CI-2020-69

**3. pielikums**

**TEHNISKAIS PIEDĀVĀJUMS**

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| **Parametri** | | **PASŪTĪTĀJA PRASĪBAS** | **PRETENDENTA PIEDĀVĀJUMS** |
| **1.** | **IP videonovērošanas kamera Nr.1** (1 gab.)  **(transportlīdzekļu numuru atpazīšanas kamera)** | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
|  | Image Sensor | Vismaz 1/1.8ʺ Progressive Scan CMOS |  |
|  | Focus | Vismaz Auto, semi auto, manual |  |
|  | Lens Type | Vismaz varifokāla no 2.8 līdz 12 mm |  |
|  | FOV | Vismaz horizontal FOV 103.3° to 38.6°, vertical FOV 54.2° to 21.9° |  |
|  | Aperture | Vismaz F1.2 |  |
|  | IR Range | Vismaz 50 m |  |
|  | Max. Resolution | Vismaz 1920 × 1080 |  |
|  | *Main Stream* | Vismaz 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) |  |
|  | *Sub-Stream* | Vismaz 50Hz: 25fps (704 × 576, 640 × 480) |  |
|  | *Third Stream* | Vismaz 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480) |  |
|  | *Fourth Stream* | Vismaz 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) |  |
|  | *Fifth Stream* | Vismaz 50Hz: 25fps (704 × 576, 640 × 480) |  |
|  | *Custom Stream* | Vismaz 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) |  |
|  | *Video Compression* | Vismaz Main stream: H.265+/H.265/H.264+/H.264 Sub stream/third stream/fourth stream/fifth stream/custom stream: H.265/H.264/MJPEG |  |
|  | *Video Bit Rate* | Vismaz 32 Kbps to 16 Mbps |  |
|  | *Scalable Video Coding (SVC)* | Vismaz H.264 and H.265 encoding |  |
|  | *Region Of Interest (ROI)* | Vismaz 4 fixed regions for main stream, sub stream, third stream, fourth stream, and fifth stream, and dynamic tracking |  |
|  | *Simultaneous Live View* | Vismaz 20 channels |  |
|  | *API* | Vismaz ONVIF (PROFILE S, PROFILE G), ISAPI, SDK |  |
|  | *Protocols* | Vismaz TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS |  |
|  | *User/Host* | Vismaz 32 users. 3 user levels: administrator, operator and user |  |
|  | *Security* | Vismaz Password protection, HTTPS encryption, IEEE 802.1x port-based network access control, IP address filter, basic and digest authentication for HTTP/HTTPS, WSSE and digest authentication for ONVIF |  |
|  | *Network Storage* | Vismaz microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR |  |
|  | *Day/Night Switch* | Vismaz Day/Night/Auto/Schedule/Triggered by Alarm In/ Triggered by video |  |
|  | *Target Cropping* | Yes |  |
|  | *Picture Overlay* | LOGO picture can be overlaid on video |  |
|  | *Image Enhancement* | Vismaz BLC, HLC, 3D DNR, Defog, EIS, distortion correction |  |
|  | *Image Settings* | Vismaz Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser |  |
|  | *Alarm* | Vismaz 2 inputs, 2 outputs (up to 24 VDC 1A or 110 VAC 500 mA) |  |
|  | *On-Board Storage* | Vismaz Built-in micro SD/SDHC/SDXC slot, up to 256 GB |  |
|  | *Communication Interface* | Vismaz 1 RJ45 10M/100M/1000M Ethernet port |  |
|  | *Heater* | yes |  |
|  | *Exception Detection* | Vismaz Scene change detection, defocus detection |  |
|  | *Premier Protection* | Vismaz Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection |  |
|  | *Accuracy* | Vismaz Capture rate > 98% Vehicle moving direction recognition accuracy > 96% Mistaken capture rate < 2% (entrance/exit), < 5% (checkpoint) |  |
|  | *Power Supply* | 12 VDC ± 20%, two-core terminal block；PoE (802.3at, class 4） |  |
|  | *Protection* | Vismaz IP67, IK10 |  |
| **2.** | **IP videonovērošanas kamera Nr.2** (1 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
|  | *Image Sensor* | Vismaz 1/2.7" Progressive Scan CMOS |  |
|  | *Day & Night* | Vismaz ICR Cut |  |
|  | *Slow Shutter* | Yes |  |
|  | *Angle Adjustment* | Vismaz Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360° |  |
|  | *Lens Type & FOV* | Vismaz varifokāla no 2.8 līdz 12 mm, horizontal FOV 108° to 30°, vertical FOV 56° to 17°, diagonal FOV 131° to 35° |  |
|  | *Aperture* | Vismaz F1.4 |  |
|  | *Focus* | Vismaz Auto |  |
