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Product Information



Hyper E401

Broadband Excitation Illuminator for Fluorescence Microscope

Taiwan YODN, a specialty light-source manufacturer, proudly introduces the Hyper E401, built specifically for fluorescence microscopy. Powered by our proprietary LED light-engine design with wide-spectrum illumination technology, it delivers multiple spectra to excite the key fluorescence applications used in microscopy. Whether you're a cell biology researcher, bio-development engineer, academic investigator, or microscope operator, Hyper E401 helps you work simply and efficiently—while meeting your needs with low power consumption.

Hyper E401 successfully commercializes an integrated LED solution. Its wide-spectrum illumination produces an effective 350 nm to 650 nm range, supporting common fluorescence excitation bands such as: DAPI, GFP/FITC, mCherry/Texas Red, Cy5, and other bands. A full range of electronic control modes—including standalone manual control and digital programmable control—are integrated into the newly released Hyper E401; making it easy to get started and offering different operating options to match real-world use scenarios. Even more valuable is that the Hyper E401 light-source unit takes advantage of the long service life of LED technology—so you no longer have to spend time and effort replacing bulbs.

Key Features & Benefits

- LED light-source design—energy-saving, long-lasting, microsecond on/off, stable light output, no bulb replacements needed.
- Wide-spectrum output—ideal for all fluorescence-excitation research experiments.
- Low photobleaching—LED cool-light operation helps improve fluorescent cell-sample viability.
- Rear-output liquid light guide—compact footprint and flexible light-guide design, enhances lab setup flexibility.
- Custom thermal-management system design—effectively extends operating hours and performance.
- Digital electronic control supported—quickly switch between manual control and automated digital control programs.
- Remote control supported—control the light source remotely via computer USB.



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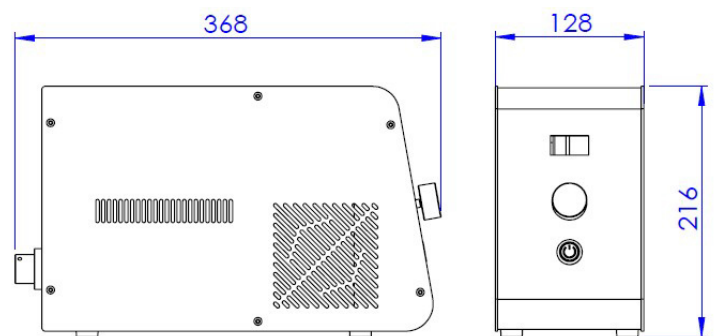
Specifications

- Wavelength range: 350 – 650 nm
- –LED peak / FWHM (nm): 365/20, 460/40, 560/80, 620/20 nm
- External power supply: Universal input 100 – 240 VAC, 50/60 Hz
- Power consumption: 93 W
- LED on/off response time: 20 ms
- Estimated LED lifetime: $\geq 25,000$ hours
- Panel manual controls:
 1. ON/OFF
 2. Intensity adjustment (all channels)
- –Dimensions (L $\times$ W $\times$ H), mm: 128, 368, 216
- –Weight: approx. 4 kg (including power supply)
- Warranty: Illuminator 24 months (accessories not included)
- Primary use: Connects to a microscope using a 1.5 m liquid light guide and a collimating lens.

Accessories & Setup Diagram



Dimensions



Spectrum Chart

