

Installation Guide  
for safty

Thank you very much for choosing our product. Before using the product, please read this Installation Manual carefully.  
Please ask an electrical construction shop for the installation of this product.  
After the installation, please surely give this Installation Manual back to the user.

The length of ConsciLed main unit and secondary wire to the dedicated driver

Driver(constant voltage)

Line 1

Line 2

Line 3

Table1.Total length of ConsciLed main unit that can be connected to the dedicated driver

Driver	Total length of ConsciLed main unit
E060CV0241	5m
E180CV0241	15m

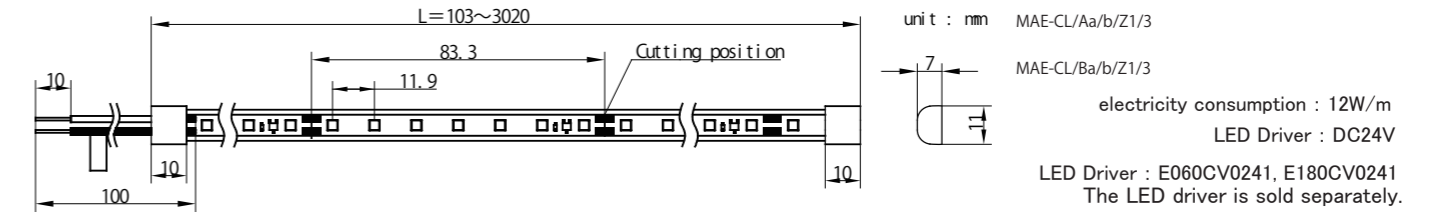
◎ConsciLed The total length of each line depends on the combination with the driver (See Table1)

◎Secondary wire Connectable up to 20 m (12AWG)  
Connectable up to 10 m (14AWG)

