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|----------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|                                        | <a href="#">AHD, HD-CVI, HD-TVI, CVBS SPEED DOME CAMERA OUTDOOR OMEGA-PTZ-22H4-4 - 1080p 2.8 ... 12 mm</a> | <a href="#">AHD, HD-CVI, HD-TVI, CVBS SPEED DOME CAMERA OUTDOOR OMEGA-PTZ-52H4-4 - 5 Mpx 2.8 ... 12 mm</a>                                        | <a href="#">AHD, HD-CVI, HD-TVI, PAL SPEED DOME CAMERA OUTDOOR SD22204DB-GC - 1080p 2.7 ... 11 mm DAHUA</a> | <a href="#">AHD, HD-CVI, HD-TVI SPEED DOME CAMERA OUTDOOR SD49225DB-HC - 1080p 4.8 ... 120 mm DAHUA</a> | <a href="#">AHD, HD-CVI, HD-TVI, CVBS SPEED DOME CAMERA OUTDOOR DS-2AE7232TI-A(D) - 1080p 4.8 ... 153 mm Hikvision</a> |
|                                        |                           |                                                                  |                            |                      |                                     |
|                                        | 123.03 EUR<br>123.03 EUR                                                                                   | 140.71 EUR<br>140.71 EUR                                                                                                                          | 350.82 EUR<br>350.82 EUR                                                                                    | 761.23 EUR<br>761.23 EUR                                                                                | 1041.40 EUR<br>1041.40 EUR                                                                                             |
| Standard                               | AHD, HD-CVI, HD-TVI, CVBS                                                                                  | AHD, HD-CVI, HD-TVI, CVBS                                                                                                                         | AHD / HD-CVI / HD-TVI / PAL                                                                                 | AHD, HD-CVI, HD-TVI, PAL                                                                                | AHD, HD-CVI, HD-TVI, CVBS                                                                                              |
| Sensor                                 | 1/2.9 " Sony CMOS                                                                                          | 1/2.9 " Sony CMOS                                                                                                                                 | 1/2.8 " Progressive Scan CMOS                                                                               | 1/2.8 " STARVIS™ CMOS                                                                                   | 1/2.8 " Progressive Scan CMOS                                                                                          |
| Matrix size                            | 2.1 Mpx                                                                                                    | 5 Mpx                                                                                                                                             | 2.1 Mpx                                                                                                     | 2.1 Mpx                                                                                                 | 2.1 Mpx                                                                                                                |
| Resolution                             | • AHD, HD-CVI, HD-TVI : 1920 x 1080 px - 1080p<br>• CVBS : 960 x 576 px - 960H                             | • AHD / HD-TVI : 2592 x 1944 px - 5 Mpx @ 15, 20 fps<br>• AHD / HD-CVI / HD-TVI : 2560 x 1440 px - 4 Mpx @ 25 fps<br>• CVBS : 960 x 576 px - 960H | 1920 x 1080 - 1080p<br>1280 x 720 - 720p<br>704 x 576 - D1                                                  | 1920 x 1080 - 1080p<br>1280 x 720 - 720p                                                                | 1920 x 1080 - 1080p<br>960 x 576 - 960H                                                                                |
| Range of IR illumination               | 45 m                                                                                                       | 60 m                                                                                                                                              | ...                                                                                                         | 100 m                                                                                                   | 150 m                                                                                                                  |
| IR illuminator                         | ...                                                                                                        | ...                                                                                                                                               | —                                                                                                           | ...                                                                                                     | ...                                                                                                                    |
| Lens                                   | 2.8 ... 12 mm - Motozoom                                                                                   | 2.8 ... 12 mm - Motozoom                                                                                                                          | 2.7 ... 11 mm                                                                                               | 4.8 ... 120 mm                                                                                          | 4.8 ... 153 mm                                                                                                         |
| View angle                             | • 91 ° ... 28 ° (manufacturer data)<br>• 76 ° ... 30 ° (our tests result)                                  | • 91 ° ... 28 ° (manufacturer data)<br>• 70 ° ... 29 ° (our tests result)                                                                         | • 99 ° ... 32 ° (manufacturer data)<br>• 79 ° ... 30 ° (our tests result)                                   | • 61 ° ... 3.2 ° (manufacturer data)<br>• 56 ° ... 3.1 ° (our tests result)                             | • 54 ° ... 2 ° (manufacturer data)<br>• 54 ° ... 2.5 ° (our tests result)                                              |
| Optical zoom                           | x 4                                                                                                        | x 4                                                                                                                                               | x 4                                                                                                         | x 25                                                                                                    | x 32                                                                                                                   |
| Digital zoom                           | x 16                                                                                                       | x 16                                                                                                                                              | x 16                                                                                                        | x 16                                                                                                    | x 16                                                                                                                   |
| Rotation speed depending on ZOOM level | —                                                                                                          | —                                                                                                                                                 | ✓                                                                                                           | ✓                                                                                                       | ✓                                                                                                                      |
| Auto IR illuminator                    | ✓                                                                                                          | ✓                                                                                                                                                 | ...                                                                                                         | Adaptive adjusting of the IR illuminator power to the lens zoom and outdoor light conditions            | ...                                                                                                                    |
| Horizontal rotation range              | 0 ° ... 355 ° - Rotation of the head is limited by stops                                                   | 0 ° ... 350 ° - Rotation of the head is limited by stops                                                                                          | 0 ... 355 ° - Rotation of the head is limited by stops                                                      | 360 ° continuous                                                                                        | 360 ° continuous                                                                                                       |
| Vertical rotation range                | 0 ° ... 70 °                                                                                               | 0 ° ... 70 °                                                                                                                                      | 0 ° ... 90 °                                                                                                | -15 ° ... 90 °                                                                                          | -15 ° ... 90 °                                                                                                         |
| Rotation speed (manual control)        | 25 °/s (horizontal) ,<br>20 °/s (vertical)                                                                 | 20 °/s (horizontal) ,<br>25 °/s (vertical)                                                                                                        | • 0.1 °/s ... 100 °/s (horizontal),<br>• 0.1 °/s ... 60 °/s (vertical)                                      | • 0.1 °/s ... 200 °/s (horizontal),<br>• 0.1 °/s ... 120 °/s (vertical)                                 | 0.1 °/s ... 160 °/s (horizontal)<br>,<br>0.1 °/s ... 120 °/s (vertical)                                                |
| Preset rotation speed                  | 25 °/s (horizontal)<br>20 °/s (vertical)                                                                   | 25 °/s (horizontal)<br>20 °/s (vertical)                                                                                                          | • 100 °/s (horizontal)<br>• 60 °/s (vertical)                                                               | • 240 °/s (horizontal)<br>• 200 °/s (vertical)                                                          | 160 °/s (horizontal)<br>120 °/s (vertical)                                                                             |
