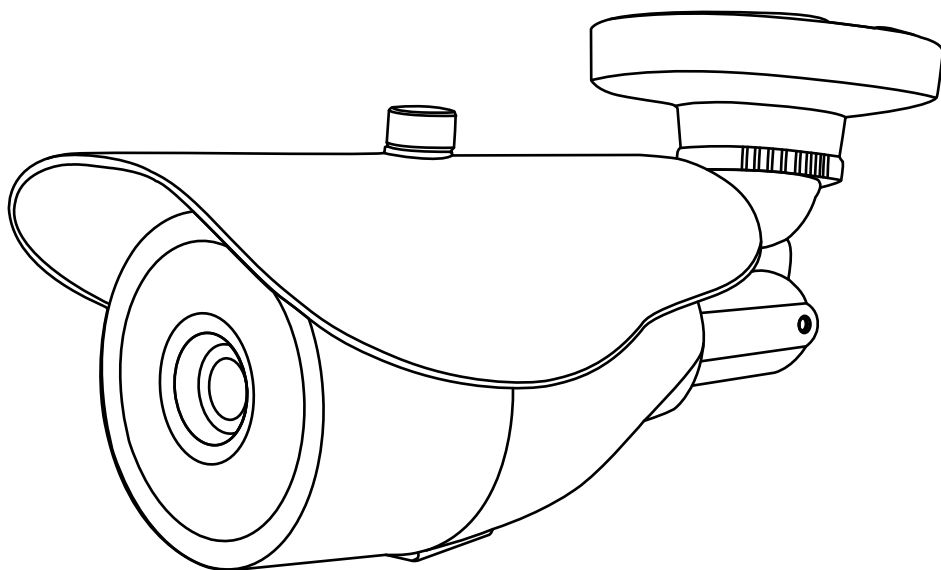


# **720TVL High Resolution Day & Night Color Camera**

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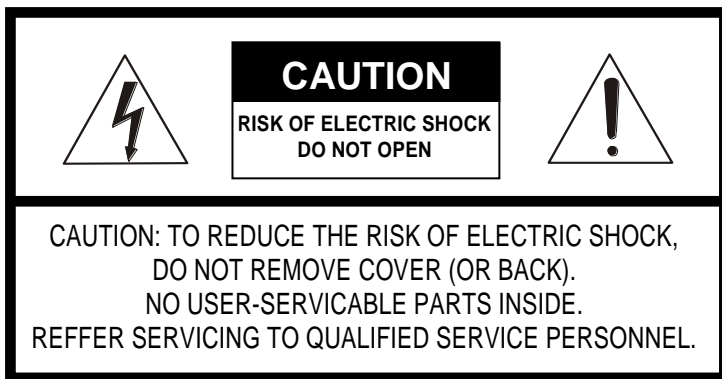


**Please read this manual thoroughly before use, and keep it handy for future reference.**

# WARNINGS

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECT THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

## CAUTION



## EXPLANATION OF GRAPHICAL SYMBOLS



The 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.

## PRECAUTIONS

### Installation

Do not install the unit in an extremely hot or humid place or in a place subject to excessive dust, mechanical vibration.

### Cleaning

Clean the unit with a slightly damp soft cloth.

Use a mild household detergent. Never use strong solvents such as thinner or benzene as they might damage the finish of the unit.

Retain the original carton and packing materials for safe transport of this unit in the future.

# IMPORTANT SAFETY INSTRUCTIONS

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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 moisture, does not operate normally, or has been dropped.
15. **CAUTION – THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.**
16. *Use satisfy clause 2.5 of IEC60950-1/UL60950-1 or Certified/Listed Class 2 power source only.*



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## FCC COMPLIANCE STATEMENT

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**INFORMATION TO THE USER:** 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.

**CAUTION:** CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

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.

## CE COMPLIANCE STATEMENT

**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.

# INTRODUCTION

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The camera provides high-resolution images using 720TVL CMOS and digital Signal process LSIs.

## Features:

- 1/3" CMOS for an image of high sensitivity
- 3.6mm or 6mm fixed lens
- Excellent picture quality
- 720 lines of resolution
- Auto electronic shutter
- Auto white balance modes
- Day & Night ( ICR-Filter )
- AGC ( Auto Gain Control )
- VIDEO OUT ( BNC )
- 10~20M IR LED's
- IP66 Ingress Rating
- Operates in 12VDC  
( Please use a power supply capable of supplying over 500mA.)
- Use Certified / Listed Class 2 power source only.

