

Code: DS-2DE4220IW-DE

## IP SPEED DOME CAMERA OUTDOOR **DS-2DE4220IW-DE** - 1080p 4.7 ... 94 mm Hikvision

IP camera equipped with very good high resolution sensor. Due to above it is perfect solution for surveillance systems requiring persons or vehicles recognition.

Built-in IR illuminator allows to operate at night conditions, and vari-focal lens with wide range of view angle adjustment enables optimal set the view field of camera to all conditions. The range of IR illumination according to the manufacturer data, depends on outer conditions (visibility - air transparency, environment, wall colors ie. scene reflectance).

PoE powering possibility, compatible with the 802.3at standard makes the device more universal and easier to install.

For a few models of IP cameras working at  $\geq 1920 \times 1080$  resolution we recommend to use of network with 1Gb/s bandwidth.



|                           |                                                                         |
|---------------------------|-------------------------------------------------------------------------|
| Standard:                 | TCP/IP                                                                  |
| Sensor:                   | 1/2.8 " Progressive Scan CMOS                                           |
| Matrix size:              | 2.1 Mpx                                                                 |
| Resolution:               | 1920 x 1080 - 1080p<br>1280 x 960 - 1.3 Mpx<br>1280 x 720 - 720p        |
| Scanning system:          | Progressive                                                             |
| Lens:                     | 4.7 ... 94 mm                                                           |
| View angle:               | 58 ° ... 3.2 ° (manufacturer data)<br>55 ° ... 3.5 ° (our tests result) |
| Optical zoom:             | x 20                                                                    |
| Digital zoom:             | x 16                                                                    |
| Range of IR illumination: | 100 m                                                                   |
| S/N ratio:                | > 52 dB (AGC off)                                                       |



# DATA SHEET

|                                  |                                                                                                                                                                                                                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video output:                    | —                                                                                                                                                                                                                                                                                |
| Preset rotation speed:           | 80 °/s                                                                                                                                                                                                                                                                           |
| Rotation speed (manual control): | 0.1 °/s ... 80 °/s (horizontal)<br>0.1 °/s ... 80 °/s (vertical)                                                                                                                                                                                                                 |
| Horizontal rotation range:       | 360 ° - continuous                                                                                                                                                                                                                                                               |
| Vertical rotation range:         | -15 ° ... 90 °                                                                                                                                                                                                                                                                   |
| RS-485 interface:                | —                                                                                                                                                                                                                                                                                |
| Number of presets:               | 300                                                                                                                                                                                                                                                                              |
| Horizontal scan:                 | ✓                                                                                                                                                                                                                                                                                |
| Route settings:                  | 8                                                                                                                                                                                                                                                                                |
| Image compression method:        | H.264 / MJPEG                                                                                                                                                                                                                                                                    |
| Bitrate:                         | 48 ... 16384 kbps                                                                                                                                                                                                                                                                |
| Alarm inputs / outputs:          | —                                                                                                                                                                                                                                                                                |
| Audio:                           | <ul style="list-style-type: none"><li>• External microphone input</li><li>• Audio output</li><li>• Audio detection</li></ul>                                                                                                                                                     |
| Main stream frame rate:          | 1 ... 25 fps - 1080p                                                                                                                                                                                                                                                             |
| Network interface:               | 10/100/1000 Base-T (RJ-45)                                                                                                                                                                                                                                                       |
| Network protocols:               | IPv4/IPv6, HTTP, HTTPS, IEEE 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE                                                                                                                                                    |
| WEB Server:                      | Built-in, NVR compliance                                                                                                                                                                                                                                                         |
| Max. number of on-line users:    | 20                                                                                                                                                                                                                                                                               |
| ONVIF:                           | 2.6                                                                                                                                                                                                                                                                              |
| Memory card slot:                | Micro SD memory cards up to 128GB support (possible local recording)                                                                                                                                                                                                             |
| Mobile phones support:           | Port no.: 8000 or access by a cloud (P2P) <ul style="list-style-type: none"><li>• Android: Free application <a href="#">iVMS-4500</a> or <a href="#">Hik-Connect</a></li><li>• iOS (iPhone): Free application <a href="#">iVMS-4500</a> or <a href="#">Hik-Connect</a></li></ul> |
| Default admin user / password:   | admin / -                                                                                                                                                                                                                                                                        |
| Default IP address:              | 192.168.1.64                                                                                                                                                                                                                                                                     |
| Web browser access ports:        | 80                                                                                                                                                                                                                                                                               |
| PC client access ports:          | Port no.: 8000 or access by a cloud (P2P) - iVMS-4200 application                                                                                                                                                                                                                |
| Mobile client access ports:      | 8000                                                                                                                                                                                                                                                                             |
| Port ONVIF:                      | 80                                                                                                                                                                                                                                                                               |

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| RTSP URL:              | <ul style="list-style-type: none"> <li>• Main stream<br/>rtsp://192.168.1.64:554/Streaming/Channels/101/ - RTSP - without authorization<br/>rtsp://user:password@192.168.1.64:554/Streaming/Channels/101/ - with authorization</li> <li>• Sub stream<br/>rtsp://192.168.1.64:554/Streaming/Channels/102/ - RTSP - without authorization<br/>rtsp://user:password@192.168.1.64:554/Streaming/Channels/102/ - with authorization</li> </ul>                                                                                                                                                                                                                                                                                                                  |
| Main features:         | <ul style="list-style-type: none"> <li>• D-WDR - Wide Dynamic Range</li> <li>• ROI - improve the quality of selected parts of image</li> <li>• F-DNR (Defog) - Reduction of image noise caused by precipitation</li> <li>• EIS - Electronic Image Stabilization</li> <li>• 3D-DNR - Digital Noise Reduction</li> <li>• BLC/HLC - Back Light / High Light Compensation</li> <li>• Intelligent Image Analysis : crossing the line (tripwire), intrusion</li> <li>• Intelligent 3D Positioning System</li> <li>• ICR - Movable InfraRed filter</li> <li>• Configurable Privacy Zones - 8</li> <li>• Motion Detection</li> <li>• Sharpness - sharper image outlines</li> <li>• Mirror - Mirror image</li> <li>• Day/Night mode (color/b&amp;w/auto)</li> </ul> |
| Power supply:          | <ul style="list-style-type: none"> <li>• PoE (802.3at),</li> <li>• 12 V DC / 2 A (power adapter included)</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Housing:               | Speed Dome, Metal / Plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Color:                 | White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operation temp:        | -30 °C ... 65 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| "Index of Protection": | IP66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Weight:                | 2.29 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Dimensions:            | Ø 165 x 295 mm (without bracket)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Supported languages:   | English, Bulgarian, Chinese, Croatian, Czech, Danish, Estonian, Finnish, French, Greek, Spanish, Dutch, Japanese, Korean, German, Norwegian, Polish, Portuguese, Russian, Romanian, Serbian, Slovak, Slovenian, Swedish, Turkish, Hungarian, Vietnamese, Italian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Manufacturer / Brand:  | Hikvision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SAP Code:              | 301309700                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Guarantee:             | <b>3 years</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |