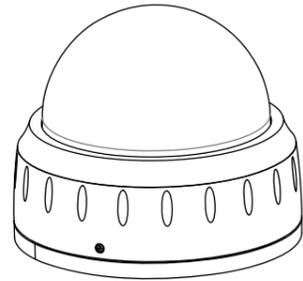


High Resolution Indoor Dome Camera User Guide



600TVL Day / Night
Color Camera

Regulatory Compliance

Emissions FCC part 15 Class B
CE: EN55011
ICES-003
EN55022
CISPR 11
CISPR22
ANSI C63.4

Immunity CE: EN50130-4



FCC COMPLIANCE:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced Radio/TV technician for help.
CISPR 22 WARNING:
This is a Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.
POWER SUPPLY REQUIREMENTS:
For use with listed Audio/Video product and only connected to 15W or less power supply.
*Power supply should be a NEC Class 2 / LPS Supply.
EQUIPMENT MODIFICATION CAUTION:
Equipment changes or modifications not expressly approved by seller.
The party responsible for FCC compliance could void the user's authority to operate the equipment and could create a hazardous condition.

This class B digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

About this Sheet

Thank you for purchasing this product. Before operating this unit, please read this sheet carefully. For detailed descriptions about the unit's specification, please refer to the following content.

Please visit our website for more information
www.deview.com

Product specifications subject to change without notice. Certain product names mentioned herein may by trade names and/or registered trademarks of other companies.

Hardware Kit Contents

- Quick install adaptor x 1 (Optional)
- Torx driver x 1
- D5 fixing screws x 3
- T6 fixing screw (for T6 fixing screw) x 1
- Wall plugs x 3
- Power lead x 1
- Cable entry sealing plug (3/4" ,for dome base use) x 1

Camera Specification

General Specifications for V6		
TV System	NTSC	PAL
Image Sensor	1/3" Interline CCD Sensor	
Effective Picture Element	768(H)x494(V)	752(H)x582(V)
Scanning Frequency	2:1 Interlace	
	H:15734Hz V:59.9Hz	H:15625Hz V:50.0Hz
Resolution	600TV Line	
Min. Illumination	AGC Max. 0.3 Lux @ F1.2	
S/N Ratio	>50dB	
Video Output	1.0Vpp 75Ω BNC unbalanced	
Power Source	12VDC ±10% /24VAC ±20%	
Power Consumption	2.3 W Max	
Operating Temperature	-10°C~+50°C	
Storage Temperature	-20°C~+60°C	

Functional Specifications		
Lens Control	Auto/ Manual	
Backlight Compensation	2 Zone On, Off, HLC	
AGC Control	Low/ Middle/ High/ Off	
Digital Noise Reduction	On/ Off	
White Balance Control	ATW 1(2700~9700K)/ ATW2 (2000K~20000K), AWC/ MWB/ INDOOR/ OUTDOOR	
AWB	Standard Range	2700k~9700k
	EX Range	2000k~20000k
Sharpness	Level 1-31	
Day & Night	Auto/ Adjustable	
Shutter Function	MES 1/60, 1/100~1/100000, Auto	MES 1/50, 1/120~1/100000, Auto
Privacy Zone	8 Zone On/ Off	
Mirror	On/ Off	
Motion Detection	4 Zones On/ Off	
WDR Preference	ON/OFF	

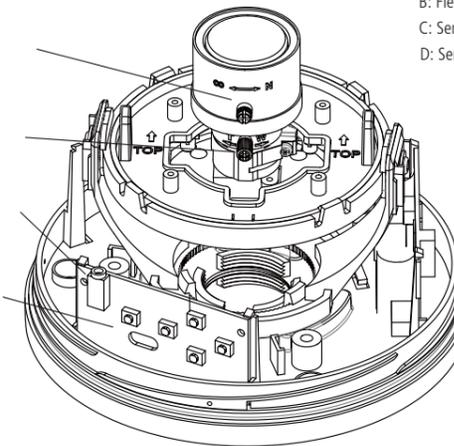
Lens Specification

Focal Length	2.8~10mm	2.9~10mm	3~9mm
F-No.	F1.2	F1.2	F1.2
Iris Range	F1.2~F360	F1.2~F360	F1.2~F360
Minimum Object Distance	1.5m	1.5m	0.5m
Field Of View	Diagonal	125.0°~36.0°	116.2°~39.7°
	Horizontal	94.6°~28.8°	90.0°~31.8°
	Vertical	68.4°~21.6°	66.2°~23.9°

