Metal Halide Fiber Illumination Systems
Lamps for Metal Halide Fiber Illumination Systems

IMH-250

MHL

IMH-250

Catalog Code W5026

High intensity and high precision illumination systems with metal halide lamp and twin mirror system.

- Bright, efficient illumination using short arc metal halide lamps. Spectral output more closely matched to human spectral response than other types of high intensity lamps.
- Newly designed optical system has combined an elliptical mirror and a spherical mirror to focus light into a light guide very efficiently.
- Uses a combination of cold mirror and heat absorbing filter to efficiently manage heat output.
- Lamp replacement is a simple one-touch operation without need for adjustment, as the lamp and the elliptical cold mirror are integrated.
- A new mechanical aperture allows control of output intensity without changing spectral characteristics.
- High stability, low ripple output. The DC metal halide lamp employed has significantly lower ripple than AC metal halide lamps, which makes this product suitable for high-speed image processing.

Guide

▶ Light guides sold separately. Reference ▶ H035

Outline Drawing (Units: mm)

IMH-250
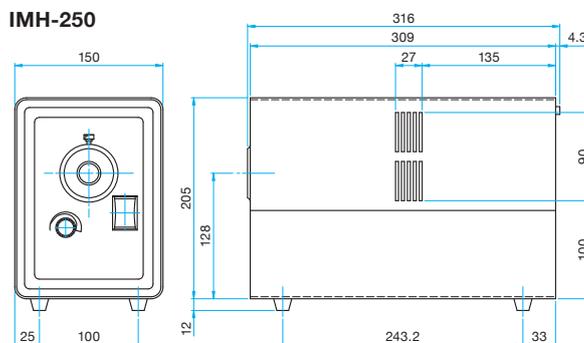
Reference spectral data

The spectral characteristic is an actually measured value, not a guaranteed value.
Light guide used: MSL-1500S-10
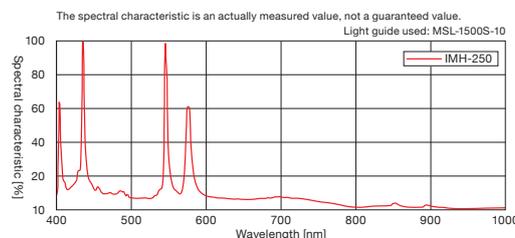
Common Specifications

Lamp Type	Mirror integrated metal halide lamp DC250W
Lamp Life	Average 2,000 hours (to decrease in light intensity by 30% from initial value)
Power Supply	AC90 – 132V 50/60Hz
Input Voltage	AC100V±10% 50/60Hz
Power Consumption	about 330W
Illumination Intensity	80,000lx or more (initial value) at a position 100mm from the edge of the light guide of L=500mm and φ5
Fluctuations in Illumination Intensity	about 1.5%
Color Temperature	7,500°K
Cooling Method	Forced-air cooling method
Usage Environment	Temperature: 5°C – 35°C, Humidity: 70% or less
External Dimensions [mm]	(W)150×(H)205×(D)309 (excluding rubber feet and protrusions)
Weight [kg]	about 6.0

| Part Number	Product Description	Light Intensity Adjustment Method	Shutter Open/Close	Power Supply ON/OFF	External control Connector	Interface
IMH-250	Low-light intensity ripple (high stability) type	Manual	None	Manual	None	None
IMH-250A	Low-light intensity ripple (high stability) type with continuous automatic aperture function	Manual and remote selection with switch	None	Manual	D-sub25pin	TTL level
IMH-250SL	Low-light intensity ripple (high stability) type with shutter and lamp control function	Manual	External control	External control	BNC	TTL level

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Replacement lamps for metal halide fiber illumination system IMH-250.

- Since this product comes as a unit of the lamp placed and fixed at the focus position of the elliptical mirror, it is easily fixed in the relative position of the elliptical mirror, spherical mirror and metal halide lamp just by removing the cover from a metal halide fiber illumination system and fix the unit with the spring included in this product.

Specifications

Part Number	**MHL-250**