



Polychrome V

Polychromes have always been the reference for microscope illumination devices since TILL Photonics released the **Original Polychrome** in 1993.

We have condensed 10 years of experience with illuminating your experiments into a highly compact package,

the **Polychrome V**



brighter

faster

more intelligent

more stable

easily adjustable

more versaTILL

Whether you do **ratio imaging** with rapid wavelength switching, **GFP-imaging** with a variety of fluorophores to be distinguished, **FRET** with the faintest signals to be detected, **Photometry** with very high time resolution, or **TIRF** with a combination of wide- and evanescent field, the **Polychrome V**, with its optimized condensers for all major microscopes, is

your light source



Your light source

Polychrome V

Is:

- Lighter due to a more intelligent heat sinking scheme
- More stable light output due to automatic temperature control
- Stand alone – no external control box needed
- Auto calibration with every start up
- Photodiode for continuous output intensity monitoring
- Easier adjustable than precursors
- Easy optical coupling to standard microscopes
- Rack mountable, half width of 19"

Specifications

Parameter	Value
Light source	150 W Xenon high stability lamp Ushio UXL S150 MO
Lamp power supply	200 W, current regulated
Lamp lifetime	3000 h
Monochromator	Scanner mounted diffraction grating
Wavelength range	320 nm to 680 nm
Half-power bandwidth	15 nm
Wavelength switch	1,4 ms
Scanning speed	Up to 400 nm/ms
Scanner controller	Digital
Interface	Voltage, RS232, trigger in and trigger out, USB
Control voltage range	-10 V to +10 V, -3 V to +3 V*
Optical fibre	UV/Vis quartz/quartz fibre, NA 0.22, length 2m or 3m
Fiber exit	Front or rear
Output power	> 10mW at 470 nm with new lamp
Operating voltage	105 V - 120 V, 210 V - 230 V
Size	42 cm x 24 cm x 21 cm
Weight	9.5 kg

Optional: continuously variable bandwidth control
continuously variable intensity control 0 – 100 %

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