Focal Length	4~9mm	9~22mm	
F-No.	F1.6	F1.4	
Iris Range	F1.6~F360	F1.4~F360	
Minimum Object Distance	0.5m	1m	
Field Of View	Diagonal	92.8°~39.4°	41.9°~16.3°
	Horizontal	71.0°~31.6°	32.1°~13.1°
	Vertical	51.6°~23.6°	23.3°~9.8°

Camera Overview

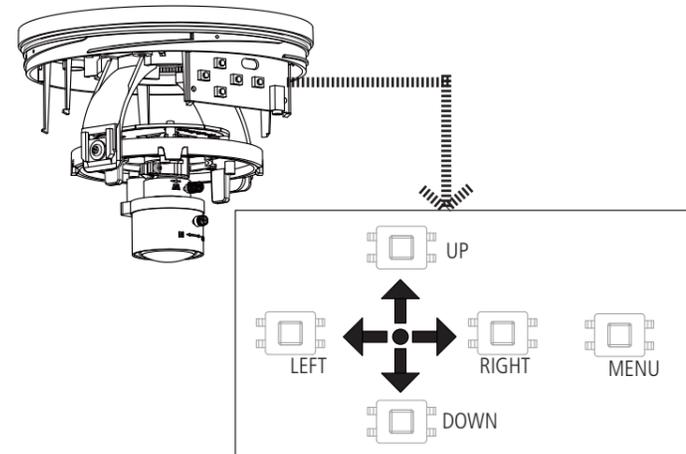
A
B
C
D



A: Focus Adjuster
B: Field of View Adjuster
C: Service Jack Socket
D: Service Board

Camera Adjustments

The following illustration shows the service jack which is used to access the OSD and make any programming changes if required.



Camera adjustments and programming

In addition to the levers for **Focus (A)** and **Field of View (B)**, all settings are made by keys on the OSD service board.

1. With power applied to the camera and a video monitor connected, press and hold the **MENU** key for three seconds to access the top level menu. A map of the menu options are shown in the following **Camera OSD Menu**.
2. Use the arrow keys on the control board to navigate around the OSD menu and use the **MENU** key to confirm your selections.
3. Once programming is complete choose Exit from the menu, otherwise any changes made will be lost.
4. If required, the camera can be reset to factory defaults by selecting **RESET** in the OSD menu.

Note:
DPC (Dead Pixel compensation): The camera has a feature that can cover most dead pixels that could occur over time. Select DPC under the special menu, Cover the lens to black it out then press the menu key - this may take up to 30 seconds to complete. Once complete the camera will automatically take you to back to the menu structure. If you gain access to the DPC menu and do not want to perform the function, press the up or down button to escape and you will be returned to the previous screen.

