

## 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.
7. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this apparatus during lightning storms or when unused for long periods of time.
12. 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.
13. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
14. The apparatus shall not be exposed to dripping or splashing.
15. Do not install this equipment in a confined space such as a bookcase or similar unit.

## WARNING

This device is intended for use in public areas only. Surreptitious recording of oral communications is strictly prohibited by US Federal law. The manufacturer recommends posting obvious signs to warn that oral communications are being recorded.

## FCC INFORMATION

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 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 and outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

**ATTENTION:**

INSTALLATION SHOULD BE PERFORMED BY QUALIFIED SERVICE PERSONNEL ONLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE OR APPLICABLE LOCAL CODES.

**Servicing:** Do not attempt to service this product yourself as removing covers expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

**Damage requiring service:** Unplug this product from the wall outlet and refer servicing to qualified service personnel.

**Replacement Parts:** When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**Safety Check:** Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

## 1. INTRODUCTION

This Dome camera is designed for use with Bosch Color Observation Systems only. It combines a high sensitivity sensor with advanced digital signal processing, resulting in a high quality Dome camera with excellent performance even under difficult circumstances.

## 2. STANDARD PACKAGE INCLUDED

- Screws x 2pcs
- Dome camera x 1pc
- Dual twisted pair cable - 15 metres x 1pc
- DFU x 1pc

### 3. INSTALLATION (refer to fig. 1)

To obtain the best results from your new Dome camera, read these instructions carefully before use. Retain the manual for future reference. Recommended for indoor Application Only.

This chapter describes the installation of the Dome camera. For more detailed information about the installation and operation of the system monitor you should consult the monitor manuals.

Remark: When the system configuration is altered, the system monitor needs to check and memorise the cameras and accessories connected to its inputs. This is done automatically when the mains power is switched on (rear switch).

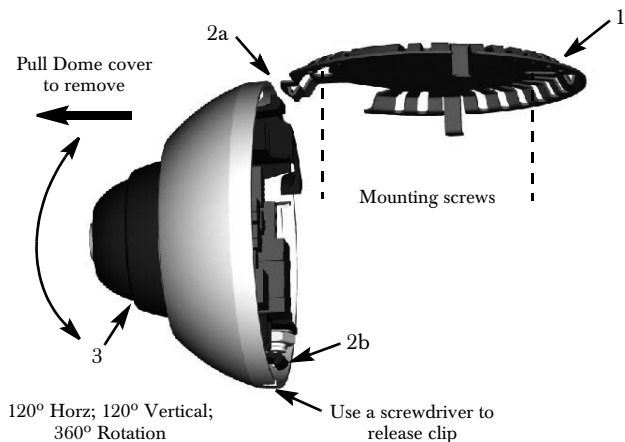


Fig. 1

When you unpack the Dome camera, the physical default position of the camera is that the top of the image is correspondant to the camera 'Bosch' logo side.

Before starting the installation, remove the tinted dome by pulling it off and put it in a safe place to avoid stains and scratches

## MOUNTING THE UNIT:

The unit has two cable entries for:

- Cables' route is through the surface like false ceiling or in a wall (bottom entry)
  - Cables' route is on the surface like concrete wall (side entry)
1. Open the mounting plate (1) by pushing the side tab (2b). You can remove the mounting plate by unhooking from the tab (2a).
  2. Using the mounting plate (1) as template, drill holes for camera mount and cable entry as appropriate.
  3. Connect the Dome camera to the system monitor.
  4. Locate cable into the appropriate routing clip
  5. Fit the camera onto the mounting plate, by hooking the clip (2a), and then ensuring the tab (2b) clicks into it's location.
  6. Connect the system monitor to the mains.
  7. Switch on the mains power switch.
  8. The monitor will check the system. After a short time the Dome camera image will appear on the monitor screen.
  9. If necessary adjust contrast /brightness and/or color (See the View Settings menu of the monitor) to optimize the image on the system monitor.
  10. Adjust the viewing direction of the ball camera (3) and ensure that the picture display on the monitor is level.
  11. Click the tinted dome in place and if necessary clean its surface with a soft cloth.