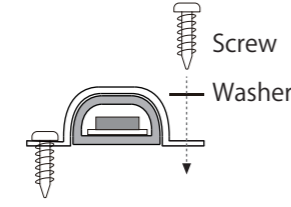

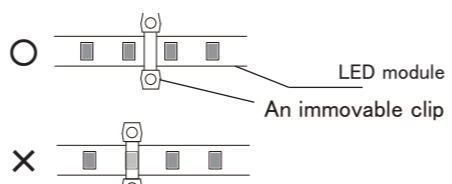





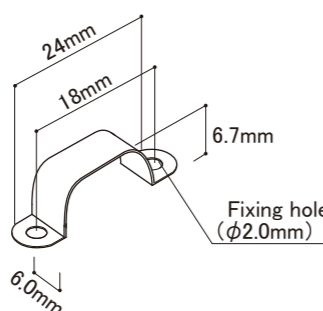

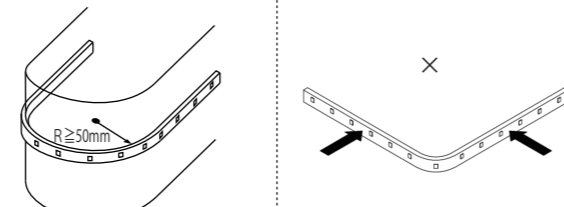


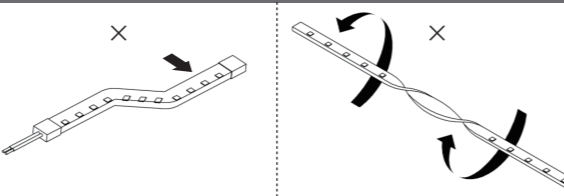

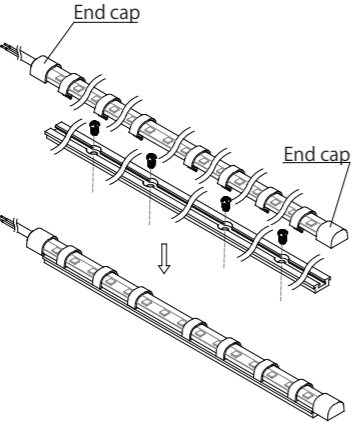

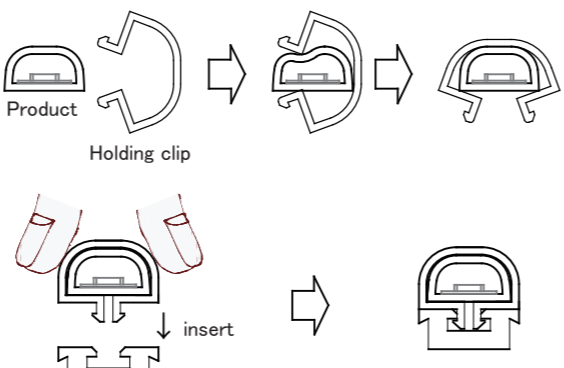

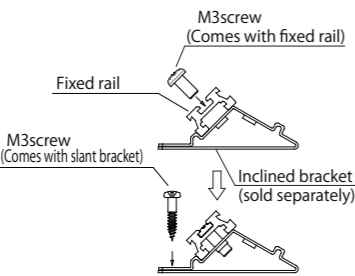
	E060CV0241(60W)					E180CV0241(180W)														
	1	2	3	4	5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ConsciLed + Driver (Power consumption:W)	15	28	42	56	70	17	29	42	54	66	79	91	104	117	128	141	153	166	179	192
ConsciLed + Driver (Apparent power:VA)	16	29	42	56	70	19	31	43	55	68	80	92	105	118	129	142	154	167	180	193



