Product Information

HDI-TDN

1/6" Colour/Mono/Infrared High Speed Dome Camera with 460 TV Lines Resolution incl. 25x Optical Zoom

Product Data

- 2.4 - 60 mm 25x motorzoom + 12x digital zoom
- max. 240° / second during position call
- switches between day- (colour) night- (mono) infrared
- integrated infrared cut filter that can be mechanically removed
- "privacy zone" function / area tour
- frame integration / image stabilisation
- manual flip function / backlight function
- up to 64 preset positions / preset tour
- RS485 BUSTRONIC® interface

Description

24 hour surveillance and reliably 360° in sight - no problem with the high speed dome camera HDI-TDN.

The dome camera is fitted with a 1/6" CCD with a very high resolution of 460 TV lines. It has a 25x zoom lens and a 12x digital zoom. The 2.4 - 60 mm lens in combination with the high resolution 1/6" CCD results in a large monitoring radius (tele) and good overview (wide angle).

In addition to high quality colour processing the camera convinces with a special image stabilisation function that results, especially in tele-operation, in jerk-free images even if the camera is, for instance outdoors, subject to influence of the weather. This is achieved with a CCD chip with more than 800,000 pixels and corresponding reserve for signal processing.

Another highlight of the camera is the automatic switching between colour and mono. This allows to work with natural colour images during the day and with mono images in the night. Due to its mechanically removable IR cut filter the HDI-TDN dome camera has a very high sensitivity to light in mono operation and thus also allows operation with infrared light.

The frame integration function with 4 different levels results - by adding images up in an internal memory - to increase the sensitivity by the factor 15. This makes it possible to achieve good results even in areas with very bad illumination. In standard operation the camera requires a minimum illumination of 3 lux, in frame integration mode only 0.2 lux are required.

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The HDI-TDN dome camera allows to make brilliant video images under nearly all types of illumination, resulting in a good basis for perfect video surveillance.

In addition to pure image functions the camera has several other special functions that allow professional video surveillance.

The camera can tilt 360° without end stops and can call up to 64 different preset positions with a maximum speed of 360° / second. Precise control of the dome is naturally very important, especially at high zoom factors. The speed of the pan/tilt unit of the camera is adjusted in correlation to the lens position. Thus it is reduced to such an extent that all important details can be made out even if operated in tele range. Continuous panning (360°) as well as an automatic 180° flip if the monitored object traverses under the dome (the complete camera unit is vertically turned for 180°) are further highlights of the dome.

Other functions are the auto-pan function (with adjustable time) and a tour sequence for automatically going to different preset positions.
Each dome stores up to 64 positions that can be called either manually via the keyboard KB-485 or alarm-controlled (optional via 65-IN-485 BUSTRONIC®). In addition to the preset function the camera has a home position in which the camera stops in standard operation.

The camera can learn an area tour. During the learning process the parameters for pan, tilt, zoom and focus are recorded for a period of up to 60 seconds. The dome goes through the complete tour (with the previously "learned" settings/parameters) when the tour is selected afterwards.

The privacy zone function makes it possible to mask a specific picture area. This area (one zone) cannot be viewed – even when the dome pans, tilts, or when the focal length is altered.

A high quality 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 and with a powerful backlight compensation.

An extensive text display function allows to display the following data in the image:
- individual area titles (8 different areas) à 12 characters
- preset names for all 64 presets à 12 characters
- camera name à 12 characters

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The high speed shutter function allows to clearly display objects even if they move very fast. The optimal shutter setting for the task at hand can be selected in 16 steps between 1/50 and 1/10,000 second.

Serial control of the dome cameras is carried out via RS485 BUSTRONIC®. Any number of domes can be controlled via the optional keyboard KB-485. Furthermore guaranteed are the offset function when using the videotronic infosystems matrix switcher (Crosstronic II) or integral**net** central technology (DIT**rec**/NET**rec** via VNI modules).
The RS485 unit is protected against possible interference by an optocoupler. The power supply unit of the camera is electrically insulated, thereby preventing hums in the video image.

A linelock - sync - function allows to synchronise all cameras of the surveillance system (230 V net).

With a diameter of just 16 cm the camera can be housed in the modern dome housings and can be used in the most different areas. The accessory for mounting the dome to a ceiling (surface mount) is included in the scope of delivery.

Housings for outdoor applications are optionally available.

HDI-TDN/GA
Housing adapter for assembling the dome camera
HDI-TDN into one of the housings described below
HDA-G/S
For mounting the cameras e.g. under ledges.
The housing is IP66 protected and fitted with
fan and heater. The housing's mounting base
houses all connections for the signals and the
power supply unit that provides the operating
voltage.

HDA-G/W
As above for wall mount.
MA-HDA-G/W
Adapter for mounting the HDA-G/W to a pole.

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Technical Specifications

Scanning System	CCIR / PAL
Sensor	1/6" CCD, 800,000 pixels
Line Resolution	460 TV lines
Field Integration	auto / manual (1/25 - 1/4)
IR Sensitivity	yes, day / night mode, ICR switchable
Zoom Lens	25x zoom + 12x digital
	2.4 - 60 mm / F1.6 - 2.7
Digital Zoom	12x digital (total 300x)
Focus	auto focus / manual focus
Iris	auto iris
Video output	1 Vpp/75 ohm
Min. illumination	3 lux
Min. illumination with frame integration	0.2 lux for colour / 0.01 Lux for monochrome
Backlight compensation	Super BLC / BLC / wide dynamic range
Sync system	internal
S/N ratio	> 48 dB (AGC off)
Operating temperature	0° to + 50° C
Variable pan speed	0.8°-120°/sec. at manual control
	up to 240°/sec. by preset control
PAN coverage	360° continuous
Variable tilt speed	0.8°- 120°/sec. at manual control
	up to 240°/sec. by preset control
Tilt coverage	90°
On screen display	yes
Programmable preset	64
Privacy zones	yes
Tours	yes
Programmable tour	yes
Home position	yes
180° flip function	yes
Control via	RS485 Bustronic
Keyboard	KB-485
Addressing via	DIP Switch
Power supply	12 VDC
Mounting options	Ceiling, outdoor housing
Dimensions (diameter x H)	160 x 210 mm
Weight	2.1 kg

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