

540TV Lines Super High Resolution

Color Camera

LIMITATION OF LIABILITY

THE INFORMATION IN THIS PUBLICATION IS BELIEVED TO BE ACCURATE IN ALL RESPECTS, HOWEVER, WE CANNOT ASSUME RESPONSIBILITY FOR ANY CONSEQUENCES RESULTING FROM THE USE THEREOF. THE INFORMATION CONTAINED HEREIN IS SUBJECT TO CHANGE WITHOUT NOTICE. REVISIONS OR NEW EDITIONS TO THIS PUBLICATION MAY BE ISSUED TO INCORPORATE SUCH CHANGES.

WARNINGS AND CAUTIONS:

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

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

Safety -----

Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by the qualified personnel before operating it any further.

Unplug the unit from the wall oulet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials(curtains, draperies) that may block the ventilation holes.

Height and vertical linearity controls located at the rear panel are for special adjustments by qualified personnel only.

Installation -----

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

The unit is not designed to be waterproof. Exposure to rain or water may damage the unit.

Cleaning -

Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzine 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.

FCC COMPLIANCE STATEMENT

FCC INFORMATION: 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.

IMPORTANT SAFEGUARDS

- 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.
- 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 product 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 thy exit from the apparatus.
- 11. Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13. 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.
- 14. 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.
- 15. Use Certified/Listed Class 2 power supply transformer only.

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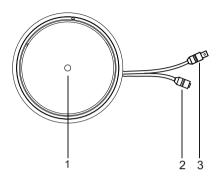
INTRODUCTION

The camera provides high-quality images using SONY CCD technology especially designed for closed-circuit television (CCTV) and security surveillance applications.

Features:

- High resolution and high performance 1/3" SONY Super HAD CCD Technology
- · Excellent picture quality
- 540 lines(Color) of resolution
- 0.25 lux(Color) @ F 1.2 Sensitivity
- Auto electronic shutter [1/60(1/50) ~ 1/100,000] and manual electronic shutter modes
- · Auto trace white balance modes
- BLC (Back Light Compensation)
- Day&Night (Auto / Color Fix)
- AGC (Auto Gain Control)
- Video out (BNC)3 6mm Fix Lens
- 0.0.....
- Operates in 12VDC
- Use Certified / Listed Class 2 power supply only.
- Camera Mount : camera mount directily to the wall or ceiling

CAMERA CONNECTIONS



1. Lens: 3.6mm Fix lens for wide area monitoring.

2. Power: 12V DC input - +

power source from a DC 12V +/-10% Use Certified/Listed Class 2 power supply transformer only.

*If use DC 12V power adaptor, use the power consumption 3W over.

3. Video: BNC connector used to connect the camera to a monitor, switcher, etc.



REMINDER:

Never aim the camera directly into the sun.

BASIC CAMERA INSTALLATION

Unpack and identify the following parts from the product carton:

A. Camera

B. Mounting screw

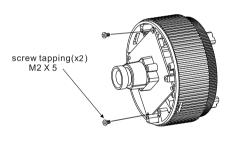
C. Instruction manual

D. Anchor



Note: Make sure the power is turned off when connecting the power adaptor cable.

To mount the board camera on the camera mount bracket, place the four board camera supports on the four slot holes near the front and the rear of the camera mount bracket.

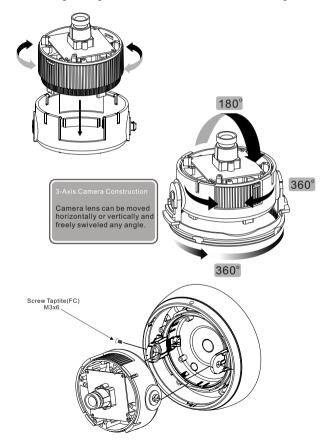




Note: Arrow mark indicates the top of the camera image.

INSTALLING & ADJUSTING CAMERA MODULE

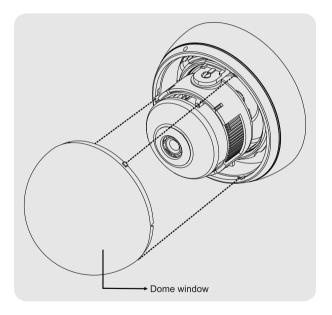
Use the following drawings to install the camera module to the housing.



BASE INSTALLATION



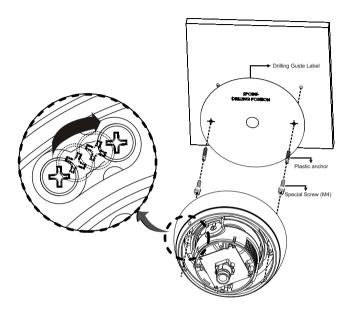
Make mounting holes and cable hole in the place (ceiling) to which this dome camera is installed using the Drilling guide label.



