

Flash Photolysis System

HIGH POWER FLASH LAMP FROM CAIRN RESEARCH LTD COMBINED WITH THE ULTRA STABLE PHOTOFLUOR[®] II FLUORESCENCE ILLUMINATION SYSTEM

UNCAGING STUDIES

Neurotransmitter studies via caged carbamylcholine carbachol, γ-aminobutyric acid and L-glutamic acid

Manipulation of intracellular calcium levels via caged Ca²⁺ chelators

RNA interference studies via caged siRNAs

Study of signal transduction pathways with caged nucleotides

Study of second messenger signaling cascades with caged inositol 1,4,5-triphosphate and/or caged cADP-ribose

PHOTOACTIVATION/PHOTOCONVERSION OF FLUORESCENT PROTEINS

PA-GFP

Dronp

tdEOS

SHORT TERM STABILITY OF PHOTOFLUOR II



Key Features

Variable charge capacitance of the flash lamp allows for fine control of the flash/photoactivation light intensity

Simultaneous flash and fluorescence illumination via dual illumination port adapter

Ultra stable output of the PhotoFluor II enables quantitative imaging of the dimmest samples

Optically isolated input and output flash triggers enable tight integration with your experimental protocols

Ability to couple to all major brands of microscopes

PhotoFluor II

LAMP 200 W metal halide

Output = 20W with 5mm LLG and 12V with 3 mm LLG

Intensity variations typically less than 0.3% output power

5-POSITION FILTER WHEEL

Motorized operation

Comes standard with ND screens, can accept heat tolerant excitation filters

SERIAL CONNE CTION

Computer interface with provided or easily customizable software

ASCIIor binary commands

FlashLamp

LAMP

Proprietary high pressure xenon arc lamp design Flash duration typically < 1msec Peak output 320J @ 4,000uF and 400V Proprietary balanced igniter circuit for high flash current and reduced interference risk

CONTROLLER

Charge capacitance switchable from 20uF to 4,000uF Charge voltage continuously variable up to 400V Recharge rate 0.3s for CV (uF x V) up to 80,000 Optically isolated trigger input and output connections



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Dual-illumination port adapter enable simulaneous flash and fluorescence imaging. The exchangable filter cube within the adapter allows for changing experimental configurations.

Each component is also available separately. 89 North and the 89North logo are trademarks of 89North, hc. PhotoFluorllis a registered trademark of Chroma Technology Corp.



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