collimated or Fiber Delivery

Mechanical Shutter Integrated for both Output Ports

Laser Safety Interlock Integrated and linked with SuperK EXTREME Series

* Collimated free space output; FWHM bandwidth



Gapless coverage of the SuperK EXTREME Series spectrum

Specifications are subject to change without notice. Jan 2011
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Available AOTF combinations for SuperK SELECT

AOTF1/AOTF2	VIS-nIR 500-900nm	nIR1 640-1100nm	nIR2 800-1400nm	IR 1100-2000nm
UV-VIS 400-650nm	X	X	X	X
VIS (1x) 430-700nm	-	X	X	X
VIS (4x) 450-700nm	-	X	X	X
VIS-nIR 500-900nm	-	-	X	X
nIR1 640-1100nm	-	-	-	X
nIR2 800-1400nm	-	-	-	X

SuperK Fiber Delivery

Fiber delivery configurations

FD1	FD2	FD3	FD4	FD5	FD6	FD7	FD8	FD9	FD10
UV-VIS 400-550nm	VIS 450-750nm	VIS-nIR 600-900nm	nIR1 730-1100nm	IR 1000-1900nm	Ext. IR 1250-2400nm	VIS-nIR 400-1100nm	VIS - IR 600-2400nm	VIS - IR 500-1500nm	VIS-nIR 400-1100nm
SM; PM + non-PM; FC-APC	SM; PM + non-PM; FC-APC	SM; PM + non-PM; FC-APC	SM; PM + non-PM; FC-APC	SM; PM or non-PM; FC-APC	SM; non-PM; FC-APC	LMA; PM or non-PM, FC-PC or APC	LMA; non-PM, FC-PC	LMA; non-PM, FC-PC	MM, FC-PC

Fibers with collimated output available upon request

Standard single mode fiber delivery systems for fiber-to-fiber connections

AOTF1/AOTF2	VIS-nIR 500-900nm	nIR1 640-1100nm	nIR2 800-1400nm	IR 1100-2000nm
UV-VIS 400-650nm	FD1 + FD3	FD1 + FD3 (FD4)	FD1 + FD4 (FD5)	FD1 + FD5
VIS (1x) 430-700nm	-	FD2 + FD4 (FD3)	FD2 + FD4 (FD5)	FD2 + FD5
VIS (4x) 450-700nm	-	FD2 + FD4 (FD3)	FD2 + FD4 (FD5)	FD2 + FD5
VIS-nIR 500-900nm	-	-	FD2(FD3) + FD4(FD5)	FD2(FD3) + FD5
nIR1 640-1100nm	-	-	-	FD3(FD4) + FD5
nIR2 800-1400nm	-	-	-	FD4(FD5) + FD5

Broadband LMA (single mode) fiber delivery systems for fiber to free-space connections

AOTF1/AOTF2	VIS-nIR 500-900nm	nIR1 640-1100nm	nIR2 800-1400nm	IR 1100-2000nm
UV-VIS 400-650nm	FD7	FD7	FD7 + FD9 (non-PM)	FD7 + FD8 (non-PM)
VIS (1x) 430-700nm	-	FD7	FD7 + FD9 (non-PM)	FD7 + FD8 (non-PM)
VIS (4x) 450-700nm	-	FD7	FD7 + FD9 (non-PM)	FD7 + FD8 (non-PM)
VIS-nIR 500-900nm	-	-	FD7 + FD9 (non-PM)	FD7 + FD8 (non-PM)
nIR1 640-1100nm	-	-	-	FD7 + FD8 (non-PM)
nIR2 800-1400nm	-	-	-	FD9 (non-PM) + FD8 (non-PM)

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