EI Lighting Co., Ltd.

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Lighting Tomorrow

EI Lighting Co., Ltd.

GREETINGS

Lighting Tomorrow

EI Lighting Co., Ltd. has been established to offer a complete solution that meets global needs for high-efficiency and eco-friendly lighting sources, on the basis its lighting system and special illumination design technologies and luminous source design and generating solutions, with a goal to become a leader in developing next-generation lighting sources.

HISTORY

2011
- 06 Designated as a "Promising Export Firm" (Small & Medium Business Administration (SMBA))
- 04 Designated as a "INNOBIZ" (SMBA)
- 03 Obtained "PSE" Cert. (an electronic stabilizer for fluorescent lamps)

2010
- 12 Met its export target of $2 mil.
- 11 Participated in "International Electronic Fair 2010 " in Shanghai
- 03 Mass-produced LCD BLU (for game consoles)

2009
- 10 Participated in "Lighting Fair 2009" in Hong Kong
- 09 Obtained CE Cert. (EEFL Inverter)
- 07 Obtained "Best Product" Cert. for EEFL (SMBA)
- 06 Became the first to supply LED fluorescent lamps to public institutions (Environmental Corporation of Incheon)
- 05 MOU with Feelux about HCFL supply
- 03 Obtained KC mark (EEFL Inverter)
- 02 Participated in "Sign & Graphic exhibition 2009" in Dubai

2008
- 12 Obtained "NET Mark" (for a technology to produce a large-diameter EEFL) (Ministry of Knowledge Economy)
- 02 Established a lighting tech institute
  Designated as a "Specialized Component & Material Maker"
- 01 Designated as a "Venture Business"

2007
- 12 Obtained ISO 9001 and 14001
- 09 Began to mas-produce a large-diameter EEFL
- 02 Established EI Lighting Inc.

CERTIFICATES

Certificates for the company


Venture Company Cert.


R&D Center Cert.


Factory Registration Cert.


Environmental Management System Cert.
ISO 14001:2004


Quality Management System Cert.
ISO 9001:2009


INNO-BIZ


Promising Export Firm Cert.

Certificates for products


New Technology Cert.


Electrical Supplies Reliability Cert.


CE-LVD


CE-EMC


Small Business Performance Cert.