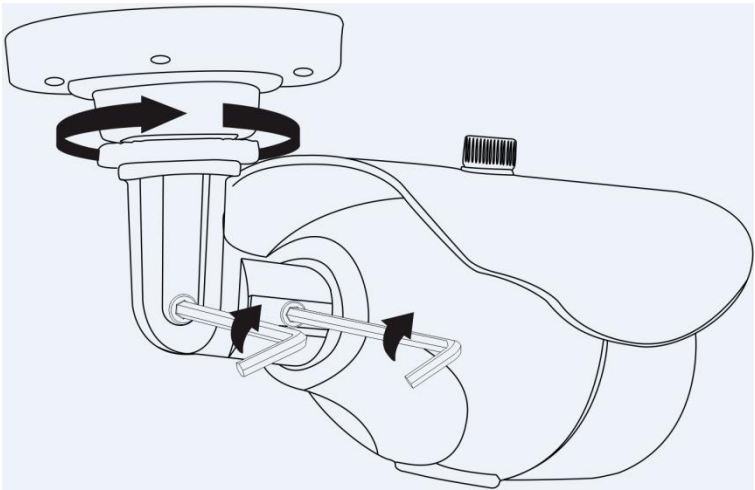
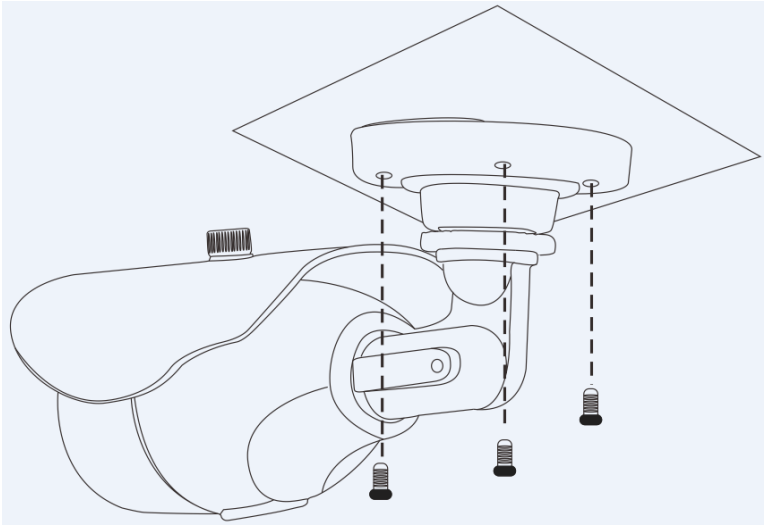


**IMPORTANT :** The user of this camera is responsible for checking and complying with local, state, and federal laws and statutes concerning the recording and monitoring of audio signals.

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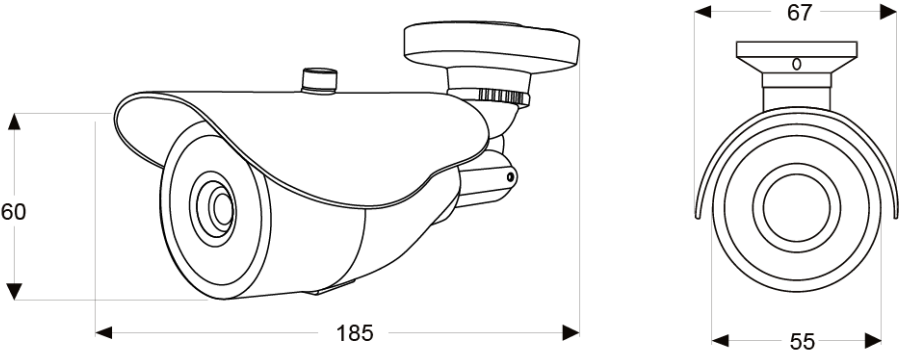
# INSTALLATION

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EXTERNAL DIMENSION

Dimensions \_\_\_\_\_ Unit : mm



# SPECIFICATIONS

VIDEO	
Image Device	1/3" CMOS
TV System	PAL/NTSC
Effective Pixels	853(H)×640(V)
Scanning System	Progressive
Synchronization	Internal
Horizontal Resolution	720TVL
Min. Illumination	0 Lux (LED on)
S/N Ratio	>52dB
Video Output	1Vp-p, 75ohm, BNC
LENS	
Focal Length	3.6mm or 6mm Fixed Lens, M12
OPERATIONAL	
Day & Night	Auto (ICR)
Backlight Compensation	Auto
Gain control	Auto
White Balance	Auto
Electronic Shutter Speed	1/25 ~ 1/15,000sec
Infrared LED	23 EA
IR Distance	10 ~ 20 Meters
IR-CUT	YES
Infrared Spectrum	850nm
ENVIRONMENTAL	
Operation Temperature	-20℃ ~ +50℃
Storage Temperature	-20℃ ~ +60℃
Water-proof Casing	IP66
ELECTRICAL	
Input Voltage/Current	DC12V300mA
Adapter Requirement	DC12V1A
MECHANICAL	
Color	white
Bracket	All-Oriented Bracket
Dimensions	Φ69*170mm
Net Weight	290g/pcs

**720TVL Super High Resolution  
Day & Night Color Camera**