| PTZ control                            | Via interface RS-485,<br>Default address : 1,<br>2400 bps                                                  | Via interface RS-485<br>Default address : 1,<br>2400 bps                                                                                          | Via interface RS-485<br>The ability to control via coaxial cable from recorder                              | Via interface RS-485<br>The ability to control via coaxial cable from recorder                          | Via interface RS-485<br>The ability to control via coaxial cable from recorder<br>HIKVISION                            |
| Protocols                              | Pelco-D, Pelco-P (auto detection)                                                                          | Pelco-D, Pelco-P (auto detection)                                                                                                                 | Pelco-D, Pelco-P, DH-SD (auto detection)                                                                    | Pelco-D, Pelco-P, DH-SD (auto detection)                                                                | Pelco-D, Pelco-P (auto detection)                                                                                      |
| S/N ratio                              | > 50 dB                                                                                                    | > 50 dB                                                                                                                                           | ...                                                                                                         | > 55 dB                                                                                                 | ...                                                                                                                    |
| Video output                           | AHD / HD-CVI / HD-TVI / CVBS, 1 Vpp 75 Ω                                                                   | AHD / HD-CVI / HD-TVI / CVBS, 1 Vpp 75 Ω                                                                                                          | AHD / HD-CVI / HD-TVI / CVBS : 1 Vpp 75 Ω                                                                   | AHD / HD-CVI / HD-TVI / CVBS, 1 Vpp 75 Ω                                                                | 1 Vpp / 75 Ω - AHD / HD-CVI / HD-TVI / CVBS                                                                            |
| Audio                                  | —                                                                                                          | —                                                                                                                                                 | —                                                                                                           | External microphone input - HD-CVI only                                                                 | —                                                                                                                      |
| Number of presets                      | 220                                                                                                        | 220                                                                                                                                               | 300                                                                                                         | 300                                                                                                     | 256                                                                                                                    |
| Route settings                         | 8                                                                                                          | 8                                                                                                                                                 | 8                                                                                                           | 8                                                                                                       | 10                                                                                                                     |
| Horizontal scan                        | —                                                                                                          | —                                                                                                                                                 | ✓                                                                                                           | ✓                                                                                                       | ✓                                                                                                                      |

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|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Park action            | Calling the preset position after a specified dwell time                                                                                                                                                                                          | Calling the preset position after a specified dwell time                                                                                                                                                                                                                        | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ...                                                                                                                                                                                                                                                                                                               | Call the set function (tour, scan, etc.) after specified dwell time                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Alarm inputs / outputs | —                                                                                                                                                                                                                                                 | —                                                                                                                                                                                                                                                                               | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2 / 1                                                                                                                                                                                                                                                                                                             | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Main features          | <ul style="list-style-type: none"> <li>• ICR - Movable InfraRed filter</li> <li>• 3D-DNR - Digital Noise Reduction</li> <li>• AGC - Automatic Gain Control</li> <li>• Auto White Balance</li> <li>• Sharpness - sharper image outlines</li> </ul> | <ul style="list-style-type: none"> <li>• 3D-DNR - Digital Noise Reduction</li> <li>• AGC - Automatic Gain Control</li> <li>• Auto White Balance</li> <li>• Auto White Balance</li> <li>• ICR - Movable InfraRed filter</li> <li>• Sharpness - sharper image outlines</li> </ul> | <ul style="list-style-type: none"> <li>• WDR - 120 dB - Wide Dynamic Range</li> <li>• 2D-DNR, 3D-DNR - Digital Noise Reduction</li> <li>• F-DNR (Defog) - Reduction of image noise caused by precipitation</li> <li>• BLC/HLC - Back Light / High Light Compensation</li> <li>• Day/night mode</li> <li>• ICR - Movable InfraRed filter</li> <li>• Auto White Balance</li> <li>• AGC - Automatic Gain Control</li> <li>• Image rotation and mirror</li> <li>• Sharpness - sharper image outlines</li> </ul> | <ul style="list-style-type: none"> <li>• WDR - 120 dB - Wide Dynamic Range</li> <li>• 2D-DNR / 3D-DNR - Digital Noise Reduction</li> <li>• ICR - Movable InfraRed filter</li> <li>• BLC/HLC - Back Light / High Light Compensation</li> <li>• Auto White Balance</li> <li>• Configurable Privacy Zones</li> </ul> | <ul style="list-style-type: none"> <li>• Intelligent 3D Positioning System</li> <li>• WDR ≥ 120 dB - Wide Dynamic Range</li> <li>• 3D-DNR - Digital Noise Reduction</li> <li>• EIS - Electronic Image Stabilization</li> <li>• IR illuminator optimization</li> <li>• BLC/HLC - Back Light / High Light Compensation</li> <li>• AGC - Automatic Gain Control</li> <li>• ICR - Movable InfraRed filter</li> <li>• Auto White Balance</li> <li>• Configurable Privacy Zones</li> </ul> |
| OSD menu               | ✓                                                                                                                                                                                                                                                 | ✓                                                                                                                                                                                                                                                                               | ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ✓                                                                                                                                                                                                                                                                                                                 | OSD menu available via Hikvision HD-TVI recorder                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Power supply           | 12 V DC / 940 mA                                                                                                                                                                                                                                  | 12 V DC / 860 mA                                                                                                                                                                                                                                                                | 12 V DC / 750 mA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 12 V DC / 3 A                                                                                                                                                                                                                                                                                                     | 24 V AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| SAP Code               | ...                                                                                                                                                                                                                                               | ...                                                                                                                                                                                                                                                                             | ...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ...                                                                                                                                                                                                                                                                                                               | 301205314                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Power consumption      | ≤ 11.3 W                                                                                                                                                                                                                                          | ≤ 10.3 W                                                                                                                                                                                                                                                                        | ≤ 9 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <ul style="list-style-type: none"> <li>• ≤ 10 W (typical)</li> <li>• 22 W (max)</li> </ul>                                                                                                                                                                                                                        | ≤ 40 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Housing                | Speed Dome, Plastic                                                                                                                                                                                                                               | Speed Dome, Plastic                                                                                                                                                                                                                                                             | Speed Dome, Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Speed Dome, Metal + Plastic                                                                                                                                                                                                                                                                                       | Speed Dome, Metal                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Color                  | White                                                                                                                                                                                                                                             | White                                                                                                                                                                                                                                                                           | White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | White + Black                                                                                                                                                                                                                                                                                                     | White                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| "Index of Protection"  | IP66                                                                                                                                                                                                                                              | IP67                                                                                                                                                                                                                                                                            | IP66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | IP66                                                                                                                                                                                                                                                                                                              | IP66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Vandal-proof           | —                                                                                                                                                                                                                                                 | —                                                                                                                                                                                                                                                                               | IK10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —                                                                                                                                                                                                                                                                                                                 | —                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Manufacturer / Brand   | ...                                                                                                                                                                                                                                               | ...                                                                                                                                                                                                                                                                             | DAHUA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | DAHUA                                                                                                                                                                                                                                                                                                             | Hikvision                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Operation temp         | -40 °C ... 60 °C                                                                                                                                                                                                                                  | -40 °C ... 60 °C                                                                                                                                                                                                                                                                | -30 °C ... 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -40 °C ... 70 °C                                                                                                                                                                                                                                                                                                  | -30 °C ... 65 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Weight                 | 0.57 kg                                                                                                                                                                                                                                           | 0.57 kg                                                                                                                                                                                                                                                                         | 0.53 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.8 kg (with bracket)                                                                                                                                                                                                                                                                                             | 4.5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Dimensions             | Ø 111 x 102 mm                                                                                                                                                                                                                                    | Ø 110 x 100 mm                                                                                                                                                                                                                                                                  | 122 x 89 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 160 x 350 x 255 mm (with bracket)                                                                                                                                                                                                                                                                                 | Ø 220 x 353 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Supported languages    | English                                                                                                                                                                                                                                           | English                                                                                                                                                                                                                                                                         | Polish, English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | English                                                                                                                                                                                                                                                                                                           | Polish, English                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Guarantee              | 2 years                                                                                                                                                                                                                                           | 2 years                                                                                                                                                                                                                                                                         | 5 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5 years                                                                                                                                                                                                                                                                                                           | 3 years                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |