



OWNER'S MANUAL

Color Video Camera

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

MODEL

LCZ3750-DN/LCZ3750-DP
LCZ3750 Series



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.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- 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.



- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 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.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



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.

Power Supply

This camera must always be operated a DC 12 V Certified/Listed, class 2 power supply only.

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 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.

- 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.
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 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.

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

Specification

Item	LCZ3750-DN	LCZ3750-DP
Signal System	NTSC	PAL
Total Pixels number	520 000 Pixels	610 000 Pixels
Effective Pixels number	480 000 Pixels	570 000 Pixels
Image Device	4.5 mm (1/4 Type) Super HAD CCD II	
ISP	XDI-II	
Lens	x37 Zoom, F 1.5 (Wide End), F 4.1 (Tele End), f = 3.5 to 129.5 mm	
Digital Zoom	X12	
IRIS Control	AUTO / MANUAL	
Sync. System	Internal	
Scanning Frequency (H/V)	15.734 kHz / 59.94 Hz	15.625 kHz / 50 Hz
Horizontal Resolution	600 TV Lines	
S/N Ratio	50 dB (AGC OFF)	
Minimum Illumination (30 IRE)	B / W	0.01 lx (Sens-up OFF), 0.000 01 lx (Sens-up ON)
	Color	0.2 lx (Sens-up OFF), 0.003 lx (Sens-up ON)
Video Output Signal	1 Vp-p Composite (75 Ω)	

CE 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, and 2009/125/EC.
European Standards Centre:
Krijgsman 1, 1186 DM Amstelveen The Netherlands

Disposal of your old appliance

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

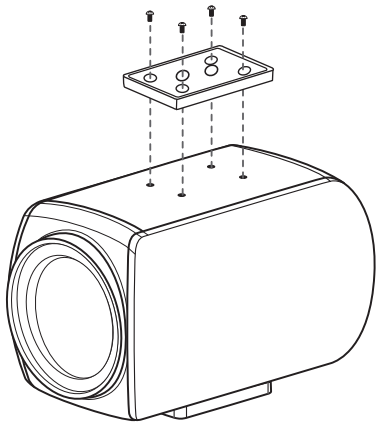
EEE Compliance with Directive. (for Turkey only)

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

Item	LCZ3750-DN	LCZ3750-DP
Day & Night	AUTO / DAY / NIGHT / EXT	
Backlight	WDR / BLC / HSBLC / OFF	
DNR	3D-DNR	
Electronic Shutter Speed	1/60 to 1/120 000	1/50 to 1/120 000
White Balance	ATW / AWC / ONE PUSH /MANUAL	
Control Method	RS-485	
Power Source	DC 12 V	
Power Consumption	3.6 W	
Operation Temperature	-10 °C to 50 °C	
Storage Temperature	-20 °C to 60 °C	
Operation Humidity	0 % RH to 80 % RH	
Storage Humidity	0 % RH to 90 % RH	
Weight	520 g	
Dimension (H x V x D)	64 mm x 78.6 mm x 118.2 mm	

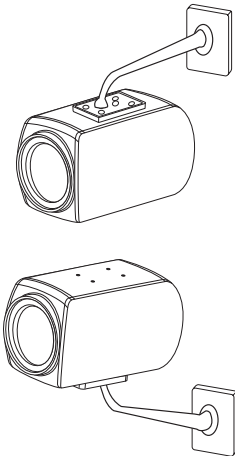
Installation

1. Install the camera and mounting bracket securely.



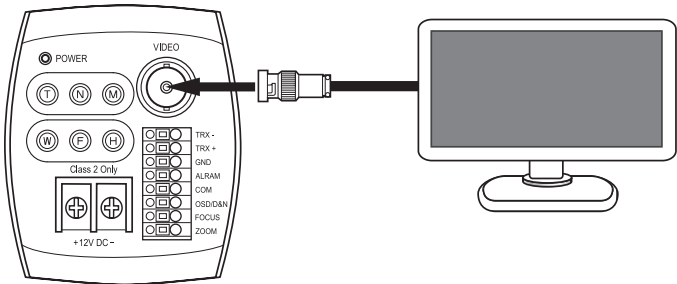
<日本語>	カメラと取り付け具をしっかりと取り付けます。
<한국어>	카메라에 설치 브래킷을 설치하세요.
<فارسی>	دوربین و پایه را محکم نصب کنید.
<عربي>	قم بتركيب الكاميرا وكتيفة التثبيت بإحكام.
<עברית>	חבר את המצלמה ואת מסגרת החיבור באופן בטוח.

2. Install the camera and mounting arm.



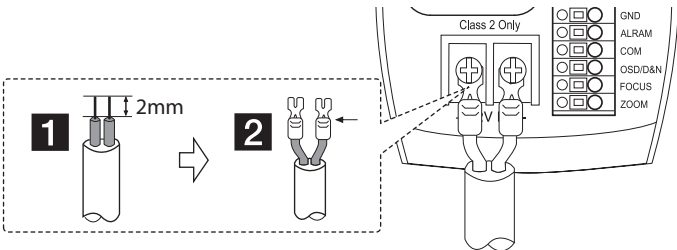
<日本語>	カメラと取り付けアームを取り付けます。
<한국어>	카메라를 벽면에 설치하세요.
<فارسی>	دستگیره را نصب کنید.
<عربي>	قم بتركيب الكاميرا وذراع التثبيت.
<עברית>	חבר את המצלמה ואת זרוע החיבור.

3. The video signal connection between the camera and the monitor or DVR.



<日本語>	カメラとモニター(またはDVR)とのビデオ信号接続。
<한국어>	영상을 출력하기 위하여 카메라를 모니터 또는 DVR과 연결하세요.
<فارسی>	ارتباط سیگنال ویدئویی بین دوربین و مانیتور یا DVR.
<عربي>	اتصال إشارة الفيديو بين الكاميرا والشاشة أو DVR.
<עברית>	אות וידאו הקשר בין המצלמה ואת הצג או DVR.

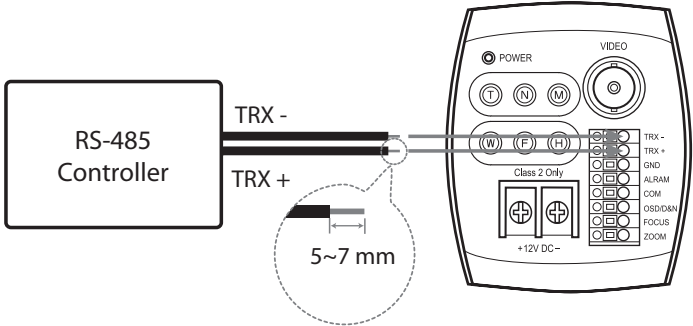
4. Connect to the 12 V DC UL Listed, Class 2 Power Supply only on the camera.



<日本語>	カメラ側のみ、ULリスト・クラス2のDC12V電源コードに接続します。
<한국어>	카메라에 극성에 맞게 전원선을 연결하세요. (12V DC UL Listed, Class 2 Power Supply only)
<فارسی>	دوربین را به منبع تغذیه ی ۱۲ ولت UL وصل کنید.
<عربي>	وصل بمصدر التيار المباشر بجهد ۱۲ فولت، بمصدر طاقة من الفئة 2 فقط في الكاميرا.
<עברית>	חבר לשקע רמה 2, רישום 12 v, UL, שעל היחידה.

