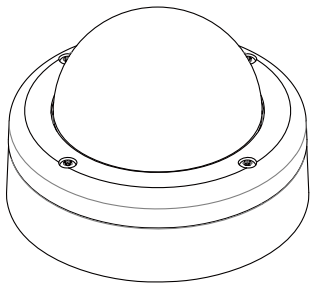




Analog HD Outdoor Dome Camera User Guide



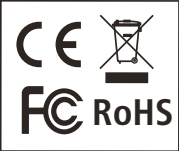
2MP Day / Night
Color Camera

V531-DC037-203
VER. 06/2017

Regulatory Compliance

Emissions: - CE:
- EN55022
- EN55011
- FCC
- 47 CFR Part15 Subpart B
- ANSI C63.4
- ICES-003

Immunity: - CE:
- EN55024
- 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. For any information or inquiry, please contact your local dealer.

Product illustration only for installation or adjustment refere, please take the product as standard.

Please note that the specifications and appearance of this unit are subject to change for further improvements without prior notice.

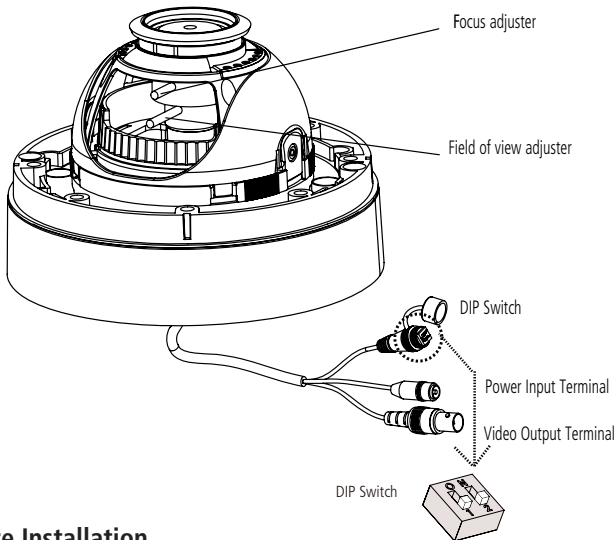
Accessories

- Rubber sealing o-rings x 4
- Torx key bit x 1
- Wall plugs x 4
- T3 1/4" screws x 4
- Rubber caps x 4
- Cable entry grommet (3/4" Grommet fitted to enclosure) x 1
- Threaded sealing plug (1/2" sealing plug fitted to enclosure) x1
- External OSD control cable

Camera Specifications

General Specifications		
TV System		NTSC / PAL
Scanning Frequency		NTSC: 60Hz / PAL: 50Hz
Iris Type		Fixed Iris
Image Sensor		1/2.7" CMOS Sensor
Effective Picture		2 Megapixel
Resolution		1928(H)*1088(V)
S/N Ratio		≥41 dB
Minimum Illumination		0.01 Lux
Video Output		CVBS/AHD/TVI/CVI
IR Distance		20 m
Power Source		DC 12V±10%; AC 24V±20%
Power Consumption		8.64 w
Operating Temperature		-10℃~+50℃
Storage Temperature		-20℃~+60℃
Functional Specifications		
AES		AUTO/1/50(1/60)-1/50000 Sec
BLC		AUTO
AGC Gain Control		Support
Day/Night Control		TDN(External Control/Color/B&W)
White Balance		ATW/AWC/Indoor/Outdoor/Manual
UTC Remotely Transmission		DVR Remotely Control
D-WDR		OFF/AUTO/ON
Defog		OFF/AUTO
Motion Detection		OFF/ON
Privacy Zone		4 Privacy Zone
Sharpness		AUTO/OFF
Digital Noise Reduction		2D/3D NR
Language		English/Simplified Chinese/Traditional Chinese/German/ French/Italian/Spanish Polish/Russian/Portuguese/Dutch/ Turkish
Lens Specifications		
Focal Length		2.8-12 mm 6.0-22 mm
F No.		F1.4-F360 F2.2-F360
Field of View	H	103°-30.8°
	V	74.4°-23.3°
	D	138°-40°

