

# Product Information

## High Speed Dome Cameras

### High Speed Dome Cameras with 460 TV lines resolution (mono, colour and TRI-Q version)

#### Product Data

- 4.1 – 73.8 18:1 motorzoom lens + 4x digital zoom
- “Privacy Zones” / tour function
- backlight function
- max. 400°/sec. during preset call
- max. 100 preset positions
- RS485 BUSTRONIC interface
- incl. electronic frame integration
- 8 alarm inputs / 2 relay outputs



#### Description

videotronic infosystems high speed dome cameras offer extensive features at small dimensions. The following versions are available:

1. **Indoor**

5" sphere with a dark dome cover, colour 460 TV lines, incl. frame integration for low light performance, 24 VAC, suitable for ceiling, pendant and wall mount. Bracketry for pendant and wall mount optional.

2. **Outdoor**

8" sphere with a dark dome cover, colour 460 TV lines, incl. frame integration for low light performance, 24 VAC, IP 65, suitable for wall mount, option: corner mount.

3. **Outdoor Colour/Mono IR sensitive**

8" sphere with a dark dome cover, colour/mono (I.R. sensitive) TRI-Q multi-spectral camera 460 TV lines, incl. frame integration for low light performance, IR sensitive for night operation in combination with IR light, 24 VAC, IP65, suitable for wall mount, option: corner mount.

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# High Speed Dome Cameras

## Function Overview

### Sensitivity

The domes are using a very sensitive 1/4" CCD camera body:

0.04 lux at the faceplate for colour mode with frame integration active

0.001 lux at the faceplate for b/w mode with frame integration active

Even without the frame integration activated the camera delivers nearly noise free pictures down to a lux level of only 0.1 lux in b/w mode and 1 lux in colour mode.

### Lens Unit

The integrated 18:1 motorzoom lens starts at 4.1mm (wide angle) and ends at 73.8 mm. This makes it possible to have a good overview or to clearly make out objects that are far away (e.g. 100 m). The integrated 4x digital zoom function allows a maximum enlargement of 72:1. The speed of the pan/tilt unit automatically adjusts in correlation to the lens position in 18 steps: it will get slower the more the lens is zoomed in and quicker the more the lens is zoomed out.

### Privacy Zones

The privacy zone function makes it possible to mask certain picture areas. These areas cannot be viewed – even when the PTZ head pans, tilts, or when the focal length is altered. Up to 25 individual zones can be marked as privacy zones.

### Tour

The camera can “learn” certain tours. During the learning process (up to 4 individual tours are possible) the parameters for pan, tilt, zoom and focus are recorded. The PTZ head goes through the complete tour (with the previously “learned” settings/parameters when the tour is selected afterwards).

### Electrical Functions

The sophisticated TTL auto focus ensures that the domes always deliver crystal clear and sharp pictures, independent of the actual zoom position. Naturally, the lens comes with an integrated auto iris function. The internal microprocessor unit monitors other internal adjustments such as gain, exposure time, brightness etc. All domes are fitted with a powerful backlight function.

# High Speed Dome Cameras

## Speed

Any dome is called "high speed" but not all of them really are. The videotronic domes are truly high speed, because a maximum speed of 400°/sec. surely is among the highest speeds available on the market. But not only speed is crucial, also slowness is important, especially when the zoom lens is fully zoomed in. The speed of the dome can be reduced to 2°/sec. - slow enough to recognise all relevant details. Continuous pan (360°) and flip function (180°) are further benefits. Flip function means that if the object moves through underneath the dome, the complete camera unit is turned vertically by 180°.

## Control

Serial control (twisted pair) of the domes is done via the RS485 BUSTRONIC. With the optional keyboard KB-485 any number of domes can be controlled. The offset function is guaranteed when using videotronic matrix switchers (VMS-16/2 and Crosstronic). The RS485 section is protected against active and passive interference by optocoupler. The power supply unit is electrically isolated.

## Presets and Panorama Function

Each dome stores up to 100 presets that can be called manually from a controller or via alarm contacts (optional via 65-IN-485 BUSTRONIC). Moreover, each dome has a panorama function (tour) of up to 100 presets that can be activated and programmed from the controller.

## Alarm Inputs and Control Outputs

The dome cameras have 8 alarm inputs directly at the camera. They furthermore provide 2 relay contacts for controlling components. Control is carried out via the BUSTRONIC connection to the central technology.

## Construction

The indoor dome has a very compact size of only 5", the outdoor dome has a diameter of 8" which offers highest possible freedom to choose the required camera location.

# High Speed Dome Cameras

## Versions

### *HDI-5DE-II*

false ceiling mount version for indoor use, 5" diameter (w/o illustration)

### *HDI-5DA-II*

dome version for indoor use for wall or ceiling mount with optional mount. The camera is housed in a housing with a diameter of 5". Several ceiling mounts with different lengths from 8 cm (cf. illustration) to 3 m are available. A curved wall mount is also optionally available. The camera modules can be easily connected to the mounts due to the special, mounting-friendly couplings.

### *HDA-865-II*

Outdoor dome camera for wall mount or pole mount (with optional adapter). The camera is housed in a housing with a diameter of 8".

### *HDA-865/TRI-Q-II*

As above but with day/night (IR camera module).



# High Speed Dome Cameras

## Technical Specifications

Type	5" HDI-II Series	8" HDA-II Series	8" HDA Series TRI-Q-II
Scanning system	CCIR/PAL		
Camera	1/4" CCD camera		
Horizontal resolution	460 TV lines		
Frame integration	yes		
I.R. sensitive	no	no	yes
Lens	18:1 motorzoom + 4x digital		
Focal range	4.1 – 73.8mm/F1.4-3.0		
Digital zoom	72:1		
Focus	TTL auto focus		
Iris	automatic		
Min. illumination in front of the lens	1 Lux	1 Lux	0.1 Lux (mono)
Min. illumination in front of the lens with active frame integration	0.4 Lux	0.4 Lux	0.4 Lux (colour) 0.01 Lux (mono)
Backlight function	yes		
Synchronisation	internal		
S/N ratio	> 50dB		
Operating temperature	-10° up to +50° C	-10° up to +50° C special version for up to - 25° C available on request	-10° up to +50° C special version for up to - 25° C available on request
Variable pan speed	2° - 50°/sec., max. 400°/sec. during preset call		
Pan range	360° continuous		
Variable tilt speed	2° - 50°/sec., max. 400°/sec. during preset call		
Tilt range	90°		
Presets	100		
Panorama tour	yes / 4		
Positions per tour	max. 100		
Privacy zone function	25 zones (total)		
Alarm inputs	8 control inputs		
Control outputs	2 relay outputs		
180° flip function	yes		
Control via	RS485 BUSTRONIC		
Addressing via	DIL switch		
Alarm control via	65-IN-485 (option)		
Controller	KB-485		
Power supply	24 V/AC via PSU		
Weatherproof IP65	no	yes	yes
Mounting options	- Ceiling mount, - ceiling pendant mount and wall mount	- Wall mount, option: corner mount	- Wall mount, option: corner mount
Bracketry	Option	Included	Included
Dimensions W x H	148 x 215 mm (wall mount)	425 x 370 mm incl. wall mount	425 x 370 mm incl. wall mount

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Errors and omissions excepted.

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