CI-2020-76

**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* |
| 1.1. | Image Sensor | Vismaz 1/1.8ʺ Progressive Scan CMOS |  |
| 1.2. | Focus | Vismaz Auto, semi auto, manual |  |
| 1.3. | Lens Type | Vismaz varifokāla no 2.8 līdz 12 mm |  |
| 1.4. | FOV | Vismaz horizontal FOV 103.3° to 38.6°, vertical FOV 54.2° to 21.9° |  |
| 1.5. | Aperture | Vismaz F1.2 |  |
| 1.6. | IR Range | Vismaz 50 m |  |
| 1.7. | Max. Resolution | Vismaz 1920 × 1080 |  |
| 1.8. | *Main Stream* | Vismaz 50Hz: 50fps (1920 × 1080, 1280 × 960, 1280 × 720) |  |
| 1.9. | *Sub-Stream* | Vismaz 50Hz: 25fps (704 × 576, 640 × 480) |  |
| 1.10. | *Third Stream* | Vismaz 50Hz: 25fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480) |  |
| 1.11. | *Fourth Stream* | Vismaz 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) |  |
| 1.12. | *Fifth Stream* | Vismaz 50Hz: 25fps (704 × 576, 640 × 480) |  |
| 1.13. | *Custom Stream* | Vismaz 50Hz: 25fps (1920 × 1080, 1280 × 720, 704 × 576, 640 × 480) |  |
| 1.14. | *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 |  |
| 1.15. | *Video Bit Rate* | Vismaz 32 Kbps to 16 Mbps |  |
| 1.16. | *Scalable Video Coding (SVC)* | Vismaz H.264 and H.265 encoding |  |
| 1.17. | *Region Of Interest (ROI)* | Vismaz 4 fixed regions for main stream, sub stream, third stream, fourth stream, and fifth stream, and dynamic tracking |  |
| 1.18. | *Simultaneous Live View* | Vismaz 20 channels |  |
| 1.19. | *API* | Vismaz ONVIF (PROFILE S, PROFILE G), ISAPI, SDK |  |
| 1.20. | *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 |  |
| 1.21. | *User/Host* | Vismaz 32 users. 3 user levels: administrator, operator and user |  |
| 1.22. | *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 |  |
| 1.23. | *Network Storage* | Vismaz microSD/SDHC/SDXC card (256 GB), local storage and NAS (NFS,SMB/CIFS), ANR |  |
| 1.24. | *Day/Night Switch* | Vismaz Day/Night/Auto/Schedule/Triggered by Alarm In/ Triggered by video |  |
| 1.25. | *Target Cropping* | Yes |  |
| 1.26. | *Picture Overlay* | LOGO picture can be overlaid on video |  |
| 1.27. | *Image Enhancement* | Vismaz BLC, HLC, 3D DNR, Defog, EIS, distortion correction |  |
| 1.28. | *Image Settings* | Vismaz Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance are adjustable by client software or web browser |  |
| 1.29. | *Alarm* | Vismaz 2 inputs, 2 outputs (up to 24 VDC 1A or 110 VAC 500 mA) |  |
| 1.30. | *On-Board Storage* | Vismaz Built-in micro SD/SDHC/SDXC slot, up to 256 GB |  |
| 1.31. | *Communication Interface* | Vismaz 1 RJ45 10M/100M/1000M Ethernet port |  |
| 1.32. | *Heater* | yes |  |
| 1.33. | *Exception Detection* | Vismaz Scene change detection, defocus detection |  |
| 1.34. | *Premier Protection* | Vismaz Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection |  |
| 1.35. | *Accuracy* | Vismaz Capture rate > 98% Vehicle moving direction recognition accuracy > 96% Mistaken capture rate < 2% (entrance/exit), < 5% (checkpoint) |  |
| 1.36. | *Power Supply* | 12 VDC ± 20%, two-core terminal block；PoE (802.3at, class 4） |  |
| 1.37. | *Protection* | Vismaz IP67, IK10 |  |
| **2.** | **IP videonovērošanas kamera Nr.2** (1 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
| 2.1. | *Image Sensor* | Vismaz 1/2.7" Progressive Scan CMOS |  |