Camera Overview

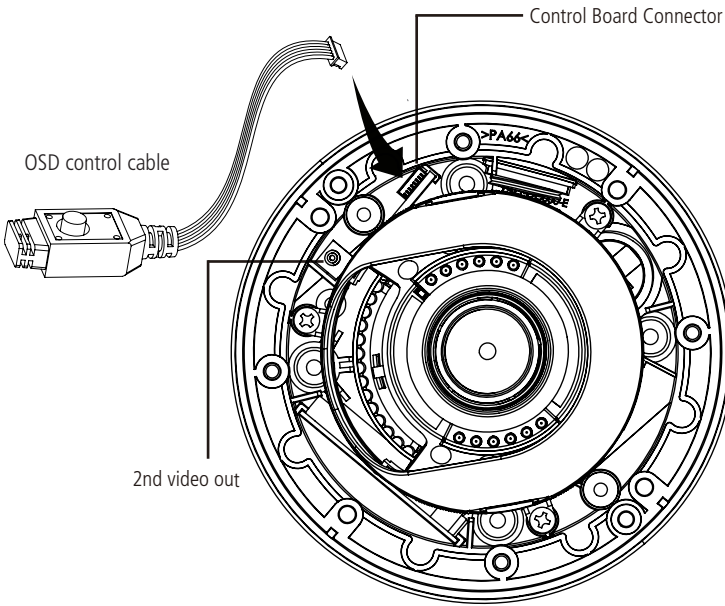


Before Installation

This dip switch cable is for setting of video signal mode, CVBS is set as factory default. If any of HD over Coaxial Technology is available and intend to be used (e.g. DVR, Video Server), please adjust to corresponded video signal before installation according to the required specifications.

