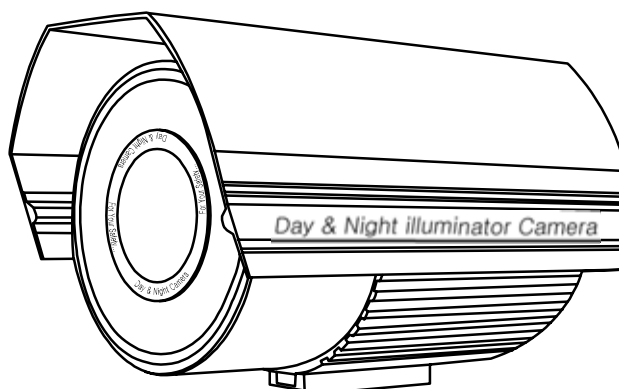


Day & Night illuminator Digital Color Camera

User's Manual



Model : KIR-090



Korea Digital Technology Co.,Ltd.

Cautions

– Please read this manual carefully before installation or operation of this product.

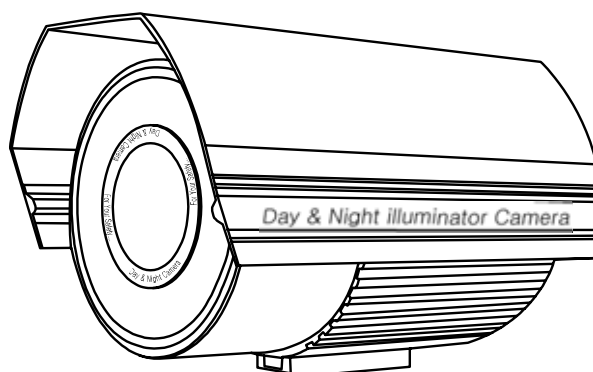
- The installation of the product must be done by trained personnel.
 - Installation by unskilled personnel who do not have enough experience and technique may result in fire or electric shock. Always ask your local distributor for installation.
- Always install the product with proper illumination.
- Always stop using when there is smoke or abnormal heat from the product.
 - Continuous usage may cause fire.
- Never install the product on a weak ceiling that cannot hold its weight.
 - The product may fall down.
- Never disassemble the product nor put foreign objects in it.
 - Disassembling or foreign objects may result in trouble or fire.
- Never expose the product to direct sunlight or severe ray unless it is in an outdoor housing.
 - Direct sunlight or severe ray may cause fatal damage to CCD or internal circuit.
- Never drop, hit nor vibrate the product hard.
- Never install the product in areas exposed to rain or water unless it is in an outdoor housing.
 - The water soaked into the product may result in failure.
- Never install the product in extremely high or low temperature.
 - Installing the product in area over 50 ° C or under -10 ° C may result in deterioration of picture quality. Especially pay attention to ventilation for the product if installed in high temperature.
- Never install the product in highly humid area.
 - It may result in trouble, electric shock or fire.
- Never touch the power cord with wet hands.
 - Touching the power cord with wet hands may result in electric shock.
- Never touch the front glass of the product.
 - The front glass is one of the most important parts. Be careful not to leave your fingerprints or other traces on the glass.
- Always use the supplied Adaptor only.
 - The manufacturer is not responsible for the malfunction or failure of the products if different adaptor is used.

1. Main Features

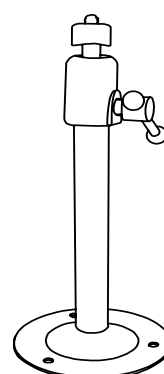
1-1. Features of Infrared illuminator Camera

- 1) Clear and crispy picture by 1/3" Super HAD Color Sony CCD
- 2) Automatically adjusting brightness of Infrared LEDs thanks to built-in CDS sensor
- 3) 260x Day&Night Zoom Module, 5 ~ 50mm Varifocal Lens
8mm, 6mm CS Mount Lens (Optional)
- 4) Built-in control PCB for minimizing the heat
- 5) Patented SELF-DIAGNOSIS system
 - Automatic cut-off input when excessive voltage input
 - Automatic cut-off input when the cooling fan stops
- 6) Patented STATUS INDICATING system
 - The corresponding LED flashes when input excess voltage
 - The corresponding LED flashes when cooling fan stops
- 7) Patented "DUAL LENS TUBE" to prevent the distorted reflection from LED or from the foreign objects on the front glass
- 8) Perfect air-circulation system with the cooling fan

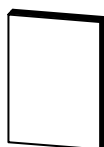
1-2. Contents of Infrared illuminator Camera



Camera

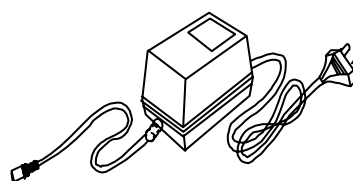


Bracket



User's Manual

<OPTION>



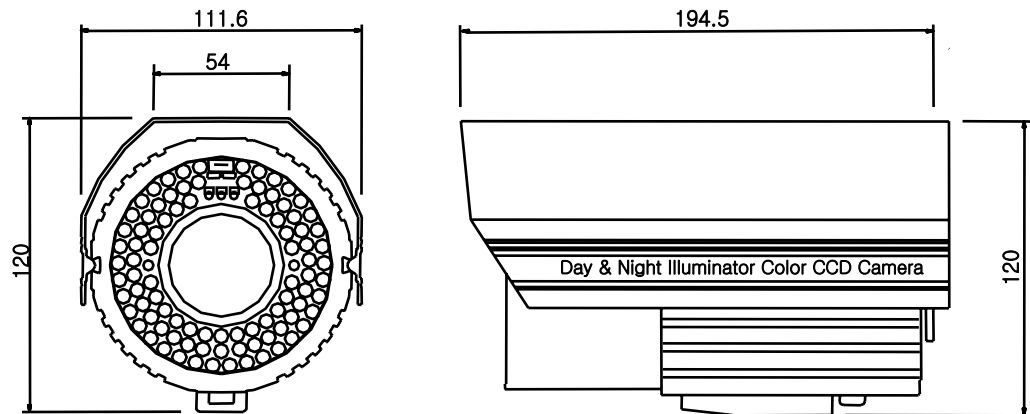
Power Adaptor (DC12V)



USE 12V 1A REGULATED POWER ADAPTOR ONLY.

2-1. KIR-090 Series

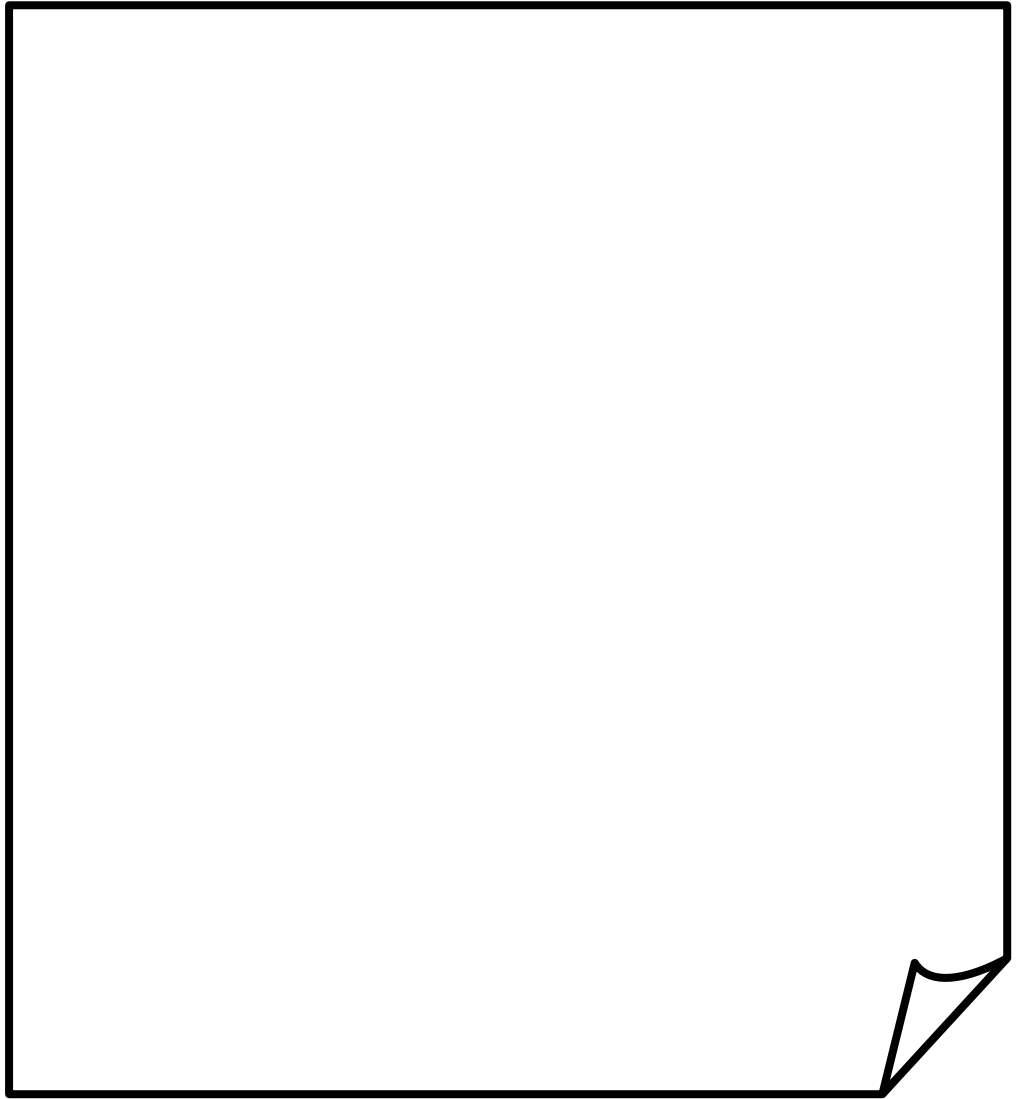
■ Dimension (Unit : mm)



■ Specifications

Image Device	1/3" SONY Super HAD CCD
Number of Pixels	NTSC : (H)768 × (V)494 ~ PAL : (H)510 × (V)492 NTSC : (H)712 × (V)582 ~ PAL : (H)500 × (V)582
Scanning System	NTSC : 525Line, 60Field/Sec PAL : 625Line, 50Field/Sec
Sync System	Internal Synchronization
Horizontal Resolution	330 TV Line ~ 480 TV Line
Video Output	1Vp_p 75Ω, Negative
S/N Ratio	More than 45dB (AGC OFF)
Gamma Characteristic	0.45
White Balance	Auto White Balance (AWB)
B.L.C	Back Light Compensation (Auto)
Minimum Illumination	0.3Lux (F:1.2) in Day time, 0.0Lux at Night time
Electronic Shutter	NTSC : 1/60 ~ 1/100,000 Sec PAL : 1/50 ~ 1/100,000 Sec
Built in Lens	260X Day&Night auto-focus Zoom, 5~50mm Auto-iris Vari focal Lens, 6~8mm CS Mount Lens (Option)
Number of Infrared LED	96~120 Pieces Infrared LED
Wave Length	850nm
Angle of Infrared LED	16° and 30° Combinations
Illuminate Distance	Indoor 90m, Outdoor 50m
Power Consumption	DC12V± 10% DC, 1750mA
Operation Temperature	-10. C ~ +45. C
Weight	Approx 1.6Kg

M E M O



WARRANTY

This product has passed the thorough and rigid quality control. However if this product gets broken during normal use we provide 12 months warranty service.

- ☐ When the product is defective or malfunctioning.
- ✓ Check this warranty sheet first.
- ✓ Please contact the distributor if there is any defect of the product.
- ✓ Any defect under normal use within the warranty service period, we will provide the free repair service according to the warranty sheet.
- ✓ We shall charge for the parts and services even during the free warranty service period when;
 - Any breakage made without care.
 - Breakage or trouble made by natural disaster.
 - Breakage or trouble made by breaking the product guide or manual.
 - Breakage or trouble made by wrong power voltage or frequency.
 - The user wants to reassemble full system or replace parts within the warranty service period.
 - An unauthorized engineer modified or made damage on the product trying to repair it.
- ✓ The warranty shall be void after the warranty period. And the service fee shall be charged.

<WARRANTY>

Model		
Serial No.		
Distributor		
Date of Purchase		
Warranty Period		1 year after the date of purchase
Customer	Name	
	Address	



Korea Digital Technology Co.,Ltd.