| 2.2. | *Day & Night* | Vismaz ICR Cut |  |
| 2.3. | *Slow Shutter* | Yes |  |
| 2.4. | *Angle Adjustment* | Vismaz Pan: 0° to 355°, tilt: 0° to 90°, rotate: 0° to 360° |  |
| 2.5. | *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° |  |
| 2.6. | *Aperture* | Vismaz F1.4 |  |
| 2.7. | *Focus* | Vismaz Auto |  |
| 2.8. | *IR Range* | Vismaz 60 m |  |
| 2.9. | *Max. Resolution* | Vismaz 2592 × 1944 |  |
| 2.10. | *Main Stream* | Vismaz 50Hz: 20fps (2592 × 1944) 25fps (2688 × 1520, 2304 × 1296, 1920 × 1080, 1280 × 720) |  |
| 2.11. | *Sub Stream* | Vismaz 50Hz: 25fps (640 × 480, 640 × 360, 320 × 240) |  |
| 2.12. | *Third Stream* | Vismaz 50Hz: 25fps (1280 × 720, 640 × 480, 640 × 360, 360 × 240) |  |
| 2.13. | *Video Compression* | Vismaz Main stream: H.265/H.264 Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264 |  |
| 2.14. | *Video Bit Rate* | Vismaz 32 Kbps to 8 Mbps |  |
| 2.15. | *Bit Rate Control* | Vismaz CBR/VBR |  |
| 2.16. | *Scalable Video Coding (SVC)* | Yes |  |
| 2.17. | *Region Of Interest (ROI)* | Vismaz 1 fixed regions for each stream |  |
| 2.18. | *Audio Environment Noise Filtering* | Yes |  |
| 2.19. | *Audio Sampling Rate* | Vismaz 8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz |  |
| 2.20. | *Audio Compression* | Vismaz G.711ulaw/G.711alaw/G.722.1/G.726/MP2L2/PCM/MP3 |  |
| 2.21. | *Audio Bit Rate* | Vismaz 64Kbps(G.711ulaw/G.711alaw)/16Kbps(G.722.1)/16Kbps(G.726)/32-192Kbps(MP2L2)/8-320Kbps(MP3) |  |
| 2.22. | *Simultaneous Live View* | Vismaz 6 channels |  |
| 2.23. | *API* | Vismaz ONVIF (PROFILE S, PROFILE G, PROFILE T), ISAPI, SDK |  |
| 2.24. | *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 |  |
| 2.25. | *User/Host* | Vismaz 32 users. 3 user levels: administrator, operator and user |  |
| 2.26. | *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 |  |
| 2.27. | *Network Storage* | Vismaz MicroSD/SDHC/SDXC card (256 GB) local storage, and NAS (NFS, SMB/CIFS) |  |
| 2.28. | *Day/Night Switch* | Vismaz Day, Night, Auto, Schedule |  |
| 2.29. | *Image Enhancement* | Vismaz BLC, HLC, 3D DNR |  |
| 2.30. | *Image Settings* | Vismaz Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance adjustable by client software or web browser |  |
| 2.31. | *Alarm* | Vismaz 1 input, 1 output (max. 24 VAC/24 VDC @500 mA) |  |
| 2.32. | *On-Board Storage* | Vismaz Built-in micro SD slot, up to 256 GB |  |
| 2.33. | *Communication Interface* | Vismaz 1 RJ45 10M/100M self-adaptive Ethernet port |  |
| 2.34. | *Face Capture* | Yes |  |
| 2.35. | *Premier Protection* | Vismaz Line crossing detection, intrusion detection, region entrance detection, region exiting detection |  |
| 2.36. | *Basic Event* | Vismaz Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error), scene change detection |  |
| 2.37. | *Power Supply* | 12 VDC ± 25%, reverse polarity protection PoE：802.3at, class 4 |  |
| 2.38. | *Environment Approval* | Vismaz CE-RoHS (2011/65/EU) |  |
| 2.39. | *Protection* | Vismaz IP66, IK10 |  |
| **3.** | **IP videonovērošanas kamera Nr.3** (1 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
| 3.1. | Image Sensor | Vismaz 1/1.7'' Progressive Scan CMOS |  |
| 3.2. | Slow Shutter | Support |  |
| 3.3. | Lens | 2 mm @F2.8, horizontal field of view: 180°(wall mount), 360°(ceiling mount), 360°(table mount) |  |
