

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.

for safty

Product model number	Product dimensions(L×W×H)	Product mass
NTS-SLR11-0100-27K	L100xW11xH11.8	16.9g
NTS-SLR11-0200-27K	L200xW11xH11.8	33.3g
NTS-SLR11-0300-27K	L300xW11xH11.8	47.9g
NTS-SLR11-0580-27K	L580xW11xH11.8	89g
NTS-SLR11-1180-27K	L1180xW11xH11.8	180g
NTS-SLR11-1480-27K	L1480xW11xH11.8	223g

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

① Direct connection

Applicable power supply

≤ 5 m

⊙The main unit can be connected up to a maximum of 5 m.

Total length of driver and body

driver	Full length (Body)
NTC-E060CV0241	4.5m
NTC-E180CV0241	13.5m

② Parallel connection

Applicable power supply

Secondary side wire

System 1

System 2

≤ 5 m

≤ 5 m

⊙The main unit can be connected up to 5 m for each system.

⊙Secondary power supply — Up to 5m can be connected.

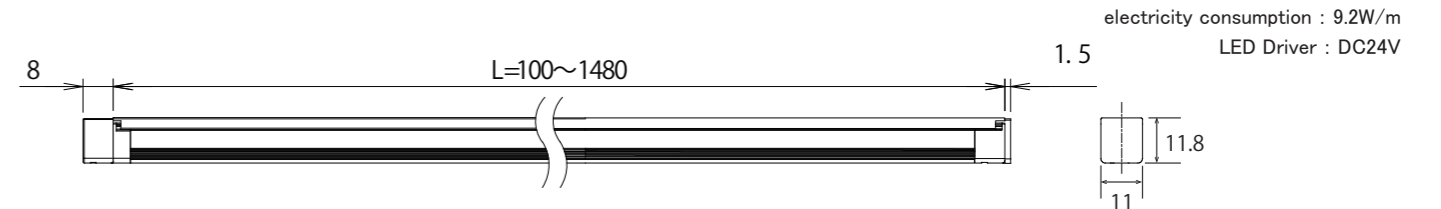
The total length of each system depends on the combination with the driver
(See the table on the upper right)

	NTC-E060CV0241			NTC-E180CV0241								
	1.5m	3.0m	4.5m	1.5m	3.0m	4.5m	6.0m	7.5m	9.0m	10.5m	12.0m	13.5m
ConsciLed + Driver (Power consumption:W)	24	47	71	26	50	70	91	114	136	157	178	200
ConsciLed + Driver (Apparent power:VA)	27	50	74	28	51	71	92	115	137	158	180	201

CD1500PWM/V2	Number of connections (Connect power from the dimmer)	15 units	5 units
	Number of connections (Dimming signal capacity)	50 units	50 units
Lutron PWM interface	Number of connections (Dimming signal capacity)	200 units (Check the power capacity separately)	200 units (Check the power capacity separately)



