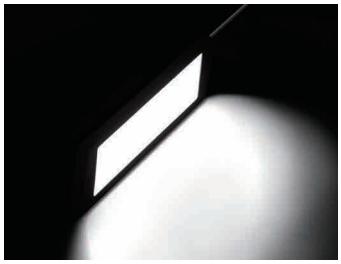
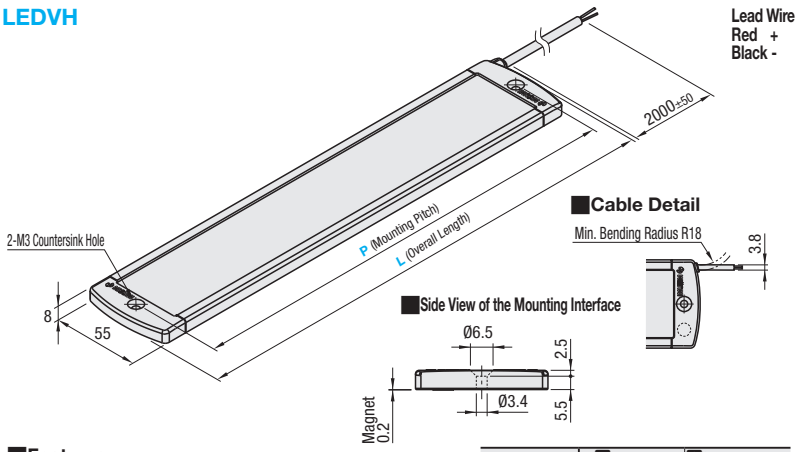
Note that, for some of the types shown here, order might be unable to be received by the MISUMI Indonesia offices.

LED Flat Lights - High Illuminance

IP20



LEDVH



Cable Detail

Side View of the Mounting Interface

Features

The illuminance uniformity is 80% or more.

For AC Adapter and ON / OFF Switch, see **P.1054**.
Dimming not possible. For Dimming Types, see **P.1025**.

Part Name	M Material	S Surface Treatment
Main Body	Aluminum	Black Paint
Cover for Main Body	Polycarbonate	-
Surface Cover	PET	Mist Surface Treatment
Magnet	Cobalt Magnets	-
Cable	Cross-linked Polyethylene	-

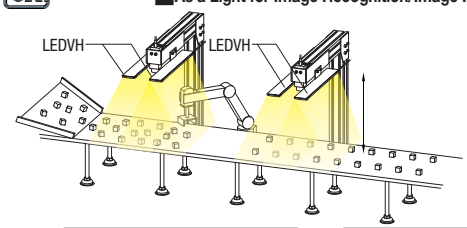
Part Number		Color	Installing Method	L	Illuminance (Lux, lx) W (White) lx/0.5m	lx/1m	Fluorescent lamp illumination comparison (Reference)	Input Voltage (V)	Input Current (mA)	Power Consumption (W)	Attraction Force N {kgf}	Temperature Range (°C)	Color Temperature (Kelvin, K)	Luminous Intensity Angle	Mass (g)	Unit Price 1 ~ 9 pc(s).	Volume Discount Rate 10~19	20~50
Type	P																	
LEDVH	90	W (White)	Countersunk Hole or Magnet	110	190	50	6W ~	DC24 ±10%	85	2	22.5 {2.3}	-20~45	5000	120°	140			
	190			210	540	160	10W ~		190	5					200			
	290			310	900	245			280	6.7					260			
	390			410	1340	400	20W ~		421	10.1					320			

For each detail, see the glossary on **P.1055**.
For order and installation, confirm "Notes on Usage" section on **P.1056**.
As the LED elements vary on their luminous colors and luminance, they may be slightly different in their colors and brightness, though they are of the same part numbers.

Ordering Example: Part Number - Color
LEDVH190 - W

Example

As a Light for Image Recognition/Image Inspection



Imaging Recognition Area

- Camera imaging is performed to recognize disorderly conveyed workpieces and positional information is transmitted to a handling robot.
- Flat lights with high uniformity are effective in preventing multiple shadows as recognition error is avoided.

Imaging Inspection Area

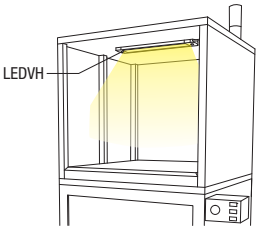
- Camera-based inspection for "scratches" and "character recognition", etc. is performed for workpieces that has been arranged by a handling robot.
- High illuminance flat lights are effective as they allow crisp imaging.

Close Distance Illuminance (Reference)

Type	P	lx/25mm	lx/50mm
LEDVH	90	19000	11000
	190	24000	17000
	390	31000	22000

Its high illuminance enables the distance from workpieces to be further than regular flat lights (**P.1049**).

As a Light Inside a Device

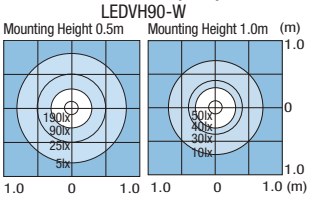


- As it has high illuminance with a beam angle of 120°, it is recommended as a general light inside a device.
- It illuminates highly uniform light beams that are similar to a fluorescent lamp.

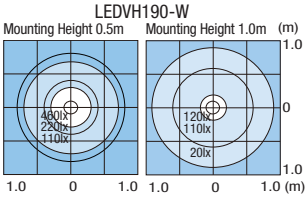
For details on Surface Emission lighting, see **P.1028**.

Illuminance Data (Ref.)

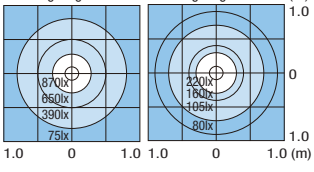
LEDVH90-W



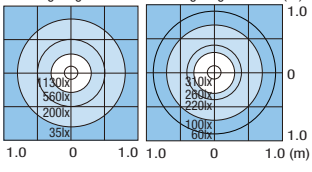
LEDVH190-W



LEDVH290-W



LEDVH390-W



Light Emission Spectrum