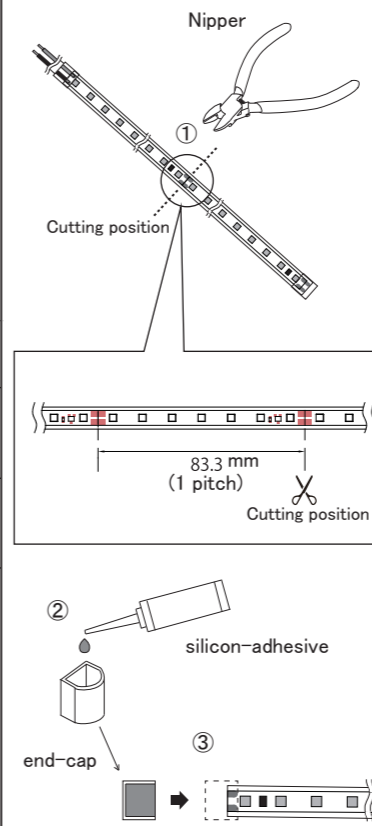

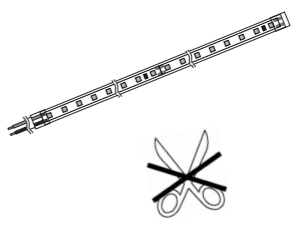

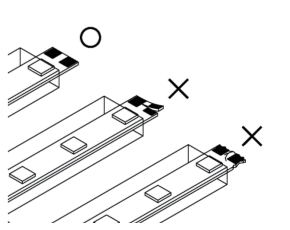




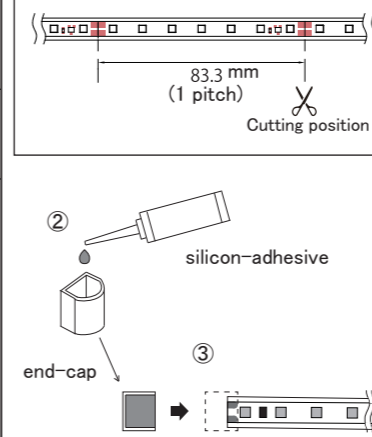

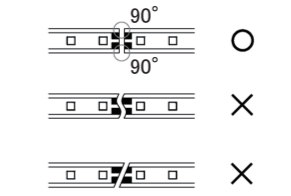

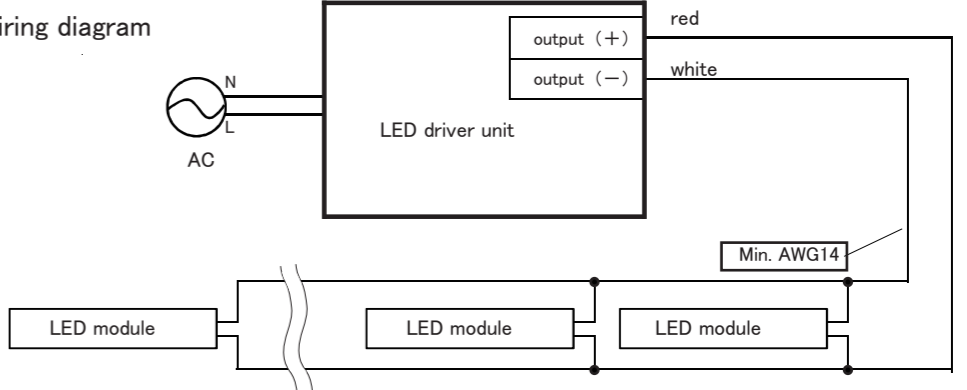

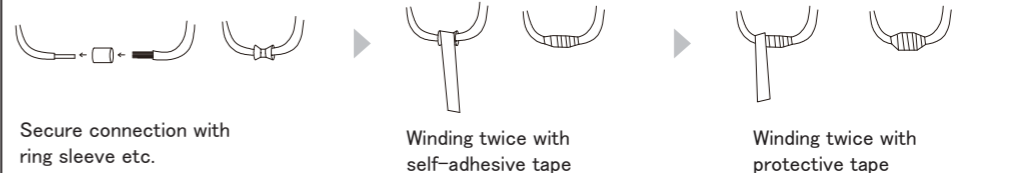
Installation Guide



IMPORTANT SAFETY INSTRUCTIONS (PLEASE CHECK BEFORE INSTALLATION WORK)		
	⚠ Warning : Failure to install the fixture properly could result in personal injury.	⊘ : Prohibited
	⚠ Caution : Failure to install the fixture properly could result in property damage.	⚠ : Strict observance
Before installation	⚠ Warning	⊘ Can not be used following condition (Causes of falling,electrocution and fire) <ul style="list-style-type: none"> <li>●the temperature below -10°C, and above 40°C</li> <li>●area in the sun.</li> <li>●place to receive the wind of air-conditioner</li> <li>●in the refrigerator</li> <li>●ceiling what not hold the weight of fixture</li> <li>●place to receive any damage or shock</li> <li>●on the floor (the place to receive direct load)</li> <li>●bathroom, sauna</li> <li>●near the fire</li> <li>●place where dust or corrosive gas rises</li> <li>●place to be splashed with water</li> <li>●within arm's reach(height of 2.5 m or less)</li> </ul>
	⚠ Caution	⚠ Please follow the fixtures' indication or specification for the distance of irradiated area. (Cause the deformation or discoloration of the irradiated object)
Safety instruction	⚠ Warning	⊘ Please be sure to turn off the power when you install the product, change the LED module and clean up the product. (Cause of broken DC LED Driver • electrification)
	⊘	⊘ Do not touch electric component in a LED module. (Cause of electrification)
	⊘	⊘ Do not use any other power supply than the compatible DC24V LED Driver (sold separately). (Cause the damage on LED module, smoke and/or damage on lighting circuit)
	⊘	⊘ Do not (1) pull the LED module forcefully, (2) twist the LED module, (3) press on the LED module, and (4) bend the LED module by the radius smaller than 50mm. (Cause of broken fixture • fire)
For electric wiring	⚠ Warning	⚠ Only the qualified person must do the electric work to avoid any accidents.
	⚠	⚠ Please follow rating plate of fixture for LED Driver frequency.
	⚠	⚠ Be sure LED Driver voltage is within ± 6% mentioned in rating plate or the guide. (Causes of short life of lamps • electrification • fire)
	⚠	⚠ Be sure all the wires and codes are not damaged. (Causes of falling • damage)
When lighting fixture installation	⚠ Warning	⚠ Please follow the fixtures' instruction or this guide to install the fixture and lamp. (Causes of falling • electrification • fire)
	⚠	⚠ Switch off the power when installing the lamp. (Causes of electrification)
	⊘	⊘ Do not touch the fixture during the operation or shortly after the turn-off, because the fixture will be very hot (cause of burns).
	⊘	⊘ Do not put any cloths, papers or heat insulators on the fixture (cause of no lighting or fire)
	⊘	⊘ Do not place any metallic or flammable objects. (Causes of electrification • fire • broken fixture)
	⚠	⚠ Make sure to install all the parts of fixtures besides installation and mounting parts will not touch with any objects both inside and outside of ceiling such as lighting track, etc. (Causes of falling • electrification • fire)
	⊘	⊘ Do not dismount or remodel fixtures. (Causes of electrification • fire • broken fixtures)
	⊘	⊘ Do not operate with wet hands. (Cause of electrification)
	⚠	⚠ if you smell smoke, see smoke, or find anything unusual, please turn the switch off and ask construction companies to repair. (Causes of electrification • fire)
	⚠	⚠ Please install by using immovable clips and rail (selling separately) when installing LED module. (Cause of falling)
	⚠	⚠ Do not put excessive weight for LED module. (Cause of broken fixture • falling)
When you use	⚠ Caution	⚠ Make sure the construction will not affect any fire prevention systems such as sprinkler by heat from the fixture.(Causes for improper operation)
	⚠ Caution	⚠ Please be careful there are cases when radio or terevision is disturbed by noises, if LED module light a lamp nearby the radio or terevision.
	⚠	⚠ Because of unevenness of LED chip, the emission color and the brightness of each product may be different even in the same product model.
	⚠	⚠ When replacing, please change each LED module. LED chip cannot be replaced.
	⚠	⚠ The emission color and the brightness of LED chip may become uneven over time.
	⚠	⚠ When installed on the ceiling, wall or under the shelf, LED module must be installed without any slack.

