# *ANNEX II + III:* TECHNICAL SPECIFICATIONS + TECHNICAL OFFER

**Contract title: Supply of Supply of Integrated System for Early Warning of Fires p 1 /…**

**Publication reference:** **CB007.2.31.131-PP2-02**

**Columns 1-2 should be completed by the contracting authority**

**Columns 3-4 should be completed by the tenderer**

**Column 5 is reserved for the evaluation committee**

Annex III - the contractor's technical offer

The tenderers are requested to complete the template on the next pages:

* Column 2 is completed by the contracting authority shows the required specifications (not to be modified by the tenderer),
* Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words ‘compliant’ or ‘yes’ are not sufficient)
* Column 4 allows the tenderer to make comments on its proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offeredspecifications.

| **1.**  **Item number** | **2.**  **Specifications required** | **3.**  **Specifications offered** | **4.**  **Notes, remarks,  ref to documentation** | **5.**  **Evaluation committee’s notes** |
| --- | --- | --- | --- | --- |
| **1** | **Integrated system for early warning of fires in municipality of Slivnitsa** |  |  |  |
| **1.1** | **Drones – 2 pcs.**  Aircraft:   * Diagonal wheelbase (min.) – 940 mm; * Dimensions (min.) - 940(mm) x 940(mm) x 521(mm); * Package Dimensions (Min.) - 600(mm) x 430(mm) x 720(mm); * Satellite Positioning Systems - GPS/Beidou/GLONASS; * Net Weight (Min.) - 3.3kg(7.28lb); * Max. Takeoff Weight - 10kg(22.05lb).   Flight parameter:   * Hovering power (min.) - 768W; * Hovering Time (Min.) - 35mins; * Max. Speed - 25m/s; * Max. Flight Height - 1500m (4921.3ft); * Max. Takeoff Altitude 5000m(16404.2ft); * Max. Ascent Speed - 15m/s; * Max. Descent Speed - 2.5m/s; * Max. Tilt Angle - 25°; * Max. Wind Speed Resistance - 14m/s; * Max. Angular Velocity – 100 °/s; * Max. Flight Time – 38 mins.   Remote controller:   * Max Transmission Distance (Max.) - 5 Km; * Battery (Max.) - 25 LiPo, 7800mAh.   Power battery:   * Capacity - 22000mAh; * Battery Type – LiPo; * Net Weight - 2.9kg (6.39lb).   Camera:   * 1/1.9” STARVIS™ CMOS; * Effective Pixel (Min.) - 2560(H)x1920(V), 6 Megapixels; * Optical zoom (Max.) - 30x; * Pan/Tilt Range - Pan: ±168°; Tilt: -90° ~ 45°; * Pan/Tilt Speed - Pan: 130°/s; Tilt: 130°/s; * Encoding - H.265/H.264/MJPEG; * Resolution - 6M(2560×2560)/5M(2560×1920)/3M(2048×1536)/1080P(1920×1080); * Storage (Max.) - Micro SD Card 128G.   Thermal camera:   * Thermal Pixel – 640 (H)x512 (V); * Pixel Size – 17 μm; * Thermal Sensitivity - ≤40 mK; * Focal Length – 19 mm; * Pan/Tilt Range - Pan: ±168°; Tilt: -90° ~ 45°; * Pan/Tilt Speed - Pan: 130°/s; Tilt: 130°/s; * Accuracy - ±0.01°; * Encoding - H.264/MJPEG; * Storage - Micro SD Card 128G   Live broadcasting:   * Resolution (Max.) - 1920(H) x 1080(V), 2 Megapixels; * Optical Zoom ((Max.) - 12x; * Speaker Effective Distance - ≥100m(328ft); * Storage - Micro SD Card 128G; * Easy Installation – Support. |  |  |  |
| **1.2.** | **Situation centre** |  |  |  |
| **1.2.1** | **Video wall – 4 pcs.**  The video walls must perform the following functions:   * Decode the real-time video to wall; * Decode the playback video to the video wall; * Manually/automatically decode to wall; * Control the video wall split; * Change the stream type of video channel; * Adding box, on/off screen and back display; * Tour the video channel; * Schedule plan: Set the running task on timeline; * Tour plan: Loop different task, can set loop time; * Supports NKB to control video wall; * Bind resources; * Target management; * Statistics; * Playback; * Live view; * Log; * Backup and restore.   