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

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 USB/RS-485 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.

**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.

**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 voltage, current:** 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

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

**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.*