Installation Details	Installation Diagram	Caution
<p>As for the attachment body</p> <p>holding clip (Case mount as accessory)</p> <p>Please certainly tighten fixing clip with mounting screw (or M2 screw) and washer at politic interval.</p>	<p>● Mounting screw (accessory or M2 screw)</p>  <p>Screw Washer</p>	<p> a</p>  <p>LED module An immovable clip</p>
<p> a Do not pile up LED and clip. (Cause of lowering an illumination)</p> <p> b Fix within the minimum bending range.</p> <p> c Do not bend in the LED position.</p> <p> d Not to bend LED module in the horizontal direction of optical axis.</p> <p> e Do not twist LED module.</p>	<p>● Mounting hole pitch</p>  <p>24mm 18mm 6.7mm 6.0mm Fixing hole (φ2.0mm)</p>	<p> b</p>  <p> c</p> <p> d</p>  <p> e</p>
<p>Fixing to Mounting rail</p> <p>Fixing to Mounting rail (Optional : MAP-CD/RL1000/12/01)</p> <p>Attach a fixed clip to the product beforehand. Use M3 pan-head screws or magnets mounted on the rails for mounting the fixed rails.</p> <p>When installing the product on the fixed rail, hold the both ends of the fixed clip with your fingers, deform it as shown in the figure on the right, and insert it into the groove on the fixed rail.</p>	 <p>End cap End cap</p>	<p></p>  <p>Product Holding clip insert</p>
<p></p> <ul style="list-style-type: none"> <li>• Please cut according to the length of the corresponding product.</li> <li>• Be sure to use in combination with compatible products.</li> <li>• Please be careful that the end cap of the product does not ride on the fixed rail.</li> <li>• When mounting on a wall or ceiling, be sure to attach 12 fixing clips per meter (MAP-CD/RL1000/12/01) (MAP-CD/RLM1000/12/01: With magnet)</li> </ul>	 <p>M3screw (Comes with fixed rail) Fixed rail M3screw (Comes with slant bracket) Inclined bracket (sold separately)</p> <p>The inclined bracket is fixed at one place on the opposite side of the fixed rail</p> <p>Firmly attached to a sufficiently strong mounting surface and fix with screws. Please make sure it is not.</p>	<p>Do not pile up the protrusion of the Tilt bracket</p>

(Contact)  
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 Tel : +44-01273-616649

Installation Details	Installation Diagram	Caution
<p>Method of cut LED module</p> <ol style="list-style-type: none"> <li>1 Please cut at the cutting position of LED module by nippers.</li> <li>2 Inject silicon-adhesive into the end-cap(accessory).</li> <li>3 Attach the end-cap.</li> </ol>	 <p>Nipper Cutting position 83.3 mm (1 pitch) Cutting position silicon-adhesive end-cap</p>	<p> g</p>  <p> h</p> 
<p> g Use nippers only to cut the LED modules.</p> <p> h Cut at the cutting position cleanly.</p> <p> i Please cut at the cutting surface at right angles( 90° ).</p> <p> j In the case of unfinished treatment, inject a resin adhesive (optional AX-067) into the cap and install it securely. Make sure that the adhesive does not adhere to the LED light-emitting area. (possibly light discoloration)</p>	 <p>90° 90° resin-adhesive (selling separately AX-067) GLUE Add adhesive to 1/3 position.</p>	<p> i</p>  <p> j</p> <p>Make sure that the adhesive does not adhere to the LED light-emitting area. (possibly light discoloration)</p>
<p>LED driver connection</p> <p>Please follow Technical Standards of electrical facility, and connect specified LED driver correctly.</p> <p>Please refer to LED driver installation guide.</p>	<p>Demand specifications of the conformity LED Driver</p> <ul style="list-style-type: none"> <li>• electricity consumption : 12W/m</li> <li>• LED Driver : E060CV0241, E180CV0241</li> <li>• constant voltage LED Driver</li> </ul> <p>■ wiring diagram</p>  <p>AC LED driver unit LED module LED module LED module Min. AWG14</p>	<p></p> <p>When using it outdoors or in a place with high humidity, make sure to connect the connection using a sleeve or the like and securely perform waterproof treatment using self-adhesive tape etc.</p>  <p>Secure connection with ring sleeve etc. Winding twice with self-adhesive tape Winding twice with protective tape</p>

