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# Flexible LED desk lamp

High Brilliant LED make you feel gleaming with the natural light.

LTK-1600wide ▶

## Free moving LED module

Since the luminous source of 4 pieces, not a whole fixed type, gets moved separately, user can shed light the luminous source to the part where he wants.

## Easy angle adjustment

Use of the Flexible Spring Tube helped to move up & down, left & right easily so that use can control the height, angle etc freely meeting the user' environment.



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# Primary Features



## [Strong Points of LTK-1600Wide]

- Environment-friendly / Eyesight Protection Product
- Minimized Electricity Consumption  
/ Increased Product Life Span
- **Equipped with High Brightness LED of Seoul Semiconductor**
- **2 Pieces of Flexible Spring Tube**
- Freestyle Head/ A Head Filter for Dazzling Prevention
- Easy Transformation/bound for LED Module
- **Dimming Function/Touch Sensor**
- Compact Sized Gift Box



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# Environment Friendly Eye Protection



- \* **A pollution-free environment-friendly luminous source product**
  - Based on functions, not included mercury which is used for fluorescent product, and longer use time to help reduce environmental wastes.
- \* **Using DC electric power, protect your eye sight.**
  - No Lights Blinking



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# Power Consumption & Life Span



- \*6 times cheaper electric cost than the fluorescent bulb
- \*6 times longer life span than fluorescent bulb(Semi-permanent)

	Incandescent Bulb	Fluorescent	Fluorescent of the Bulb Type	LED
Brightness	General Bright	Normal Bright	Very Bright	Very Bright
Consumption (1,000LM/ 1Hour) <small>*Based on Korean Rate</small>	100W (4 Cent)	40W (1 Cent)	20W (0.5 Cent)	Below 5W (0.1 Cent)
Life Span (5Hours a Day)	1,000 Hours	4,000~ 5,000 Hours	Below 5,000 Hours	From 30,000 To 50,000 Hours



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# Equipped with High Brightness LED



- \* Using Metal PCB and High Brightness SMD Type LED Chip (Seoul Semiconductor LED chip)
  - More Bright, Wider Illuminating Angle
  - LED Quality Assurance due to Excellent Protection against heat



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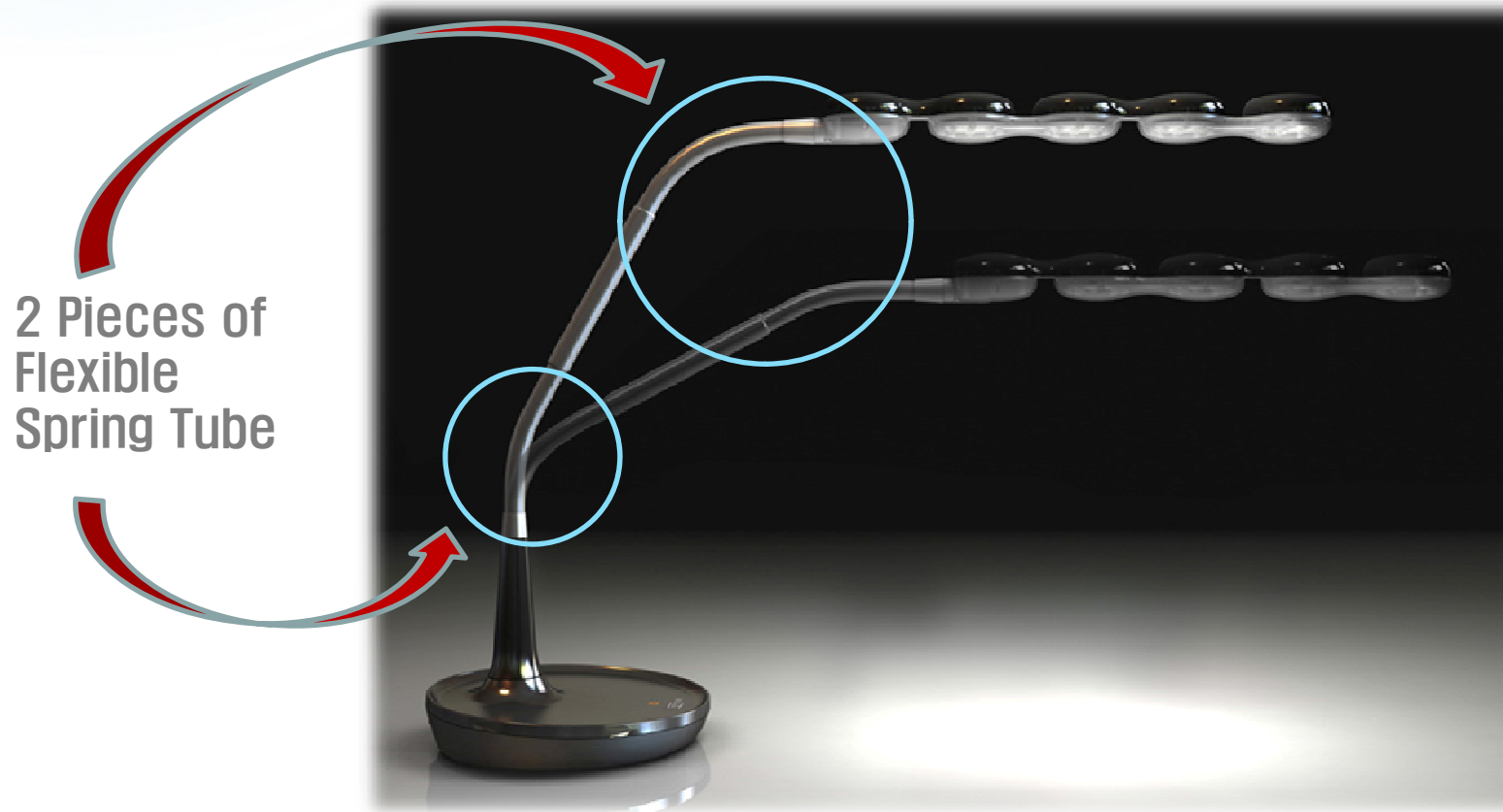
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## 2 Pieces of Spring Tube