| 3.4. | Day & Night | Vismaz IR Cut Filter |  |
| 3.5. | Digital Noise Reduction | Vismaz 3D DNR |  |
| 3.6. | WDR | Vismaz 120 dB |  |
| 3.7. | Video Compression | Vismaz Main stream: H.265+/H.265/H.264+/H.264 Sub stream: H.265/H.264/MJPEG |  |
| 3.8. | H.264 Type | Vismaz Baseline Profile/ Main Profile /High Profile |  |
| 3.9. | H.264+ | Vismaz Main stream supports |  |
| 3.10. | H.265 Type | Vismaz Main Profile |  |
| 3.11. | H.265+ | Main stream supports |  |
| 3.12. | Video Bit Rate | Vismaz 32 Kbps – 16 Mbps |  |
| 3.13. | Audio Compression | Vismaz G.711/G.722.1/G.726/MP2L2/PCM |  |
| 3.14. | Audio Bit Rate | Vismaz 64Kbps(G.711)/16Kbps(G.722.1)/16Kbps(G.726)/32-160Kbps(MP2L2) |  |
| 3.15. | Max. Resolution | Vismaz 4000 × 3000 |  |
| 3.16. | Main Stream Max. Frame Rate | Vismaz 50Hz: 20fps (4000 × 3000), 25fps (3000 × 3000, 2560 × 2560) |  |
| 3.17. | Sub Stream Max. Frame Rate | Vismaz 50Hz: 20fps (720 × 720) |  |
| 3.18. | Image Enhancement | Vismaz BLC, HLC, defog, 3D DNR |  |
| 3.19. | Image Setting | Vismaz Saturation, brightness, contrast, sharpness, AGC and white balance are adjustable by client software or web browser |  |
| 3.20. | Region of Interest | Vismaz 3 fixed region for each stream |  |
| 3.21. | Day/Night Switch | Vismaz Day/Night/Auto/Schedule/Triggered by Alarm In |  |
| 3.22. | Picture Overlay | LOGO picture can be overlaid on video |  |
| 3.23. | Mount Type | Vismaz table, wall, and ceiling |  |
| 3.24. | Decoding Mode | Vismaz hardware decoding and software decoding |  |
| 3.25. | Display Mode | Vismaz 16 display modes in total Software decoding: Ceiling mount: fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 2PTZ, 4PTZ, fisheye + 3PTZ, fisheye +8 PTZ, hemisphere, AR hemisphere Wall mount: fisheye view, panorama view, panorama + 3PTZ, panorama + 8PTZ, 4PTZ, fisheye + 3PTZ, fisheye +8 PTZ Table mount: fisheye view, 180 panorama view, 360 panorama view, 360 panorama + PTZ, 360 panorama + 3PTZ, 360 panorama + 6PTZ, 360 panorama + 8PTZ, 4PTZ, fisheye + 3PTZ, fisheye +8 PTZ Hardware decoding: Ceiling mount: fisheye view, 180 panorama view, panorama view, 4PTZ, fisheye + 3PTZ Wall mount: fisheye view, 180 panorama view, panorama view, 4PTZ, fisheye + 3PTZ Table mount: fisheye view, 180 panorama view, panorama view, 4PTZ, fisheye + 3PTZ |  |
| 3.26. | Environment Noise Filtering | Support |  |
| 3.27. | Audio Sampling Rate | Vismaz 8 kHz/16 kHz |  |
| 3.28. | Behavior Analysis | Vismaz Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection |  |
| 3.29. | Network Storage | Vismaz microSD/SDHC/SDXC card (256 G), local storage and NAS (NFS,SMB/CIFS), ANR |  |
| 3.30. | Alarm Trigger | Vismaz Motion detection, video tampering alarm, network disconnected, IP address conflicted, illegal login, HDD full, HDD error |  |
| 3.31. | 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 |  |
| 3.32. | API | Vismaz ONVIF (PROFILE S, PROFILE G), ISAPI |  |
| 3.33. | Communication Interface | Vismaz 1 RJ45 10M/100M/1000M self-adaptive Ethernet port |  |
| 3.34. | Audio | Vismaz 1 Audio input (line in, 3.5 mm), 1 audio output (line out, 3.5 mm); 1 built-in microphone, 1 built-in speaker, mono sound |  |