## ■ Life of the lighting fixtures

There is a limit of the life span of lighting fixture.

In 8 to 10 years after the installation, the deterioration of inside the lighting fixture may progress, even if no problem is found with its appearance.

※service condition : the ambient temperature is 30 degrees, 10 hours lighting /day, 3000 hours a year. (see JIS C 8105-1)

- In case the ambient temperature is high and the lighting time is long, the service life of a luminaire to become to short.
- Please receive the checking by an expert at least every 3 years..  
(To prevent fire, electrification and falling)

## ■ Warranty

warranty period	We define our own long-term warranty period.
Contents of Warranty	We will repair the lighting fixture or replace to new one within the warranty period free of charge.
Exceptions	Following cases are exceptions and excluded from our warranty: <ul style="list-style-type: none"><li>●In case of accidents or troubles, caused by the wrong use or installation</li><li>●In case of repair or modification done by any other company than ModuleX or the service shop appointed by ModuleX</li><li>●In case of accidents or troubles, caused by the modification or part replacement done by yourself.</li><li>●Deterioration over time, such as the discoloration of the painted surface or metal plated surface.</li><li>●In case of accidents or troubles, caused by or during the move from the originally installed place.</li><li>●In case of accidents and troubles, caused by, but not limited to fires, earthquakes, flood and flash-to-ground.</li><li>●In case of accidents and troubles, caused by the voltage and frequency not specified in our specifications or manuals etc.</li><li>●In case of accidents and troubles, caused by the installation at the wrong place where is not suitable for the product, such as high humid place, vibrating place, dusty place or place polluted by salt.</li><li>●Secondary loss, such as the damage to the building or loss of sales opportunities etc, shall not be compensated in any case.</li></ul>

## ■ After service

Please contact vendor and a place of business as mentioned bellow if you wish to consult troubleshooting and do not understand.



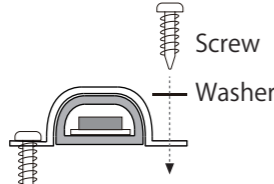
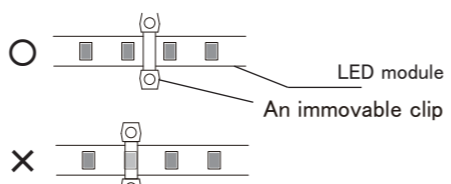
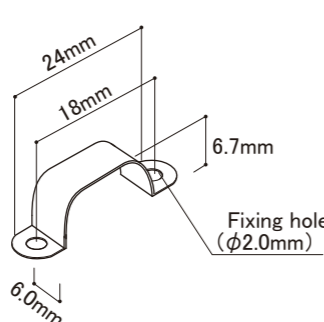
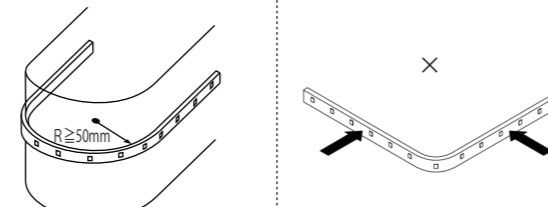
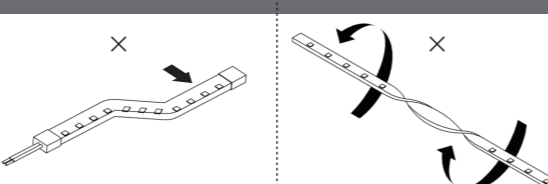
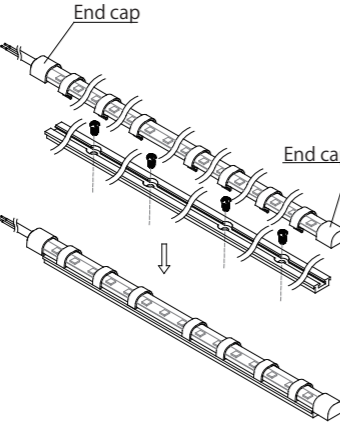
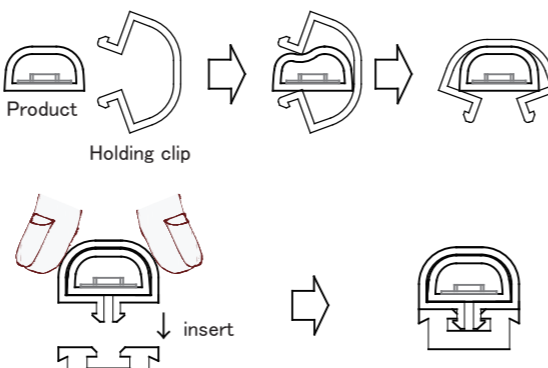
# Maintenance Guide

