



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

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug 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.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, 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 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 moisture, 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 2004/109/EC, 2006/95/EC, European Standards Centre: Krijgsman 1, 1186 DM Amstelveen The Netherlands

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



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.



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 conduit entries, knock-outs or glands shall be provided in the cable entries of this 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.

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

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

Warning: This is a class A product. In a domestic environment this product may cause 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: If 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.

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 liquids, 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.

Power Supply

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

Handling of the unit

Be careful not to spill water or other liquids on the unit. Be cautious not to get combustible or metallic material inside the body. If used with foreign matter inside, the camera is liable to fail 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.

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.

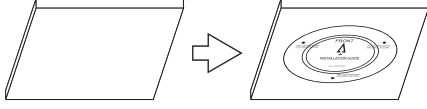
- Extremely hot or cold places (operating temperature -10 °C to 50 °C, however, we recommend that the unit be used within a temperature range of 0 °C to 45 °C)
- Damp or dust place
- Places exposed to rain
- Places subject to strong vibration
- Close to generators of powerful electromagnetic radiation such as radio or TV transmitters.

SPECIFICATIONS

Signal System	NTSC	PAL
Total / Effective Pixels No.	520,000/480,000PIXELS	610,000/570,000PIXELS
Imaging Sensor	6mm 960H Interline Color CCD (Super HAD II)	
Horizontal Resolution	650TVL @ Color, 700TVL @ B/W	
Image Signal Processor	XDLV	
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)	
Sync. System	Internal	
Scanning Frequency (H/V)	15,734 KHz / 59.94 Hz	15,625 KHz / 50 Hz
S/N Ratio	50dB	
Video Output Signal	1Vp-p (75Ω)	
Exposure	ELC	
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	
OSD	14 AREAS	
FUNCTION	Privacy Zone Masking	
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	305g	

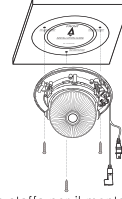
INSTALLATION

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



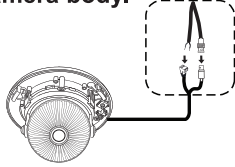
- <ITALIANO> Fissate la sagoma di montaggio (Fornito) alla superficie di montaggio
<ESPAÑOL> Coloque la plantilla de montaje (suministrado) a la superficie de montaje
<PORTUGUÊS> Anexe o modelo de montagem (fornecido) para a montagem da superfície
<РУССКИЙ> Прикрепите монтажный шаблон в комплекте на поверхности, на которой вы хотите установить
<TÜRKÇE> Monte edilecek yüze basma kalibi yapıştırın

2 Install the camera mounting bracket to the ceiling.



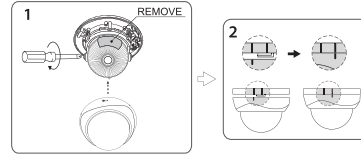
- <ITALIANO> Installare la staffa per il montaggio della videocamera al soffitto.
<ESPAÑOL> Instale el soporte de la cámara en el techo.
<PORTUGUÊS> Instale o suporte de montagem da câmera no teto.
<РУССКИЙ> Прикрепить монтажный кронштейн камеры к потолку.
<TÜRKÇE> Kamera bağlantı parçasını tavana takın.

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



- <ITALIANO> Collegare i cavi alle prese sul corpo della videocamera.
<ESPAÑOL> Conecte los cables en los terminales del cuerpo de la cámara.
<PORTUGUÊS> Conecte os cabos na tomada de cabos do corpo da câmera.
<РУССКИЙ> Подключить кабели к разъемам на корпусе камеры.
<TÜRKÇE> Kamera kablolarını kamera üzerinde bulunan soketlere yerleştirin.

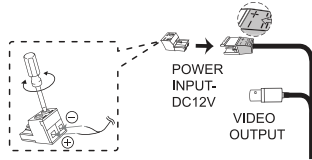
4 Assemble the camera and mounting bracket as illustrated step "1" and "2".



- <ITALIANO> Montare la videocamera e la staffa come illustrato nei passi 1 e 2
<ESPAÑOL> Monte la cámara y el soporte como se muestra en los pasos 1 y 2
<PORTUGUÊS> Monte a câmera e o suporte de montagem conforme mostrado nos passos 1 e 2
<РУССКИЙ> Соединить камеру и монтажный кронштейн, как показано на иллюстрации шага 1 и 2
<TÜRKÇE> Kamerayı ve bağlantı parçasını adım 1 ve 2 'de gösterildiği gibi monte edin.

CONNECTION & ADJUSTMENT

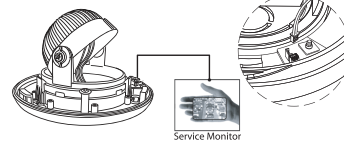
1. Power connection - DC12V



- <ITALIANO> Collegamento della potenza : DC12V
<ESPAÑOL> Conexión de alimentación: DC12V
<PORTUGUÊS> Conexão de força : DC12V
<РУССКИЙ> Подключение к источнику питания : DC12V
<TÜRKÇE> Güç Ba ğlantısı : DC12V

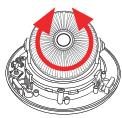
2. Camera Adjustment

Connect a portable monitor to the video jack

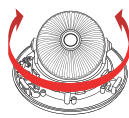


- <ITALIANO> Collegare un monitor portatile alla presa video.
<ESPAÑOL> Conecte un monitor portátil a la conexión de video.
<PORTUGUÊS> Conecte o monitor portátil na tomada de vídeo.
<РУССКИЙ> Подключить переносный монитор к разъему видео
<TÜRKÇE> Video soketine taşınabilir bir monitör bağlayın.

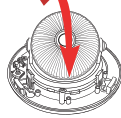
3. Adjust the Pan/Tilt/Rotate position of the camera.



ROTATING



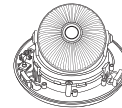
PANNING



TILTING

- <ITALIANO> Regolare la posizione della panoramica/dell'inclinazione/della rotazione della telecamera/Regolare lo zoom
<ESPAÑOL> Ajuste la posición Panorámica/Inclinada/Rotativa de la cámara.
<PORTUGUÊS> Ajuste a posição da Bandeja/Lente/Rotação da Câmera.
<РУССКИЙ> Регулировка панорамы/наклона/вращения (Pan/Tilt/Rotate) положения камеры
<TÜRKÇE> Kameranın Panlama/Eğim/Döndürme konumunu ayarlayın.

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



NOTE : We recommend the lens focus as is.

- <ITALIANO> Focalizzazione: I lenti sono stati focalizzati lontano da 1m. Quindi raccomandiamo i lenti a fuoco poiché è.
<ESPAÑOL> Enfocado: La lente está enfocada a 1m. Por eso recomendamos ajustar la lente.
<PORTUGUÊS> Foco : A lente é focalizada distante de 1m. Por isso nós recomendamos o focus da lente com já está
<РУССКИЙ> сфокусировать : Объектив выпускается после регулировки фокуса на расстояние 1м. (Рекомендуется использовать заводскую настройку.)
<TÜRKÇE> Odak : Lens 1 metre mesafede ayarlanarak teslim edilmektedir. Bu yüzden olduğu gibi kullanmanızı tavsiye ediyoruz.