

# **ORION**

## **Colour-Mono Dome Camera**

**ernitec**

### **Description**

The ORION colour/mono dome camera is designed for installation in most security installations. To provide the finest picture quality, it contains the new generation of advanced DSP colour cameras, with up to 23X optical zoom and 10X digital magnifier (230X zoom).

The new colour camera includes removable IR cut filter and works in very low lux environment. The camera automatically switches over to B/W mode, when there is too little light for colour. By use of IR light the camera can be used for 24 hours surveillance.

The ORION colour/mono dome camera offers a very high pan and tilt speed. In combination with the intelligent zoom control, this allows the ORION dome camera to switch from one viewing area to another in virtually no time.

Auto focus, back light compensation and auto iris control are some of the features incorporated to fit various needs.

RS-485 communication channel is available for remote control purposes, 128 preset points can be



programmed for precise location of target areas; you can also define multiple sequence routes for the camera to operate automatically.

A wide dynamic range of features allows the camera to deliver a clear image even though the field of view contains a bright portion and a dark portion.

Also available in a 22x colour dome camera.

### **Standard Features**

- Automatic colour/black and white change
- 360 continuous pan rotation
- Auto focus
- Variable speed 1~375°/sec. (pan)
- Auto-turn around function performs 180 pan immediately while tracking an object under the dome
- 128 presets
- Home position
- Privacy masking (only 23x version)
- Pan/tilt speed proportional to zoom ratio
- 23x optical zoom, 10x electronic zoom (colour-mono version)
- 22x optical zoom, 8x electronic zoom (colour version)
- Minimum illumination 0.01 lux (23x version)
- Advanced DSP camera
- Auto white balance
- Backlight compensation
- Auto iris control
- Electronic shutter
- Remote control via RS-485
- Built-in 4 alarm inputs
- OSD for camera set-up
- 24VAC model
- Outdoor versions
- Learning tour

# Product Selection

|                |   |
|----------------|---|
| Orion 161-22C  | Orion speed dome colour camera with indoor in-ceiling mount, clear halfsphere, 22 x zoom lens           |
| Orion 361-23C  | Orion speed dome colour/mono camera with indoor in-ceiling mount, clear halfsphere, 23 x zoom lens      |
| Orion 161-22P  | Orion speed dome colour camera with indoor pendant mount, clear halfsphere, 22 x zoom lens              |
| Orion 361-23P  | Orion speed dome colour/mono camera with indoor pendant mount, clear halfsphere, 23 x zoom lens         |
| Orion 461-22P  | Orion speed dome colour camera with outdoor pendant mount, sunshield, clear halfsphere, 22 x zoom lens  |
| Orion 661-23P  | Orion speed dome colour/mono camera. Outdoor pendant mount, sunshield, clear halfsphere, 23 x zoom lens |
| Orion SMSP     | Smoked Sphere Indoor  |
| Orion CA       | Corner Adpater  |
| Orion GNB      | Gooseneck bracket   |
| Orion ST25     | Straight tube 25cm  |
| Orion PSU-I-24 | Power supply unit for indoor use. Voltage 24VAC / 40 watt. Indoor installation only.                    |
| Orion PSU-O-24 | Power supply unit for outdoor versions. Voltage 24VAC / 60 watt. Indoor installation only.              |