MAE-CL Z1/3 Series



NANOTECO corporation  
UEC alliance center room No.418  
The University of Electro-Communications  
1-1-1 Kotorimachi Chofu-shi Tokyo  
182-0026, Japan

MAE-CL Z1/3 Series

Installation Details	Installation Diagram	Caution
<p>As for the attachment body</p> <p>holding clip (Case mount as accessory)</p> <p>Please certainly tighten fixing clip with mounting screw (or M2 screw) and washer at politic interval.</p>	<p>● Mounting screw (accessory or M2 screw)</p>  <p>Screw Washer</p>	<p>⚠ a</p>  <p>LED module An immovable clip</p>
<p>⚠ a Do not pile up LED and clip. (Cause of lowering an illumination)</p> <p>⚠ b Fix within the minimum bending range.</p> <p>⚠ c Do not bend in the LED position.</p> <p>⚠ d Not to bend LED module in the horizontal direction of optical axis.</p> <p>⚠ e Do not twist LED module.</p>	<p>● Mounting hole pitch</p>  <p>24mm 18mm 6.7mm 6.0mm Fixing hole (φ2.0mm)</p>	<p>⚠ b</p>  <p>R ≥ 50mm</p> <p>⚠ c</p> <p>⚠ d</p> 
<p>Fixing to Mounting rail</p> <p>Fixing to Mounting rail (Optional : MAP-CD/RL1000/12/01)</p> <p>Attach a fixed clip to the product beforehand. Use M3 pan-head screws or magnets mounted on the rails for mounting the fixed rails.</p> <p>When installing the product on the fixed rail, hold the both ends of the fixed clip with your fingers, deform it as shown in the figure on the right, and insert it into the groove on the fixed rail.</p> <ul style="list-style-type: none"> <li>• Please cut according to the length of the corresponding product.</li> <li>• Be sure to use in combination with compatible products.</li> <li>• Please be careful that the end cap of the product does not ride on the fixed rail.</li> <li>• When mounting on a wall or ceiling, be sure to attach 12 fixing clips per meter. (MAP-CD/RL1000/12/01) (MAP-CD/RLM1000/12/01: With magnet)</li> <li>• Insulate unused lead wires.</li> <li>• Be sure to fix the rail with screws when installing it on the ceiling.</li> </ul>	<p>End cap</p>  <p>End cap</p> <p>M3screw (Comes with fixed rail)</p> <p>Fixed rail</p> <p>M3screw (Comes with slant bracket)</p> <p>Inclined bracket (sold separately)</p> <p>The inclined bracket is fixed at one place on the opposite side of the fixed rail</p> <p>Firmly attached to a sufficiently strong mounting surface and fix with screws. Please make sure it is not.</p>	<p>⚠</p>  <p>Product Holding clip</p> <p>insert</p> <p>Do not pile up the protrusion of the Tilt bracket</p>

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS	
When you use	<p>⚠ Please be careful there are cases when radio or television is disturbed by noises, if LED module light a lamp nearby the radio or television.</p>
	<p>⚠ There are cases where the LED element vary in color, brightness even if LED elements are the same product because LED element is uneven. Please understand this.</p>
	<p>⚠ Please exchange the LED module and all that time. Please be careful because you cannot exchange a substance the LED element.</p>
	<p>⚠ There are cases where the LED element color, brightness may be different. Please understand this.</p>
	<p>⚠ Please install LED module try not to slacken when LED module install in the ceiling, surface of wall.</p>

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