

ICED-B3H39
ICED-CM3H39
ICED-CM3U39



BAXALL ICE SERIES
FIXED DOME CAMERAS

⚠ WARNING

- **Installation and servicing is only to be carried out by suitably qualified and experienced personnel.**
- **Mains cameras contain hazardous voltages.**
- **Do not remove covers as there is a risk of injury or death by electric shock.**
- **Only power low voltage dome cameras from a class 2 isolated power supply.**

This camera range is designed for use in general purpose CCTV applications and has no other purpose. Only operate your camera between the temperatures of -10°C and +50°C. Do not operate your camera outside its specified power supply range. Cameras must only be used in clean, dry, dust-free environments unless housed in a suitable protective housing to IP65 or better.

APPROVALS

The manufacturer declares that the product supplied is compliant with the provisions of the EMC Directive 89/336 EEC, the Low Voltage Directive 72/23 EEC and the CE marking directive 93/68 EEC and associated amendments. A "Declaration of Conformity" in accordance with the above directives is held on file with the manufacturer.

CAMERA CARE

⚠ CAUTION

In order to avoid damaging your dome camera, note the following points:

- 1) **Remove all packaging inserts and the protective film from the dome cover before using the camera.**
- 2) **Do not touch the image surface of the sensor. If the sensor is accidentally touched, only clean it using isopropanol.**
- 3) **Do not expose the camera sensor to very bright light over a long period of time as this may cause damage to the CCD. The camera and lens setup must be correct to avoid possible damage due to long term exposure to bright light. A lens with an automatic iris is recommended under these conditions.**

INTRODUCTION

These instructions cover Baxall ICE series fixed dome cameras. Read all of these instructions. Use them to install your camera and have them available for its lifetime. If you have any problems, contact your agent.

Models

ICED-B3H39	Mono high resolution 570 TVL	1/3" SuperHAD™ CCD	0.07 lux at F1.2
ICED-CM3H39	Colour/Mono high resolution 480 TVL	1/3" SuperHAD™ CCD	0.7 lux at F1.2
ICED-CM3U39	Colour/Mono ultra resolution 540 TVL	1/3" SuperHAD™ CCD	0.7 lux at F1.2

All cameras are fitted with a 3-9 mm varifocal lens.

Parts Supplied

2 x Plastic anchors

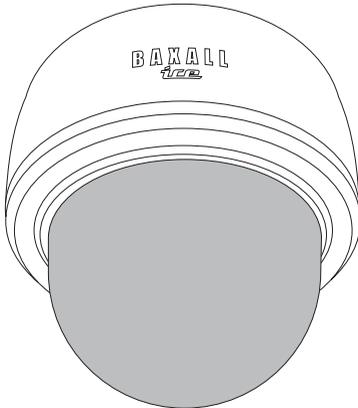
2 x 80 mm (3") screws

1 x Ferrite (ICED-B3H39 only)

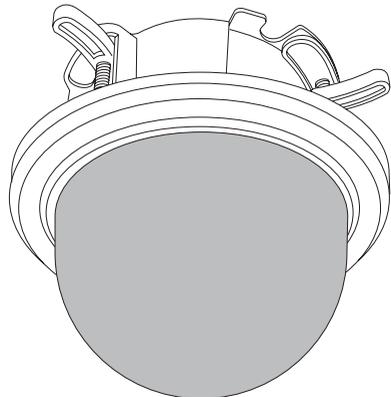
Parts Not Supplied

Optional video service lead (part number ICED-SERV)

The ICE dome camera can be mounted in two ways: Ceiling mount for installation into a tile ceiling; surface mount for installation directly to a hard surface or mounting structure.



Surface Mount



Ceiling Mount

SURFACE MOUNT INSTALLATION

1. To remove the dome cover, rotate it counter-clockwise and gently pull it away from the camera body (figure 1). The inner liner can now be removed.
2. Using the template supplied at the rear of this manual, mark and drill the holes required for fixing. Using the two 80 mm mounting screws (2, figure 2), attach the dome camera to the surface as shown. Do not over tighten the fixing screws. The screws can be used on their own if the surface is of a suitable material (e.g. wood), but plastic anchors (1, figure 2) must be used where the surface is of brick or masonry construction.
Run the power and video cables to the camera. Cables may be fed through the ceiling (3, figure 2) or through the cutout in the side of the camera shroud (4, figure 2). Remove the cutout with a sharp knife and use a round file to smooth the edges if necessary.
3. Connect the video to either the BNC at the end of the flying lead (1, figure 6) or directly to the BNC (2, figure 6). Use only one of the BNC connectors to connect video.