Camera OSD Menu

Day/Night	Auto	D/N Level	0~216		
		D/N Delay	1~30 Sec		
		N/D Level	0~206		
		N/N Delay	1~30 Sec		
Color	Return	Ret/End		IR Gain	0~255
B/W	Burst	Off/On		Height	0~15
EXT	IR Smart	Off/On	On	Width	0~15
	IR Level	High/Low		Left/Right	0~15
	Return	Ret/End		Top/Bottom	Ret/End
Exposure	Shutter	1/50, FLK, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/5000, 1/10000, 1/100000, AUTO			
	Brightness	0~255			
	AGC	Off/Low/Middle/High			
	DWDR	Off/On	On	Level	0~63
	Return	Ret/End		Return	Ret/End
Lens	DC				
	Manual				
White balance	ATW1	Color Temp	Manual/Indoor/Outdoor		
	ATW2	Blue	0~255		
	AWC-Set	Red	0~255		
	Manual	Return	Ret/End	Area Sel.	Area 1~2
Backlight	Off			Area State	Off/On
	BLC			Gain	0~25
				Height	0~15
				Width	0~15
	HLC	Level	0~255	Left/Right	0~15
		Mode	All Day/ Night Only	Top/Bottom	0~15
		Return	Ret/End	Return	Ret/End
Image Adj.	Lens Shad.	Off/On	On	Level	0~255
		Return	Ret/End		
	2DNR	Off/On			
	Mirror	Off/On			
	Font Color	Font	0~15		
	Contrast	0~255	ID & Title	0~15	
	Sharpness	0~31	Return	Ret/End	
	Display	CRT	Ped Level	0~63	
			Color Gain	0~255	
			Return	Ret/End	
			Gamma	0~63	
			Ped Level	0~255	
			Color Gain	0~255	
			Return	Ret/End	
			Gamma	0.05~1.00	
			Ped Level	0~63	
			Color Gain	0~255	
			Return	Ret/End	
	Neg. Image	Off/On			
	Return	Ret/End			
Special	Cam title	Off/On	On	Color/Pos/End	
	Motion	Off/On	On	Area Sel.	Area 1~4
				Area State	Off/On
				Height	0~15
				Width	0~15
				Left/Right	0~15
				Top/Bottom	0~15
				Degree	0~15
				View	Off/On
				Return	Ret/End
	Privacy	Off/On	On	Area Sel.	Area 1~8
	DPC	Off/On	On	Area State	Off/On
				Height	0~149
				Width	0~199
				Left/Right	0~200
				Top/Bottom	0~144
				Color	0~15
				Return	Ret/End
Reset	Factory Reset				
EXIT					