PSE

Intellectual property rights


Patents


Patents


Trademark Registration


Patents


Patents


Patents

Equipment

System for reliability test
- Constant Temperature & humidity chambers-2

Lighting test units
- Integrating spheres

Optical test units
- Colorimeter, Illuminometer, Oscilloscope

EEFL manufacture equipment

EEFL aging equipment

Production lines

BLU production line
- Cleanroom

BLU production line
- Cleanroom

BLU production line
- Cleanroom

LED LAMP production line

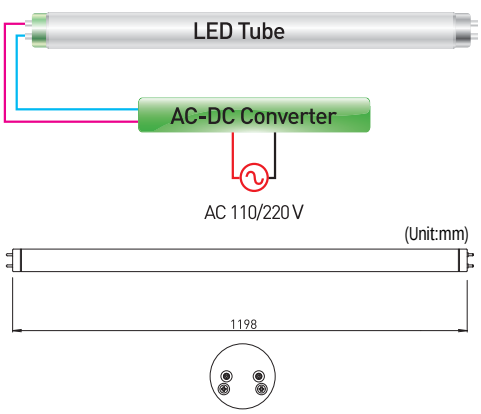
LED LAMP production line

LED TUBE

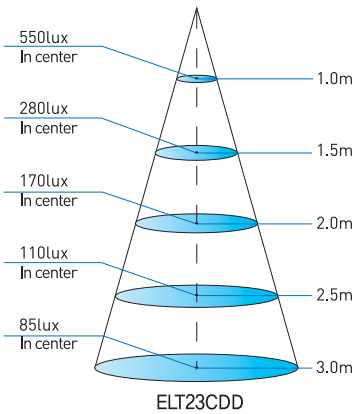
Items	1,198mm, 23W				580mm, 11.5W			
	ELT23CDD	ELT23CDC	ELT23CWD	ELT23CWC	ELT12CDD	ELT12CDC	ELT12CWD	ELT12CWC
Power	23W				11.5W	11.5W	12W	12W
Input	DC 570mA, 40V				DC 350mA, 34V			
Type	Diffuser Cover	Clear Cover	Diffuser Cover	Clear Cover	Diffuser Cover	Clear Cover	Diffuser Cover	Clear Cover
Flux	2,200 lm	2,405 lm	2,022 lm	2,246 lm	1,116 lm	1,201 lm	1,091 lm	1,163 lm
Efficiency	95 lm/W	112 lm/W	87 lm/W	96 lm/W	97 lm/W	104 lm/W	91 lm/W	97 lm/W
Color Rendering	75 Ra	75 Ra	75 Ra	75 Ra	75 Ra	75 Ra	75 Ra	75 Ra
Illuminance @1m	550 lx	604 lx	428 lx	580 lx	311 lx	401 lx	310 lx	397 lx
Lifetime	50,000 hour							
Color Temp.	Cool White(5,500 K)		Warm White(3,000 K)		Cool White(5,500 K)		Warm White(3,000 K)	
Direction Angle	150°							
Base Type	G13							
Dimension	1,198mm(4Ft.) / 25.6 Ø				580mm (2Ft.)/ 25.6 Ø			
Weight	360g				175g			
Temp. Range	Operation : -10 ~ 40°C / Storage -20 ~ 70°C							

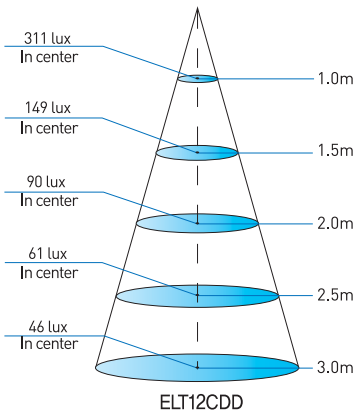
Connection Diagram

AC-DC Converter type



Illuminance per distance

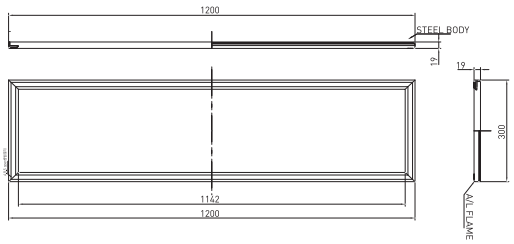




LED PANEL LAMP

Model	CCT(K)	Power(W)	Flux(lm)	Efficiency (lm/W)	Illuminance (lux@1m)	CRI	Power Factor
ELF50AWD	3,000	50	3,900	78	1,410	75 Ra	Over 0.95
ELF50ADD	5,800	50	4,000	80	1,500	75 Ra	Over 0.95
ELF45AWD	3,000	45	4,140	92	1,510	85 Ra	Over 0.95
ELF45ADD	5,800	45	4,275	95	1,610	85 Ra	Over 0.95

(Unit:mm)

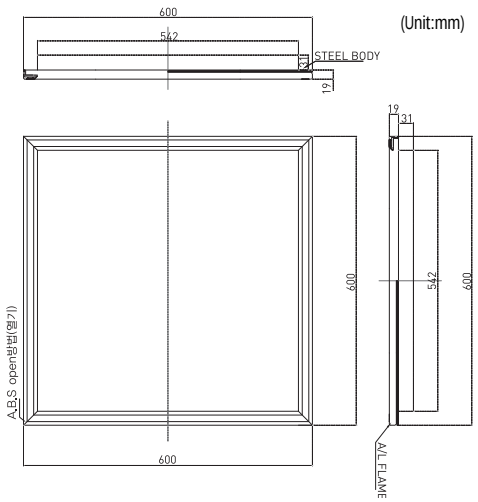


- Input Voltage : AC 90~240V, 50/60Hz
- Size 1200x300
- Operating Temp. : -20 ~ +50℃

Model	CCT(K)	Power(W)	Flux(lm)	Efficiency (lm/W)	Illuminance (lux@1m)	CRI	Power Factor
ELF50AWR	3,000	50	3,900	78	1,460	75 Ra	Over 0.95
ELF50ADR	5,800	50	4,000	80	1,550	75 Ra	Over 0.95
ELF45AWR	3,000	45	4,140	92	1,540	85 Ra	Over 0.95
ELF45ADR	5,800	45	4,275	95	1,640	85 Ra	Over 0.95