NOTE: ICED-B3H39 only - pass the video lead through the supplied ferrite (4, figure 6) as shown.

Connect the power to the power terminals (3, figure 6). These cameras are designed to operate from a 12V DC or 24V AC power supply. Connections and polarity are indicated next to the terminals. **The power supply must be of UL Listed, Class 2 isolated type.**

RECESS MOUNT INSTALLATION

1. To recess mount the camera, the shroud must be removed. Gently squeeze together opposite sides of the shroud as shown and lift it away from the camera body (figure 3).
2. Using the template supplied at the rear of this manual, mark and cut a 4" (100 mm) diameter hole. A suitably sized hole saw can also be used.

To prepare for installation use a suitable screwdriver to loosen the three fixing clamps sufficiently to accommodate the thickness of the tile or ceiling (figure 4).

3. Connect the video to either the BNC at the end of the flying lead (1, figure 6) or directly to the BNC (2, figure 6). Use only one of the BNC connectors to connect video.

NOTE: ICED-B3H39 only - pass the video lead through the supplied ferrite (4, figure 6) as shown.

Connect the power to the power terminals (3, figure 6). These cameras are designed to operate from a 12V DC or 24V AC power supply. Connections and polarity are indicated next to the terminals. **The power supply must be of UL Listed, Class 2 isolated type.**

4. Insert the camera into the hole. Using a suitable screwdriver, tighten the three fixing clamps as shown (figure 5). Do not overtighten the clamps.

CAMERA ADJUSTMENT

Camera Position

The camera assembly is adjustable in all three axes (figure 7). Adjust the camera until it is pointing in the desired direction.

Field of View and Focus

Use the levers on the varifocal lens to adjust the camera's field of view (1, figure 8), and focus (2, figure 8).

SWITCH SETTINGS

The DIP switches are located on the camera's circuit board (2, figure 9).

Switch	Function	OFF	ON	INT	LL
1	Backlight Compensation				
2	Automatic Gain Control				
3	Electronic Iris				
4	Line Lock				

Default setting
White indicates switch position

Backlight Compensation

The Backlight Compensation (BLC) feature compensates for back-lit scenes by enhancing objects in the centre of the scene which would previously have been in silhouette. Select **ON** or **OFF** using the BLC switch. Default is **OFF**.

Automatic Gain Control

The Automatic Gain Control (AGC) feature can improve picture quality when levels of illumination are low. Select **ON** or **OFF** using the AGC switch. For most applications the AGC feature should be **ON** and is therefore the default setting.

Electronic Iris

The Electronic Iris (EI) feature compensates for excessive light levels by automatically adjusting the shutter speed. For auto-iris lenses, the EI should be set to **OFF**. For manual lenses, EI should be **ON**.

Line Lock

Choose **INT (internal)** or **LL (adjustable)**. The **LL** setting allows $\pm 180^\circ$ phase adjustment via the two LL Phase Advance/Retard buttons (3 and 4, figure 9). Default is **LL**. Pressing both buttons simultaneously will reset LL to the factory default setting. For the ICED-B3H39 camera, LL is adjusted using the LL potentiometer (5, figure 9)

Lens Level

Adjust the lens iris level according to the lighting conditions.

1. Turn the Automatic Gain Control switch **OFF**
2. Adjust the Lens Level potentiometer (1, figure 9) so that a 1 V peak-to-peak signal is achieved. Use care so as not to damage the potentiometer.
3. Turn the Automatic Gain Control switch **ON**

