

# Product Specification

## Neon LV Strip Pro 3D Bending 20mm Single Color 10°

(Type TF)

WW-FLS102T13XW042TF-24(WCP)-UR-F-2020-TS3- A10

WW-FLS102T13XW042TF-24(WCP)-UR-F-2020-TS3-EP-  
A10

Apply to ERP Regulation (EU) 2019/2020



HK Office :

Unit 1901, 19th Floor, NanYang Plaza, No. 57 Hung To Road  
Kwun Tong, Kowloon, Hong Kong

China Factory :

Zhiyang Science and Technology Park, 10 Zhiyang Road, Zhangge,  
Fucheng Street, Longhua District, Shenzhen, Guangdong, China

Tel : (852) 3152 3059 (10 lines)


Fax : (852) 3152 3039



Tel : (86) 755 8601 9190



Fax : (86) 755 8601 9197

<p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>• High quality PCB</li> <li>• Adoption of CSP packaged LEDs</li> <li>• Light source lifetime:50K hours</li> <li>• Meet (EU) 2019/2020 ERP regulations</li> <li>• Vertical bending</li> <li>• High quality silicone material</li> <li>• IP65 waterproof</li> <li>• Min.Bending Diameter:Φ200mm</li> <li>• 10° luminescence</li> </ul>	
<p><b>Technology info</b></p> <ul style="list-style-type: none"> <li>• Lighting Technology: LED</li> <li>• DLS or NDLS: DLS</li> <li>• MLS or NMLS: NMLS</li> <li>• Type of light source: CSP</li> <li>• Energy consumption KW/1000h/0.5M:10.4W</li> <li>• Beam angle: 10°</li> <li>• Survival factor (Annex V/EU2019-2020) :90%</li> </ul>	<p><b>Harmonised Standards</b></p> <p>EMC</p> <ul style="list-style-type: none"> <li>• EN55015</li> <li>• EN61547</li> <li>• EN60598-1</li> <li>• EN60598-2-20</li> <li>• EN62493</li> <li>• EN62471</li> </ul>



<p><b>Waterproof Type</b></p>	
-------------------------------	---

**Parameters for ERP**

Test condition:

- Surrounding temperature: 26°C.
- Test after 10 mins turned on.

Neon LV Strip											
Neon LV Strip Model No.	CRI (Ra)	Rf	Rg	Typical Power (W/M)	Max. Power (W/M)	Color	LED Color Temp.(K) Wavelength (nm)*	Typ. Luminous Flux LM/M(39.37in)	Lumen/watt	Energy Efficiency class	Rated voltage
WW-FLS102T26WW042TF-24(WCP)-UR-F-2020-TS3-A10	≥90	90	98	20.8	22.8	Warm White	2700	1564	75	G	DC24V
WW-FLS102T26WW042TF-24(WCP)-UR-F-2020-TS3-A10				20.8	22.8	Warm White	3000	1631	78.4	F	DC24V
WW-FLS102T26WW042TF-24(WCP)-UR-F-2020-TS3-A10				20.8	22.8	Natural White	4000	1715	82	F	DC24V

Remarks:

- \*The above color temperature is the color temperature of LED source.
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

ErP Note:

- Measured power ≤ Pon +5% ;
- Measured lumen ≥Useful luminous flux -10%;
- Measured CRI ≥ Declared CRI-2
- The above technical data, including typical power are based on the test of 0.5m.
- ERP Parameters Calculated Using Ring Band Luminous Flux

## Parameters for Non-ERP

Test condition:

- Surrounding temperature: 26°C.
- Test while turning on.

