

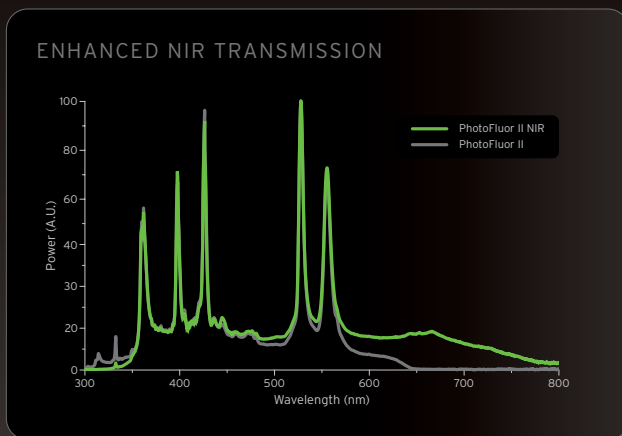
PhotoFluor® II and PhotoFluor II NIR

high powered, ULTRASTABLE light sources for quantitative fluorescence imaging

more power where you need it

The PhotoFluor® II and the PhotoFluor II NIR combines a powerful self-aligning 200W metal-halide lamp with a sputtered IR-blocking filter to deliver exceptional output intensity in the visible spectrum.

The PhotoFluor II has enhanced transmission in the UV while the PhotoFluor II NIR has enhanced NIR transmission allowing the user to focus on specific applications while minimizing damage to the Liquid Light Guide seen in other white light systems.



wavelength range

PhotoFluor II	340nm - 650nm
PhotoFluor II NIR	360nm - 800nm

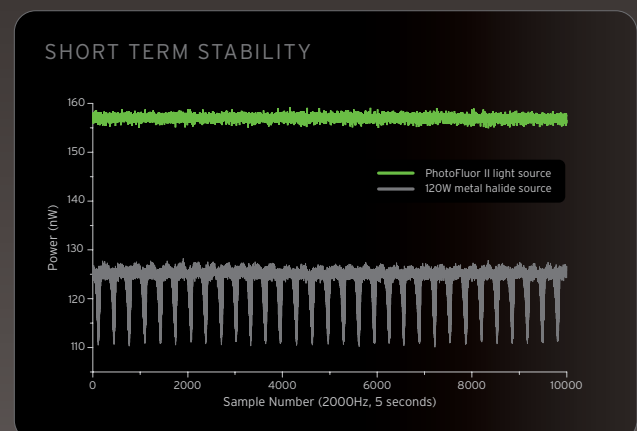
applications

The PhotoFluor II and PhotoFluor II NIR are well suited for imaging a wide array of fluorescence probes including:

Both PhotoFluor II and PhotoFluor II NIR	CFP, GFP, FITC, YFP, TRITC, mCherry, Texas Red, MitoTracker Red, Di-4-ANNEPS, F Iuo-4, Fura Red
PhotoFluor II	Fura-2, Indo-1
PhotoFluor II NIR	Cy7, IRDye 800, AlexaFluor 750, iRFP

stable output

Fluorescence imaging techniques have moved away from simple qualitative analyses to more rigorous quantitative experimentation. To accurately quantify sequential fluorescence images, it is essential that the output of your light source remain constant between exposures. Fluctuations in output intensity impart significant error in your experiments. The PhotoFluor II and the PhotoFluor II NIR offer unsurpassed output stability over both the short and long term, enabling truly quantitative fluorescence imaging.



For more details about this experiment, please visit www.89north.com/stableoutput

PhotoFluor® II and PhotoFluor II NIR specifications

PHYSICAL CHARACTERISTICS

Length	14.5in
Width	5.5in
Height	8.5in
Weight	16.6lbs
Main Cable	10A/250V; Jack IEC 320/C13
Power Supply	100-240V, 50/60Hz, 3.15A Sleep mode – turns lamp off while keeping system in low power standby mode
Fuse	T3.15A 250V
Lamp	200W, self-aligning metal-halide lamp with 1600-hour guaranteed lifetime

MOTORIZED 5-POSITION FILTER WHEEL

Contents	Attenuation screens, can accept heat tolerant excitation filters
Motorized Shutter	Approximately 250ms response time

AMBIENT CONDITIONS FOR OPERATION

Temperature	10° to 25°C (50° to 77°F)
Relative Humidity	30% to 75%

DISPLAY AND SAFETY FEATURES

Display and Safety Features	Clear display of lamp time, filter wheel position Automatic system diagnostics Resettable lamp counter with warnings Four line by 20 character display (dimnable) Safety interlocks, output light blocked in absence of light guide Overtemperature protection with software warnings and hardware shutdown
Compliance	ETL and CE/CSA compliant

SERIAL CONNECTION

Serial Control	Full computer control via ASCII or binary command set User controlled filter position Computer-controlled lamp shut off conserves power and lamp hours during long experiments User adjusted contrast, volume, filter wheel position names
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PART NUMBERS

	PhotoFluor II	PhotoFluor II NIR
System	10999-000-000	10998-000-000
3 mm x 2M Liquid Light Guide	20001-000-000	20023-000-000
5 mm x 2M Liquid Light Guide	20003-000-000	20024-000-000

Note: Use of the incorrect liquid light guide (LLG) with the PhotoFluor II or the PhotoFluor II NIR can result in premature aging of the LLG.

FILTER SETS

24001 DAPI/FITC/Texas Red with single band exciters for the PhotoFluor II	ET402/13x-pf ET490/20x-pf ET572/35x-pf 69002bs 69002m
24002 CFP/YFP/Red with single band exciters for the PhotoFluor II	ET430/24x-pf ET500/20x-pf ET577/25x-pf 69008bs 69008m
24003 DAPI/FITC/TRITC/Cy5 with single band exciters for the PhotoFluor II	ET360/40x-pf ET490-20x-pf ET555/25x-pf ET645/30x-pf 89100bs 89101m

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