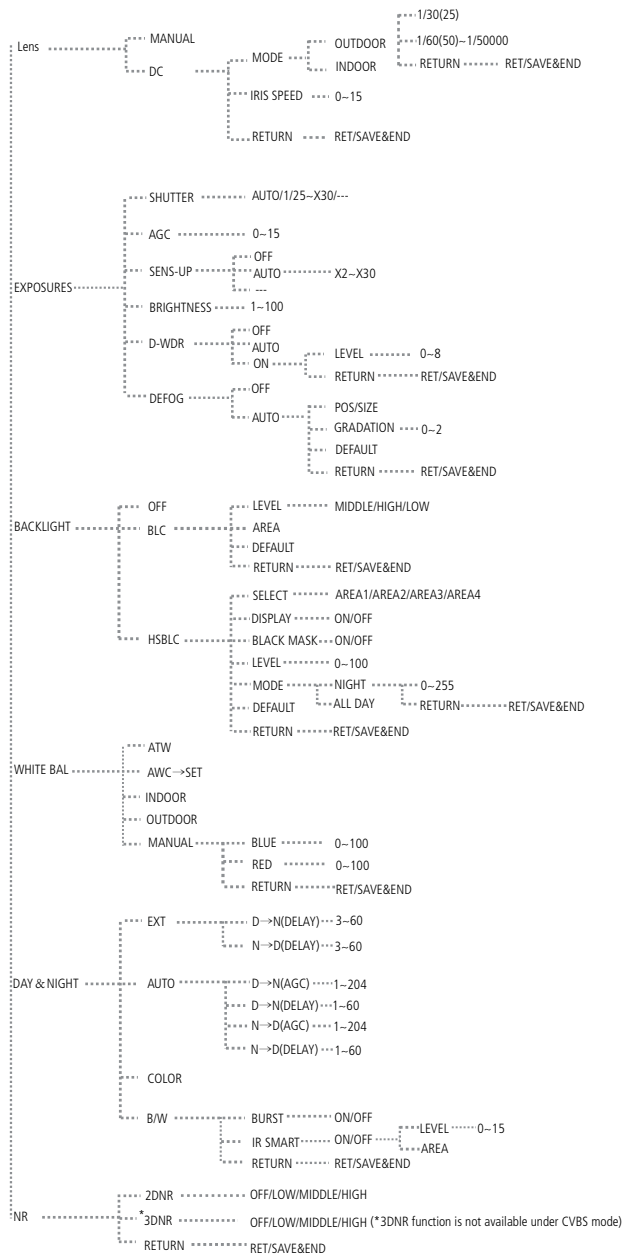


Camera Adjustments

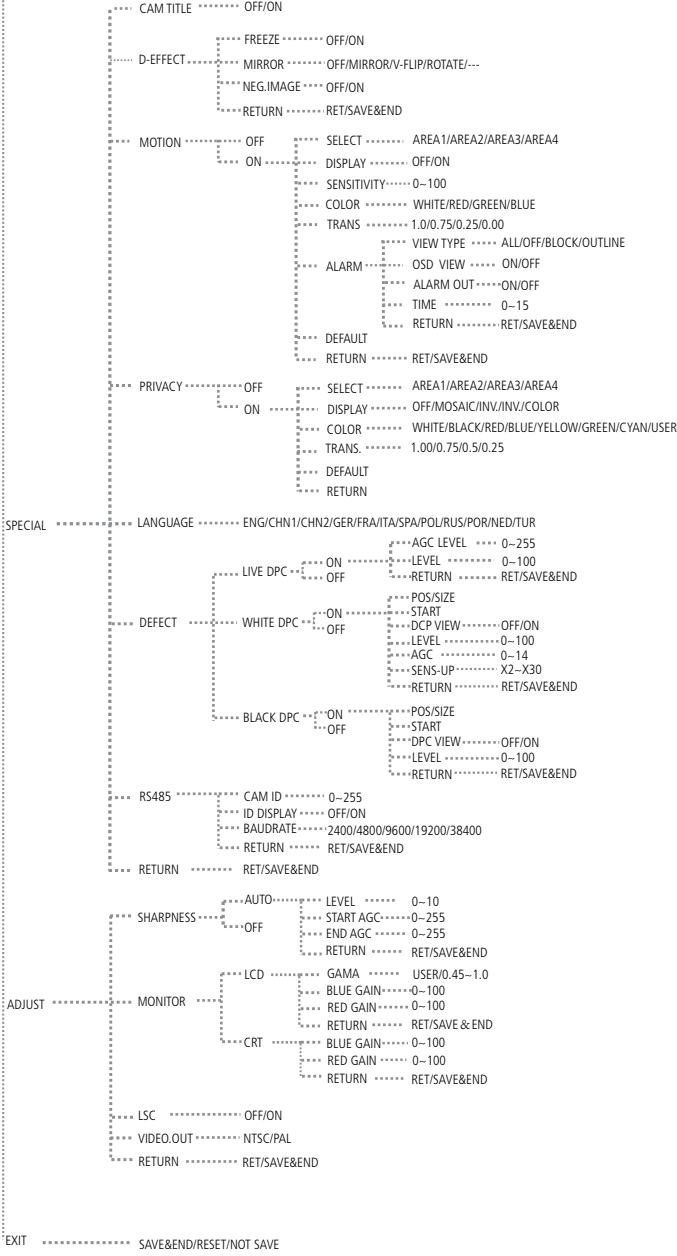


Camera OSD Menu

Page 1



Page 2



Installation



Precautions

- Do not attempt to aim the camera at the sun or other extremely bright objects. This may cause damage to the CMOS and the void of warranty.
- Do not touch the lens or the CMOS by hands while installing or adjusting the camera. This may cause damage to the camera.



Weather Resistance

- IP66 Rated

deView Electronics
1420 Lakeside Parkway, Suite 110
Flower Mound, Texas 75028, USA
Toll Free: 1.877.4deView / 1.877.433.8439

deView Europe
Falcon Court, Petre Road,
Clayton le Moors, Accrington,
Lancashire, England. BB5 5JZ. UK
TEL: +44 (0) 1254 302490

2 Use template to prepare mounting area

Mounting methods

There are three mounting ways:
A: Flush mount using screws
B: Flush mount using locking arms
C: Surface mount using the outer ring
Note: Always use the template provided.

Flush mount
Create an aperture in the mounting surface to a diameter of 4.3"(110mm) as indicated by "T5".

A. Using screws:
Create two holes at template positions "T2" of diameter 1/4"(7mm) and insert a wall plug into each. Use 2 x (no.12 x 1 1/2") screws.

B. Using locking arms:
Place the enclosure (with the locking arms retracted) into the opening. Use a cross-head screwdriver to rotate the screws B1 (See Step 1) until the locking arms, face of the mounting surface. Tighten the screws sufficiently to compress the o-ring moisture seals located underneath the screwleads, however: DO NOT OVERTIGHTEN.

Surface mount
C. Using the outer ring:
Create four holes of diameter 1/4"(7mm) at template positions "T1". Use 4 x wall plugs and 4 x (no. 12 x 1 1/2") screws. When mounting externally, use a rubber o-ring at each mounting hole in the base to ensure moisture resistance.

Cable entry (in all cases)
Use either the base cable entry "T3" or the side cable entry "T4" (or E3 and E4 in Step 3). Both cable entries are threaded for use with locking collars (threads are 1/4" NPT on the base and 1/2" NPT on the side knockout).