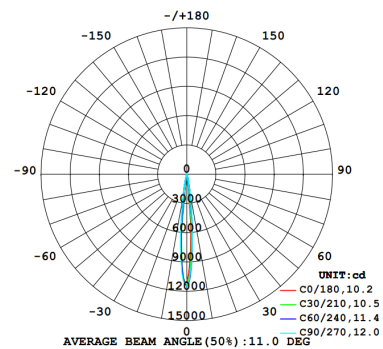
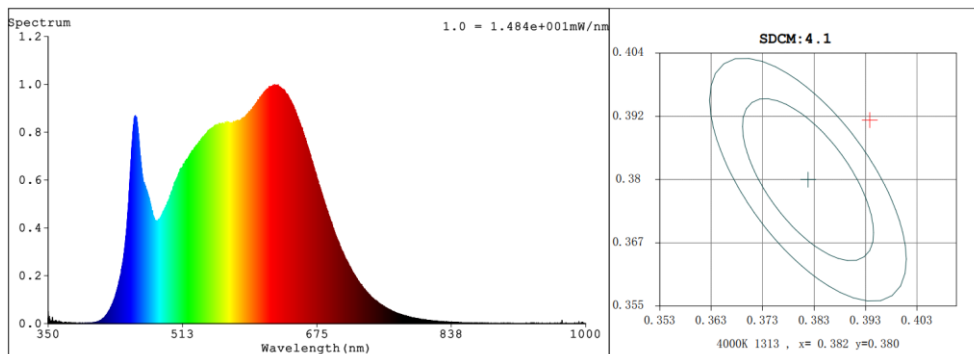
Neon LV Strip									
Neon LV Strip Model No.	CRI (Ra)	Rf	Rg	Typ. Power (W/M)	Max. Power (W/M)	Color	Neon LV Strip Color Temp.(K) Wavelength(nm)	Typ. Luminous Flux LM/M(39.3 7in)	Rated voltage
WW-FLS102T26WW042TF-24(WCP)-UR-F-2020-TS3-A10	≥90	90	98	20.2	22.2	Warm White	2700K	1584	DC24V
WW-FLS102T26WW042TF-24(WCP)-UR-F-2020-TS3-A10	≥90	90	98	20.2	22.2	Warm White	3000K	1649	DC24V
WW-FLS102T26WW042TF-24(WCP)-UR-F-2020-TS3-A10	≥90	90	98	20.2	22.2	Natural White	4000K	1734	DC24V

Remarks:

- SDCM for light source: ≤6
- The typ. Luminous flux tolerance range is ±10% (subject to the manufacturer's instrument test).

