

OWNER'S MANUAL

High Definition Network Camera

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

To view the instructions of advanced features, visit http://www.lgecommercial.com and then download Owner's Manual

MODEL LNU3110R series







CAUTION: TO REDUCE THE RISK OF FLECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE



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.

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
- 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



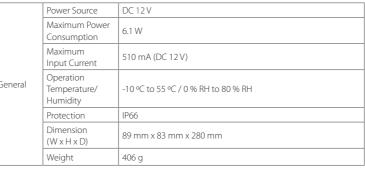
	Item	LNU3110R series
Camera	Image Device	6.28 mm (1/3 type) CMOS
	Lens Type	4 mm F2.0
	Day/Night	ICR (Auto / Day / Night)
	Minimum Illumination	Color: 0.03 lx @ F2.0 (1/30 sec, 50 IRE)
		B/W: 0 lx @ IR LED on
	IR Distance	30 m
	WDR	Digital (Dynamic Range Enhancer)
	Image Enhancement	Backlight Compensation, DNR, Exposure Control, AGC, White Balance, Privacy Masking, Sharpness
Video	Compression	H.264_HIGH, H.264, MJPEG
	Resolution	1280 x 1024 / 1280 x 720 / D1 (704 x 480) / CIF (352 x 240)
	Maximum Frame Rate	30 fps @ 1280 x 1024
	Multi-Streaming	Up to 2
	Video Analytics	Motion detection, Tampering alarm
Event	Event Notification	Email, FTP
	Pre Event Buffering	Support
Network	Ethernet	RJ-45 10 / 100BASE-T
	Security	Password Protection, HTTPS(SSL, TLS), IP filtering, IEEE 802.1X
	Open Protocol	ONVIF 2.2 Profile S, PSIA 1.1
	Protocol	IPv4 and IPv6: TCP, UDP, HTTP, HTTPS, RTP, RTSP, DHCP, ICMP, QoS, UPnP
		IPv4: FTP, SMTP, NTP, ARP, SNMPv1/v2c/v3, DDNS(LG)
	Connections	Up to 10
	Integrated Software	LG Ipsolute VMS Suite / Mobile App (iPhone, iPad, Android)

	D	DC 121/
General	Power Source	DC 12 V
	Maximum Power Consumption	6.1 W
	Maximum Input Current	510 mA (DC 12V)
	Operation Temperature/ Humidity	-10 °C to 55 °C / 0 % RH to 80 % RH
	Protection	IP66
	Dimension (W x H x D)	89 mm x 83 mm x 280 mm
	Weight	406 g

Note that design and specification of this unit may change from the manual as quality and improvement without prior notice

Component

Camera, Installation Manual, Screws (3 EA), Anchor (3 EA), Installation sticker



are available for download.

purchased the product.

Символ «не для пищевой продукции» применяется в соответствие с техническим регламентом Таможенного союза «О безопасности упаковки» 005/2011 и указывает на то, что упаковка данного продукта не предназначена для повторного использования и подлежит утилизации. Упаковку данного продукта запрещается использовать для хранения пищевой продукции.

OPEN SOURCE SOFTWARE NOTICE

this product, please visit http://opensource.lge.com.

To obtain the source code under GPL, LGPL, MPL and other open source licenses, that is contained in

In addition to the source code, all referred license terms, warranty disclaimers and copyright notices

LG Electronics will also provide open source code to you on CD-ROM for a charge covering the cost of performing such distribution (such as the cost of media, shipping and handling) upon email

request to opensource@lge.com. This offer is valid for three (3) years from the date on which you

005/2011 техникалык регламентіне сәйкес колданылады және осы өнімнің қаптамасын екінші рет пайдалануға арналмағанын және жоюға жататынын көрсетеді. Осы өнімнің каптамасын азык-түлік өнімдерін сактау үшін пайдалануға тыйым салынады.