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Turn open the dome window counterclockwise.

BASE INSTALLATION, continued

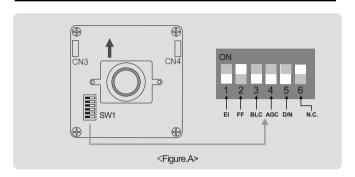


Fasten Mounting screws(2X) and align the dome camera with it like above picture.

Turn the dome camera to left direction about 16 degree.

The assembly of the dome window is reverse order of disjointing. Finally, lock dome window with locking screw(M2X4) in a accessory kit.

FUNCTION SWITCH



1. E/I (on/off)

When set to the ON position, the electronic iris switch automatically varies the camera's shutter to mimic auto-iris control, allowing fixed or manual iris lenses to be used in a wider range. When this switch is set to ON, turn the F/F switch OFF.

2. FF (on/off)

This function is used for removing flicker, when camera signal format does not coincide with power source frequency being used.

3. BLC (on/off)

This on/off switch controls backlight compensation. When set to ON, the camera will automatically try to maintain proper exposure in the specific area even if the lighting level changes.

4. AGC (off/on)

The auto gain control switch allows the video signals to maintain a constant level. This switch is useful when using the camera at low-light levels and when lighting levels change over time. For best low light conditions, this switch should set to ON.

5. D/N (Auto/Color)

Use this switch to set the camera Day/Night mode Auto(ON) or Color(OFF) Auto: D/N mode converse automatically (AGC must set to ON) Color: Only Color

6. N.C (no function)

TROUBLESHOOTING

If you experience difficulties operating your camera, refer to the following. If the guidelines do not enable you to solve the problem, contact an authorized technician.

PROBLEM	CHECK	
Nothing appears on the screen.	Is the cable connected between the camera and monitor?	
	Is there power to the monitor?	
The image on the screen is dim.	Is the lens dirty? If so, clean the lens with a soft, clean cloth.	
The contrast on the screen is too weak.	Adjust the contrast feature of the monitor. Is the camera exposed to strong light? If so, change the camera position.	
The image on the screen flickers.	Does the camera face directly into the sun or fluorescent lighting? If so, reposition camera.	

PREVENTIVE MAINTENANCE

Following the preventive maintenance schedule allows detection and correction of minor faults before they become serious and cause equipment failure.

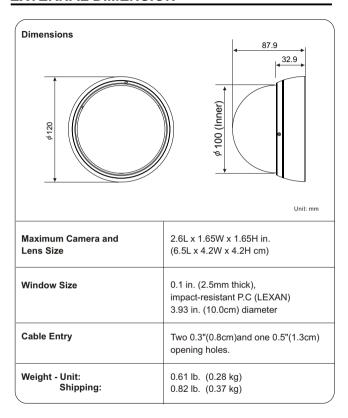
Every three months, perform the following:

- 1. Inspect all connecting cables for deterioration or other damage.
- 2. Clean components with a clean damp cloth.
- 3. Verify that all the mounting hardware is secure.

SPECIFICATIONS

MODEL		ODEL	NTSC	PAL
Power	Power source		DC 12V ±10%	
rowei	Power consumption		1.5 Watts	
	Image sensor		1/3" SONY Super HAD CCD	
	Total pixels		811(H) x 508(V)	795(H) x 596(V)
Scar		nning system	2:1 interlace	
		nning frequency	15.734KHz(H), 59.94Hz(V)	15.625KHz(H), 50Hz(V)
	Sync. system		Internal	
	Ele	ctronic shutter	1/60 ~ 1/100,000 sec.	1/50 ~ 1/100,000 sec.
	Res	olution	540 TV lines	
General	Min. illumination		Color (0.25 Lux) @ F1.2, 50 IRE	
Ochiciai	Vide	eo output	1.0 Vp-p (75 ohm, composite)	
	S/N ratio		More than 50dB (AGC OFF)	
	Car	nera Control	Dip Switch	
	F E/I		ON/OFF	
		Flickerless	ON/OFF	
	UNCT	BLC	ON/0	OFF
		AGC	ON/0	
	Ò	Day/Night	Auto / C	
		White Balance	ATW I	
	Power input		DC Jack	
	Video output		BNC connector	
Connector &		s mount	Fixed mount	
	Lens		3.6mm Fixed mount	
etc.	Operating temperature		-10°C ~ +40°C	
Oto.	Operating humidity		0 ~ 96% (non-condencing)	
	External dimension		Ø120.0 x 87.9 mm (Bubble Diameter Ø100)	
	Weight		230g	

EXTERNAL DIMENSION



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