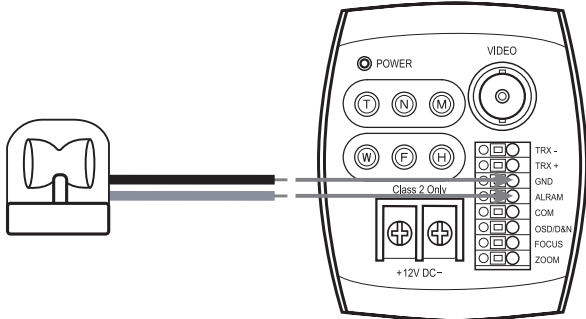
Connections

1. Connect to an external controller of RS-485 format.



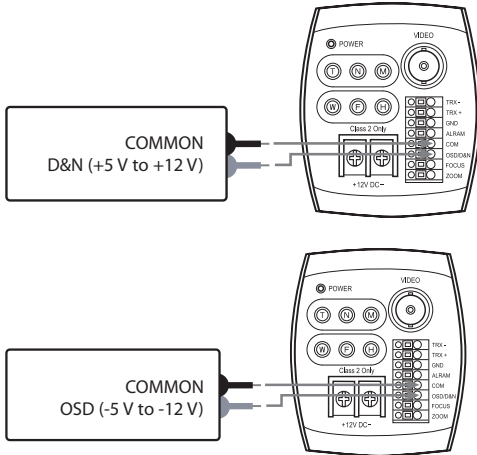
<日本語>	RS-485フォーマットの外部コントローラーに接続します。
<한국어>	RS-485 형식의 외부 컨트롤러를 연결하세요.
<فارسی>	به کنترل گر خارجی RS-485 وصل کنید.
<عربي>	وصل بجهاز تحكم خارجي بتنسيق RS-485.
<עברית>	נא לחבר לבקר חיצוני בתבנית RS-485.

2. Connect an external device such as a buzzer or lamp to the ALARM terminal.



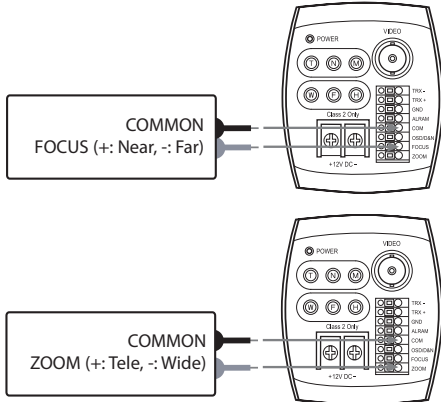
Contact Ratings	
• Maximum load current is ±130 mA.	
• Do not connect any system or device that has over 40 Vp-p (DC 30 V) bias voltage on the contact terminal.	
<日本語>	ブザーやランプなどの外部機器をALARMターミナルに接続します。
<한국어>	부저 또는 알람단자 램프와 같은 외부 알람 장치에 연결하세요.
<فارسی>	به پایانه ی ALARM دستگاهی خارجی مانند بیزر یا لامپ وصل کنید.
<عربي>	وصل جهاز خارجي مثل جرس خارجي أو مصباح بطرف التنبيه.
<עברית>	נא לחבר התקן חיצוני כגון זמזם או מנורה למסוף ה-ALARM.

3. You can set the D&N and OSD function manually.



<日本語>	D&NおよびOSD機能は手動で設定できます。
<한국어>	주간/야간 모드변경을 수동으로 설정 할 수 있습니다.
<فارسی>	می توانید عملکرد D&N و OSD را بطور دستی تنظیم کنید.
<عربي>	يمكنك ضبط وظائف D&N والمعلومات على الشاشة يدويا.
<עברית>	ניתן להגדיר באופן ידני את הפונקציות OSD ו-D&N.

4. You can set the FOCUS and ZOOM function manually.



<日本語>	FOCUSおよびZOOM機能は手動で設定できます。
<한국어>	외부 컨트롤러를 이용하여 포커스 및 줌 기능을 수동으로 제어할 수 있습니다.
<فارسی>	می توانید عملکرد بزرگمایی و وضوح را بطور دستی تنظیم کنید.
<عربي>	يمكنك ضبط وظيفة التركيز والتكبير/التصغير يدويا.
<עברית>	ניתן להגדיר באופן ידני את הפונקציות FOCUS ו-ZOOM.