

Broadband Excitation Illuminator for Fluorescence Microscope

About Hyper

YODN Hyper series is a new generation of illuminators designed for fluorescence microscopy research.

With the latest core design, its wide wavelength range can produce a variety of different fluorescence excitations, which not only effectively increase the intensity of the light source, it can also meet most research needs and provide users with simple and flexible operation options.

Furthermore, the long life characteristics can effectively save your time and labor costs of replacing and maintaining light bulbs.

YODN Hyper series is the best choice for fluorescence experiments.



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YODN®



New



SPECIFICATION

E301

E340

Light source	LED	
External power supply	Universal input 100-240VAC ,50/60 Hz	
Wavelength range	350-650nm	
Power consumption	65W	85W
LED peaks/FWHM	365/20,460/40,560/80 nm	365/20,460/40,560/80,630/20 nm (Optional:405/20,730/20nm)
External control	N/A	TTL Trigger & PC control (RS232 command /USB B-type connector or YODN software)
Panel control	On/Off LED intensity control 5-100%	ON/OFF, LED intensity control 5-100% Color separation output control
LED On/Off response time	Instant On/Off	1 ms TTL 20ms USB 100ms cellSens
Weight (Kg)	Illuminator : 4.1	Illuminator : 3.4
	Power supply : 0.7	
Dimensions	W128*H216*D365 mm	
LED Life	25000 Hours	
Liquid light guide	1.5M/φ3 mm liquid light guide	
Warranty	Illuminator : 24 Months (Accessories not included)	
Certifications	CE	N/A

ACCESSORIES & SETUP ILLUSTRATION

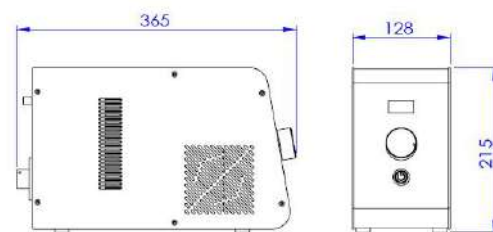


Collimator



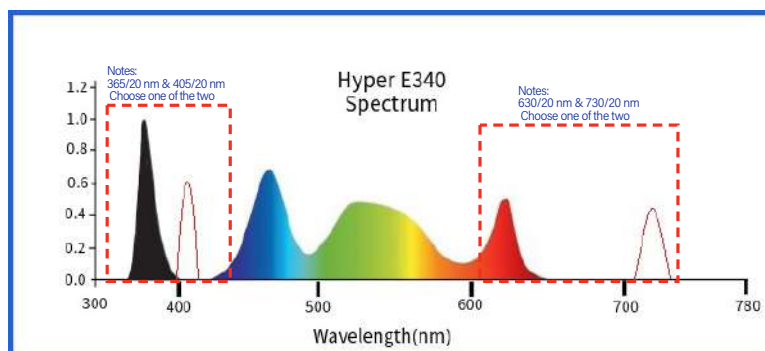
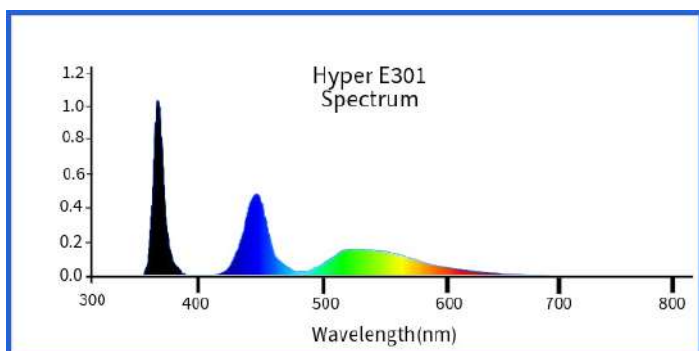
DIMENSIONS

Hyper E301 / E340



(Unit:mm)