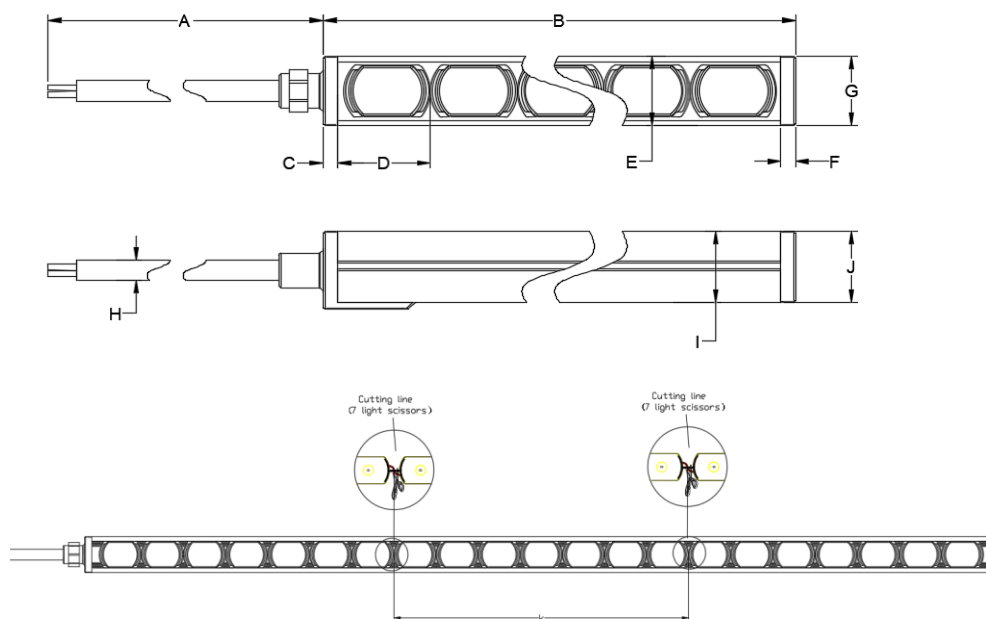
**Optical Test Diagram**

**Neon Flex**



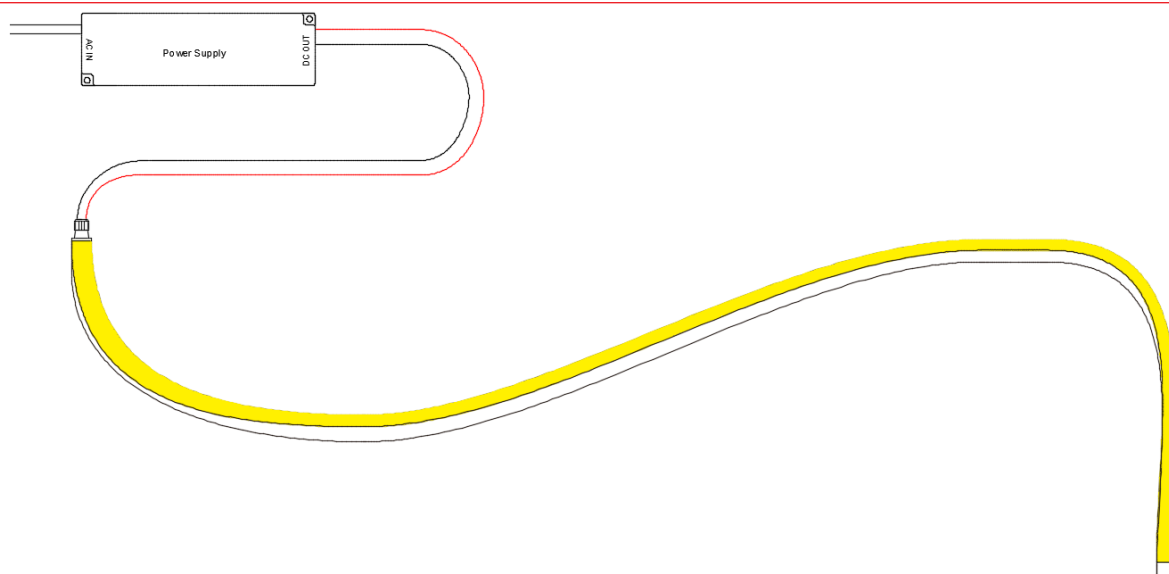
**Dimension Drawing**

**Neon LV Strip**

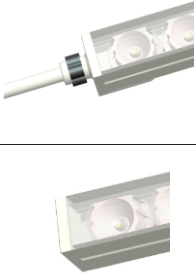
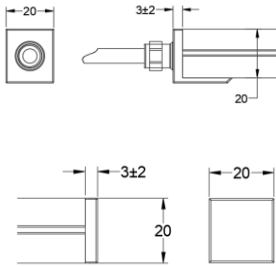


A Cable Length	B Strip length	C Cap thickness	D Lens length	E Cap width	F Cap thickness	G Cable diameter	H Cable Length	I / J Strip thickness	K Cutting length
300±10mm	5200±100mm	3±2mm	23.5±2mm	20±0.5mm	3±2mm	20±0.5mm	6±0.5mm	20±0.5mm	166.7±2mm
11.81±0.39in	204.72±3.93in	0.118±0.078in	0.925±0.078in	0.787±0.019in	0.118±0.078in	0.787±0.019in	0.236±0.019in	0.787±0.019in	6.563±0.078in