| 3.35. | On-board storage | Vismaz Built-in micro SD/SDHC/SDXC slot, up to 256 GB |  |
| 3.36. | Power Supply | Vismaz 12 VDC±20%, PoE (802.2at, class 4), two-core terminal block |  |
| 3.37. | Power Consumption | Ne vairāk kā 15 W |  |
| 3.38. | IR Range | Vismaz 15 m |  |
| 3.39. | Protection Level | Vismaz IP66, IK10 |  |
| **4.** | **Sadales skapis** (3 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
| 4.1. | Materiāls | tērauds |  |
| 4.2. | Aizsardzība | Vismaz IP66 |  |
| **5.** | **Atmiņas karte** (3 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
| 5.1. | Formāts | MicroSD |  |
| 5.2. | Klase | Vismaz 10 |  |
| 5.3. | Ietilpība | Vismaz 256GB |  |
| **6.** | **Bezvadu tīkla iekārta 1** (3 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
| 6.1. | CPU nominal frequency | Vismaz 650 MHz |  |
| 6.2. | Size of RAM | Vismaz 64 MB |  |
| 6.3. | Storage size | Vismaz 16 MB |  |
| 6.4. | Tested ambient temperature | Vismaz -40°C to 70°C |  |
| 6.5. | MTBF | Vismaz 100'000 |  |
| 6.6. | Max power consumption | Ne vairāk kā 5 W |  |
| 6.7. | Wireless 2.4 GHz Max data rate | Vismaz 300 Mbit/s |  |
| 6.8. | Wireless 2.4 GHz number of chains | Vismaz 2 |  |
| 6.9. | Antenna gain dBi for 2.4 GHz | Vismaz 10 |  |
| 6.10. | 10/100 Ethernet ports | Vismaz 1 |  |
| 6.11. | Certification | Vismaz CE, FCC, IC, EAC, ROHS |  |
| **7.** | **Bezvadu tīkla iekārta 2** (1 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
| 7.1. | CPU nominal frequency | Vismaz 720 MHz |  |
| 7.2. | Size of RAM | Vismaz 64 MB |  |
| 7.3. | Storage size | Vismaz 16 MB |  |
| 7.4. | Tested ambient temperature | Vismaz -40°C to 70°C |  |
| 7.5. | MTBF | Vismaz 200'000 |  |
| 7.6. | Max power consumption | Ne vairāk kā 11 W |  |
| 7.7. | Wireless 2.4 GHz/5 GHz Max data rate | Vismaz 433 Mbit/s |  |
| 7.8. | Antenna gain dBi for 2.4 GHz/5 GHz | Vismaz 6 |  |
| 7.9. | 10/100/1000 Ethernet ports | Vismaz 1 |  |
| 7.10. | Certification | Vismaz CE, FCC, IC, EAC, ROHS |  |
| 7.11. | PCB temperature monitor | Atbalsta |  |
| 7.12. | Voltage Monitor | Atbalsta |  |
| **8.** | **Bezvadu tīkla iekārta 3** (1 gab.) | | *!!! Šeit jānorāda konkrētās*  *pretendenta piedāvātās iekārtas*  *ražotājs un modelis!!!* |
| 8.1. | CPU nominal frequency | Vismaz 650 MHz |  |
| 8.2. | Size of RAM | Vismaz 64 MB |  |
| 8.3. | Storage size | Vismaz 16 MB |  |
| 8.4. | Tested ambient temperature | Vismaz -40°C to 60°C |  |
| 8.5. | MTBF | Vismaz 200'000 |  |
| 8.6. | PoE in | 802.3af/at |  |
| 8.7. | PoE in input Voltage | 12-57 V |  |
| 8.8. | Max power consumption | Ne vairāk kā 19 W |  |
| 8.9. | PoE out | Passive PoE up to 57V |  |
| 8.10. | 2G bands | Vismaz 2 (1900MHz) / 3 (1800MHz) / 5 (850MHz) / 8 (900MHz) |  |
| 8.11. | 3G bands | Vismaz 1 (2100MHz) / 2 (1900MHz) / 5 (850MHz) / 8 (900MHz) |  |
| 8.12. | LTE Category | Vismaz 4 (150Mbps Downlink, 50Mbps Uplink) |  |
| 8.13. | LTE FDD bands | Vismaz 3 (1800MHz) / 7 (2600MHz) / 20 (800MHz) / 31 (450MHz) |  |
| 8.14. | LTE TDD bands | Vismaz 41n (2500MHz) / 42 (3500MHz) / 43 (3700MHz) |  |
| 8.15. | 10/100 Ethernet ports | Vismaz 2 |  |
| 8.16. | Number of SIM slots | Vismaz 2 Modem (Micro SIM) |  |
| 8.17. | MiniPCI-e slots | Vismaz 1 |  |
| 8.18. | Certification | Vismaz CE, EAC, ROHS |  |

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