**Note:**

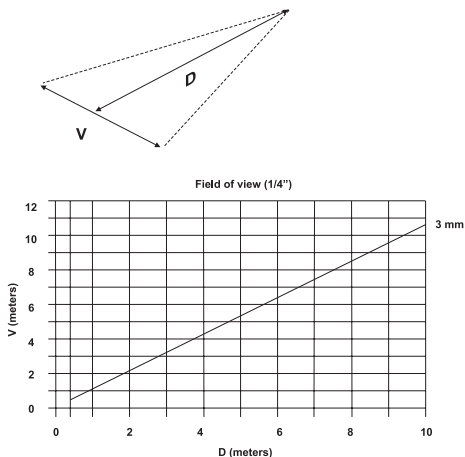
The image sensors in modern CCD cameras are highly sensitive and require special care for proper performance and extended lifetime.

Please follow the guidelines to get optimum results of your camera:

- Do not expose to direct sunlight or bright spotlights in operating and non-operating conditions.
- Avoid bright lights in the field of view of the camera.
  - These bright lights will cause a "smearing" effect, which is visible as white lines above and below the highlight.
  - Bright lights may cause bleaching of the sensor's color filters. This will be visible as colored spots in the picture and is irreversible.

**Field of view**

The figure below shows the Field of view



## Dome camera sound on/off

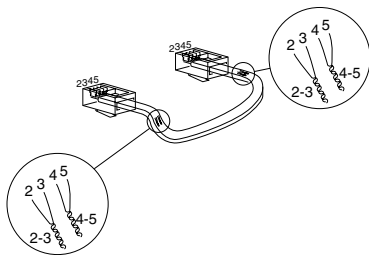
Use the On Screen Display Menus of your system monitor to enable or disable the built-in Dome camera microphone.

## System Cable

For the interconnections between the system monitor and Dome camera 15m/45ft system cable is supplied.

For an optimum picture and sound quality you should always use 4-wire dual twisted-pair cable when extending the connection. The maximum allowed cable length is 200m/600ft.

Pay attention that the connectors are fixed to the cable corresponding to the figure.



### CAUTION:

The plugs used for the observation system have the same dimensions as standard telephone plugs. Never connect a telephone to the Dome camera or system monitor.

## 4. TIPS FOR MAINTENANCE

### Cleaning

You can clean the outside of the Dome camera with a moist fluff-free cloth or shammy leather cloth.

When cleaning the Dome camera lens a special cleaning cloth should be used. Do NOT use cleaning fluids based on alcohol, methylated spirit, ammonia, etc..

Never touch the glass of the Dome camera lens to prevent its delicate coating from damaging.

Avoid direct contact with water.

## 5. SPECIFICATIONS

VCM7D130/00T

PAL

Integrated lens

VC7D1305T

NTSC

Integrated lens

### Accessories

The following Dome camera accessories are available:

- Extension system cables (loop resistance max. 16  $\Omega$  at 100m).
- Cable extension box for providing additional power and cable length compensation to the Dome camera at large distances (up to 300m).

### Electro Magnetic Compatibility (EMC)

This equipment complies with the European EMC directive used standards:

EN50130-4, EN55022

USA standard: FCC part 15, class B

Australia AS/NZS 3548



## Safety

according to European standard EN60065 ; USA UL6500

## Environmental conditions:

Operating temperature	-10°C +45°C
Non operating temperature	-25°C +70°C
Relative humidity Non-condense	0% to 95% RH

Input Voltage, via tp-input:	24VDC
Power consumption, Typical	2.5W
Weight	0.31 kg
Dimensions	Ø 115 mm h = 80 mm

This camera can be connected to a previous generation Color Observation System Monitor at a length of 15 meters. By using an interface box for every camera the cable length can be up to 200 meters.

If you have any problems, contact your dealer.