

# Halogen Light Source 100W FHL-102

## **High Stability Halogen Illuminator**

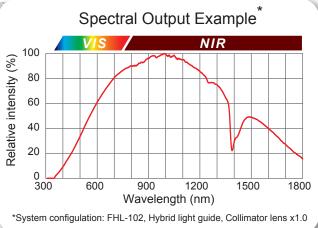


#### **Features**

- NIR output
- · Light control by the variable slit
- · Compact design
- High stability
- · Flexible illumination by light guide
- RS-485 remote control

### **Applications**

- Inspection illuminator
   Semiconductor/Agricultural crops/Foods
- Microscope
- Photoreaction
- Bioscience
- Spectrometry
- Bias light for spectral sensitivity measurement



#### **Features**

#### ■Shutter Function

#### ■ Light Control Function

The light intensity is mechanically controlled by the variable slit. There is no change in color temperature.

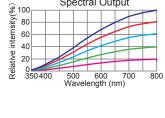
#### ■RS-485 Remote Control

The FHL-102 can be controlled remotely by using USB/RS-485 cable. You can control several units by daisy chain

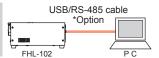
connection.

#### Remote Control Example

- Lamp ON/OFF
- Shutter function Open/Close
- Lamp status monitor



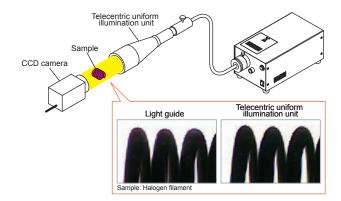
Spectral Output



#### **Usage Example**

#### Telecentric Backlight Illumination

You can reflect the sample silhouette sharply by using the telecentric uniform illumination unit as the backlight illuminator.



#### **Options**

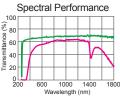
#### **Light Guide**

The output light from the FHL-102 is delivered to a desired direction by the light guide.

We also offer a multi-branch light guide for custom.

Hybrid Light Guide Length(L):1m, 2m Fiber bundle: 5mm dia. Numerical aperture: 0.57

Low OH Light Guide
Length(L):1m, 2m
Fiber bundle: 5mm dia.
Numerical aperture: 0.22



#### **Collimator Lens**



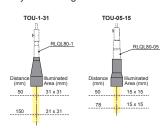
Fach collimator lens is designed to provide the uniform illumination by using with the light guide.



#### **Telecentric Uniform Illumination Unit**



The telecentric uniform illumination unit achieves a parallel illumination by connecting to a collimator lens.



#### **Line Light Guide**



The line light guide delivers light with the line shape.



**Ring Light Guide** 

The ring light guide achieves a shadowless uniform illumination by illuminating from all directions.

#### Filter Holder

An optical filter can be mounted inside the unit with the filter holder.

\*Size: 50x50mm / Thickness: less than 6mm

#### **General Specifications**

Model: FHL-102

Output wavelength: from VIS to NIR Input voltage: AC100 - 240V 50/60Hz

(Input range: AC90 - 264V)

Apparent power: Less than 170VA

Lamp type: Reflector halogen lamp 100W 12V100W (AL) Lamp voltage, current: 12V100W(DC) \*Representative value

Lamp life: 1000h (Average) \*Not guaranteed

Cooling method: Forced air cooling

Functions: Shutter Open/Close: Solenoidal drive

Light intensity control: Variable slit

Control method: Built-in controller

Remote control: RS-485

Safety mechanism: Cooling fan problem, Lamp status monitor (RS-485)

Recommended environment: Temperature 10 - 35 deg C

Humidity 20 - 80% \*Avoid condensation

Dimensions: 155(W) x 280(D) x 131(H)mm

Weight: 3.4kg

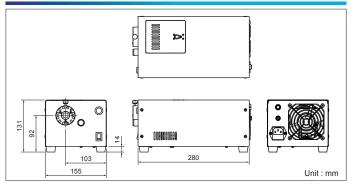


Do not touch the light guide adapter during the operation or immediately after turning off the lamp because it remains hot.

#### **Package Contents**

- FHL-102 main unit
- Halogen 100W with reflector - Heatsink
- AC cable (3m)
- Instruction manual

#### **Dimensions**



\*Product specifications are subject to change without notice.

# **\_ASAHI SPECTRA**=