Caution
Do not look at the light directly

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

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

Spectral Output Example*

*System configuration: FHL-102, Hybrid light guide, Collimator lens x1.0
**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 an optional cable. You can control several units by daisy chain connection.

**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.

- **Collimator Lens**
Each collimator lens is designed to provide the uniform illumination by using with the light guide.

- **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.

**General Specifications**

- **Model:** FHL-102
- **Output wavelength:** from VIS to NIR
- **Input voltage:** AC100 - 240V 50/60Hz
- **Apparent power:** Less than 170VA
- **Lamp type:** Reflector halogen lamp 100W / 12V100W (AL)
- **Lamp life:** 1000h (Average) *Not guaranteed
- **Cooling method:** Forced air cooling
- **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

**Usage Example**

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

**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.*

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