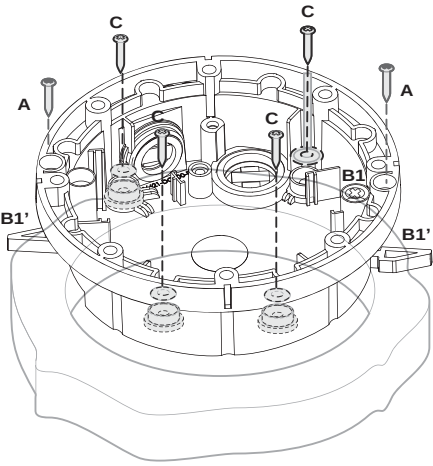
When mounting externally
When mounting externally using the four base holes, use the supplied rubber o-rings (See C in Step 1) within the mounting holes to ensure a moisture resistance. Ensure the cable entry through either knockout panels is suitably sealed against moisture ingress. Regardless of whether the locking arms are used for installation or folded away (in favor of another installation method), always ensure the locking arms screws are tight enough to compress the rubber o-rings to maintain the moisture seal.

Note

- Using one of the mounting schemes discussed above, fix the dome enclosure (and outer ring, if necessary) in place.
- When flush mounting or surface mounting using the outer ring, ensure that the large rubber gasket (E6) is in place under the lip of the dome enclosure.
- IMPORTANT: If the dome is being mounted externally using the four base holes, use the supplied rubber o-rings within each of the four mounting holes of the dome base to ensure moisture resistant seals (see C in Step 1).

1 Prepare the dome for installation

- 1.1 Remove dome cover by loosening four cover screws using the supplied Torx driver.
- 1.2 Remove camera assembly (if fitted) to have the dome ready for installation.
- 1.3 Choose a mounting method from A, B and C to continue to Step 2.



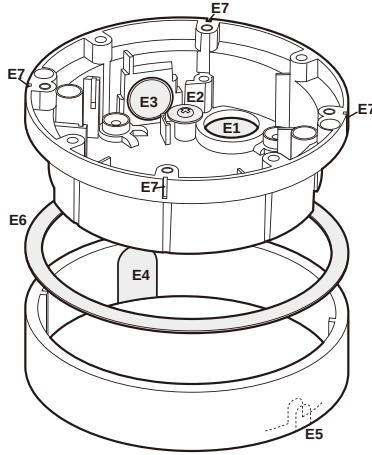
A
Flush mount using screws

B
Flush mount using locking arms
Turn silver-colored screws clockwise to first extend the locking arms and then tighten them against the mounting surface. Tighten the screws sufficiently to compress the o-ring moisture seals located underneath the screwheads, however: DO NOT OVERTIGHTEN.

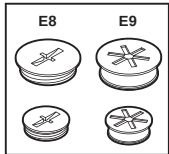
C
Surface mount using outer ring
Rubber o-rings to maintain moisture seal when fixing externally.

3 Open the required cable entry

- Two options for cable entry: either (E1) base cable entry or (E3) side cable entry.
- For surface mount, use (E3) to go with either (E4) or (E5).
- As required, rotate the outer ring to align knock-outs with side cable entry.
- Unused cable entries should be blanked with sealing plugs (E8).
- For internal applications without conduit, a slotted cable grommet (E9) should be used to prevent dust ingress.
- For external applications, conduit should be used to carry cables into the housing.

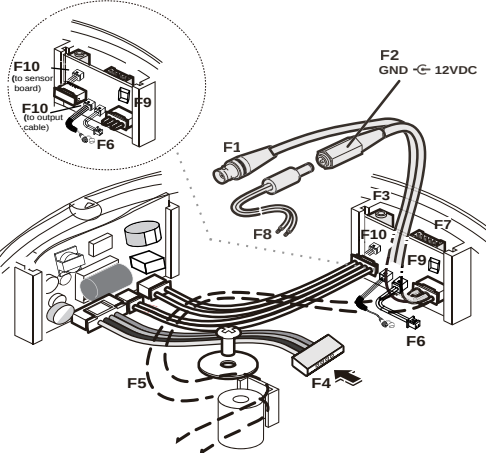


- E1: Threaded base cable entry (1/4" sealing plug (E8) and cable entry grommet (E9) supplied)
- E2: Washer and screw cable retainer
- E3: Threaded side entry (with 1/2" sealing plug (E8) fitted)
- E4: Outer ring large knock-out for conduit entry
- E5: Outer ring small knock-out for cable-only entry
- E6: Large rubber gasket
- E7: Cover index slots
- E8: Cable entry sealing plugs
- E9: Cable access grommet



4 Connect the wiring

- 4.1 Connect F1 and F2 to your video-out and power-in cables.
- 4.2 If needed, use F8 (wire-ended adapter lead) with power supply cables.
Note: (1) 12VDC: Connect the red lead to +ve and black lead to -ve.
(2) 24VAC: Connect either way; polarity is not important.
- 4.3 Connect the camera to F4
- 4.4 To focus the camera, use F3, a service jack for temporary video connection.