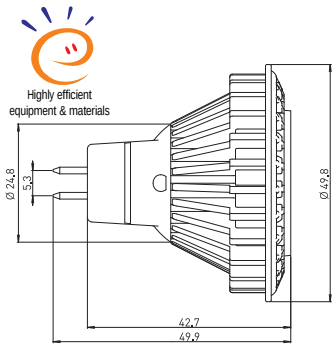
- Input Voltage : AC 90~240V, 50/60Hz
- Size : 600 x 600mm
- Operating Temp. : -20 ~ +50℃

(Unit:mm)



LED MR16 | LED BULB

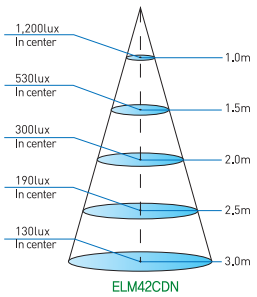
LED MR16



- Exterior: Hight 57mm, Width 50mm
- Weight: 40g
- Life cycle: 50,000 hours
- Components: White LED: High-brightness Power LED; Body : Aluminum and plastic material
- Uses: Display lighting for department stores and shops; Direct or indirect indoor lighting; Lighting for studios, theater, and other interior settings

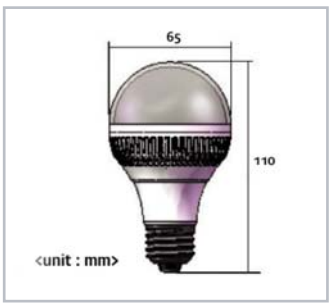
Model	Power (W)	Direction Angle(°)	CCT (K)	Flux (lm)	Efficiency (lm/W)	Illuminance (lux@1m)	CRI
ELM42CWS	4.2	14	3,000	220	52	1,300	80
ELM42CDS			5,500	230	55	1,500	70
ELM42CWN		20	3,000	220	52	1,100	80
ELM42CDN			5,500	230	55	1,300	70
ELM42CWM		28	3,000	220	52	850	80
ELM42CDM			5,500	230	55	1,000	70
ELM42CWH		40	3,000	220	52	500	80
ELM42CDH			5,500	230	55	600	70

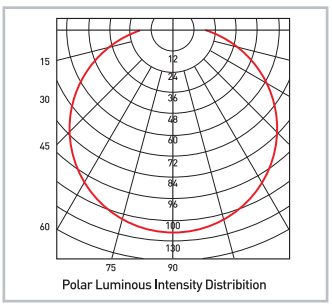
- Input Voltage : AC /DC 12V
- Base : GU5.3
- Operating Temp : -20~+50°C



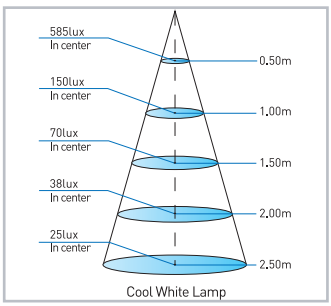
ELM42CDN

LED Bulb





Polar Luminous Intensity Distribition



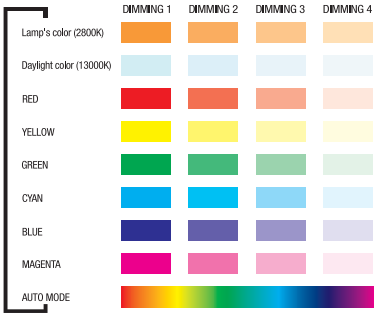
Cool White Lamp

Model	CCT(K)	Direction Angle (deg)	Power(W)	Flux(lm)	Efficiency (lm/W)	Illuminance (lux@1m)	CRI	Power Factor
ELB07AWD	2,800	135	7	450	64	130	75 Ra	Over 0.90
ELB07AND	5,000			505	72	145	70 Ra	
ELB07ADD	5,700			555	79	150	75 Ra	

- Input Voltage : AC 100/220V 50/60Hz
- Base : E26, E27
- Operating Temp : -20~+50℃

고효율기자재

BLACK TOUCH WINE



- Various colors and a simple design with a touch type LED stand
- Color mode simply changed by a touch
- Auto mode naturally changing the color producing a beautiful mood
- Adjustment of illuminance available for each color mode
- Built-in lithium ion batteries allowing an average of 15 hours of lighting
- Outstanding duration represented by a life cycle of above 50,000 hours
- No UV-ray emission and free of fluorescent substance
- No glass material so not vulnerable or easily broken