|  | *IR Range* | Vismaz 60 m |  |
|  | *Max. Resolution* | Vismaz 2592 × 1944 |  |
|  | *Main Stream* | Vismaz 50Hz: 20fps (2592 × 1944) 25fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720) |  |
|  | *Sub Stream* | Vismaz 50Hz: 25fps (640 × 480, 640 × 360, 320 × 240) |  |
|  | *Third Stream* | Vismaz 50Hz: 25fps (1280 × 720, 640 × 480, 640 × 360, 360 × 240) |  |
|  | *Video Compression* | Vismaz Main stream: H.265/H.264 Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264 |  |
|  | *Video Bit Rate* | Vismaz 32 Kbps to 8 Mbps |  |
|  | *Bit Rate Control* | Vismaz CBR/VBR |  |
|  | *Scalable Video Coding (SVC)* | Yes |  |
|  | *Region Of Interest (ROI)* | Vismaz 1 fixed regions for each stream |  |
|  | *Audio Environment Noise Filtering* | Yes |  |
|  | *Audio Sampling Rate* | Vismaz 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz |  |
|  | *Audio Compression* | Vismaz G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3 |  |
|  | *Audio Bit Rate* | Vismaz 64Kbps(G.711ulaw/G.711alaw)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/8-320Kbps(MP3) |  |
|  | *Simultaneous Live View* | Vismaz 6 channels |  |
|  | *API* | Vismaz ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK |  |
|  | *Protocols* | Vismaz TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, NTP, UPnP, SMTP, IGMP, 802.1X, QoS, IPv6, UDP, Bonjour, SSL/TLS |  |
|  | *User/Host* | Vismaz 32 users. 3 user levels: administrator, operator and user |  |
|  | *Security* | Vismaz Password protection, complicated password, HTTPS encryption, IP address filter, Security Audit Log, basic and digest authentication for HTTP/HTTPS, TLS 1.2, WSSE and digest authentication for ONVIF |  |
|  | *Network Storage* | Vismaz MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS) |  |
|  | *Day/Night Switch* | Vismaz Day, Night, Auto, Schedule |  |
|  | *Image Enhancement* | Vismaz BLC, HLC, 3D DNR |  |
|  | *Image Settings* | Vismaz Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser |  |
|  | *Alarm* | Vismaz 1 input, 1 output (max. 24 VAC/24 VDC @500 mA) |  |
|  | *On-Board Storage* | Vismaz Built-in micro SD slot, up to 256 GB |  |
|  | *Communication Interface* | Vismaz 1 RJ45 10M/100M self-adaptive Ethernet port |  |
|  | *Face Capture* | Yes |  |
|  | *Premier Protection* | Vismaz Line crossing detection, intrusion detection, region entrance detection, region exiting detection |  |
|  | *Basic Event* | Vismaz Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), scene change detection |  |
|  | *Power Supply* | 12 VDC ± 25%, reverse polarity protection PoE：802.3at, class 4 |  |
|  | *Environment Approval* | Vismaz CE-RoHS (2011/65/EU) |  |
|  | *Protection* | Vismaz IP66, IK10 |  |
| **3.** | **IP videonovērošanas kamera Nr.3** (1 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
|  | Image Sensor | Vismaz 1/1.7'' Progressive Scan CMOS |  |
|  | Slow Shutter | Support |  |
|  | Lens | 2 mm @F2.4, horizontal field of view: 180°(wall mount), 360°(ceiling mount), 360°(table mount) |  |
|  | Day & Night | Vismaz IR Cut Filter |  |
|  | Digital Noise Reduction | Vismaz 3D DNR |  |
|  | WDR | Vismaz Digital WDR |  |
|  | Video Compression | Vismaz Main stream: H.264 Sub stream: H.264/MJPEG |  |
|  | H.264 Type | Vismaz Baseline Profile/Main Profile/High Profile H.264+ Support only when the display mode is Fisheye |  |
|  | Video Bit Rate | Vismaz 256 Kbps – 16 Mbps |  |
|  | Audio Compression | Vismaz G.711/G.722.1/G.726/MP2L2/PCM |  |
|  | Audio Bit Rate | Vismaz 64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-160Kbps(MP2L2) |  |
|  | Max. Resolution | Vismaz 4000 × 3072 |  |
|  | Fisheye View Main Stream Max. Frame Rate | Vismaz 50Hz: 20fps (4000 × 3072), 25fps(3072 × 3072, 2560 × 2560) |  |
|  | Fisheye View Sub Stream Max. Frame Rate | Vismaz 50Hz: 12.5fps (720 × 720, 720 × 576) |  |
|  | Image Enhancement | Vismaz BLC/3D DNR |  |