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	<p>⊘ Can not be used following condition (Causes of falling, electrocution and fire)</p> <ul style="list-style-type: none"> ● the temperature below -20°C, and above 45°C ● area in the sun. ● place to receive the wind of air-conditioner ● in the refrigerator ● ceiling ● place to receive any damage or shock ● on the floor (the place to receive direct load) ● bathroom, sauna ● near the fire ● place where dust or corrosive gas rises <p>⊘ Do not bring instruments close to electronic medical devices such as pacemakers.</p>
	⚠ 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	<p>⚠ 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)</p> <p>⊘ Do not touch electric component in a LED module. (Cause of electrification)</p> <p>⊘ 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)</p> <p>⊘ 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)</p>
	⚠ Warning	<p>⚠ Only the qualified person must do the electric work to avoid any accidents.</p> <p>⚠ Please follow rating plate of fixture for LED Driver frequency.</p> <p>⚠ Be sure LED Driver voltage is within ± 6% mentioned in rating plate or the guide. (Causes of short life of lamps • electrification • fire)</p> <p>⚠ Be sure all the wires and codes are not damaged. (Causes of falling • damage)</p>
For electric wiring	⚠ Warning	<p>⚠ Please follow the fixtures' instruction or this guide to install the fixture and lamp. (Causes of falling • electrification • fire)</p> <p>⚠ Switch off the power when installing the lamp. (Causes of electrification)</p> <p>⊘ Do not touch the fixture during the operation or shortly after the turn-off, because the fixture will be very hot (cause of burns).</p> <p>⊘ Do not put any cloths, papers or heat insulators on the fixture (cause of no lighting or fire)</p> <p>⊘ Do not place any metallic or flammable objects. (Causes of electrification • fire • broken fixture)</p> <p>⚠ 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)</p> <p>⊘ Do not dismount or remodel fixtures. (Causes of electrification • fire • broken fixtures)</p> <p>⊘ Do not operate with wet hands. (Cause of electrification)</p> <p>⚠ 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)</p> <p>⚠ Please install by using immovable clips and rail (selling separately) when installing LED module. (Cause of falling)</p> <p>⚠ Do not put excessive weight for LED module. (Cause of broken fixture • falling)</p>
	⚠ 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	<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>⚠ Because of unevenness of LED chip, the emission color and the brightness of each product may be different even in the same product model.</p> <p>⚠ When replacing, replace the entire LED module. Please note that the LED element alone cannot be replaced.</p> <p>⚠ The emission color and the brightness of LED chip may become uneven over time.</p> <p>⚠ When installed on the ceiling, wall or under the shelf, LED module must be installed without any slack.</p> <p>⚠ When using the dimmer, there may be a slight noise from the instrument, but this is not a malfunction..</p>
	⚠ Caution	⚠
	⚠ Caution	⚠
	⚠ Caution	⚠
	⚠ Caution	⚠
	⚠ Caution	⚠
	⚠ Caution	⚠
	⚠ Caution	⚠
⚠ Caution	⚠	
When you use	⚠ Caution	⚠

NTS-SLR11

Installation Details	Installation Diagram	Caution														
<p>1 Connection between instruments</p> <p>Check the unevenness and orientation of the equipment and connect them horizontally.</p>	<p>1</p> <p>※It is also possible to connect the fixtures with an optional harness (NTS-SLR11-DC-0150, NTS-SLR11-JC-0135).</p>	<p>⚠^d</p>														
<p>⚠^d If it is not in the wrong orientation or level, the instrument may be damaged.</p>																
<p>1 Connection method</p> <p>Connect the power connection cable (sold separately) to the terminal on the main unit.</p>	<p>1</p> <p>AWG20 gray (-) White (+) Power connection cable NTS-SLR11-DC-0150 Body</p>															
<p>⚠ Make sure to insert the dedicated cord into the terminal of the main unit. Make sure that there is no rattling or looseness.</p>																
<p>1 How to use bracket</p> <p>Secure the bracket to the mounting surface with the supplied screws.</p> <p>2 Fix the body to the bracket.</p> <p>3 Install the bracket 50 ± 5mm from the end face of the main unit (see attached sheet)</p>	<p>1 2</p> <p>3</p>															
<p>Number of brackets used</p> <table border="1"> <thead> <tr> <th>Body length</th> <th>Number of use</th> </tr> </thead> <tbody> <tr> <td>100mm</td> <td>1</td> </tr> <tr> <td>200mm</td> <td>2</td> </tr> <tr> <td>300mm</td> <td>2</td> </tr> <tr> <td>580mm</td> <td>2</td> </tr> <tr> <td>1180mm</td> <td>3</td> </tr> <tr> <td>1480mm</td> <td>3</td> </tr> </tbody> </table> <p>Because there is a risk of falling, mounting on the ceiling with brackets should be used in an environment that does not hit people (such as shelves) Please give me.</p> <p>Never mount the projector on a ceiling or high place with a magnet because it may fall.</p>	Body length	Number of use	100mm	1	200mm	2	300mm	2	580mm	2	1180mm	3	1480mm	3	<p>Opening dimensions for installation with embedded equipment</p>	
Body length	Number of use															
100mm	1															
200mm	2															
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1180mm	3															
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Installation Details	Installation Diagram	Caution																											
<p>Connection with compatible power supply</p> <p>Use an extension cable when extending from a 150 mm standard cord. (Sold separately)</p> <p>Connect the specified power supply correctly according to the electrical equipment technical standards.</p> <p>For dimming, connect either PWM or 0-10V.</p>	<p>Power supply Power connection cable Extension cable (sold separately) NTS-SLR11-DC-0150 Body</p> <p>⚠^a</p> <p>Lighting equipment side gray ⊖ white ⊕ black ⊖ red ⊕ Dedicated power supply side</p> <p>■ LED Power supply unit</p> <p>【Primary side】 【Secondary side】</p> <table border="1"> <thead> <tr> <th>Primary side</th> <th>AC input cable (L)</th> <th>black</th> </tr> </thead> <tbody> <tr> <td></td> <th>AC input cable (N)</th> <td>white</td> </tr> <tr> <td></td> <th>ground wire</th> <td>yellow/green</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Secondary side</th> <th>DC output cable (+)</th> <th>red</th> </tr> </thead> <tbody> <tr> <td></td> <th>DC output cable (-)</th> <td>black</td> </tr> <tr> <td></td> <th>PWM dimming signal cable</th> <td>white</td> </tr> <tr> <td></td> <th>PWM dimming signal cable</th> <td>white</td> </tr> <tr> <td></td> <th>0-10V dimming signal cable (+)</th> <td>purple</td> </tr> <tr> <td></td> <th>0-10V dimming signal cable (-)</th> <td>ash</td> </tr> </tbody> </table>	Primary side	AC input cable (L)	black		AC input cable (N)	white		ground wire	yellow/green	Secondary side	DC output cable (+)	red		DC output cable (-)	black		PWM dimming signal cable	white		PWM dimming signal cable	white		0-10V dimming signal cable (+)	purple		0-10V dimming signal cable (-)	ash	<p>⚠^a LED has polarity. Make sure that the positive and negative terminals are not connected in reverse before connecting the wires.</p>
Primary side	AC input cable (L)	black																											
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	0-10V dimming signal cable (-)	ash																											
<p>⚠ Never modify the LED power supply unit.</p> <p>⚠ If you feel smoke or odor, do not use it as it is. Immediately turn off the power and consult your dealer.</p> <p>⚠ Connect the dimmer correctly. Incorrect wiring may cause failure.</p>	<p>■ Wiring diagram</p> <p>100-242V AC feed 100-242V AC (N side, L side) Dimmer LED power supply unit LED module LED module</p> <p>black 18AWG white 18AWG ground wire 16AWG yellow/green red 18AWG output (+) output (-) black 18AWG purple (+)18AWG ash (-)18AWG To 0-10V dimmer white 18AWG white 18AWG PWM signal input</p> <p>PWM signal output (no polarity, maximum 30m) (Do not let the signal and power wires come in contact)</p>																												
<p>⚠ Connect the wire of the lighting fixture and the wire of the compatible power supply securely using a sleeve, etc., and use a self-adhesive tape to ensure insulation.</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">●In case of accidents or troubles, caused by the wrong use or installation●In case of repair or modification done by any other company than ModuleX or the service shop appointed by ModuleX●In case of accidents or troubles, caused by the modification or part replacement done by yourself.●Deterioration over time, such as the discoloration of the painted surface or metal plated surface.●In case of accidents or troubles, caused by or during the move from the originally installed place.●In case of accidents and troubles, caused by, but not limited to fires, earthquakes, flood and flash-to-ground.●In case of accidents and troubles, caused by the voltage and frequency not specified in our specifications or manuals etc.●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.●Secondary loss, such as the damage to the building or loss of sales opportunities etc, shall not be compensated in any case.

■ 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

NTS-SLR11

NTS-SLR11

OPTION

Type number	Dimensions drawing
<p>1</p> <p>NTS-SLR11-DC-0150</p> <p>Power connection cable/150mm</p>	
<p>2</p> <p>NTS-SLR11-JC-0135</p> <p>Extension cable/135mm</p>	
<p>3</p> <p>NTS-SLR11-LC- *K</p> <p>Corner connection lamp (left)</p>	
<p>4</p> <p>NTS-SLR11-RC- *K</p> <p>Corner connection lamp (right)</p>	

IMPORTANT SAFETY INSTRUCTIONS SAVE THESE INSTRUCTIONS

When you use	Instructions
!	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.
!	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.
!	Please exchange the LED module and all that time. Please be careful because you cannot exchange a substance the LED element.
!	There are cases where the LED element color, brightness may be different. Please understand this.
!	Please install LED module try not to slacken when LED module install in the ceiling, surface of wall.

(Contact)
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