## Specifications

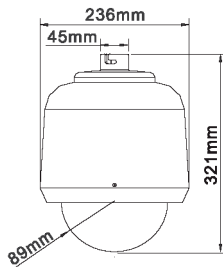
| Camera                           | 23x  | 22x                      |
|----------------------------------|--|--------------------------|
| Sensor device                    | ¼" CCD PAL                                   |                          |
| Video output                     | 1.0 Vpp/75 ohm, BNC connector                |                          |
| Video format                     | PAL & NTSC versions available                |                          |
| Effective number of pixels       | PAL: 724(H) x 582(V)                         | 752 (H) x 582 (V)        |
| Minimum illumination             | 0 Lux (IR iluminator) 0.01 Lux               | 0.1 Lux                  |
| Horizontal resolution            | > 470 lines (colour) 470 lines (B/W)         | > 460 lines              |
| Luminance signal to noise ratio  | > 50 dB                                      | > 50 dB                  |
| Electronic shutter               | 1/1.5 - 1/30K sec.(PAL)                      | 1/1.5 - 1/30K sec (PAL)  |
| Video synchronisation            | Internal or line lock                        |                          |
| AGC                              | Auto/Manual                                  |                          |
| BLC – Backlight Compensation     | On/off                                       |                          |
| AWB – Automatic White Balance    | Auto/manual                                  |                          |
| Lens                             | 23x  | 22x                      |
| Focal length                     | 3.6 - 82.8 mm, F 1.6                         | 4 - 88 mm, F 1.6         |
| Horizontal angle of view         | 47°-2.2°                                     | 54°-2.5°                 |
| Focus mode                       | Auto/manual                                  |                          |
| Zoom speed                       | 3.9 sec / 6.3 sec                            | 4.2 sec / 6.2 sec        |
| Iris control                     | Auto/manual                                  |                          |
| Optical zoom                     | 23 x   | 22 x                     |
| Digital zoom                     | 1x – 10x                                     | 1x – 8x                  |
| Min. object distance             | 0.01m (w) to 1.0m (t)                        |                          |
| Pan/tilt Data                    |  |                          |
| Manual speed                     | 1-90°/sec                                    | 1-90°/sec                |
| Pan speed                        | 375°/sec. (using prepositions)               | 375°/sec (using presets) |
| Tilt speed                       | 375°/sec. (using prepositions)               | 375°/sec (using presets) |
| Pan range                        | 360° (continuous rotation)                   |                          |
| Tilt range                       | 180° (autoflip)                              |                          |
| Resolution                       | 1600 steps/circle (= preset accuracy < 0.3°) |                          |
| Functions                        |  |                          |
| Number of presets                | 128  |                          |
| Preset accuracy                  | 0.5  |                          |
| Zone titles                      | Yes  |                          |
| Privacy mask                     | Yes 2  | No                       |
| Learning tour                    | Yes 1  | Yes 1                    |
| Auto pan                         | Yes  |                          |
| Preset sequence                  | 4  |                          |
| Home position                    | Yes  |                          |
| DSS (Digital Slow Speed shutter) | Yes  |                          |
| IR                               | Yes  | No                       |
| WDR (Wide Dynamic Range)         | Yes  | No                       |
| Number of alarm inputs           | 4  |                          |

## Specifications (cont.)

|                                       |                  |  |
|---------------------------------------|------------------|--|
| <b>Control Interface</b>              |                  |  |
| Protocol                              |                  | Ernitec "ERNA"                                 |
| Electrical interface                  |                  | RS-485, 2400 bps.                              |
| <b>Physical Characteristics</b>       |                  |  |
| Size (diameter x height)              |                  | Please see the drawings on the following pages |
| Weight - In-ceiling mount             |                  | 1.50 kg  |
| Weight - Pendant mount                |                  | 6 kg   |
| Weight - Outdoor pendant / sunshield  |                  | 7 Kg   |
| Halfsphere finish                     |                  | Clear  |
| Transparent dome size                 |                  | 128 mm   |
| Mounting options for pendant versions |                  | Ceiling, wall, corner                          |
| <b>Power</b>                          |                  |  |
| Voltage supply                        |                  | 24 VAC   |
| Power consumption:                    | Indoor versions  | 14 VA  |
|                                       | Outdoor versions | 55VA   |
| <b>Environmental Characteristics</b>  |                  |  |
| Operating temperature:                | Indoor versions  | 0°C to +60°C*                                  |
|                                       | Outdoor versions | -40°C to +60°C (with heater)                   |
| Humidity                              |                  | 0% to 85%                                      |
| Enclosure, pendant versions           |                  | IP 66  |
| Safety                                |                  | EN 60950                                       |
| EMC/EMI                               |                  | EN 55022, EN 50082-1, EN 50081-1               |

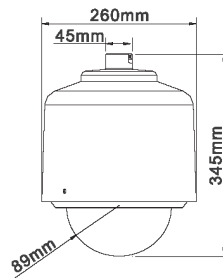
\* Max. +40°C recommended

## Housing Dimensions



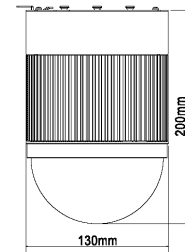
### Indoor Pendant Dome

- Built-in fan
- Optical clear dome cover
- Brackets available
- Extension tubes available
- Environmentally sealed and for use in temperatures between 0 to +40 degrees celcius
- Power input 24VAC
- Heater (option)



### Outdoor Pendant Dome

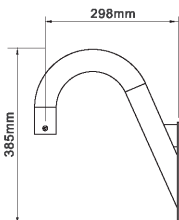
- Sunshield
- Optical clear dome cover
- Brackets available
- Extension tubes available
- Environmentally sealed and for use in temperatures between -20 to +50 degrees celcius
- Power input 24VAC
- Heater
- Built-in fan