Символ Кедендік одақтың



13. Unplug this apparatus during lightning

14. Refer all servicing to qualified service

of time.

has been dropped

storms or when unused for long periods

personnel. Servicing is required when

the apparatus has been damaged in any

way, such as power-supply cord or plug

objects have fallen into the apparatus, the

is damaged, liquid has been spilled or

apparatus has been exposed to rain or

moisture, does not operate normally, or

Символ «петля Мебиуса» указывает на возможность тилизации упаковки. Символ может быть дополне обозначением материала упаковки в виде цифрового и/или буквенного обозначения

Символ қаптаманы жою мүмкіндігін көрсетеді. Символ сандык код және/немесе әріп белгілері түріндегі қаптама материалының белгісімен толықтырылуы мүмкін





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. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

Warning: To reduce a risk of fire or electric shock, do not expose this product to rain or

Warning: Do not install this equipment in a

confined space such as a bookcase or similar

accordance with the National Electric Code,

Warning: Wiring methods shall be in

ANSI/NFPA 70.

Warning: Please adopt the power adapter which can meet the safety extra low voltage (SFLV) standard. And source with DC 12 V or AC 24 V (depending on models) according to the IEC60950-1 and Limited Power Source

Warning: Install the camera on a ceiling or wall where can withstand the weight of 5 times of the camera including mounting bracket. Caution: This installation shall be made by a

qualified service person and shall conform to all local codes. Caution: To avoid electrical shock, do not

open the cabinet. Refer servicing to qualified personnel only **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: Make sure the power supply voltage

is correct before using the camera. Caution: Do not drop the camera or subject it to physical shock.

Caution: The sensor may be burned out by a laser beam, so when any laser equipment is being used, make sure that the surface of the sensor not be exposed to the laser beam.

Caution: While shipping, the camera should be packed in its original packing.

Please make sure the product is installed appropriate places where secured from flood. such as under the eaves, to operate properly.

This product is certified as IP66 standard. However, if there is any flood concerns, it is highly recommended to use an outdoor Housing. When you install the camera inside an outdoor Housing, please use one of the following methods:

- Remove the front glass of Housing before installing the camera.
- To keep the front glass of Housing, remove the front cover, and then put the camera close to the front glass.

The Power Plug is the disconnecting device In case of an emergency, the Power Plug must remain readily accessible

Contact office for compliance of this product: LG Flectronics European Shared Service Center B.V.

Furopean Standard Team Kriiasman 1 1186 DM Amstelveen The Netherlands

Disposal of your old appliance



- This crossed-out wheeled bin symbol indicates that waste electrical and electronic products (WEEE) should be disposed of separately from the municipal waste stream.
- Old electrical products can contain hazardous substances so correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health. Your old appliance may contain reusable parts that could be used to repair other products, and other valuable materials that can be recycled to conserve limited resources.
- You can take your appliance either to the shop where you purchased the product, or contact your local government waste office for details of your nearest authorised WEEE collection point. For the most up to date information for your country please see www.lg.com/global/recycling

Important Safety Instructions

- Read these instructions
- Keep these instructions Heed all warnings.
- Follow all instructions
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 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.



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.

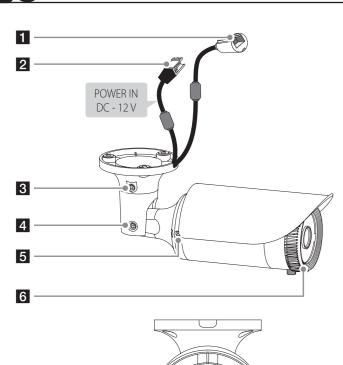
- Remove dust or dirt on the surface of the
- Use a soft and lint-free, dry cloth(such as glass cleaner) to clean the body. If it is very dirty, use a cloth dampened with a small quantity of neutral detergent then wipe dry.
- Avoid the use of volatile solvents such as thinners, alcohol, benzene and insecticides. They may damage the surface finish and/
- or impair the operation of the camera.
- This camera is designed for mounting on the ceiling or wall. If you install this camera upside down, it may cause malfunction.

location

Operating and storage

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

- Extremely hot or cold places (operating temperature -10 °C to 55 °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.
- Do not use the camera in such place where rapid temperature fluctuation by switching an air conditioner on and off



T FTHERNE

Connects to a PC or a network via a hub with a 10 BASE-T/100 BASE-TX cable attached RJ-45 connector.

2 Power input terminal

Connects to a DC 12 V power supply using proper cables. This camera must always be operated a DC 12 V. Certified/Listed Adaptor which comply with LPS.

3 Pan adjuster

Adjust the pan position.

4 Tilt adjuster

Adjust the tilt position.

5 Angle adjuster

Adjust the camera angle

6 Lens Cover

7 RESET button

Push the button more than 3 seconds, this would restore the factory default network related $\,$

8 IR LED

9 IR Sensor



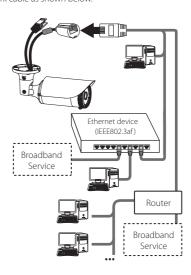
Precautions

- Be sure to switch off the unit before installation and connection.
- The installation should be made by qualified service personnel or system installers.
- Do not expose the power and connection cables to moisture, which may cause damage to the unit.

Connecting Network

You can control and monitor the system via network. With the remote control (monitoring), you can change the system configuration or monitor the image via network. After the installation, check the network settings for the remote control and monitoring work.

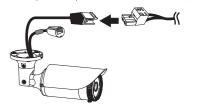
Connect the IP camera to your network using a standard RJ-45 network cable as shown below.

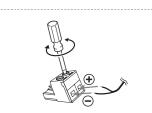


Connecting Power Source

Connect a DC 12 V power source to the power input terminal as shown below.

(Recommended power adapter is DC 12 V/1.5 A or above)





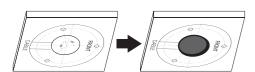
When the connecting power adapter, tighten the screws as shown above.

Installation

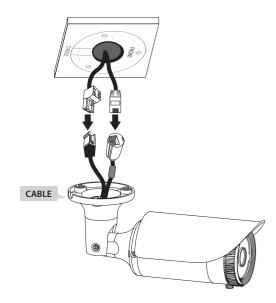
Mounting the camera

Follow the instructions below to ceiling or wall mount the camera.

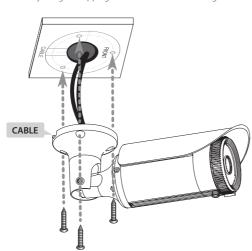
 Use the installation guide template to check the mounting location. Face the front of the label toward the area of interest. Using the template as a guide, make a hole through the ceiling.



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



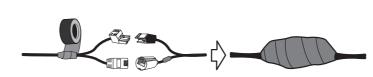
3. Install the camera by using M4 Tapping screws to fix it on the ceiling.



Connecting Waterproof processing of cable

Surely use the Butyl tape.

- Connect the cables.
- 2. Bind the cables together with Butyl tape.

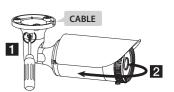


- The cables are not waterproofed completely. So seal the tube ends and the portions between cable cores as well as connecting portions with Butyl tape.
 - If not using the Butyl tape, it may cause water absorption from a gap and finally condensation and water leakage.

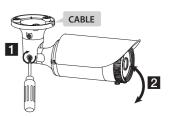
Adjust the camera position

You should adjust the camera angle position as shown below illustration. Adjust the camera angle position by following step \blacksquare and \blacksquare .

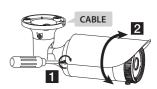
Adjust the Pan.



2. Adjust the Tilt.



3. Adjust the Angle.



- Camera can be damaged if you adjust the Pan / Tilt / Angle when the screw is fixed.
- Be careful not to rotate the Pan and Angle more than 360°, it may damage the internal cable.