### Circuit Diagram

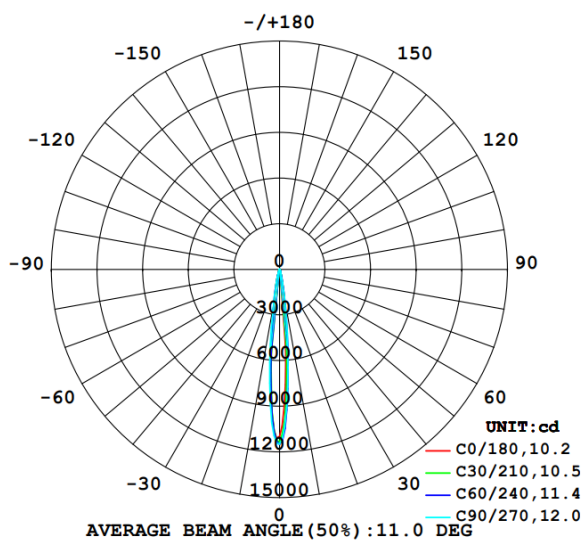


## Front & end caps dimensions

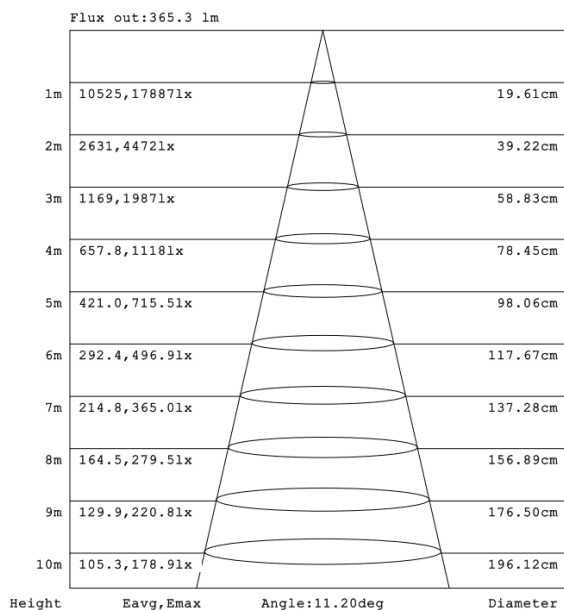
Cable Types	Model No.	Image	Dimension	IP Rating
Double Injection	WW-FLS102T26XW042TF-24(WCP)-UR-F-2020-TS3-A10			IP65

## Optical Parameters

Distribution Curve Flux



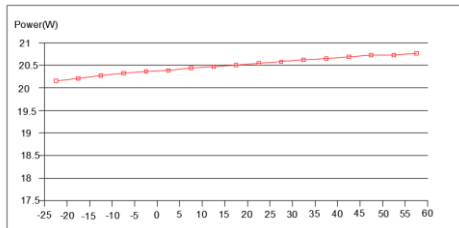
Illuminance



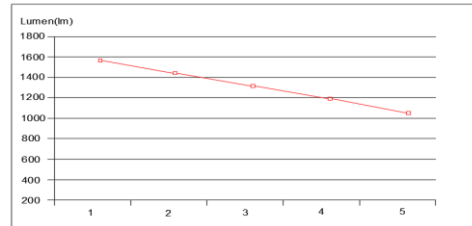


Figures of typical characteristics

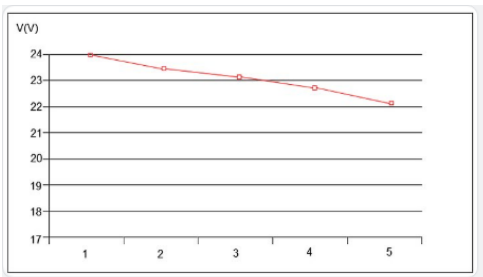
Relation of Working Temperature and Power




Relation of luminous flux and strip length  
(Only suitable for white series)





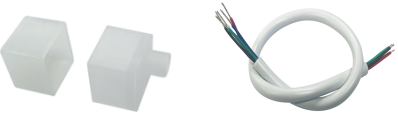
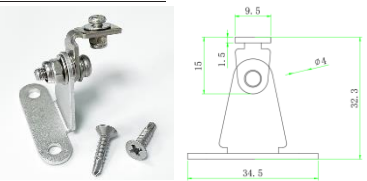
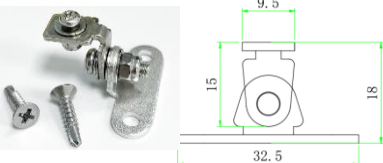
Relation of operating voltage and strip length



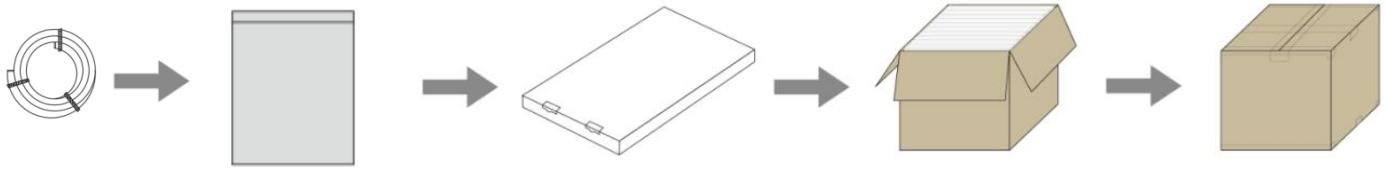
### Standard Accessories

Image	Part No.	Description
	WW-AP2222-0030	Snap *2pcs/M, screw*2pcs/M

### Optional Accessories

Image	Part No.	Description
	WW-AP2222-XXX	Aluminum Profile, 22*22mm
	WW- LG2117-XXX	Steel Profile: 21*16.4mm
	WW-FLS102TF-CW(20mm)-TT2	Cutting accessories set (Front & end cap, power cord)
	WW-AL2735-10	Adjustable angle bracket, (high leg) 27*35*1.5 (one adjustable angle bracket + 2 screws)
	WW-AL1232-10	Adjustable angle bracket (short foot) 12*32*1.5. (one adjustable angle bracket + 2 screws)

**Packaging Diagram**



**Packaging Information**

Ingress protection rating	Bag size	Inner carton		Outer carton		N.W	G.W	Outer carton volume
		Size	Reel/ctn	Size	Reel/ctn			
IP65	500*700*0.1mm	/	1	460*450*28mm	10	19.2KG ±10%	23.97KG ±10%	0.068M <sup>3</sup>
	19.68*27.55*0.0039in	/	1	18.11*17.7 *1.102 in	10	42.32 Lbs ±10%	52.84Lbs ±10%	2.383ft <sup>3</sup>

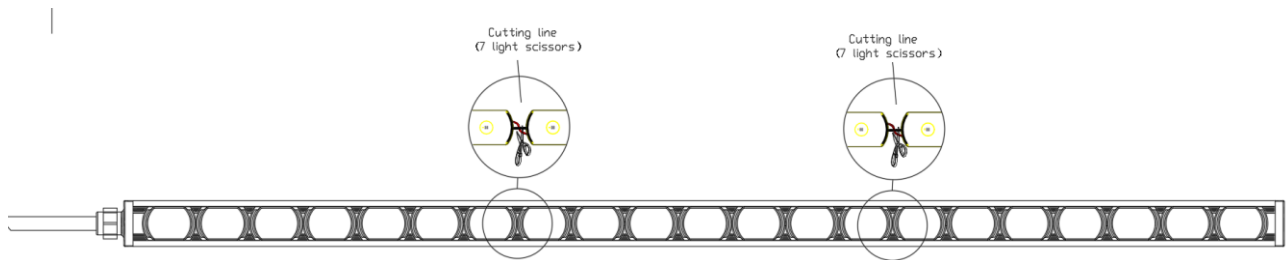
**Remarks :**

- Please contact our sales manager for customized package (color box, blister etc.)

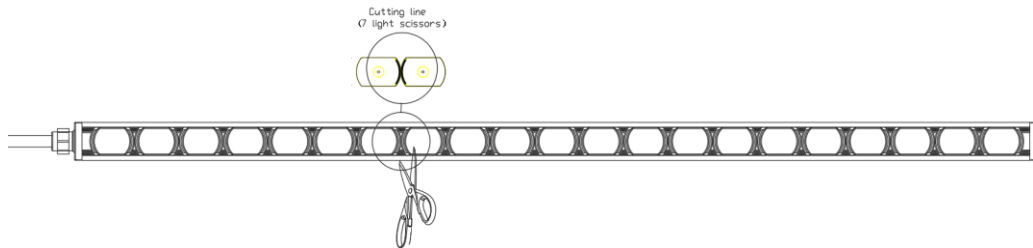
## Cutting Instruction

- The Cutting position PCB as a reference,
- Please follow the cutting guidance as below:

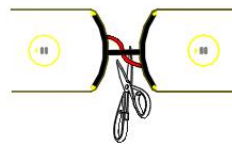
Step 1: Locate the cut position from the transparent side (the two black lines on the two PCBs indicate the cut position)



Step 2: Observe the cut line on the PCB" and cut the silicone sleeve along the cut line.



Step 3: Observe the cut lines on the board, cut in the middle of the two lines and protect the cut connections from being shorted (Note: There are two connection lines at this location on the back of the board, one black and one red.)



Step 4: After cutting, please use adhesive head and tail to make waterproof treatment, Viscose head and tail model WW-FLS102TF-CW(20mm)-TT2

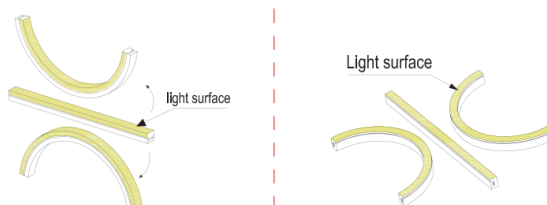


## Installation Guidance

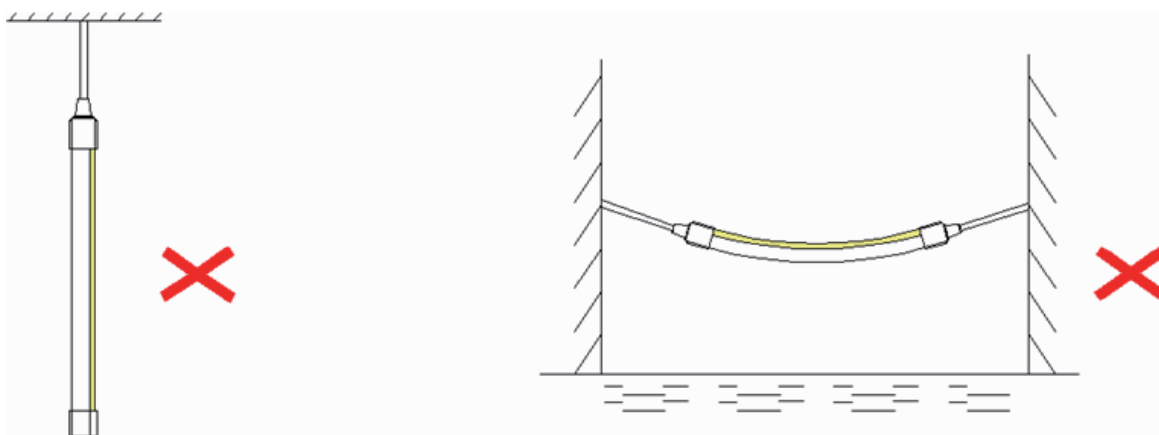
1. Do not bend smaller than allowed minimum bending diameter



The correct bending direction  
Bending radius  $\geq 100\text{mm}$



2. Do not hang or suspend the Neon strip in the air.













3、 Press the neon flex into mounted aluminum profile in one direction (Angle between strip and aluminum <math>< 15^\circ</math> degrees).

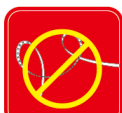


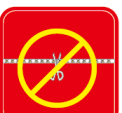














4、 Incorrect installation like below pictures could lead to product function failure.



 **Cautions**

IP20	IP54	IP65	IP67	IP68
 Do not press the surface of LED	 Pay attention to high temperature environment	 Do not use in strong water waves environment	 Resist strong water waves impact	 Can apply to underwater do not deeper than 1m
 Pay attention to damp-proof and dustproof	 Do not apply to rainy environment	 Can be applied to rainy environment	 Do not apply to underwater environment for a long time	 No direct sunlight

 Do not tie a knot	 Do not winding	 Do not twist	 Do not cut when it is working	 Recommended the continuous working time do not exceed 12 hours daily	 Operating temperature	 Storage temperature	 Operated by professionals
 Pay attention to the application environment	 IP Level will change after cutting	 Do not pull and crash	 Connected to power supply every 5 meters	 Power supply must be connected to ground(GND)	 The minimum bending diameter > 130mm	 Power supply retain > 20%	 Note the positive and negative poles



For cutting LED strip operation, it is necessary to use the standard accessories provided by Dilux (e.g. DC wire, end-cap, front-cap, adhesive, etc.), and according to the correct cutting and connecting method for the installation.



For avoiding LED get vulcanized, LED strip should be installed in the environment where does not has oil and corrosive substances. Such as these substances which contain Sulphur, Bromine, Iodine and Chlorine. Some other chemical elements which will cause Aromatic hydrocarbons releasing(such as: methylbenzene, xylene, methyl acetoacetate Ethyl acetate etc.).The environment in which includes strong acid and strong base.



During the warranty period, only defective products are acceptable to be replaced by the factory. Factory is not responsible for other expenses because of replacement, such as transportation fee, installation fee, etc..

**\*\* If you do not follow the above "Cautions" to operate and result in damaging the product, the factory will not accept maintenance and return.  
\*\*The right of final interpretation is owned by Dilux.**