

|                                   | <a href="#">IP CAMERA DS-2CD2T87G2-L(6MM)(C) ColorVu - 8.3 Mpx<br/>Hikvision</a>                                                | <a href="#">ACCESS CONTROLLER<br/>MC16-PAC-ST-3-KIT ROGER</a>                                                                  | <a href="#">ACCESS CONTROLLER<br/>ASC2202C-D DAHUA</a>                                                    |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|                                   |                                                |                                              |                        |
|                                   | 7057.86 SEK<br>7057.86 SEK                                                                                                      | 7437.23 SEK<br>7437.23 SEK                                                                                                     | 6454.69 SEK<br>6454.69 SEK                                                                                |
| Standard                          | TCP/IP                                                                                                                          | ...                                                                                                                            | ...                                                                                                       |
| Sensor                            | 1/1.2 " Progressive Scan CMOS                                                                                                   | ...                                                                                                                            | ...                                                                                                       |
| Number of served transitions      | ...                                                                                                                             | 3 (two-way)                                                                                                                    | 2 (two-way)                                                                                               |
| Support                           | ...                                                                                                                             | ...                                                                                                                            | DAHUA                                                                                                     |
| Scanning system                   | Progressive                                                                                                                     | ...                                                                                                                            | ...                                                                                                       |
| Number of supported readers       | ...                                                                                                                             | 12                                                                                                                             | 4 pcs                                                                                                     |
| Matrix size                       | 8.3 Mpx                                                                                                                         | ...                                                                                                                            | ...                                                                                                       |
| Input lines                       | ...                                                                                                                             | ...                                                                                                                            | 12 pcs                                                                                                    |
| Number of users                   | ...                                                                                                                             | unlimited (purchase of the appropriate license required)                                                                       | ...                                                                                                       |
| Output lines                      | ...                                                                                                                             | ...                                                                                                                            | 4 pcs - Relay                                                                                             |
| Number of media per ID            | ...                                                                                                                             | 8 - Proximity card, PIN code, fingerprint, etc.                                                                                | ...                                                                                                       |
| Buffer memory                     | ...                                                                                                                             | 8 000 000 events buffer                                                                                                        | ...                                                                                                       |
| Number of access zones            | ...                                                                                                                             | 6                                                                                                                              | ...                                                                                                       |
| Number of alarm zones             | ...                                                                                                                             | 6                                                                                                                              | ...                                                                                                       |
| Battery backup support            | ...                                                                                                                             | 12 V / 20 Ah                                                                                                                   | max. 7 Ah                                                                                                 |
| Communication                     | ...                                                                                                                             | <ul style="list-style-type: none"> <li>Ethernet - RJ-45 socket</li> <li>RACS 5 v2 (Roger)</li> <li>RS-485 interface</li> </ul> | <ul style="list-style-type: none"> <li>5x RS-485,</li> <li>Ethernet,</li> <li>4x Wiegand 34/26</li> </ul> |
| Resolution                        | 3840 x 2160 - 8.3 Mpx, 4K UHD ,<br>3200 x 1800 - 6 Mpx ,<br>2688 x 1520 - 4 Mpx ,<br>1920 x 1080 - 1080p ,<br>1280 x 720 - 720p | ...                                                                                                                            | ...                                                                                                       |
| Lens                              | 6 mm                                                                                                                            | ...                                                                                                                            | ...                                                                                                       |
| View angle                        | 54 °                                                                                                                            | ...                                                                                                                            | ...                                                                                                       |
| Image compression method          | H.265+ / H.265 / H.264+ / H.264 / MJPEG                                                                                         | ...                                                                                                                            | ...                                                                                                       |
| White light LED illuminator range | 60 m                                                                                                                            | ...                                                                                                                            | ...                                                                                                       |