Installation

Precautions

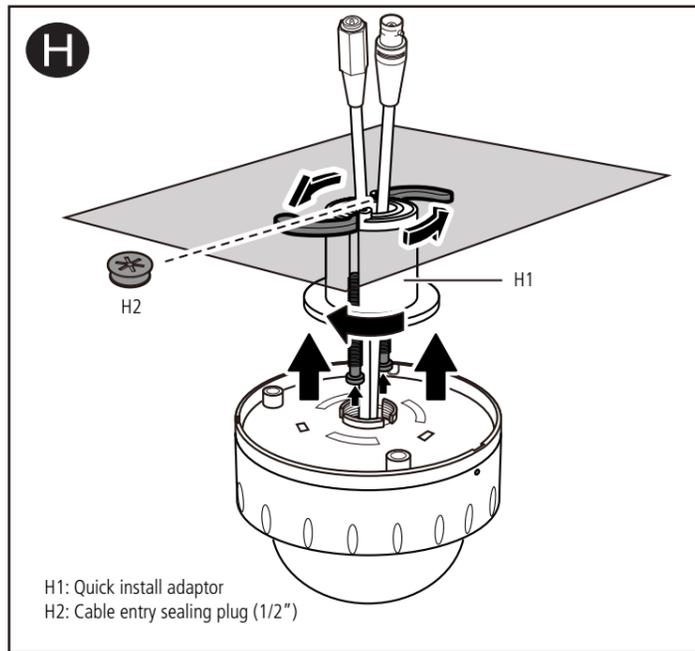
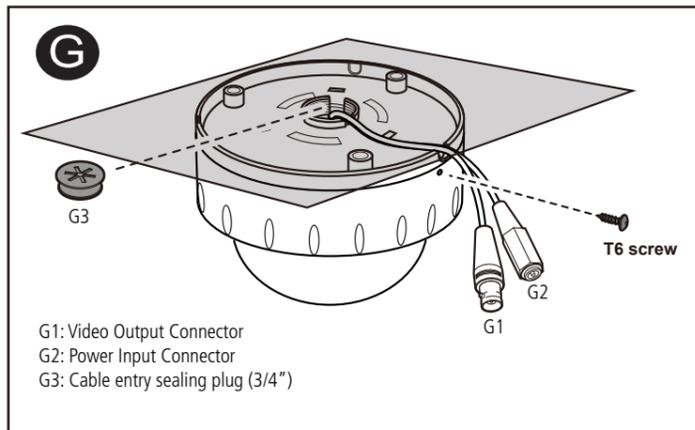
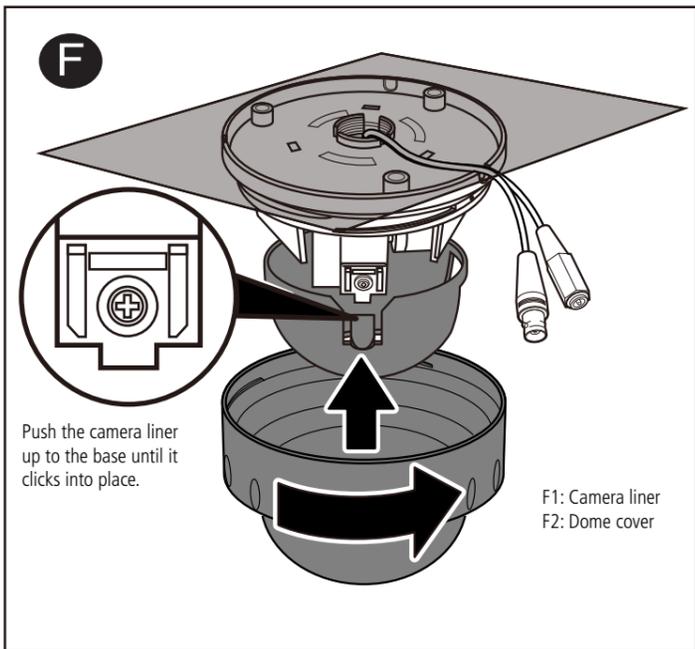
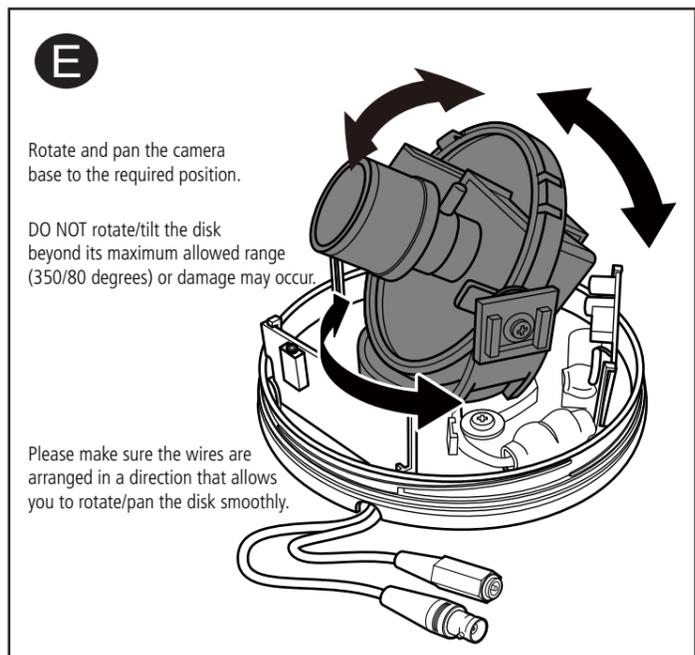
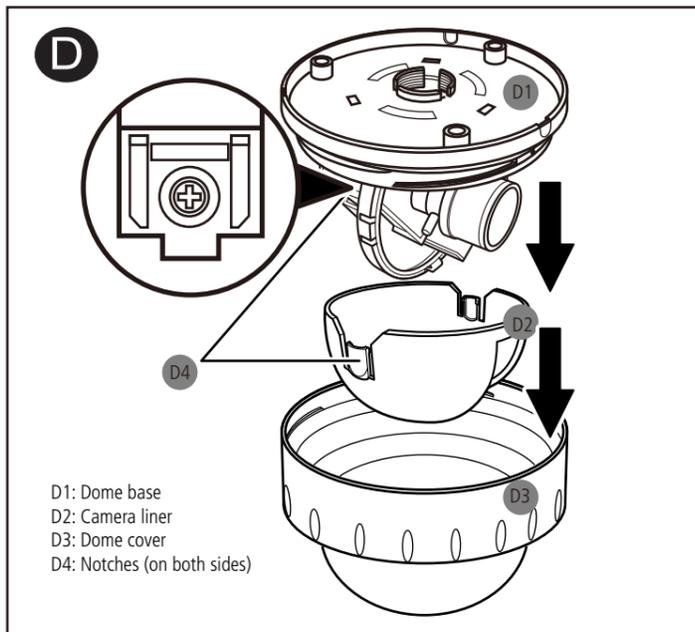
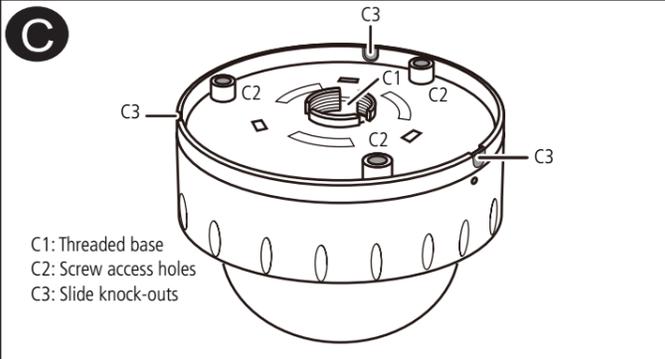
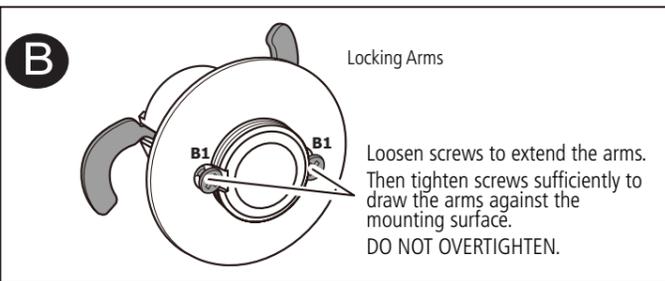
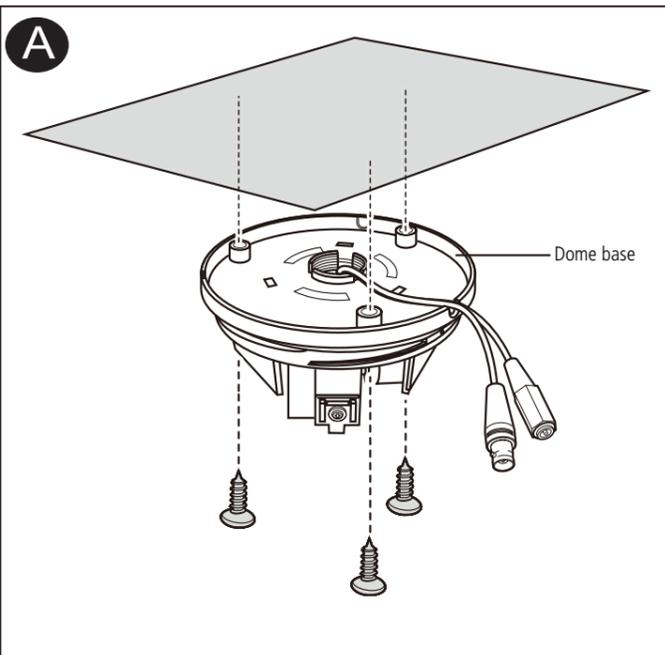
- Do not attempt to dismantle the camera module mounted within the dome. There are no user serviceable parts within the camera module. Refer servicing to qualified personnel.
- Handle the camera with care. Do not abuse the camera. Avoid striking or shaking it. Improper handling and storage could damage the camera.
- Do not operate the camera beyond its temperature, humidity or power source rating. Please refer to the environmental information provided overleaf.