New Design for the Users' Convenience.

Using **2 Pieces of Flexible Spring Tube**,  
Easy for adjusting the height and angle of  
Lamp head.



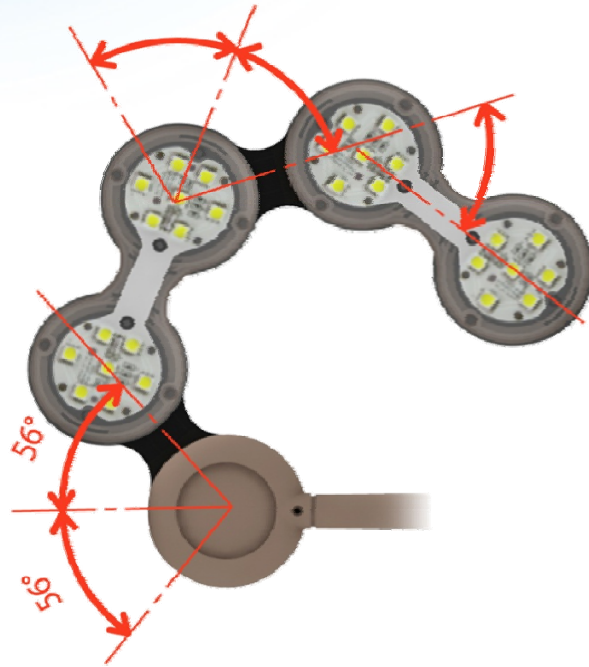
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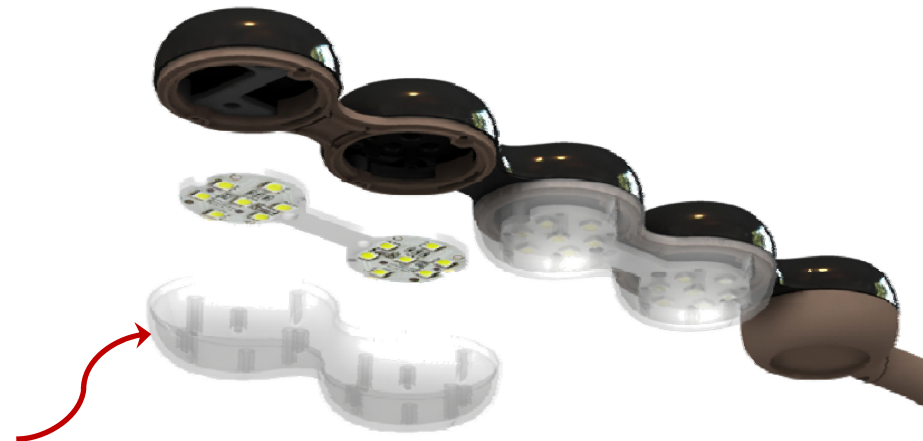
# Easy Transformation Bound for LED Module



