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 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 the light guide.
- **Telecentric Uniform Illumination Unit**
  The telecentric uniform illumination unit achieves a parallel illumination by connecting to a collimator lens.

**Usage Example**

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

**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 12V 100W (AL)
  - Lamp voltage, current: 12V100W (DC) *Representative value
- **Lamp life**: 1000h (Average) *Not guaranteed
- **Cooling method**: Forced air cooling
  - Light intensity control: Variable slit
  - Shutter Open/Close: Solenoidal drive
  - 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

**Package Contents**

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

**Dimensions**

*Product specifications are subject to change without notice.*