Emissions

- FCC COMPLIANCE:** This equipment complies with Part 15 of the FCC rules for intentional radiators and Class B digital devices when installed and used in accordance with the instruction manual. Following these rules provides reasonable protection against harmful interference from equipment operated in a commercial area. This equipment should not be installed in a residential area as it can radiate radio frequency energy that could interfere with radio communications, a situation the user would have to fix at their own expense.

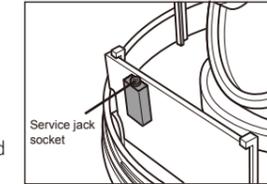
Install Methods

- A. By using the base mounting holes
- B. By using the quick install adaptor



How to install

- Remove the dome cover and the camera liner. Gently turn the dome cover counter-clockwise to unlock and pull free of the dome base. Remove the camera liner by gently pulling it free of the two notches (D4) in the camera base (see fig D).
- Use the template to mark-out and prepare the mounting area. When mounting the dome to a ceiling or wall using screws, first knock out the screw access holes (C2) that correspond to the template marks "D5". This can be done by using a cross-point screwdriver. When mounting the dome to a ceiling using the quick install adaptor, use the template to cut a hole as the circle marked "T5" with a hole cutter (See Step 9).
- Open the required knock-out panel. Use a sharp knife or side cutter pliers to cut one of the side knock-outs (C3) to the size required to allow cable entry. Be careful not to hurt yourself or damage the camera when using knives and side cutter pliers.
- Mount the dome enclosure. Using one of the mounting schemes discussed overleaf (Methods for mounting the enclosure), fix the dome enclosure in place.
- Connect the wiring. Feed the pre-connected main lead (that feeds into the connections G1 and G2) through the appropriate point and connect it to your video out and power in cables. A service jack socket is also provided for temporary video connection when focusing the camera, using an optional service cable (SVC-CABLE).
- Adjust the camera position. You can adjust the focusing position by rotating and panning the camera base (see fig E).
- Install the camera liner. Carefully fit the camera liner (F1) over the camera base so that it snaps into place as shown in fig. F and does not obstruct the camera lens.
- Replace the dome cover.
 - Install 3/4" cable entry sealing plug (G3) on the dome base.
 - Push the cables (G1 and G2) through the dome base and 3/4" cable entry sealing plug (G3), make sure the sealing plug is properly installed on the base.
 - Replace the dome cover (F2) and rotate to close it as shown in fig F.
 - Use the supplied T6 screw to secure the lid and prevent tampering (see fig. G)
- Using the quick install adaptor see figure H.
 - Install 1/2" cable entry sealing plug (H2) on quick install adaptor (H1). Push the quick install adaptor into the appropriate cut out hole.
 - Use the screws to adjust the position of the two locking arms (B1) on the quick install adaptor to adjust to the mounting surface.
 - Push the cables through the opening (H1) and 1/2" cable entry sealing plug (H2), make sure the sealing plug is properly installed on the adaptor;
 - Thread the dome onto the quick install adaptor. This takes about 1 1/2 turns. DO NOT OVERTIGHTEN. Return to Step 5 to complete the installation.



Template

Surface mount (In a wall or ceiling)

Using Quick Install Adaptor:
Create an aperture in the mounting surface to a diameter of 1.3" (35mm) as indicated by "T5".

Using screws: Create three holes at template positions 'D5' of diameter 1/4" (7.5mm) and insert a wall plug into each. Use three D5 screws.

Cable access

The cables are threaded through the base knockout (shown in C1 overleaf). It is threaded for use with the quick install adaptor.

When mounting the dome on a surface with the three D5 screws, use one of the side knock-outs as indicated by C3 shown in fig C overleaf for cable entry. See "Installing the dome enclosure" for instructions on how to drill a hole on the side knock-out.