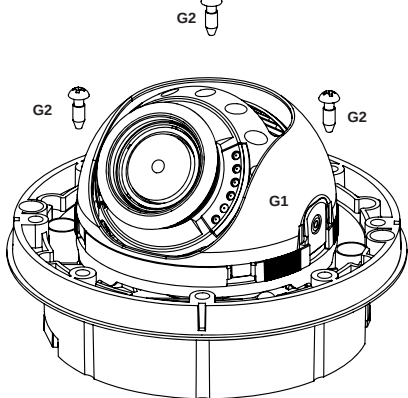


NEC Class 2 / Limited Power Source Supply Required

- F1: Video output
- F2: Power 12VDC
- F3: Service jack socket
- F4: Camera lead fly connector
- F5: Cable trap pillar, washer and screw
- F6: RS485 cable connector
- F7: OSD controller connector
- F8: Wire-ended power adaptor lead
- F9: Heater kit cable connector
- F10: DIP switch cable connector

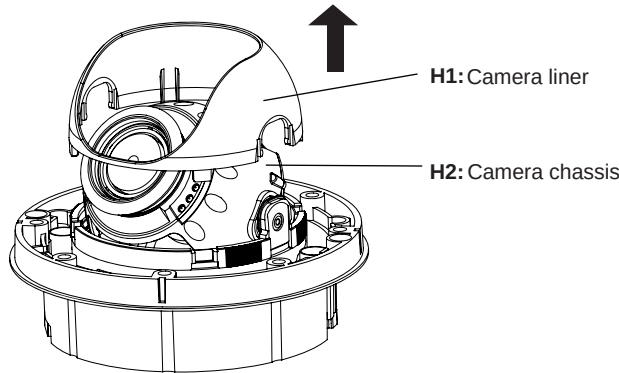
5 Fit Camera Assembly

Place the complete camera assembly (G1) onto the three mounting pillars (G2) and tighten three gimbal screws.



6 Remove camera liner

Lift the camera liner (H1) from the chassis (H2) to provide full access to the camera.



7 Adjust camera position and test

Rotate and pan the camera chassis to the required position and then tighten the camera chassis locking screws.

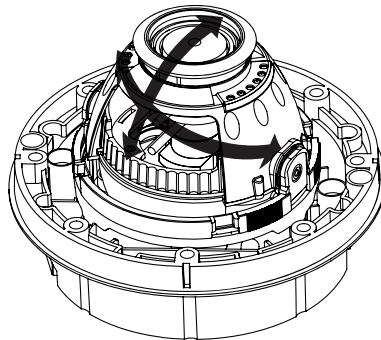
Cautions

To avoid damage to the lens mount, DO NOT USE THE LENS TO POSITION THE CAMERA.

Note: Do not attempt to adjust the camera position by holding the lens as this will cause damage to the camera.

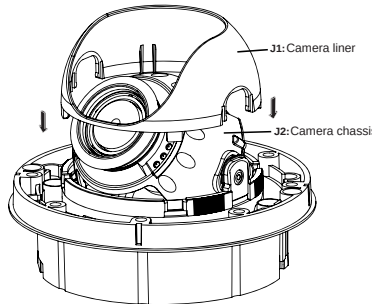
Make adjustments by tilting and rotating the gimbal assembly.

DO NOT rotate/tilt the disk beyond its maximum allowed range (350/80 degrees), or damage may occur.



8 Replace Camera Liner

Carefully fit the camera liner (J1) over the focused camera so that it locates fully on the top ring of the camera chassis (J2) and provides an unobstructed view for the camera lens.



9 Replace Dome Cover

Replace the dome cover (four small internal ribs within the cover locate within four corresponding index slots (E7) within the enclosure body - these restrict the lid to only four possible orientations and ensure that the cover screw holes are correctly aligned). Use the supplied Torx key to tighten the four cover screws. DO NOT OVERTIGHTEN.