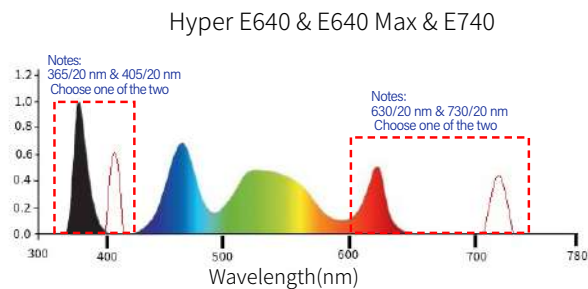
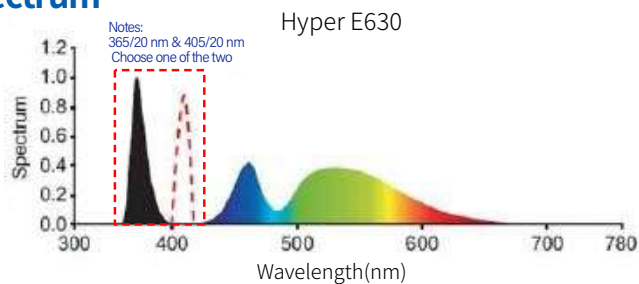
Spectrum





SPEC.	E630	E640	E640 Max	E740
Light source	LED			
External power supply	Universal input 100-240VAC ,50/60 Hz			
Wavelength range	350-650nm			
LED expected life	25000 Hours			
Ambient Temperature	10~50°C / 20% ~ 80%RH(No condensation)			
Power consumption	50W	65W	120W	75W
LED peaks/FWHM	365/20,460/40,560/80 nm (Optional : 405/20 nm)	365/20,460/40,560/80,630/20 nm (Optional:405/20,730/20nm)		
Dimensions	D149*H162*W92mm	D165*H190*W84mm		
Light spot	Medium & Adjustable	Medium & Adjustable	Large & Adjustable	Medium & Adjustable
External control	N/A			TTL Trigger & PC control (RS232 command /USB B-type or YODN software)
LED ON/OFF response time	Instant On/Off			1ms TTL 20ms USB
Weight (Kg)	Illuminator : 1.4 Power supply : 0.7	Illuminator : 1.6	Illuminator : 1.9	Illuminator : 1.6
		Control box : 0.3 Power supply : 0.7	Control box : 0.3 Power supply : 1.2	Control box : 0.3 Power supply : 0.7
Warranty	Illuminator : 24 Months (Accessories not included)			
Certifications	N/A	CE	CE (TBA)	

Spectrum



Accessories



+

Standard configuration



Illuminator & Extension Lens

+

Optional

Adaptor



Leica



Nikon



Evident
(Olympus)



Zeiss



Motic

FEATURES & BENEFITS

- ✓ **METAL HALIDE LAMP W/ REFLECTOR-**
A powerful light source: 130 W Metal Halide Lamp w/ reflector offers sufficient power in all research occasions
- ✓ **PRE-ALIGNED LAMP-**
Easy maintenance; saves time on lamp replacement
- ✓ **EXTRA LONG-LIFE LAMP-**
Low maintenance fee(Traditional Hg Lamp vs. YODN S series metal halide Lamp – 200 hours vs 3,000 hours lamp life)
- ✓ **LOW PHOTBLEACHING RATE-**
Increase the fluorescence cell sample survival rate
- ✓ **FULL WAVELENGTH-**
Ideal for all fluorescence excitation
- ✓ **REAR LIGHT GUIDE DESIGNED FOR SCIENTIFIC RESEARCH-**
The new design is more in line with the research situation and easy to operate



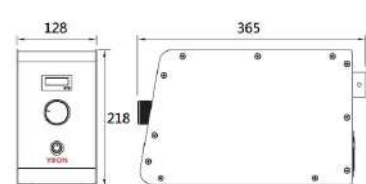
SPECIFICATION	S330	S350	S380 (FLICKER FREE)
LAMP	AC 132W	AC 150W	DC 165W (Flicker free)
Illumination system includes	Pre-aligned Metal Halide Lamp, power cord, and includes operation manual; optional liquid light guide with fluorescence microscope collimator		
Power	100 - 240V AC, 50/60 Hz		
Lamp life	3,000 hours typical		
Warm-up	90 seconds (typical)		
Panel controls	Power on/off, intensity adjustment		
Panel displays	Accumulated lamp usage, lamp status indicators		
Weight (Kg)	Approx. 5.5kg		
Dimensions	W128*H218*D365 mm		
Warranty	Illuminator : 24 Months (Accessories not included)		
Liquid light guide	1.5M*Ø3 mm liquid light guide (Optional)		
Collimator	Compatible with wide-field fluorescence microscopes (Optional) from all major manufacturers		

Accessories & Setup Illustration



Dimensions

(Unit:mm)



Spectrum