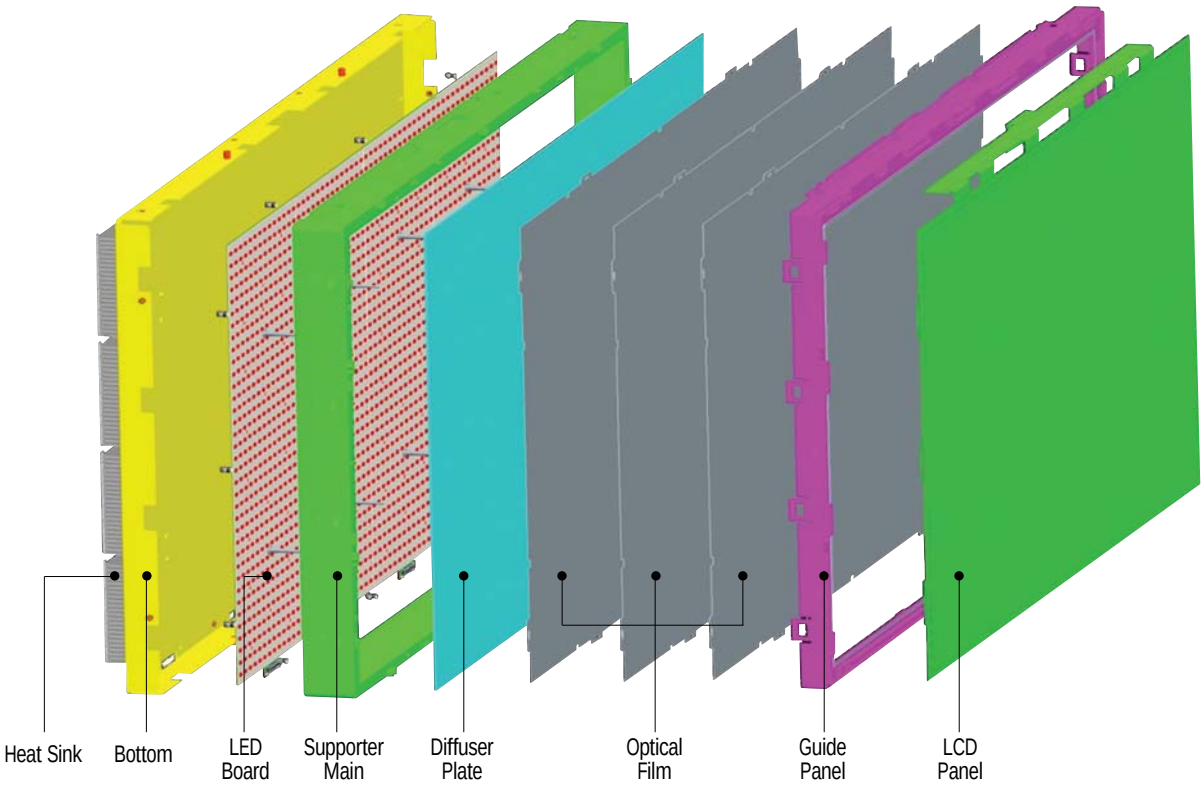
Li-Ion **15 hours on average**

Power supply	AC 100~240V , 50/60Hz (adapter-4.2V, 1A)
Running hours	15 hr./a recharge
Power consumption	Max 4W
Exterior	106(W) X 106(D) X 262(H)(mm), Max 450g
Color change	8 color (RGB, CMY, White 2800K, White 13000K) + Auto
Dimming	4 Step (Each Color) (Auto mode exemption)
Operation type	Touch Button × 3 (On/Off, Mode Change, Dimming(1~4)

LCD BLU

We develop and produce customer-optimized BLU used for industrial LCD. We have a specialized design and mass-production system for BLU which is customized to those various sizes of LCD, including a high-brightness BLU for 3D, DID, game consoles, or a special size, or BLU for medical or military use.