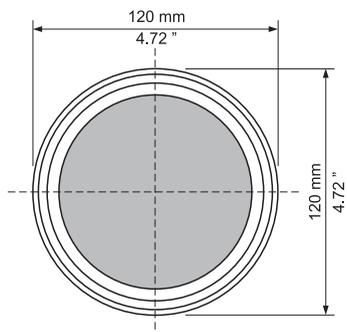
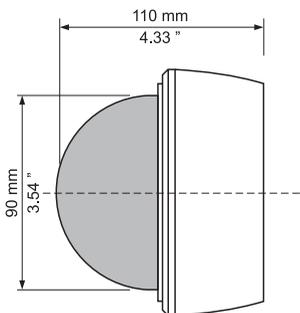
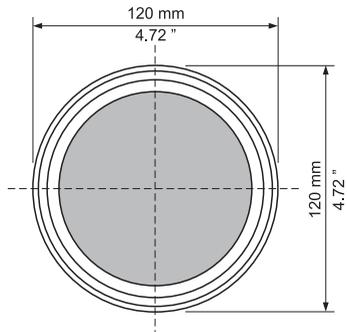
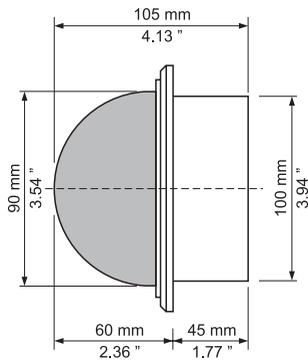
LOCAL VIDEO OUT

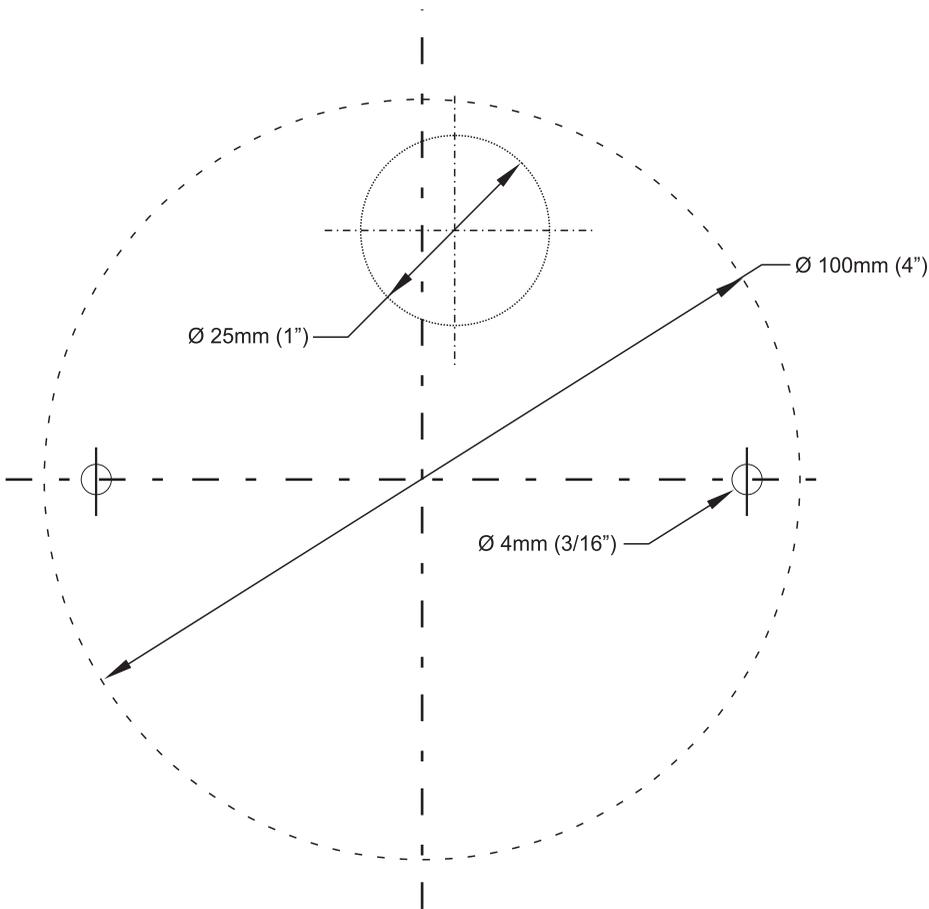
Provision is made for the connection of a local video monitor to assist in setting up the camera (1, figure 10). Use the optional service connector ICED-SERV (not supplied).

FINAL ASSEMBLY

When all the connections and adjustments have been made, reattach the camera liner and dome cover (figure 11).

DIMENSIONS







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Baxall Limited reserve the right to make changes to the product and specification of the product from time to time without prior notice