\* Since the luminous source of 4 pieces, not a whole fixed type, gets moved separately, user can shed light the luminous source to the part where you want.(Patent application)



Equipped **Metal PCB** with  
**Dazzling Protection Cover.**



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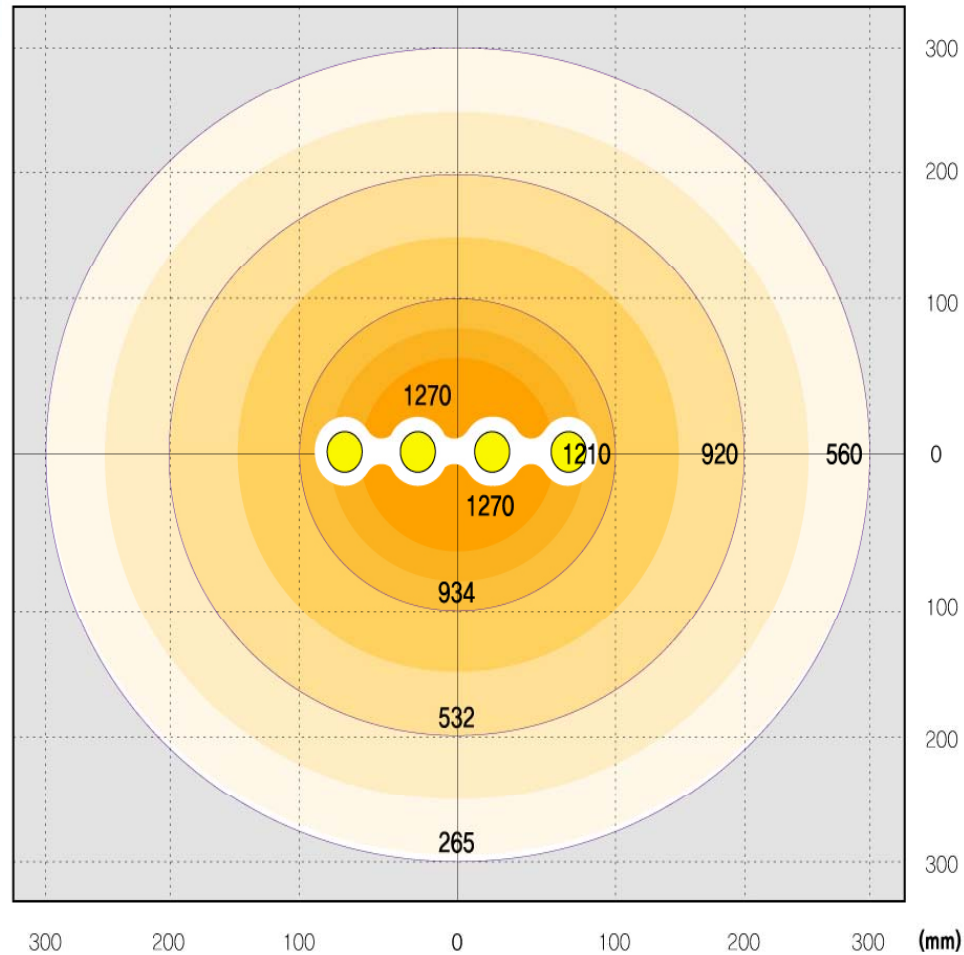
# Illumination Distribution Chart



## \* LTK-1600 Wide Illumination Distribution Chart

측정높이: 35cm(서울반도체)

