TOKISTAR

NEW

ITEMS CATALOG 2024
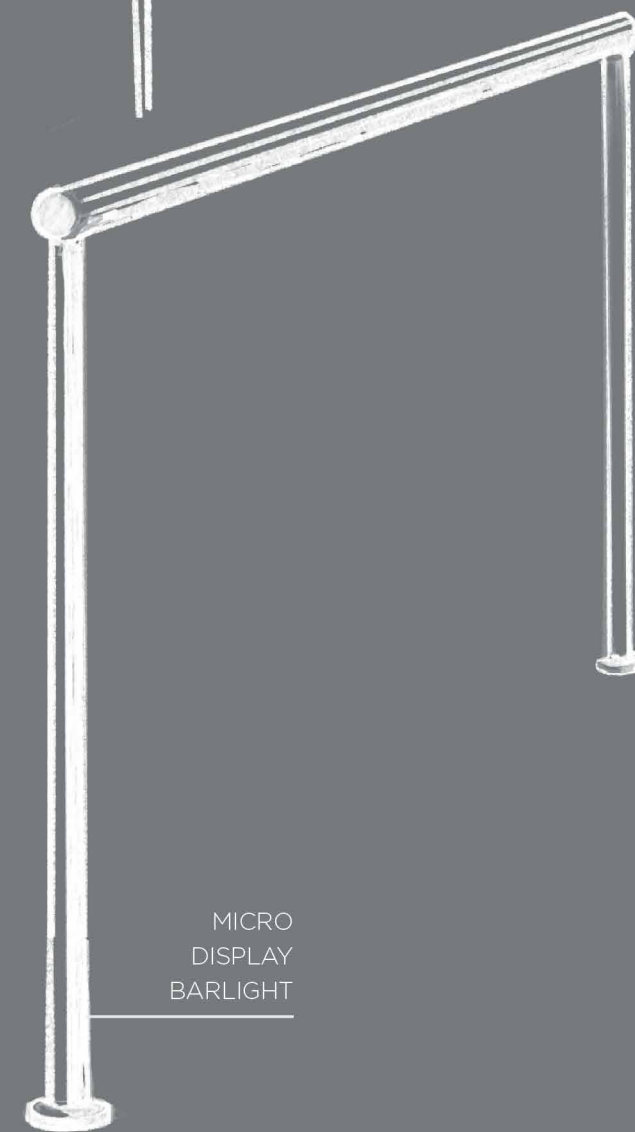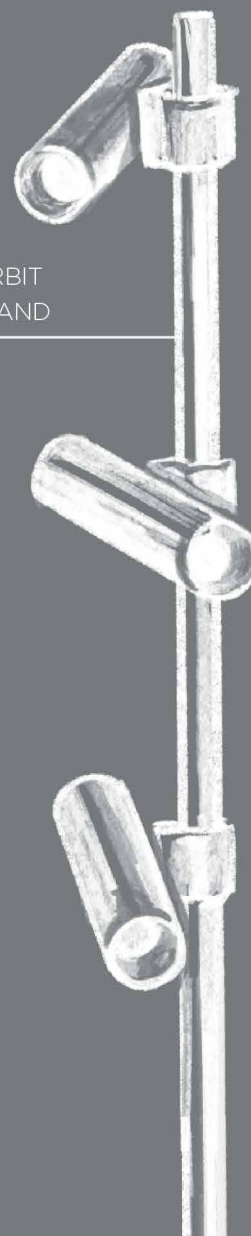
SHELVES

MICRO
READING
DOWNLIGHT

ORBIT
STAND

MICRO
DISPLAY
BARLIGHT

TOKI CORPORATION

2024.3 Ver. 1

New Items

MICRO READING DOWNLIGHT
▶▶ P.3

SHELVES
▶▶ P.5

MICRO DISPLAY BARLIGHT
▶▶ P.9

ORBIT STAND
▶▶ P.13

CONTENTS

MICRO READING DOWNLIGHT

INDOOR

CRI 85

Input = 100-240VAC 50/60Hz 0.1A
Main Materials = Aluminum, PMMA & PBT
Weight = 84g
Glare-cut Angle = 45°

MRD01-□□K-W-NC

LED Color
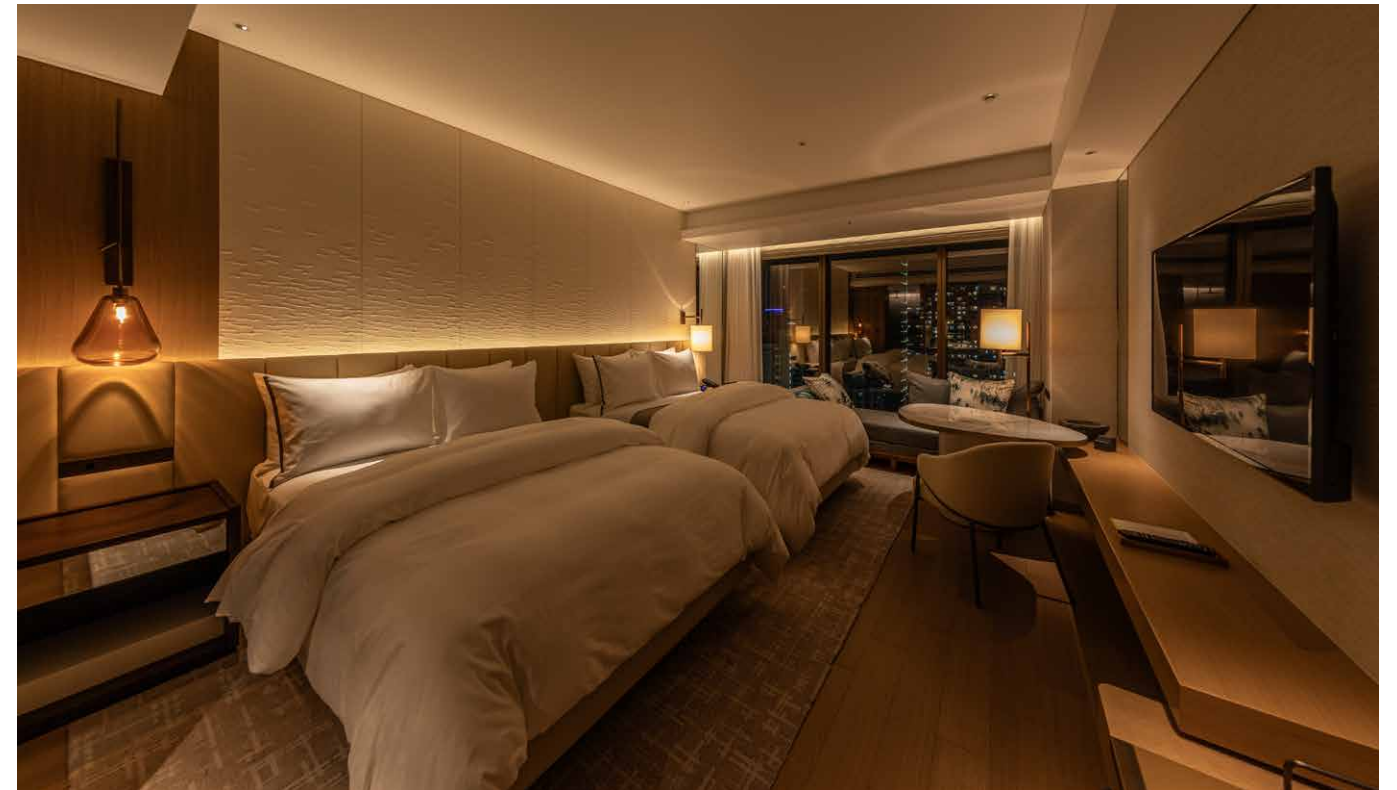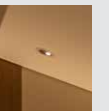27K : 2700K
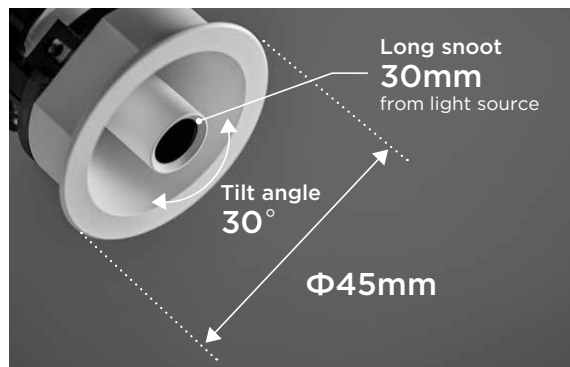30K : 3000K

Fixture Color
W : White

The Westin Yokohama
Owner : Sekisui House
Design : Nihon Sekkei /GA Design International
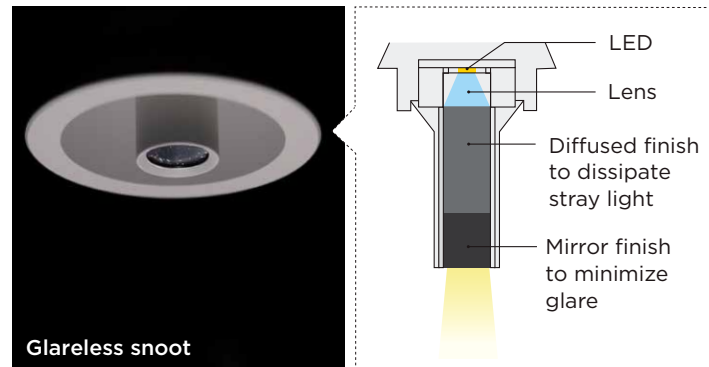Lighting Design : Lighting Planners Associates

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System Features

Point 01
Specially designed as a reading light

Long snoot
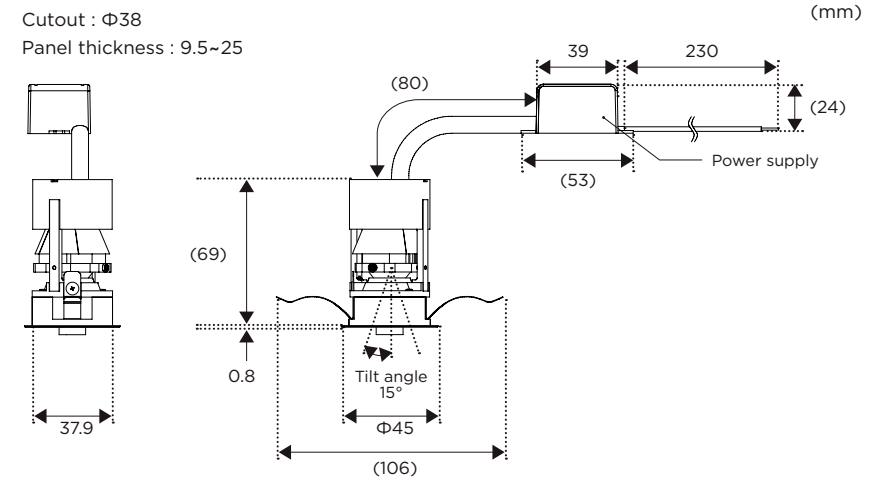**30mm**
from light source

Tilt angle
30°

Φ45mm

Inspired by aircraft reading lights this form, despite its minimal size functions very effectively as a reading light.
The optical axis uses a gimbal structure, allowing a maximum of 30° tilt angle and 360° rotation angle, maximizing the degree of freedom when arranging the light.
Ideal for use in hotel guest rooms, residential bedrooms, office spaces, etc.

Point 02
Specially designed to be glare free

Glareless snoot

LED
Lens
Diffused finish to dissipate stray light
Mirror finish to minimize glare

Determined to create the best down light for reading, we purposely adopted a point light source.
Light concentration is controlled by a lens, and light leakage is controlled by two types of snoots with different surface treatments. This results in a high-quality spotlight that suppresses flare and glare.

Specifications

Cutout : Φ38
Panel thickness : 9.5~25

(mm)

39   230
(80)
(24)
(53)
Power supply

(69)
0.8
Tilt angle 15°
Φ45
37.9
(106)

Light Distribution

The value shown is for 3000K module.

12°
30 lm

[mm]		[lx]
500	Φ20	2818
1000	Φ40	704
1500	Φ60	313
2000	Φ80	176
2500	Φ100	113
3000	Φ120	78

Installation

Panel thickness can range from 9.5 to 25 mm. A Φ38 mm cutout is required. Make sure the cutout is of sufficient strength and there is adequate space for mounting.

Cutout Φ38
Panel

Insert the fixture into the cutout with the retainer clips are closed.
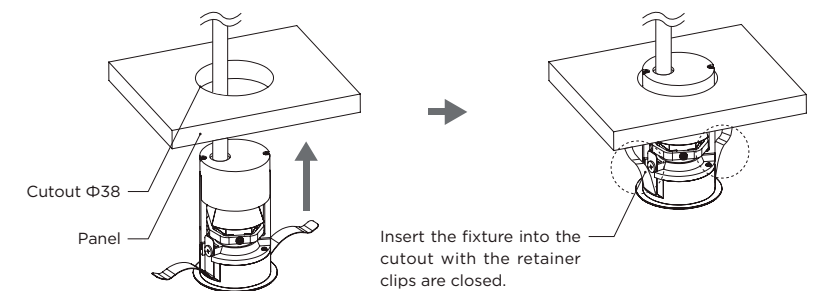
SHELVES

| INDOOR | 24VDC 0-10V / 1-10V | 24VDC DMX | CRI95 |

Voltage = 24VDC
Wattage = 16W
Main Materials =
Aluminum, Stainless steel
Weight = 1083g
Lead Cable = AWG18x2

SHE01-HC□□K-□-L900

LED Color	Module Color	Length
HC30K : 3000K	B : Black	900mm
HC35K : 3500K	W : White	
HC40K : 4000K		

System Features

Point 01

Evenly illuminates shelves with one unit

High quality uniform light can be acheived by installing SHELVES at the top of a shelf. The standard fixture length is 900mm.
SHELVES arm lengths can be adjusted according to a shelves height.

ON   OFF
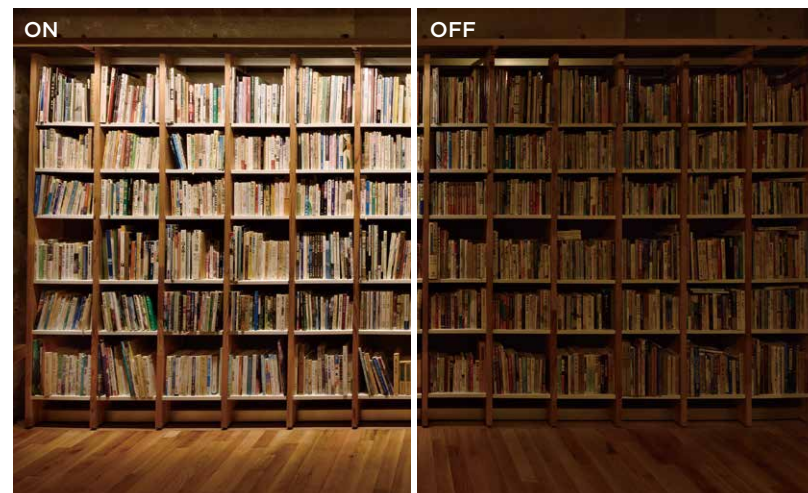
KAIDO books & coffee

Point 02

Custom finishes are available

In addition to the standard black and white finishes, custom colors and wood grain finishes are available to match the existing shelves. Please contact us for details.

KAIDO books & coffee

CG image

Specifications

(mm)

AWG18×2
Black/White : +
Black : -

805
787
(865)
(760)
53 53
Φ12
898

57 89
6
6.2

140
120 26.5
515
Range of movement
150 - 350
40

Light Distribution

SHE01-HC30K-___-L900

300
(mm)

2.2m
2m
0.9m
[lx]

500
200
100
50
20
100
50
20
10

Instructions

The entire fixed box must be placed on the shelf when installing the fixture.

If there is a wall behind the shelf, install the fixed box with enough space between the arms and wall to prevent it from contacting the wall.
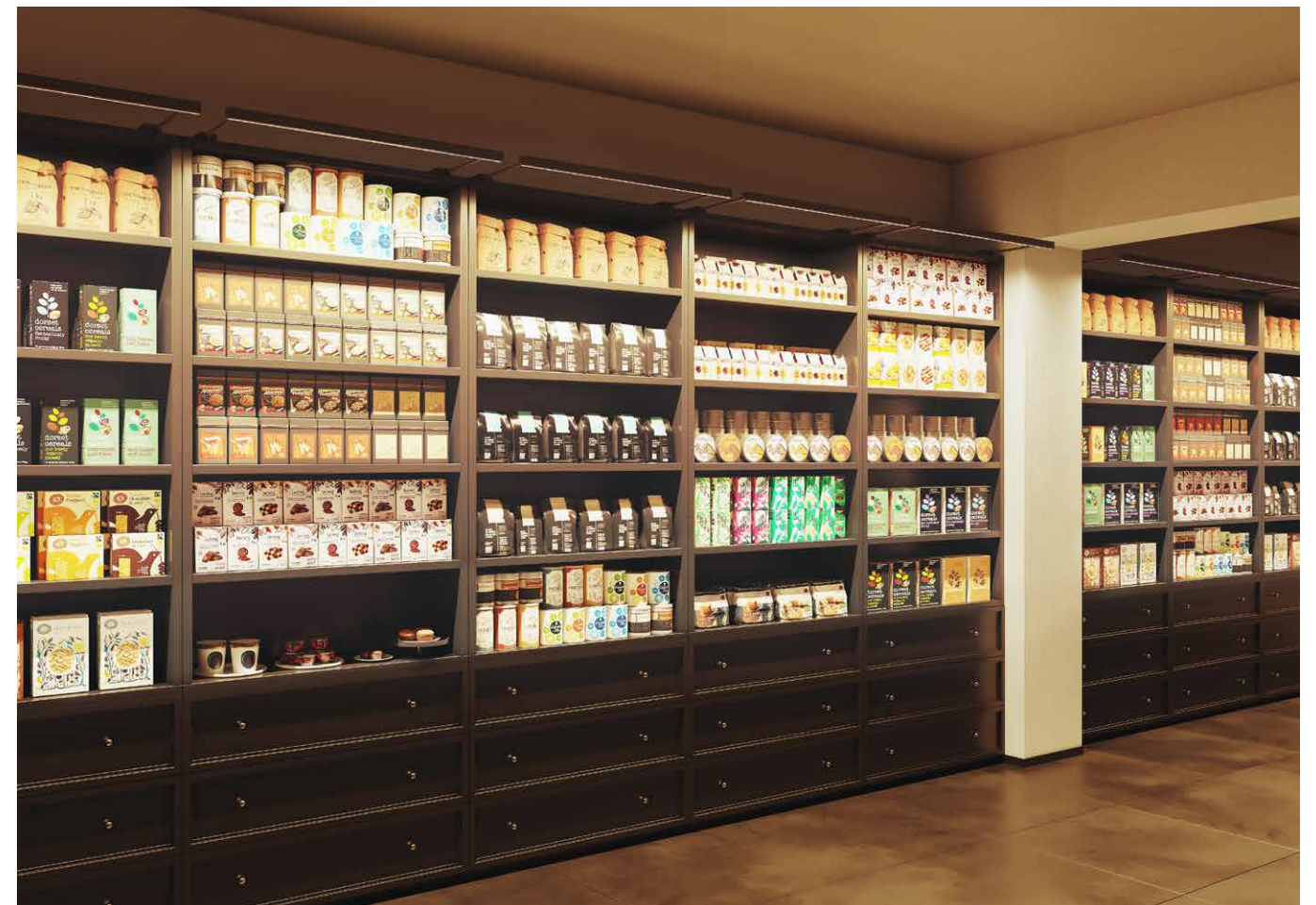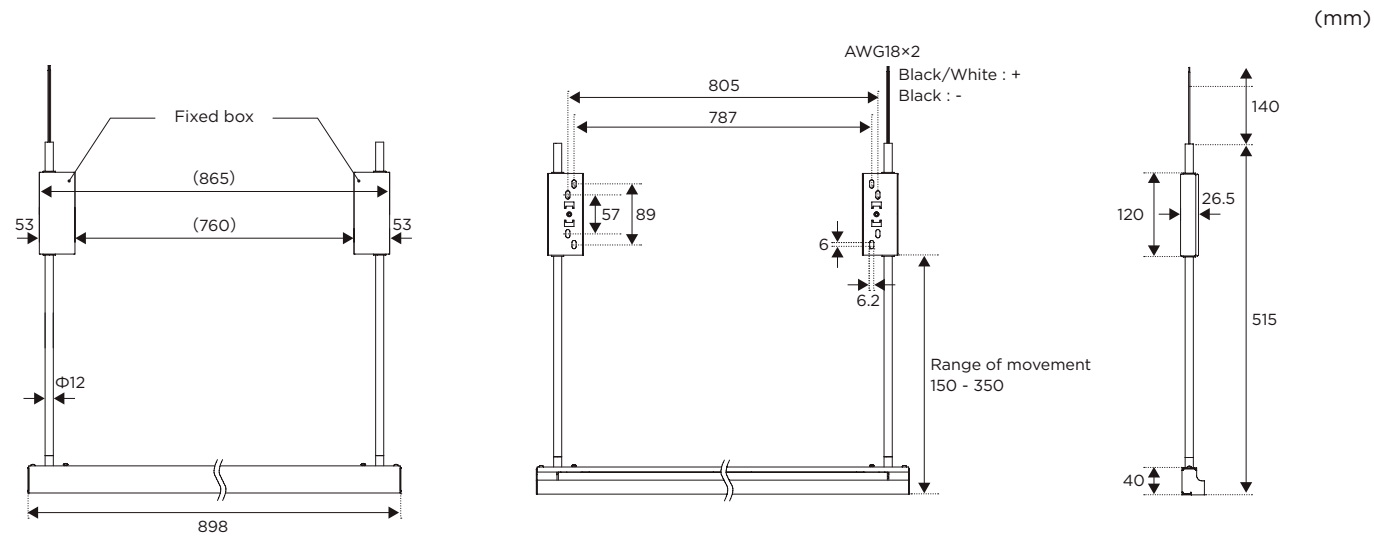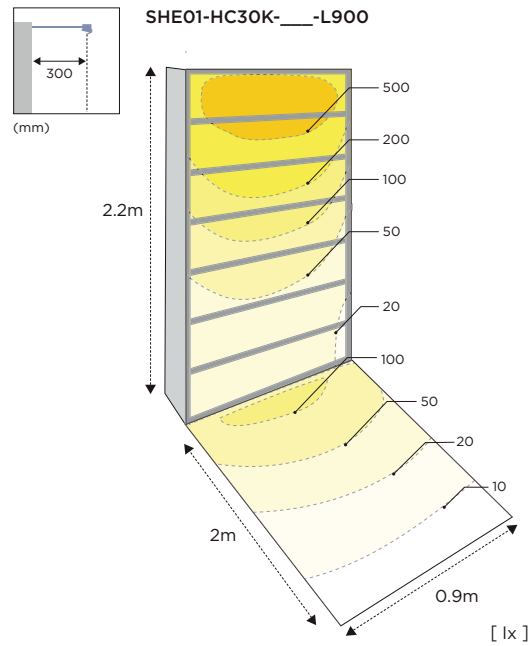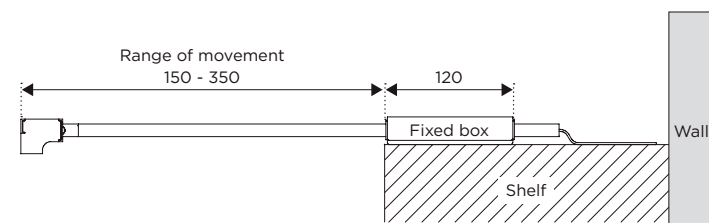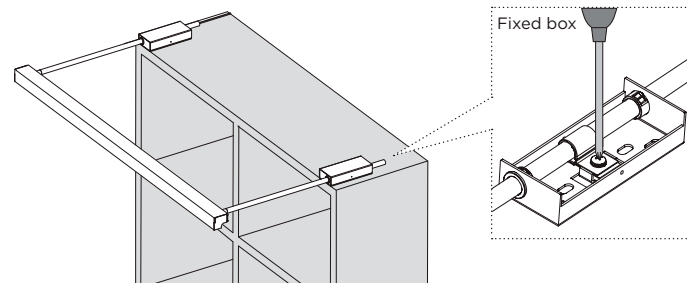
The length of the arm can be adjusted according to the height of the shelf.

Range of movement
150 - 350
120
Fixed box
Shelf
Wall

Secure the fixed box with screws suitable for the shelf material, using a mounting hole (up to 6mm ø) inside.

Fixed box

LED Colors, lm

3000K : 652lm   CRI = 95

3500K : 652lm   CRI = 95

4000K : 652lm   CRI = 95
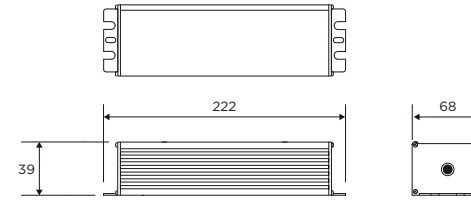
Power Supply

LDR24-96

Tokistar's LDR24-96 has a single 96 watt output.

(mm)

222
68
39

LDR24-96 Specifications
Input Range : 100-277VAC
Frequency Range : 50/60Hz
Output: 24VDC (+/- 3%)
Max. Output Current : 4.0A
Max. Output Power : 96W
Protection : Overload, Over voltage,
Short Circuit, Over Temperature
Working Temperature: -30°C-+50°C

Mechanical Specifications
Dimensions : 68 x 222 x 39mm
Weight : 998g
Enclosure Rating : Suitable for use in Dry,
Damp and Wet Locations/IP67 Rated
Mounting : Flange Mount
Safety Standards
UL 879, UL 8750, UL 1310 Class 2, TUV
EN60950-1, EN61347-1, EN61347-2-3 ind.
CAN/CSA C22.2, No. 223-M91, CE, IP67
Rated
LED Module Capacity
SHELVES : 6 each

Non-Dimming

24VDC(+),
Red
24VDC(-),
Black

24VDC(+),
Black / White-Black
24VDC(-),
Black

AWG18×2
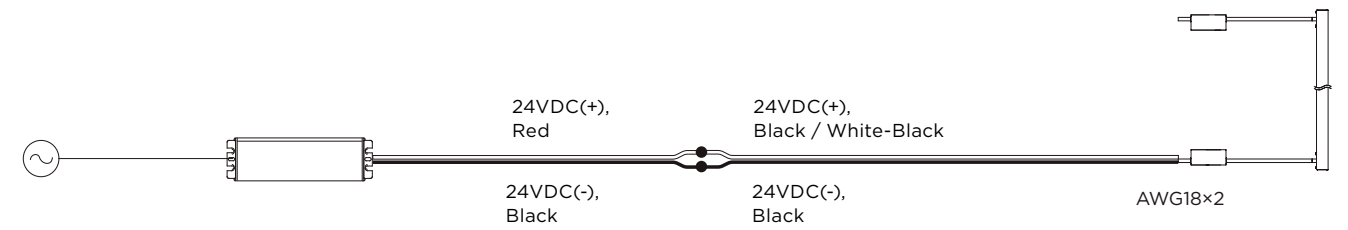
Dimming

LC-1CH-MULTI Dimming System/24VDC

Tokistar's LC-1CH-MULTI Dimmer Pack is compatible with industry-standard dimmers working on DMX or 0/1-10VDC protocol. In the manual mode, a preset light level can be set without the use of an external dimmer.

LC-1CH-MULTI
Max. Load: 96W @ 24VDC
Environmental Rating : Dry Location/IP20
Dimensions : W40 x L90 x H20mm
Weight : 50g
Listing : ETL Listed/CE Certified
Operating Temperature: 0-+50°C

DMX Mode

In this mode, dimmer packs are addressable and may be used with any controller working on DMX protocol.
Up to 36 dimmer packs may be connected in series.
For applications exceeding 36 dimmer packs, a splitter is required. Consult factory on details of DMX Splitters.

Analog Mode 0-10/1-10VDC

For operation from devices using 0-10/1-10VDC protocol, up to 10 dimmer packs may be connected in series.
For applications exceeding 10 dimmer packs, an additional feed from the analog dimming device is required.

DMX Wiring Diagram

DMX Console
Dimmer Pack
Dimmer Pack
24VDC LED driver
24VDC LED driver
DMX In
DMX Out
DMX Out
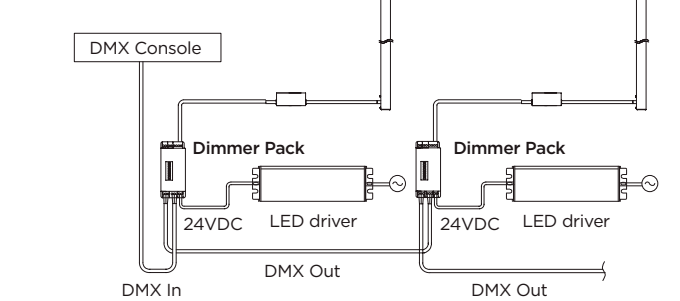
0-10/1-10VDC Wiring Diagram
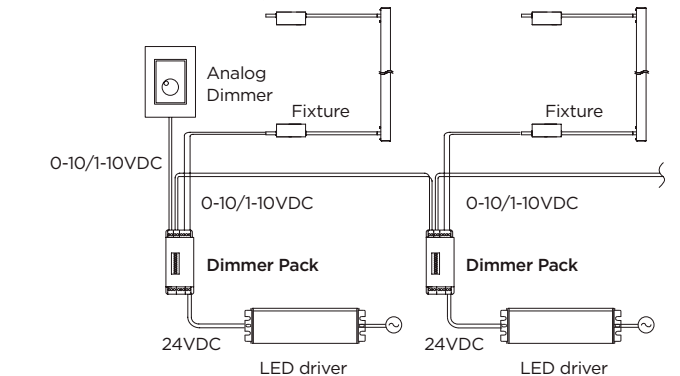
Analog Dimmer
Fixture
Fixture
0-10/1-10VDC
0-10/1-10VDC
0-10/1-10VDC
Dimmer Pack
Dimmer Pack
24VDC LED driver
24VDC LED driver

Manual Mode

You may select a light intensity at which the fixtures operate. In this case, no external dimming device is required.

Recommended Lead Wire Size and Length Limitation

LED driver (non-dimming)	
LED driver + LC-1CH-MULTI or LC dimming	AWG14 55m

The distance from the power supply to the fixture, and the load of the fixture, will determine the proper size of secondary wire. Fixtures require an individual lead. If additional wire needs to be attached, refer to the recommendation in this chart.

MICRO DISPLAY BARLIGHT

INDOOR

24VDC 0-10V / 1-10V

24VDC DMX

CRI 95

Voltage = 24VDC
Wattage = L1200 : 23.0W
　　　　　L1500 : 25.9W
Main Materials = Aluminum, Steel & PC
Weight = L1200 : 600g (At H500mm)
　　　　 L1500 : 850g (At H500mm)
Lead Cable = AWG22x2 2m

MDB01-HC☐☐K-☐-L☐☐☐☐

LED Color	Module Color	Length
HC30K : 3000K	B : Black	L1200 : 1200mm
HC35K : 3500K	C : Chrome-plated	L1500 : 1500mm
HC40K : 4000K		
HC50K : 5000K		

REQUIRED

Stems cutting (for L1200)	MDB-CUT2
Stems cutting (for L1500)	MDB-CUT3

Besure to specify the "fixture height" when ordering.
Stems cutting length = fixture height

Stems cutting range : 150 to 500mm
In increments : 10mm

System Features

Point 01 Industry's thinnest Φ12.2mm light emitting part

12.2mm

With a 12.2mm diameter, this is the most discreet form of linear showcase lighting. Since it is so compact, it does not obstruct the view, and it brightly illuminates with a high color rendering.

Point 02 Adjustable angle

The angle of the light emitting part can be adjusted by 60° left and right. Therefore, even if it is installed in the center of the case, the light can be directed to either the left or right side. Recommended for showcases where exhibits are frequently changed.

*As the fixture will be hot when it is on or immediately after it is turned off, please wear gloves before adjusting the angle.
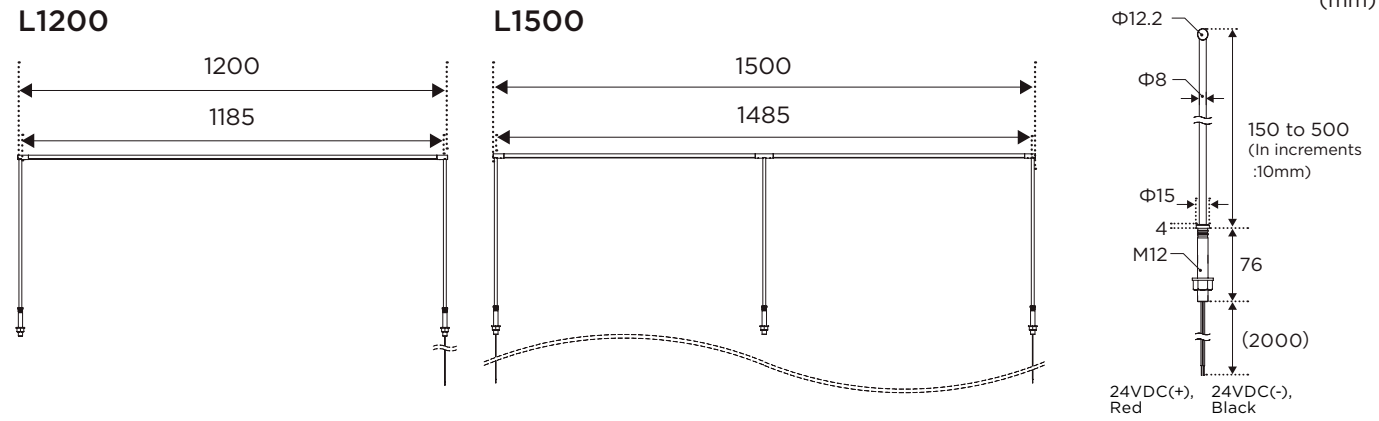
Point 03 Fixture lengths suitable for common showcases

Fixture lengths are available in 1200mm, which is suitable for a typical 1500mm width showcase, and 1500mm, which is suitable for a 1800mm width showcase. Each piece is cut to order, so you can specify the height to suit the showcase.
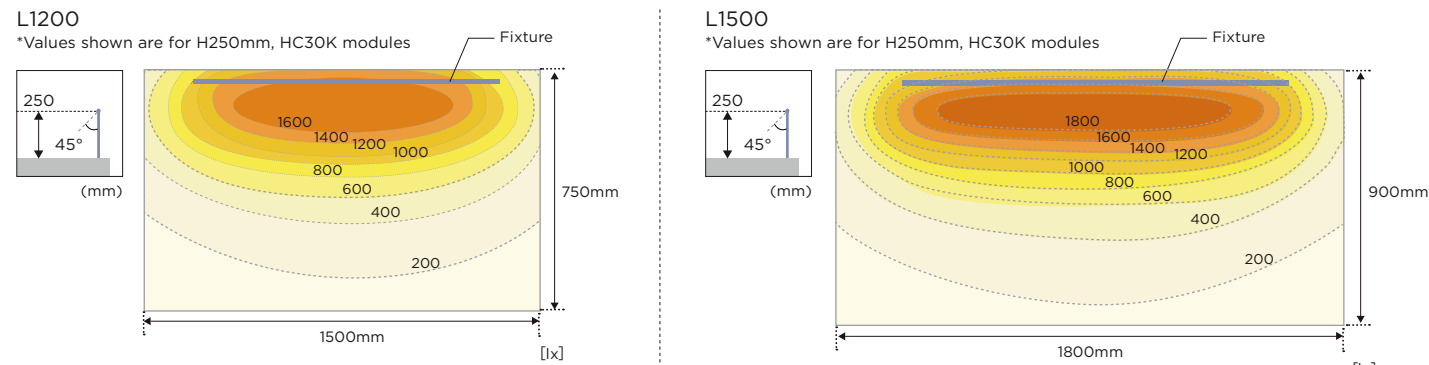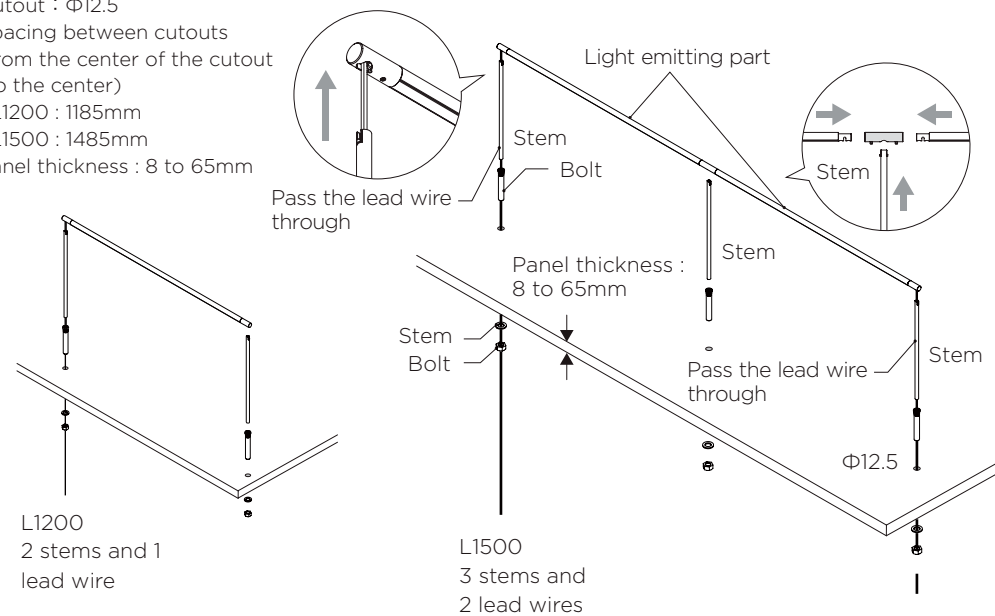

CG image

Specifications

L1200
1200
1185

L1500
1500
1485

(mm)

Φ12.2
Φ8
150 to 500
(In increments :10mm)
Φ15
4
M12
76
(2000)

24VDC(+), Red   24VDC(-), Black

Light Distribution

L1200
*Values shown are for H250mm, HC30K modules

Fixture
250
45°
(mm)
1600
1400 1200 1000
800
600
400
200
750mm
1500mm
[lx]

L1500
*Values shown are for H250mm, HC30K modules

Fixture
250
45°
(mm)
1800
1600
1400 1200
1000
800
600
400
200
900mm
1800mm
[lx]

*This is a reference image. When performing lighting simulations, please download and use the IES data for the color temperature used from our Tokistar website.


Instructions

Cutout : Φ12.5
Spacing between cutouts
(from the center of the cutout
 to the center)
 L1200 : 1185mm
 L1500 : 1485mm
Panel thickness : 8 to 65mm

Light emitting part

Pass the lead wire through

Stem
Bolt

Stem

Stem

Panel thickness :
8 to 65mm

Stem
Bolt

Pass the lead wire through

Stem

Φ12.5

L1200
2 stems and 1
lead wire

L1500
3 stems and
2 lead wires

Dimensions for installation
Fixture height + 75mm
space is required.

Dimensions for installation
Fixture height +
75mm space is
required

200mm or
more space is
recommended
for hand work
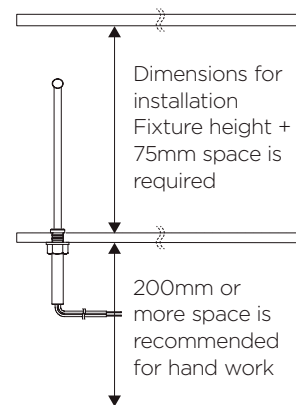
Power Supply

LDR24-40
Tokistar's LDR24-40 has a single 40 watt output.
(mm)

163
43
33
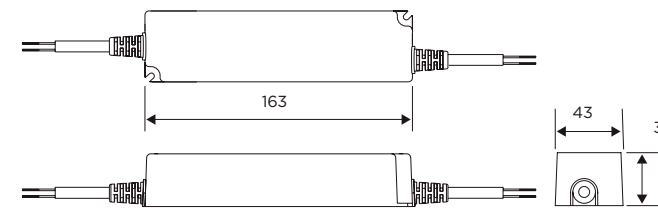
Specifications
Input Range : 100-240VAC
Frequency Range : 50/60 Hz
Output : 24VDC (+/- 4%)
Max. Output Current : 1.67A
Max. Output Power : 40W
Protection : Overload, Over Voltage,
Short Circuit, Over Temperature
Working Temperature : -30°C-+50°C

Mechanical Specifications
Weight : 440g
Enclosure Rating : Suitable for use in Dry,
Damp and Wet Locations/IP67 Rated
Mounting : Flange Mount

Safety Standards
UL8750, CSA C22.2 No. 250.0-08, ENEC
EN61347-1, EN61347-2-13 independent,
EN62384, IP67,J61347-1, J61347-2-13
approved;
Design refer to UL60950-1, TUV
EN60950-1

LED Module Capacity
Micro Display Barlight : 1 each

Non-Dimming

L1200

LED Driver
LDR24-40

24VDC(-), Black
24VDC(+), Red

L1500

LED Driver
LDR24-40

24VDC(-), Black
24VDC(+), Red
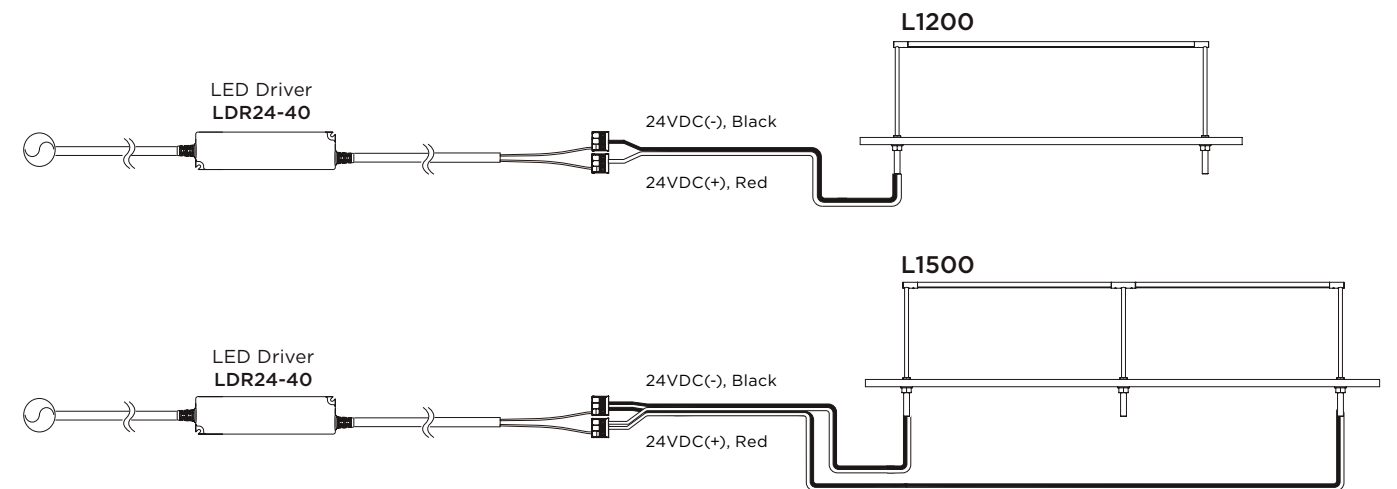
Dimming

SDIM-CON
(mm)
150
27
78
30
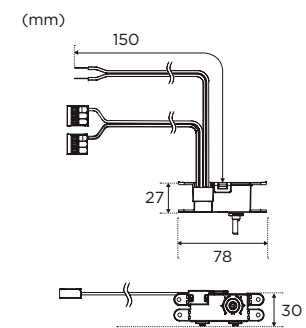
Resin knob
13.5
Φ14

*Resin knob is included as standard.

Voltage : 5-24VDC
Max. Load : 5-24VDC 2A
Weight :45g

Small dimmer	SDIM-CON

Small dimmer
SDIM-CON

L1200

LED Driver
LDR24-40

24VDC(-), Black
24VDC(+), Red

24VDC(-), White
24VDC(+), Brown

24VDC(-), Black
24VDC(+), Red

Small dimmer
SDIM-CON

L1500

LED Driver
LDR24-40

24VDC(-), Black
24VDC(+), Red

24VDC(-), White
24VDC(+), Brown

24VDC(-), Black
24VDC(+), Red
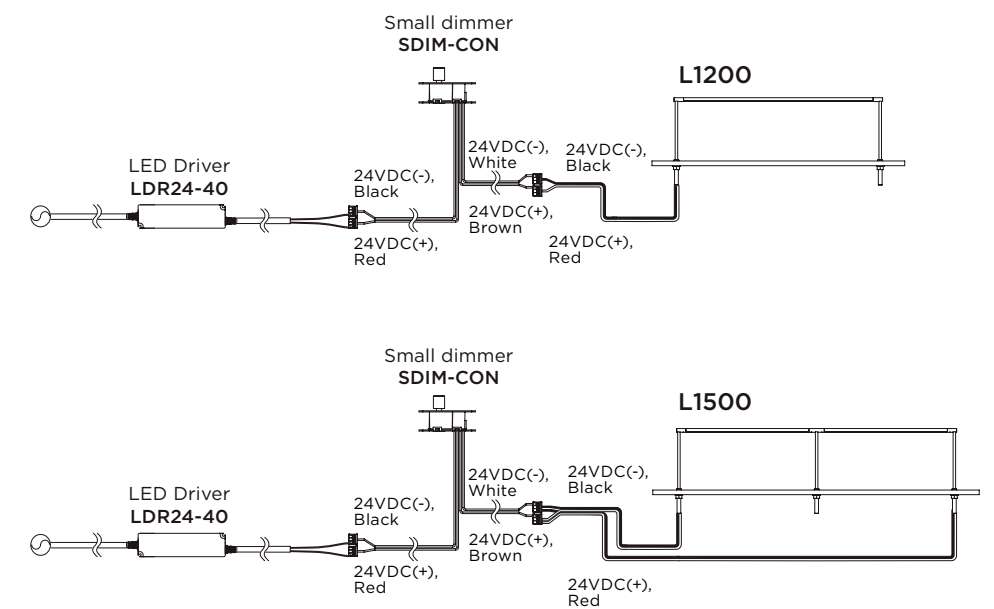
ORBIT STAND

INDOOR	24VDC 0-10V/1-10V	24VDC DMX
CRI95	CRI85	

Voltage = 24VDC
Wattage = 1.7W/LED
Main Materials = Aluminum, PC & PMMA
Weight = 16g/LED
Glare-cut Angle = 30°

OBS01- ☐☐K- ☐☐D-☐

LED Color		Beam Angle	Module Color
CRI85	**CRI95**	16D : 16°	**B** : Black
27K : 2700K	HC27K	24D : 24°	**S** : Silver
30K : 3000K	HC30K	30D : 30°	
35K : 3500K	HC35K		
40K : 4000K	HC40K		
50K : 5000K	HC50K		

REQUIRED

Power stand	OB-STD24V-※(※Color : B, S)

*Please be sure to specify the length of the power stand when ordering.Depending on the installation method, the embedded length must be considered. Please check the dimensional drawing.

Manufacturing range : 01.m to 1.2m
In increments : 0.1m (10cm)

*If the stand length exceeds 0.6m, the fixture may sway due to vibrations from the motor or air conditioning. Please contact us for details.

Stand lead processing	OB-SLC-※(※Color of Cover and Top Cap : B, S)

* 2m lead wire, Mount base, Cover and Top cap are included.
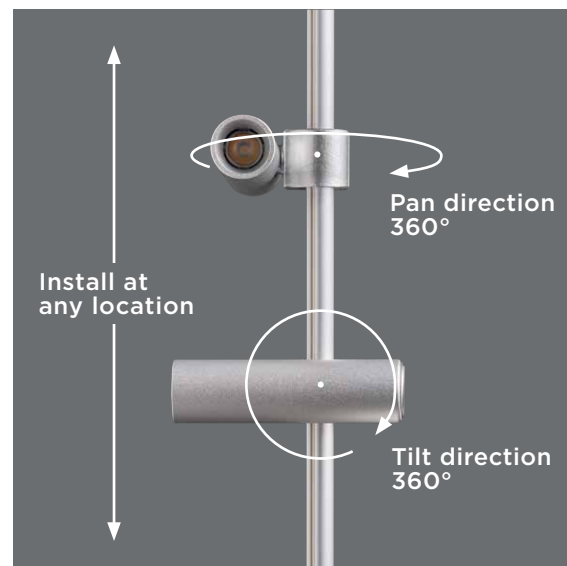

CG image

System Features

Point 01 — Freely adjustable heights and directions

*If the stand length exceeds 0.6m, the fixture may sway due to vibrations from the motor or air conditioning. Please contact us for details.

Install at any location

Pan direction 360°

Tilt direction 360°

LED modules may be positioned at any location on the stand, even when the light is on, it can be adjusted. Additionally, the pan and tilt directions can each be rotated 360°, allowing for free illuminating. The stand length can be specified between 0.1m and 1.2m.

System Features

Point 02 — Easy On/Off dimming with our PTD (Press-to-Dim) Feature

You can easily turn on/off and dim each module (stepless dimming) by just pushing the fixture towards the power stand.

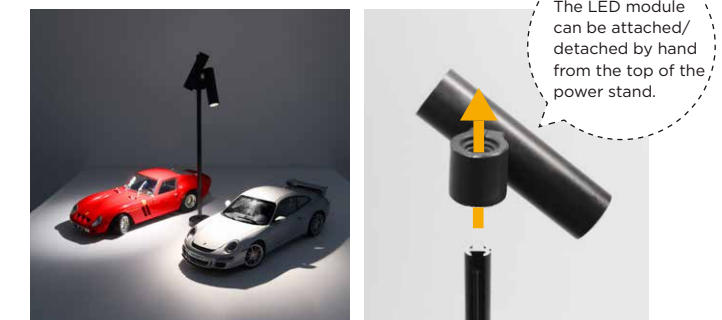Just push the fixture towards the power stand to dim it.

It is also possible to dim all the lights at once by using a dedicated dimmer unit.
Since control is based on individually set dimming values, the overall brightness can be changed while maintaining the brightness ratio of each spotlight.

Point 03 — Easy to replace or add LED modules

1 to 8 LED modules may be attached to a single power stand. It is possible to illuminate multiple exhibits at the same time, or to illuminate an exhibit that tends to cast shadows from both the top and bottom.
Even if the exhibition layout changes, LED modules can easily be replaced with different LED colors or beam angles, reduced or added, ensuring that the exhibits always receive the optimal light.

The LED module can be attached/detached by hand from the top of the power stand.

Product Components

Mount base, cover Top cap are included in Stand lead processing.

- Top cap
- ORBIT SPOT
  Up to 8 modules may be attached
- Power stand
  Length should be specified.
  Manufacturing range : 01.m to 1.2m
- Cover
- Mount base
- Stand lead processing
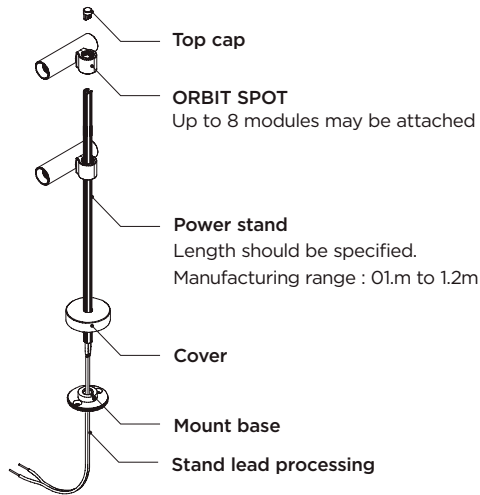
Light Distribution

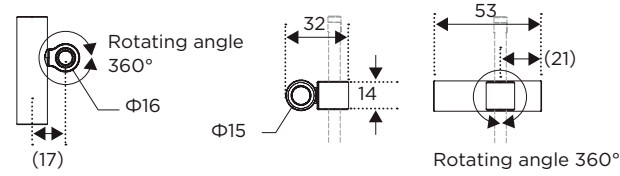All values shown are for 3000K modules
*The values in parentheses are CRI95, 3000K modules

	16D 87 lm(78 lm)	24D 86 lm(78 lm)	30D 72 lm(58 lm)
100	56184(27326) Φ30	29172(13379) Φ50	18676(8354) Φ60
200	14046(6832) Φ60	7293(3345) Φ100	4669(2089) Φ110
300	6243(3036) Φ90	3241(1487) Φ150	2075(928) Φ170
400	3512(1708) Φ120	1823(836) Φ200	1167(522) Φ230
500	2247(1093) Φ140	1167(535) Φ250	747(334) Φ280
[mm]	[lx]		

Instructions

The mount base can be fixed from the front side or from the back side.

Fixed from the front side

- Φ3mm flat head screws
- Mount base
- Φ7mm cutout

Installed image

Fix the power stand in any position using the included hex wrench.

- Hex wrench
- Cover

Required space
Please have enough space for installation and for adjusting the length of the power stand.

Fixed from the back side

- Φ7mm cutout
- Mount base
- Φ3mm flat head screws

Installed image

Fix the power stand in any position using the included hex wrench.

Required space
Please have enough space for installation with the hex wrench and for adjusting the length of the power stand.

- Hex wrench

Specifications

(mm)

Rotating angle 360°
Φ16
(17)

32
14
Φ15

53
(21)
Rotating angle 360°

Length of the power stand can be adjusted on site.

Fixed from the front side

Φ6.5
3
9

Length of the power stand
Max. length of the power stand

100 to 1200

Cover
Panel
2000

Fixed from the back side

3

Length of the power stand
Max. length of the power stand
➕
Panel thickness
➕
Mount base 10mm

100 to 1200

※ 10
Mount base

Φ7　Φ34
24VDC(-), Black
24VDC(+), Black /White-line
22

When fixing the mount base from the back side, please specify the length of the power stand considering the panel thickness and mount base height 10mm.

Power Supplies & Dimmer Packs

24VDC Drivers

LDR24-16

Specifications
Max. Output Current : 0.67A
Max. Output Power : 16W
Protection: Overload, Over Voltage, Short Circuit, Over Temperature
Working Temperature : -30°C-+50°C
Mechanical Specifications
Dimensions : W40 x L150 x H33mm
Weight : 210g
Enclosure Rating : Suitable for use in Dry and Damp Locations/IP30 Rated
Mounting : Flange Mount
LED Module Capacity
OBS LED module : 6 each

LDR24-25

Specifications
Max. Output Current : 1.05A
Max. Output Power : 25W
Protection : Overload, Over Voltage, Short Circuit, Over Temperature
Working Temperature : -30°C-+50°C
Mechanical Specifications
Dimensions : W40 x L150 x H33mm
Weight : 360g
Enclosure Rating: Suitable for use in Dry, Damp and Wet Locations/IP67 Rated
Mounting : Flange Mount
LED Module Capacity
OBS LED module : 9 each

LDR24-40

Specifications
Max. Output Current : 1.67A
Max. Output Power : 40W
Protection : Overload, Over Voltage, Short Circuit, Over Temperature
Working Temperature : -30°C-+50°C
Mechanical Specifications
Dimensions : W43 x L163 x H33mm
Weight : 440g
Enclosure Rating : Suitable for use in Dry, Damp and Wet Locations/IP67 Rated
Mounting : Flange Mount
LED Module Capacity
OBS LED module : 15 each

Common Specifications

Input Range : 100-240VAC
Frequency Range : 50/60 Hz
Output : 24VDC (+/- 4%)

#### LDR24-16 Safety Standards

UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, EN62384, J61347-1, J61347-2-13 approved, Design refer to UL60950-1, TUV EN60950-1

LDR24-25 Safety Standards

UL8750, CSA C22.2 No. 250.0-08, EN61347-1, EN61347-2-13 independent, EN62384, J61347-1, J61347-2-13 approved, IP67 approved; Design refer to UL60950-1, TUV EN60950-1
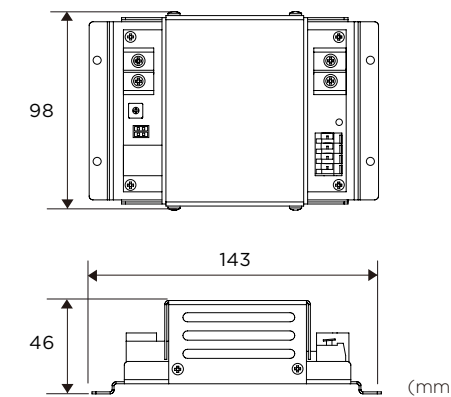
LDR24-40 Safety Standards

UL8750, CSA C22.2 No. 250.0-08, ENEC EN61347-1, EN61347-2-13 independent, EN62384, IP67,J61347-1, J61347-2-13 approved; Design refer to UL60950-1, TUV EN60950-1

L
W
H
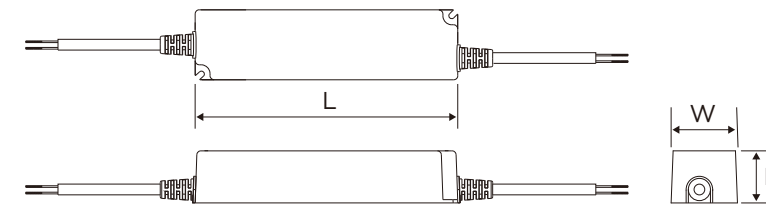
Dimmer Packs

LC-OB-DIM

98
143
46
(mm)

Technical Specifications
Voltage : 24VDC
Max. Load : DC24V 5A
Weight : 350g

LC-1CH-MULTI

Tokistar's LC-1CH-MULTI Dimmer Pack is compatible with industry-standard dimmers working on DMX or 0-10V/1-10V protocol. In the manual mode, a preset light level can be set without the use of an external dimmer.

Technical Specifications
Max. Load : 96W @ 24VDC
Environmental Rating : Dry Location/IP20
Dimensions : W40 x L90 x H20mm
Weight : 50g
Listing : ETL Listed/CE Certified
Operating Temperature : 0-+50°C

DMX Mode

In this mode, dimmer packs are addressable and may be used with any controller working on DMX protocol.
Up to 36 dimmer packs may be connected in series.
For applications exceeding 36 dimmer packs, a splitter is required. Consult factory on details of DMX Splitters.

Analog Mode 0-10/1-10VDC

For operation from devices using 0-10/1-10VDC protocol, up to 10 dimmer packs may be connected in series.
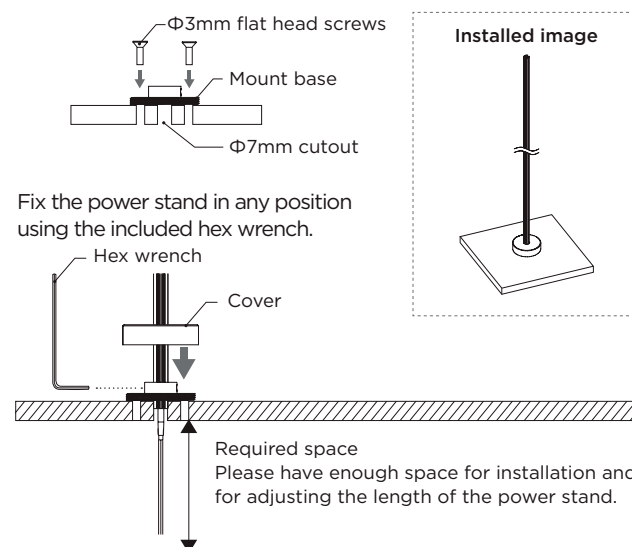For applications exceeding 10 dimmer packs, an additional feed from the analog dimming device is required.

Manual Mode

You may select a light intensity at which the fixtures operate. In this case, no external dimming device is required.
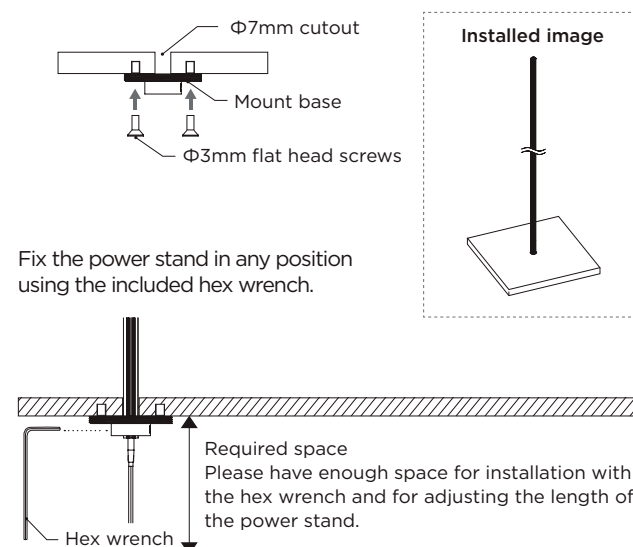
Non-dimming Wiring Diagram

LED Driver

24VDC(-),
Black

24VDC(-),
Black

24VDC(+),
Red

24VDC(+),
Black / White-Black
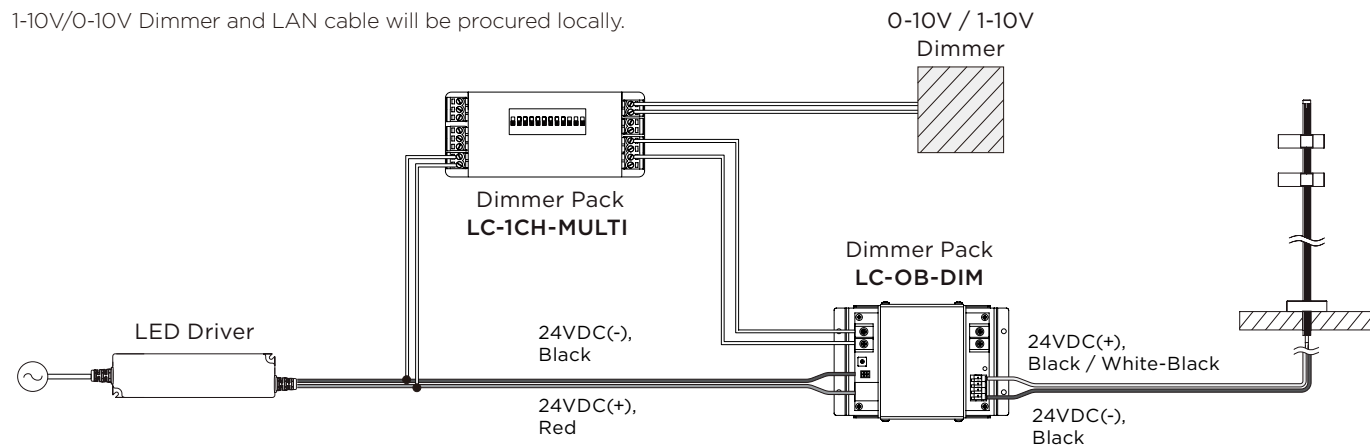
Dimming Wiring Diagrams

Even when not dimming the entire lights, it is possible to dim each LED module individually by pushing it towards the power stand.

0-10V/1-10V Dimming

1-10V/0-10V Dimmer and LAN cable will be procured locally.

0-10V / 1-10V
Dimmer

Dimmer Pack
LC-1CH-MULTI

Dimmer Pack
LC-OB-DIM

LED Driver

24VDC(-),
Black

24VDC(+),
Black / White-Black

24VDC(+),
Red

24VDC(-),
Black

DALI Dimming

DALI Controller, DALI to PWM Converter and LAN cable will be procured locally.

DALI Controller

DALI to PWM
Converter

DALI Signal

PWM Signal

Dimmer Pack
LC-OB-DIM

LED Driver

24VDC(-),
Black

24VDC(+),
Black / White-Black

24VDC(+),
Red

24VDC(-),
Black