

INSTALLATION MANUAL

Color Dome Camera

Please read this manual carefully before operating your set and retain it for future reference.

MODELS LCD3100-DN / LCD3100-DP



Important Safety Instructions

- Keep these instructions
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water. Clean only with dry cloth.
- 7. Do not block any ventilation openings. Install in accordance with the manufacturer's
- 1. Do flot those any contention instructions.
 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Obsobele dutiet.

 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience recepitades, and the point where they exit from the apparatus.

 11. Only use attachments/accessories specified by the manufacturer.
- 12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus 1 combination to avoid injury from tip-over.
- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.

 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or oisture, does not operate normally, or has been dropped.

Disposal of your old appliance

1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.

2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.

3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.

4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

EEE Compliance with Directive, (for Turkey only)

LG Electronics hereby declares that this/these product(s) is/are in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC, 2006/95/EC. European Standards Centre: Krijgsman 1, 1465 DM Amstelveen The Netherlands ϵ

기기는 업무용(A급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며, 가정외의 지역에서 사용하는 것을 목적으로 합니다.

REFER SERVICING TO QUALIFIED SERVICE PE This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



CAUTION

constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm. Wash hands after handling.

FCC WARNING:This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

REGULATORY INFORMATION: FCC Part 15

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules, These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

A suitable recordulit active, knockouts or clageds shall be provided in the cable actives of this

- A suitable conduit entries, knock-outs or glands shall be provided in the cable entries of this product in the end user.
- product in the end user.

 Caution: Danger of explosion if battery is incorrectly replaced. Replaced only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

 Holes in metal, through which insulated wires pass, shall have smooth well rounded surfaces or shall be provided with brushings.

This Class A digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

Lote appareil numerique de la classe A est contorme à la norme NMB-UUS du Canada.

Warning: Do not install this equipment in a confined space such as a bockase or similar unit.

Warning: Wiring methods shall be in accordance with the National Electric Code. ANSI/NEPA 70.

Warning: This is a class A product, in a domestic environment this product may causer radio
interference in which case the user may be required to take adequate measures.

Warning: To reduce a risk of fire or electric shock, do not expose this product to rain or moisture,
Warning: The product has been dropped or the case is broken, turn off the power and unplug the
power cord. (This may cause fire, electric shock, or injury.)

Warning: The product has no video out or sound, please stop using. Unplug the power cable
immediately and contact the service center, (This may cause fire or electric shock,)

Caution: This installation should be made by a qualified service person and should conform to all
local codes.

local codes.

Caution: To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel Caution: To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel Caution: The apparatus shall not be exposed to water (dripping or splashing) and no objects filled with fiquids, such as vases, shall be placed on the apparatus.

Caution: Prevent the power cable from being severely bent or having pressure exerted on it by a heavy object.

To disconnect power from mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.

Power Supply

always be operated a DC 12 V. Certified/Listed Adaptor which comply with LPS.

Handling of the unit

- Handling of the unit

 Be careful not to spill water or other liquids on the unit. Be cautions not to get combustible or metallic material inside the body. If used with foreign matter inside, the camera is liable to fall or to get cause of fire or electric shock.

 Remove dust or dirt on the surface of the lens with a blower.

 Use a dry soft cloth to clean the body. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent then wipe dry.

 Avoid the use of volatile solvents such as thinners, alcohol, benzene and insecticides. They may damage the surface finish and/or impair the operation of the camera. They may damage the surface finish and/or impair the operation of the camera. the surface finish and/or impair the operation of the camera.

Operating and storage location

Avoid viewing a very bright object (such as light fittings) during an extended period. Avoid operating or storing the unit in the following locations.

• Extremely hot or cold places (operating temperature -10 °C to 50 °C, however, we recommend that the unit be used within a temperature range of 0 °C to 45 °C)

• Damp or dust place
• Places exposed to rain
• Places subject to strong vibration
• Close to generators of powerful electromagnetic radiation such as radio or TV transmitters.

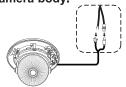
SPECIFIC	CATIONS		
Signal System		NTSC	PAL
Imaging Sensor		6mm 960H Interline Color CCD (Super HAD II)	
Total / Effective Pixels No.			610,000/570,000PIXELS
Horizontal Resolution		650TVL @ Color, 700TVL @ B/W	
Image Signal Processor		XDI-V	
Lens Type		3,6mm	
Minimum Illumination (30IRE)		Color: 0.1 Lux (Sens-up Off),0.001 Lux (Sens-up Auto) 0.0001(Sens-up x512)	
		B / W : 0.1 Lux (Sens-up Off), 0.001 Lux (Sens-up Auto)	
		0.0001(Sens-up x512) Internal	
Sync, System Scanning Frequency (H/V)		15,734 KHz / 59,94 Hz 15,625 KHz / 50 Hz	
S/N Ratio		15.734 KHZ / 59.94 HZ 15.025 KHZ / 50 HZ	
Video Output Signal		1Vp-p (75ົΩ)	
Exposure		ELC	
OSD FUNCTION	Backlight Compensation	OFF / BLC / HSBLC	
	DNR	2D+3D-DNR	
	Day & Night	Digital Day&Night (AUTO / DAY / NIGHT)	
	Auto Gain Control	OFF / LOW / MIDDLE / HIGH	
	E-Shutter Speed	1/50 - 1/120.000	1/60 - 1/120.000
	White Balance	ATW / AUTO /AWC→PUSH / MANUAL	
	Privacy Zone Masking	14 AREAS	
	Motion Detection	8 Regions	
	Digital Effect	OFF/ V-Flip/ Mirror/Rotate	
	Multi OSD Language	Upto 15 Languages	
	Communication	Coaxial Comm	
Power Source		DC12V, 110mA (1.35W)	
Operating Temperature / Humidity		-10°C ~ 50°C / 0% ~ 80%RH	
Storage Temperature / Humidity		-20°C ~ 60°C / 0% ~ 85%RH	
Dimension (Ø x H)		Ø(90+125) X 85 (mm)	
Weight		300g	

INSTALLATION

1 Affix the mounting template(supplied) to the mounting surface.



3 Connect the cables to the cable jacks of the camera body.



〈日本語〉 ケーブルをカメラ本体のケーブル用端子に接続します。

<한국어> 전원 및 영상단자를 연결하세요.

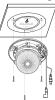
سیم ها را به چک های نگه دارنده آنها بر روی بدنه دوربین متصل کنید. حفارسی>
وصل الکابلات بعقابس الکابلات فی جسم الکامیرا.

حدیی>

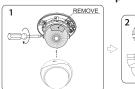
صدح את הכحانا تلاس طورانا مشرطانات علیه مشعاطه.

حدیت/>

2 Install the camera mounting bracket to the ceiling.



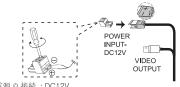
4 Assemble the camera and mounting bracket as illustrated step "1" and "2".





CONNECTION & ADJUSTMENT

1. Power connection - DC12V



 〈日本語〉
 電源の接続: DC12V

 〈한국어〉
 2002절: DC12V

 「これ」
 ごの12V: ごした。

 「した」
 この12V: では、

 「の12V: では、
 では、

 「の12V: では、
 では、

 「の12V: では、
 では、

 「の2D となった」
 では、

2. Camera Adjustment

Connect a portable monitor to the video jack



 〈日本語〉
 ボータブルモニターを映像端子に接続します。

 〈한국어〉
 모니터를 영상단자에 연결하세요.

 とよった。
 と対している。

 との上がった。
 くった。

 ・スピースとは、ではずい時により。
 ペルニースとは、ではずい時以上のよりにはいる。

3. Adjust the Pan/Tilt/Rotate position of the camera.



ROTATING





PANNING

TILTING

4. Focus: The lens is focused far from 1m.



NOTE: We recommend the lens focus as is.

〈日本語〉レンズは1メートル 距離に 焦点を合わせて出庫 されます。 (基本値使用推奨)

<한국어> 렌즈초점: 렌즈는 1m 거리에서 초점을 맞춘 후 출고 됩니다. (기본값 사용 권장) 가ん건: ١፱ ﻟﺘﺰ ﺍﺳﺖ ﮔﻪ ﺑﻪ ﺩﻭﺭ ﺍﺯ 1m ﻣﺌﺮﮐﺮ ﺷﺪﻩ ﺍﺳﺖ. ﻣﺎ ﺗﻮﺻﺒﻪ ﻣﻲ ﮐﺌﻴﻢ ﺗﺮﯨﺮﮐﺮ ﻟﺘﺮ ﺭﺍﺑﻪ ﺣﻐﺎﺭﺳﻲ>

تمرکز: این لنز است که به دور از m متمرکز شده است. ما توصیه می کنیم تمرکز لنز را به حفارسی> عنوان است الترکیز: ترکز الحسة بعیدا عن m1. نوصی الترکیز عسة کما هر واجران: م∪تعدم مرممجتر רחاج مm1. عدا هما الاعداد خصرمجت مرتعد درمایم < سودارم>