|                               |                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main features                 | ...                                                                                                                                                                                                              | <ul style="list-style-type: none"> <li>• Metal housing</li> <li>• The MCX4D I/O expander included</li> <li>• Integrated support in VISO ST software</li> <li>• Functions in the VISO ST system: <ul style="list-style-type: none"> <li>- MSSQL database</li> <li>- work in distributed systems</li> <li>- multi-station work</li> <li>- monitoring of transitions with video preview</li> <li>- T&amp;A event reporting</li> <li>- maximum number of transitions in the system : 128</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Support for 2 doors (12 inputs: 2x lock state, 2x door sensor, 2x exit button, 6x alarm line)</li> <li>• 100000 indexed users</li> <li>• History of 500000 events</li> <li>• 128 General Purpose Schedules</li> <li>• Function to prevent of multiple use of the same code/card to gain access (anti-passback)</li> <li>• Automatic sending of alarm messages to the SmartPSS system or after entering a code, card or fingerprint defined as door opening under duress</li> <li>• Door Left Open and Door Forced Open alarms</li> <li>• Tamper detection - opening the enclosure</li> <li>• Watchdog built-in</li> <li>• Remote programming from PC</li> <li>• Real time clock with battery backup</li> <li>• Metal housing - "Index of Protection" IP20, IK rating IK04</li> </ul> |
| Alarm inputs / outputs        | —                                                                                                                                                                                                                | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Audio                         | —                                                                                                                                                                                                                | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Memory card slot              | Micro SD memory cards up to 256GB support (possible local recording)                                                                                                                                             | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Main stream frame rate        | 25 fps @ 8.3 Mpx                                                                                                                                                                                                 | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Operation temp                | ...                                                                                                                                                                                                              | 5 °C ... 40 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -30 °C ... 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Network interface             | 10/100 Base-T (RJ-45)                                                                                                                                                                                            | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Permissible relative humidity | ...                                                                                                                                                                                                              | 10 % ... 95 % (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | max. 95 % (non-condensing)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Network protocols             | TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, IEEE 802.1x, QoS, IPv4/IPv6, UDP, Bonjour, SSL / TLS, PPPoE, SNMP                                                             | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| WEB Server                    | Built-in, NVR compliance                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Max. number of on-line users  | 6                                                                                                                                                                                                                | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ONVIF                         | ✓                                                                                                                                                                                                                | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mobile phones support         | Port no.: 8000 or access by a cloud (P2P) <ul style="list-style-type: none"> <li>• Android: Free application <a href="#">Hik-Connect</a></li> <li>• iOS: Free application <a href="#">Hik-Connect</a></li> </ul> | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Default admin user / password | admin / -<br>The administrator password should be set at the first start                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ...                                                                                                                    | ...               |
| RTSP URL              | <ul style="list-style-type: none"> <li>• Main stream :<br/>rtsp://user:password@192.168.1.64:554/Streaming/Channels/101/</li> <li>• Sub stream :<br/>rtsp://user:password@192.168.1.64:554/Streaming/Channels/102/</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ...                                                                                                                    | ...               |
| RS-485 interface      | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ...                                                                                                                    | ...               |
| Main features         | <ul style="list-style-type: none"> <li>• WDR - 130 dB - Wide Dynamic Range</li> <li>• 3D-DNR - Digital Noise Reduction</li> <li>• ROI - improve the quality of selected parts of image</li> <li>• Anti-Flicker - The technology eliminates the tiring eyes flickering image effect</li> <li>• ANR - Automatic Network Replenishment allows to save image to the card when the network connection with DVR is break (network failure) and next synchronize its</li> <li>• NAS - Network Attached Storage support</li> <li>• BLC/HLC - Back Light / High Light Compensation</li> <li>• Auto White Balance</li> <li>• AGC - Automatic Gain Control</li> <li>• Possibility to change the resolution, quality and bit rate</li> <li>• Sharpness - sharper image outlines</li> <li>• Configurable Privacy Zones</li> <li>• Motion Detection</li> <li>• Filtering of false alarms based on the recognition of persons and vehicles</li> <li>• Possibility to turn off the LED illuminator</li> <li>• Intelligent image analysis : intrusion, crossing the line (tripwire), detection of entry into the area / exit from the area - classification of people and vehicles, scene changing, face detection</li> </ul> | ...                                                                                                                    | ...               |
| Power supply          | <ul style="list-style-type: none"> <li>• PoE (802.3af),</li> <li>• 12 V DC / 700 mA</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>• 17 ... 22 V AC</li> <li>• 10 ... 15 V DC</li> <li>• 22 ... 26 V DC</li> </ul> | 100 ... 240 V AC  |
| Power consumption     | <ul style="list-style-type: none"> <li>• ≤ 9.5 W @ PoE (802.3af)</li> <li>• ≤ 8.5 W @ 12 V DC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ...                                                                                                                    | ...               |
| Housing               | Compact, Aluminum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ...                                                                                                                    | ...               |
| Color                 | White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ...                                                                                                                    | ...               |
| "Index of Protection" | IP67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                    | ...               |
| Weight                | 1.18 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 4.08 kg                                                                                                                | 2.44 kg           |
| Dimensions            | Ø 105 x 290 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 405 x 365 x 120 mm                                                                                                     | 273 x 338 x 90 mm |
| Operation temp        | -30 °C ... 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ...                                                                                                                    | ...               |
| Supported languages   | Polish, English, Bulgarian, Croatian, Czech, Danish, Estonian, Finnish, French, Greek, Spanish, Dutch, Lithuanian, Latvian, German, Norwegian, Portuguese, Russian, Romanian, Serbian, Slovak, Slovenian, Swedish, Turkish, Ukrainian, Hungarian, Italian                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ...                                                                                                                    | ...               |
| Manufacturer / Brand  | Hikvision                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ROGER                                                                                                                  | DAHUA             |
| SAP Code              | 311317250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ...                                                                                                                    | ...               |
| Guarantee             | 3 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 years                                                                                                                | 3 years           |



DELTA-OPTI Monika Matysiak / VAT:PL5251295225 / 60-713 Poznań, ul. Graniczna 10  
Tel:+48 61 864 69 60 / GSM:+48 607 60 11 66 / Fax:+48 61 864 69 65 / e-mail: info@delta.poznan.pl  
Monday-Friday: 8.00-19.00 / Saturday: 8.00-14.00