The video wall must consist of 4 pcs. screens with the following specifications:  System:   * Diagonal - 46"(16:9); * LCD Technology - S-PVA; * Resolution - 1920×1080 (FHD); * Bezel width - 5.3mm; * Backlight - Direct LED; * Brightness/Luminance (Standard) - 500 cd/㎡; * Contrast - 3500:1; * Pixel Density - 48dpi; * Viewing Angle - H178°, V178°; * Response time - 8ms; * Display Color - 8bit; * Color Temperature - 10,000K; * MTBF - 50,000h.   Video signals:   * Video Input - CVBS(BNC)×2; * PC Signal - VGA(D-Sub)×1; * Digital Signal - DVI-D×1 [1080P(1920×1080), downward compatible]; * Loop Out - CVBS(BNC)×2.   General:   * Consumption (Standard) - 133W; * Consumption (Standby) - ≤1W; * Power Supply - AC90~264V (+/-5%), 50/60 Hz; * Installation Mode (all optional) - Modular Stacking/ Cabinet installation (Back up); * Control Signal - Infrared, RS232 double mode, supporting remote PC control; * Weight - 28.5kg; * Dimension(no structure) - 1024.1×579.0×133.0mm; * Work Environment - Temperature: 0℃~+50℃.   Decode for video wall  Accessory for video wall vase installation must include the following elements:   * Frame - For screens; * Cable - HDMI cable 15 meters ; * Appendix - remote controller , belt ,screw and so on; * Wooden box for Base - Inner size 1050×1020×1000H; * Box for frame - 4 in 1(inner size 1060×930×750; * Tray for Sreens - 4 in 1（size 1280\*1150\*100;   Working station – 2 pcs  The working station include 2 pcs. ordinary monitors with the following specifications:   * Diagonal - 21.5"(16:9); * Resolution - 1920×1080 (FHD); * Backlight – LED; * Brightness/Luminance (Standard) - 250 cd/m2; * Contrast - 1000:1; * Angle of view - 178°/178°(vertical/horizontal); * Response Time – 14 ms; * Display Colors - 16.7M; * VESA - 100×100.   General specifications:   * Consumption (Standard) - 26W; * Consumption (Standby) - ≤0.4W; * Power Supply - AC110~240V, 50/60 Hz; * Net Weight - 3.2kg; * Dimensions(no base) - 489.8×293.7×42.7mm; * Work Environment - Temperature: 0°~40°.   Decoder specification:   * 9ch@12M/9ch@4K / 14CH@500M/36ch@1080P;   PC workstation   * Maximum Memory - Up to 16 GB DDR4-2400 SDRAM 6; * Communications - LAN: Integrated 10/100/1000M gigabit Ethernet controller; Realtek RTL8111HSH-CG GbE Ethernet Controller9 WLAN: Intel® 3168 802.11ac (2x2) wireless with Bluetooth® M.2 combo card non-vPro™ (optional)10; * Available Software – n/a; * Power - 180 W AC power adapter; * Weight -max 5.45 kg (Configured with 1 HDD and 1 ODD. Exact weight depends on configuration); * Energy Efficiency Compliance - ENERGY STAR® certified and EPEAT® Silver registered configurations available18   Aggregation switch:   * Interfaces - 10/100/1000BASE-T port x 20 Combo 1000BASE-T/SFP port x 4; * Management Ports - One Console port; * Reset Button - One Restore Factory Default Button; * Switching Capacity - 350Gbps; * Packet Forwarding Rate - 35.7Mpps; * Working Temperature - -10~55°C; * Storage Temperature - -40~70°C; * Operating Humidity - 5%~95% Non-condensing; * Dimensions - 440(L)×285(W)×44.5(H)mm; * Weight - <5Kg; * Input Voltage - AC: 110~240V/50~60Hz; * Power Consumption - <50W.   Wireless:   * 2.4G: 0-200m(0-656.2ft); 5G: 0-5Km(0-16.4Kft);   Network storage:   * Main Processor - 64-bit high-performance Intel processor; * Controller - Single controller; * Memory - 4GB by default; * Operating System - Embedded LINUX; * User Interface – Web.   Working mode:   * Video Stream Mode - Max 512 channel; 1024Mbps for incoming/recording; 512Mbps for incoming/recording/forwarding; 64 channel(128Mbps) network playback; * Transfer Mode - 4096Mbps front-end connection 4096Mbps network transfer; * IP SAN Mode - Storage bandwidth shall not be less than 2.4Gbps.   Storage:   * HDD Amount - 16 HDDs, Up to 8 TB capacity for each HDD; SATA HDD composite connection * miniSAS - 1 miniSAS ports, for storage extension; * HDD Installation - Additional HDD bracket, HDD hot-swap, HDD online replacement; * HDD Mode - Single, RAID0/1/3/4/5/6/10/50/60(Enterprise-level HDDs are recommended), JBOD, hotspare   Recording:   * IP Camera Input - 512 Channel; * Record Rate - 1024Mbps; * Record Mode - Manual, Schedule(Regular, Continous), Motion Detection, Alarm; * Record Interval - 1 ~ 120 min(default 60 min); Pre-record 1 ~ 30 sec; Post-record 10 ~ 300 sec.; I frame storage by period.   Network:   * Interface - 2 data RJ-45 ports (10/100/1000Mbps); * Network Mode - Multi-address, Fault-tolerance, Load balance, Link aggregation; * Network Function - HTTP, HTTPs, TCP/IP, IPv4/IPv6, UPnP, RTP, RTCP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE,DDNS, iSCSI, SMB, NFS, FTP, Alarm Server, IP Search, DVR, NVS, etc.) * Max. User Access - 128 users; * Smart Phone - iPhone, iPad, Android; * Interoperability - ONVIF 2.4, CGI Conformant.   Construction:   * Chassis - 1.2mm extra-thickness hot-dip; galvanized steel; high accuracy aluminum alloy slider; self-developed patent removable HDD bracket; * Dimensions(W x D x H) - 3U, 484.6mm x 473.6mm x 133.2mm ; (19.1" x 18.6" x 5.2"); * Net Weight -max 10kg (22.0 lb) (without HDD); * Gross Weight -max 15kg (33.1 lb); * Installation - Standard 19-inch rack installation.   DSS Server:   * The image must go through the decoder and to depict it on the video wall. * The managing of the monitors on the video wall must allow the working option of monitors as one screen; * The DSS server must include operation system.   Management Platform:   * The management platform must manage the video streaming; the alarms from the drones; * The management platform must be flexible, scalable, high reliable and powerful; * The management platform must have client-server architecture and possibility for integration with multiple surveillance systems; * The management platform must provide: central management, information sharing, convenient connection, multi-service cooperation; user permission management, device management, alarm management, central storage, video wall, map; People counting, business analysis, face recognition, radar smart track, fisheye smart track, violation; * Components: Central Management Service (CMS), Device Management Service(DMS), Storage Service (SS), Media Transmission Service (MTS), Auto Register Service (ARS), Alarm Dispatch Service(ADS); * Compatibility: must be able to connect to third-party devices via standard ONVIF protocol; SDK for third – party platform or mobile development; * Must provide the following main functions: Organization management, Role and user management, Event management, Display event alarm info including alarm time, alarm name, alarm status, etc., View the live video or pictures from related camera, Acknowledge the event alarm, Arming control for event alarm, Forward the alarm to relevant user, Send alarm e-mail, Process the alarm events, Search alarm; events, Map, View the live video and playback on the map, Zoom in and zoom out the map, Decode the video to video wall quickly, Supports the area or length calculating for GIS map, Supports visible range and initial angle, Channel flash on map when alarm is occurring., Storage. * Must have channel license. |  |  |  |
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