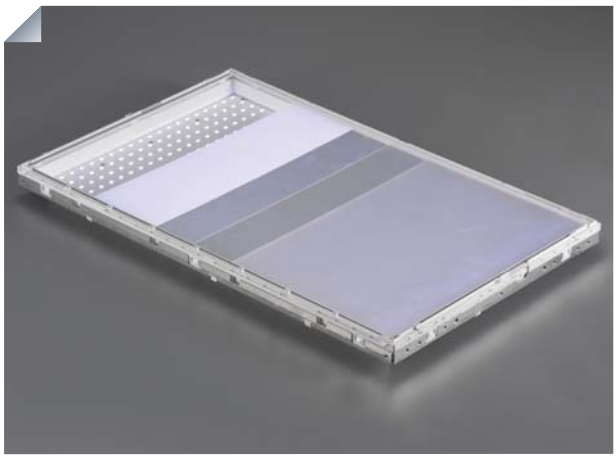
Structure of LCD



BLU production line

BLU assembly line

BLU testing line



LED of direct type

Models available

For DID, touch screens
(40", 42", 46", 47")

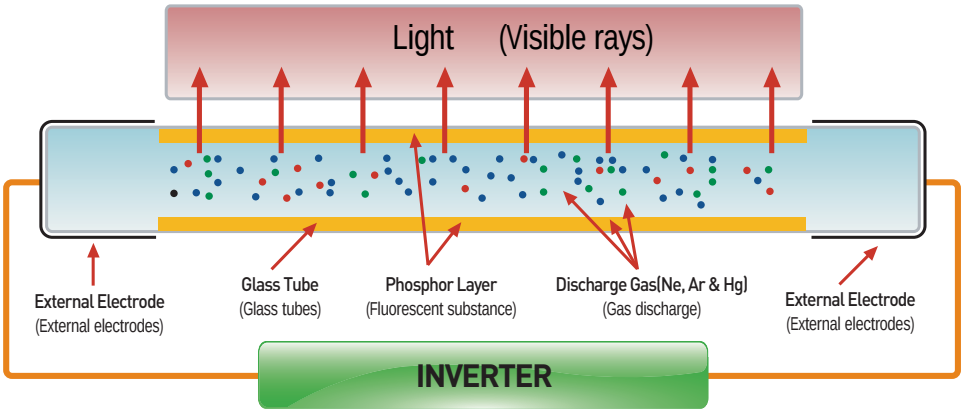
Medical use
(14", 15", 17")

3D display
(12", 21", 36")

Military use, two sided, special sizes
(6.2", 7", 17")

Description of EEFL

Principles of HF-EEFL



EEFL - External Electrode Fluorescent Lamps

Advantages of HF-EEFL

Long life

50,000 hours on average

50,000 hours (up to 50% of the initial luminous flux) / 30,000 hours (up to 70% of the initial luminous flux)
Use of 10 hrs/day guarantees a life span of 13 years or longer, i.e., 5 - 10 times longer life than fluorescent lamps
Note Life cycle of a fluorescent lamp: 5,000~10,000 hrs.

Low Power Consumption

Energy saving

Power consumption more than 30% lower than fluorescent lamps
Ex For a sign, common fluorescent lamps require 360W, but EEFL, only 240W

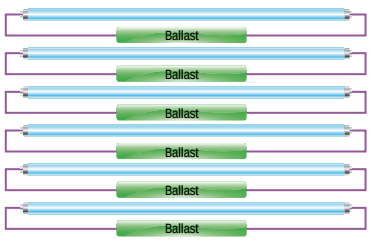
Environmentally -friendly

Minimum by-products of hazardous substance or wastes

Lowest level of mercury content and long life lead to minimal production of wastes
Complying with environmental regulations such as RoHS

Structure of the light panel

Architecture of EEFL lighting
It consumes one inverter for lighting regardless of the number of lamps.

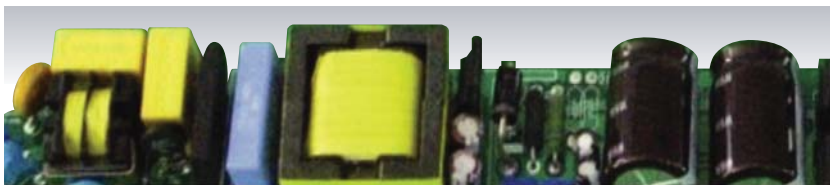


Architecture of fluorescent lighting
Each lamp needs exclusive ballast.

