

HIGH-DEFINITION CAMERA



High-definition camera (HD camera) is intended for the use as a part of video control, security and videoconference systems and other processing equipment.

Due to complex video processing HD cameras provide the image highest quality with middle level lens.

HD cameras compress video images frame-by-frame with high zoom that makes them ideal for automatic identification and recognition systems. Reduction of frame frequency for output video stream due to its decimation is provided thus reducing data flow from HD camera without moving object image degradation and maintaining video compression efficiency.

HD camera is incorporated in the systems and complexes built according to network architecture. Data exchange, control and power supply are by one cable (UTP 5).

HD camera automatically controls its parameters and operation modes to provide the highest quality of the image pursuant to its settings. HD camera setup and settings changing are carried out remotely (by operator or software).

HD camera is for operation in a wide temperature range (-45°C...+50°C) with the cold start at 30°C below zero.

The camera is fixed at the Consumer by one or two screwed connections located at the top or bottom part of the casing. Screwed connections are 1/4-20 UN-2B ISO 263-1973 (standard screwed connections for photographic and video equipment).

To prevent frost-dew or dew formation, HD cameras provide optics heating. Additional heating of HD camera or camera optics is not required.

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Specifications

Characteristics	Parameters
Visual sensor used	CMOS, 5MP (2592x1944), 1/2,5" Colored or monochrome
Operating vertical resolution (for TV lines)	1264 TV lines (1944p) 702 TV lines (1080p)
Operating vertical junction resolution as per ISO12233 for MTF ₅₀ level	With middle level lens min 790 TV lines (1080p colored) min 850 TV lines (1080p monochrome)
Dynamic range as per ISO15739, dB	min 60
Exposure time, sec.	1/30 ... 1/50 000
Illumination range in HD mode	1 lux ... 117000 lux (colored) from 0.3 lux (monochrome)
Frame frequency for HD pictures, sec.	up to and including 25fps — HD 1080p, up to and including 14fps — HD 1944p
Image, video stream	Without compression — BMP, JPEG compression — MJPEG
Information channel	Ethernet 1Gbit /100 Mbit/10 Mbit
Power supply	PoE class 0 according to IEEE802.3af (5W max) (by main and backup lines)
Data communications protocol, monitoring logic	HTTP, WEB IP video camera
Distance across the wire, m	Guaranteed 120
Built-in lightning arrester	Galvanic isolation with breakdown voltage up to 1.5 kV
Environmental operating temperature range, °C	-45 ... +50
Overall dimensions (without lens), mm	44 x 44 x 81
Weight (without lens), g	220 (max)
Applied lens systems	C, CS type



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