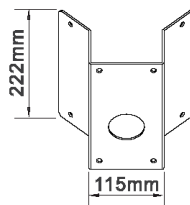
### Indoor Ceiling Dome

- Clear dome cover
- Extension tubes available
- Power input 24VAC

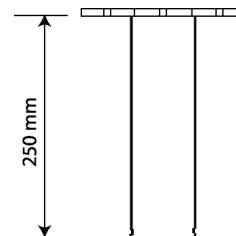
## Brackets



Gooseneck bracket

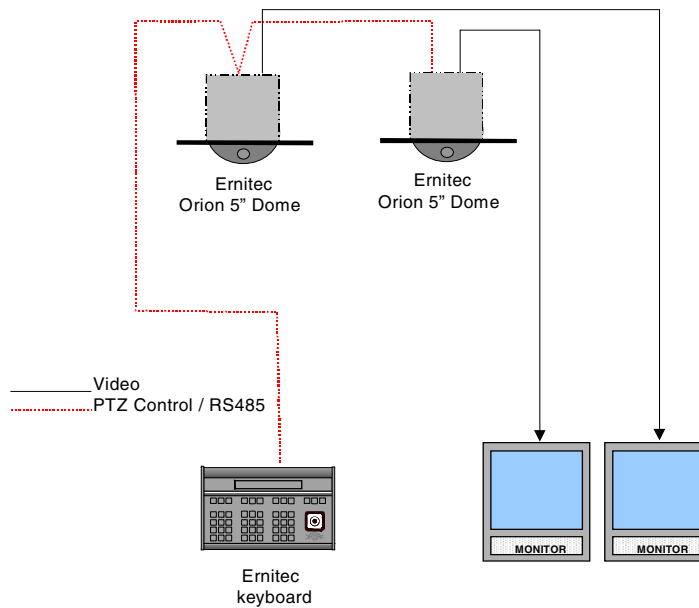
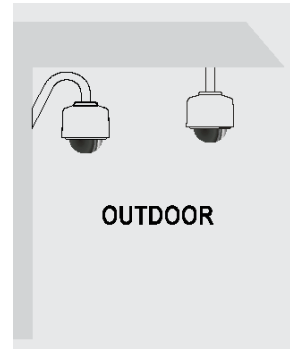
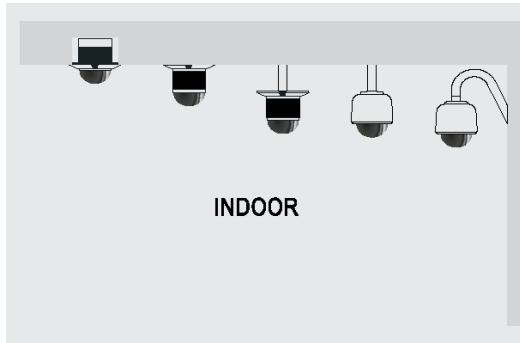


Corner mount



Straight tube 25cm

# Placement Examples



### Denmark Head Office

Ernitec A/S  
Hørkær 24  
2730 Herlev  
Denmark  
Phone: +45 44 50 33 00  
Fax: +45 44 50 33 33  
ernitec@ernitec.dk  
www.ernitec.com

### French Branch Office

Ernitec France  
N° 29 Parc Club du Millenaire  
1025 Rue Henri Becquerel  
34036 Montpellier cedex 1  
France  
Phone: 04 67 15 10 15  
Fax: 04 67 64 01 81  
ernitec@ernitec.fr  
www.ernitec.com

### German Branch Office

Ernitec GmbH  
Stormannring 28  
22145 Stapelfeld  
Germany  
Phone: 040 67 56 25 0  
Fax: 040 67 56 25 25  
ernitec@aol.com  
www.ernitec.com

### UK Branch Office

Ernitec UK  
Gerrard House  
Worthing Road  
East Preston  
West Sussex BN16 1AW  
England  
Phone: 01903 77 27 27  
Fax: 01903 77 27 07  
sally@ernitec.co.uk  
www.ernitec.com

### Middle East Office

Ernitec ME  
Hamra - Makdesi Street  
Younis Center - 5th floor  
Office no. 503  
P.O.Box: 113/5721  
Beirut  
Lebanon  
Phone: +961 1 751 796  
Fax: +961 1 751 795  
Malek\_kabrit@ernitecme.com  
www.ernitecme.com