- Inside Digit : Brightness / Lux
- Outside Digit : Distance / mm



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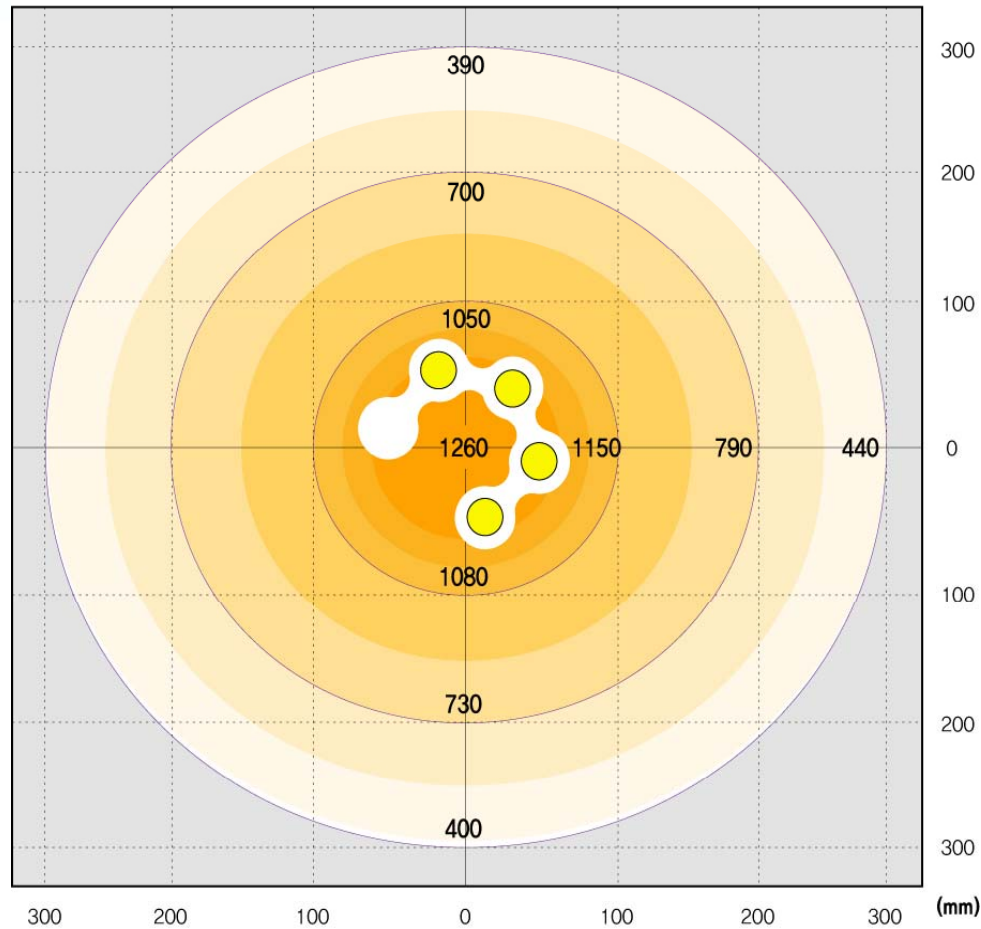
# Illumination Distribution Chart



## \* LTK-1600 Wide Illumination Distribution Chart

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# Dimming Function & Touch Sensor



- \* Equipped with a **DIMMING function** which is available to control **3 steps brightness(Off-1-2-3)**.
- \* **PWM(Pulse Width Modulation) Touch System**  
: LED Lifetime Extension and Increased Reliability of the Touch Switch.



OFF



ON



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# Packing – Gift Box



## \*Compact Sized Gift Box

\* W \* D \* H 200 \* 200 \* 390 mm



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# Packing – Carton Box



\* W \* D \* H 200 \* 200 \* 390 mm





416

414





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“주소창에 **주식(D) 엔프렌** 만 치세요”





Flexible

엔프렌 **LED** desk lamp

Product	LED Desk Lamp	
Brand	Enfren	
Model Name	LTK-1500K	Black <input type="radio"/> White <input type="radio"/>
	LTK-1600	Black <input type="radio"/> Pink <input type="radio"/>
	EF-200	Black <input type="radio"/> White <input type="radio"/>
	GF-100	White <input type="radio"/> Orange <input type="radio"/> Violet <input type="radio"/>
Q'ty	4EA / Carton	
C/T No.	/	

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# Color Variation



**Black + Chrome Combination**



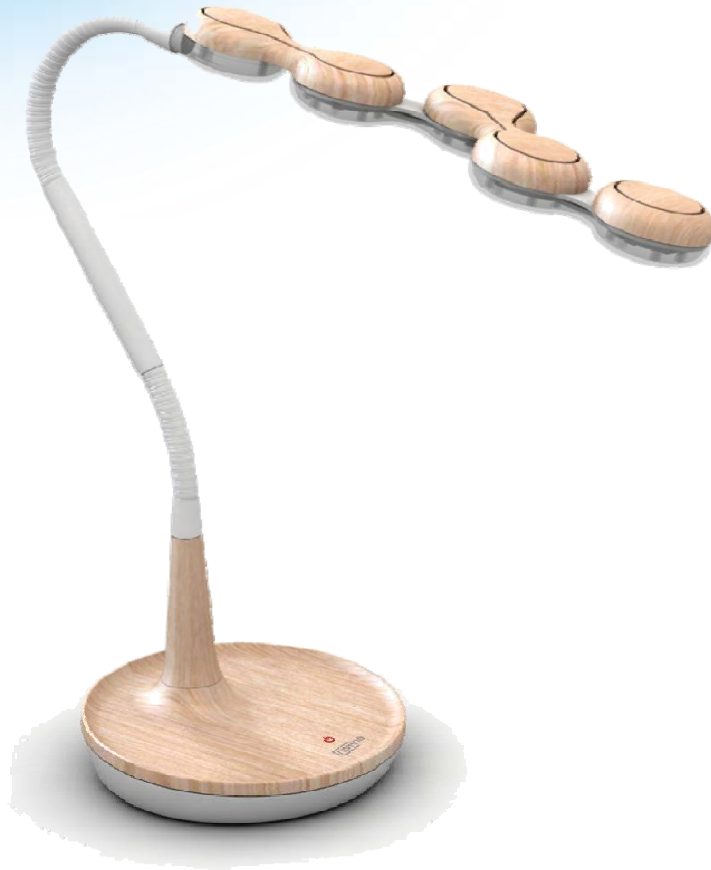
**White + Pink Combination**



# Color Variation



## Wood



Or  
Requested  
Color

**\* If you have a special color, MOQ 500pcs / color**



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# CE Certification / RoHS



**Declaration of EU RoHS Compliance**

**The EU Directive(s) covered by this Declaration**  
 2002/95/EEC on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

**Product Name: LED Desk Lamp**  
**Model Number(s): LTK-1600 Wide**

**Supplementary Information**  
 The basis on which Conformity is being Declared and the Products hereunder complies with the requirements of RoHS Directive 2002/95/EEC.

**Notes:**

- According to RoHS Directive, a maximum concentration value up to 0.1% by weight in homogeneous materials of electrical and electronic equipment for lead(Pb), mercury(Hg), hexavalent chromium(Cr<sup>6+</sup>), polybrominated biphenyls(PBBs) and polybrominated diphenyl ether(PBDEs), and up to 0.01% by weight in specific materials for cadmium(Cd) shall be observed.
- The above products have been compliant since product inception. No changes have been made in process or materials. All products sold under the above P/N numbers currently and to future are & will be fully compliant with EU Directive 2002/95/EC.



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**Seog Jin Kim**  
 CEO

**ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT**



Product Service

**Attestation of Compliance**  
 No. EBN 10 11 70812 002

**Holder of Certificate:** ENFREN Co., Ltd.  
 #103-1210, Busheon Techno Park,  
 Sangyeong 3rd, 36-1, Sangyeong-Dong,  
 Gyeong-Gu  
 Busheon-City, Gyeonggi-Do 421-742  
 REPUBLIC OF KOREA

**Name of Object:** LED lamps  
 LED Desk Lamp

**Model(s):** EF-200, LTK-1600 and LTK-1600Wide

**Description of Object:**

Rated input voltage:	(100-240) V a.c.
Rated frequency:	50/60 Hz

**Tested according to:**

EN 55015:01:2007
EN 61547:A1:2000
EN 61000-3-2:2006
EN 61000-3-3:02:2006

This Attestation of Compliance is issued according to the Directive 2004/108/EC relating to electromagnetic compatibility on a voluntary basis. It confirms that the tested apparatus complies with all essential requirements of the EMC directive and applies only to the sample and its technical documentation submitted to TÜV SÜD Product Service GmbH for testing and certification. See also notes overleaf.

**Test report no.:** SE10NR-001

Date: 2010-11-05



( Kang-Min Rhee )



**CE** After preparation of the necessary technical documentation as well as the EC conformity declaration the required CE marking can be affixed on the product. Other relevant directives have to be observed.

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TÜV SÜD Product Service GmbH - Zertifikatsstelle - Feldstraße 61 - 80333 München - Germany TUV®



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# Specification



Item	Specification
Light Source	High Brilliant White SMD LED Chip (Seoul Semiconductor LED chip 6pcs LED for each Module – Total 24 pcs LED)
Brightness / Angle	7,000 mcd (1,200 Lux /35cm from the LED Bulb) / 180 °
Control Brightness	Dimming Controller [OFF 0.3W – Level 1 2W – Level 2 3W – Level3 5.5W]
The source of electric power	AC-DC Switching Adaptor (Input:AC100~240V 50/60Hz, Output: DC 12V / 1A)
Electric Consumption	Max 5W
Product Size & Weight	Base Ø 17 * Height 400mm * Width 450mm / Weight 1.58kg
Packing Quantity	20'FT DRY : 1,500 pcs
Package	LED Desk Lamp , User Manual , AC Adaptor (1.7m)



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