|  | Image Setting | Vismaz Saturation, Brightness, Contrast, Sharpness adjustable by client software or web browser |  |
|  | Region of Interest | Vismaz 3 fixed region for each stream |  |
|  | Day/Night Switch | Vismaz Auto/Schedule/Triggered by Alarm In |  |
|  | Picture Overlay | LOGO picture can be overlaid on video |  |
|  | Mount Type | Vismaz table, wall, and ceiling |  |
|  | Decoding Mode | Vismaz hardware decoding and software decoding |  |
|  | Display Mode | Vismaz 14 display modes in total (including display modes of different mount types and decoding modes): Fisheye View, 180 Panorama View, 4PTZ, Fisheye + 3PTZ, 360 Panorama View, 360 Panorama + PTZ, 360 Panorama + 3PTZ, 360 Panorama + 6PTZ, 360 Panorama + 8PTZ, 2PTZ, Fisheye + 8PTZ, Panorama View, Panorama + 3PTZ, Panorama + 8PTZ |  |
|  | Environment Noise Filtering | Support |  |
|  | Audio I/O | Support |  |
|  | Audio Sampling Rate | Vismaz 48 kHz |  |
|  | Intrusion Detection | Vismaz Cross a pre-defined virtual line, up to 4 pre-defined virtual lines supported |  |
|  | Line Crossing Detection | Vismaz Enter and loiter in a pre-defined virtual region, up to 4 pre-defined virtual regions supported |  |
|  | Network Storage | Vismaz microSD/SDHC/SDXC card (128G), local storage and NAS (NFS,SMB/CIFS), ANR |  |
|  | Alarm Trigger | Vismaz Motion detection, video tampering alarm, network disconnected, IP address conflicted, illegal login, HDD full, HDD error |  |
|  | Protocols | Vismaz TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour |  |
|  | Standard | Vismaz ONVIF (PROFILE S, PROFILE G), PSIA, CGI, ISAPI |  |
|  | Communication Interface | Vismaz 1 RJ45 10M/100M/1000M Ethernet port, 1 RS-485 interface |  |
|  | Audio Input | Vismaz 1 3.5mm audio interface, Mic in/Line in; 1 built-in microphone by default, -42dB |  |
|  | Audio Output | Vismaz 1 3.5mm audio output interface; 1 built-in speaker by default, support echo cancellation |  |
|  | On-board storage | Vismaz Built-in Micro SD/SDHC/SDXC slot, up to 128 GB |  |
|  | Power Supply | Vismaz DC 12 V ± 10%, 0.94 A PoE (802.3at, class 4), 0.41 – 0.26 A |  |
|  | Power Consumption | Ne vairāk kā 14.7 W |  |
|  | IR Range | Vismaz 15 m |  |
|  | Protection Level | Vismaz IP66, IK10 |  |
| **4.** | **Sadales skapis** (3 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
|  | Materiāls | tērauds |  |
|  | Aizsardzība | Vismaz IP66 |  |
| **5.** | **Atmiņas karte** (3 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
|  | Formāts | MicroSD |  |
|  | Klase | Vismaz 10 |  |
|  | Ietilpība | Vismaz 256GB |  |
| **6.** | **Bezvadu tīkla iekārta 1** (3 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
|  | CPU nominal frequency | Vismaz 650 MHz |  |
|  | Size of RAM | Vismaz 64 MB |  |
|  | Storage size | Vismaz 16 MB |  |
|  | Tested ambient temperature | Vismaz -40°C to 70°C |  |
|  | MTBF | Vismaz 100'000 |  |
|  | Max power consumption | Ne vairāk kā 5 W |  |
|  | Wireless 2.4 GHz Max data rate | Vismaz 300 Mbit/s |  |
|  | Wireless 2.4 GHz number of chains | Vismaz 2 |  |
|  | Antenna gain dBi for 2.4 GHz | Vismaz 10 |  |
|  | 10/100 Ethernet ports | Vismaz 1 |  |
|  | Certification | Vismaz CE, FCC, IC, EAC, ROHS |  |
| **7.** | **Bezvadu tīkla iekārta 2**  (1 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
|  | CPU nominal frequency | Vismaz 600 MHz |  |
|  | Size of RAM | Vismaz 64 MB |  |
|  | Storage size | Vismaz 16 MB |  |
|  | Tested ambient temperature | Vismaz -40°C to 70°C |  |
|  | MTBF | Vismaz 100'000 |  |
|  | Max power consumption | Ne vairāk kā 6 W |  |
|  | Wireless 2.4 GHz/5 GHz Max data rate | Vismaz 150 Mbit/s |  |
|  | Antenna gain dBi for 2.4 GHz/5 GHz | Vismaz 6 |  |
|  | 10/100 Ethernet ports | Vismaz 1 |  |
|  | Certification | Vismaz CE, FCC, IC, EAC, ROHS |  |

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| Pretendents: |  |
| Amatpersonas vai pilnvarotās personas paraksts: |  |
| Parakstītāja vārds, uzvārds un amats: |  |
| Datums: |  |