Model	Type	Diameter (mm)	Length (mm)	Lighting Area (mm)	Power (W)	Color Temp. (K)	Lighting Flux (lm)	Brightness (cd/m²)
EDE025DC116B	T5	15.7	1,164	1,164	25	6,500	1,800	10,000
EDE020DC116B					20		1,440	8,000
EDE012CB115S	T4	12.6	1,150	1,080	12	8,000	870	6,500
EDE010CB115S					10		725	5,400

Inverter

CE

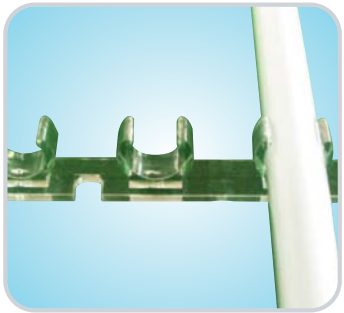


- Power Input — AC 110/220V, 50/60Hz
- Power Consumption — Max 120W
- Application Lamp — T5 - 4 pcs
  T4 - 10 pcs
- Protection — Over Current(Short Circuit), Overload, Surge

Accessories

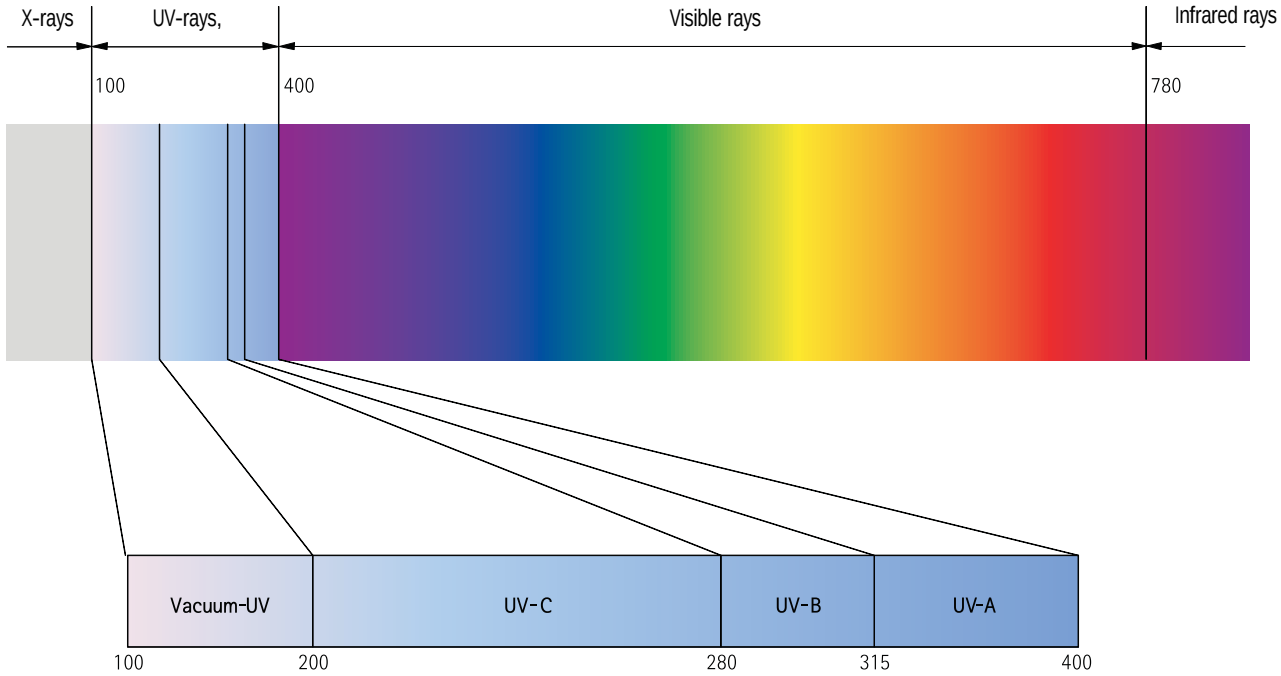
Socket

Jumper Cable



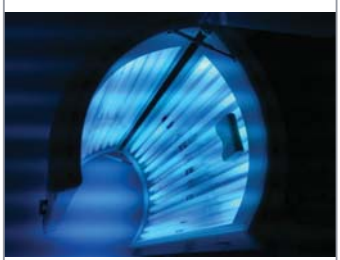
Lamp Guide

Description of UV LAMP



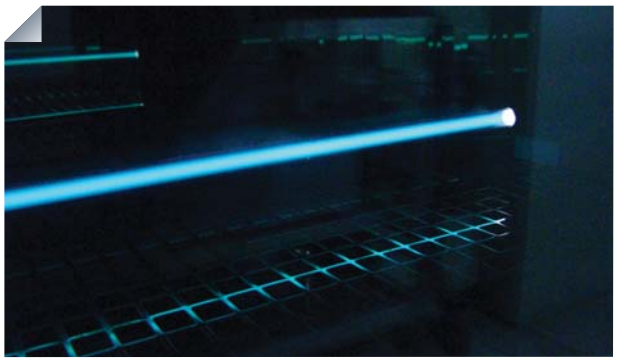
What is UV(Ultraviolet)?

- It refers to electromagnetic waves that are just shorter than those of violet light in the spectrum and that cannot be seen.
- Based on the wavelength, divided into long-wavelength (UV-A), medium-wavelength (UV-B), and short-wavelength (UV-C) type
- UV-rays generated by the sun may mostly be shut off by the ozone layer surrounding the earth, whereas some part of the long or midium-wavelength UV-rays can penetrate through the atmosphere to reach the earth surface.
- Since UV-rays have shorter wavelength and stronger energy than visible rays, they can raise various types of chemical and sterilizing

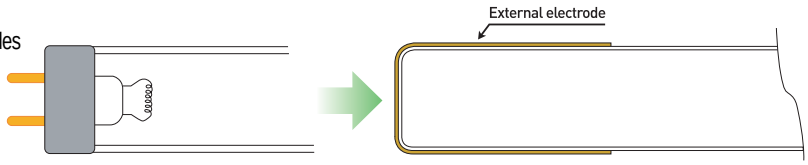
Types	UV-A	UV-B	UV-C
Wavelength(nm)	315~400	280~315	200~280
	For use in the textile industry, distinguishing counterfeits, special lighting, etc.	For cosmetic sun-tan, treatment of a skin disease and other medical uses	For sterilizing air, water, etc.
Purpose of use			
	Counterfeit detectors	Sun-tan systems	Cup sterilizers

UV LAMP

The ultra long lifespan UV lamps for sterilization

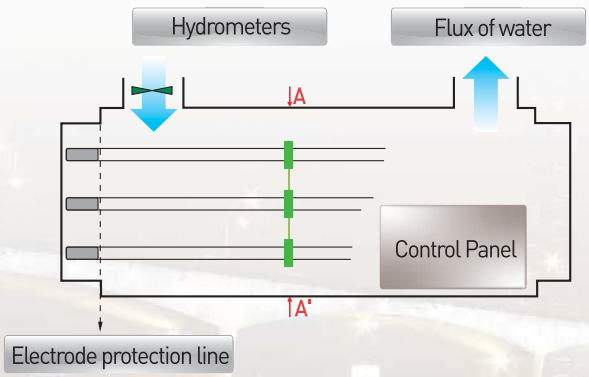


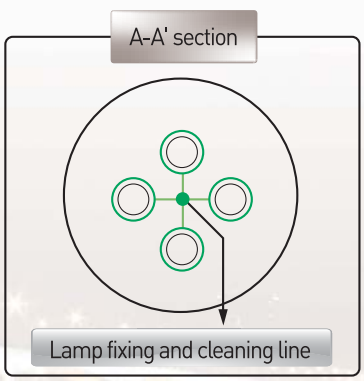
- No deterioration of life from degradation on the part of electrodes
- Life cycle 4 times longer than other UV lamps
- Applications: For treatment of water and waste water, water purifiers, cup sterilizers, etc.



Type	Diameter (mm)	Length (mm)	Power (W)	Output Power (W)	Lifetime (Hr)
EDU100CC100S	15	1,000	100	30	30,000

Water treatment unit





- The lamp output can be adjusted to the influx of water or waste water
- Operational efficiencies of water treatment systems are maximized

Division	Power(W)	Capacity(ton/day)	Dimming
Unit	100	200	20 ~ 100%