

INVITATION TO PARTICIPATION

in re-technologization of the TV area: studio no.5

through procurement procedure: *Open tender*

1. Name of the contracting authority: *Public Institution – Teleradio-Moldova Company*
2. Identification number: *1004600050558*
3. Address: *1 Miorita Street, Chisinau Municipality*
4. Telephone/fax number: *022 721047, 022 723352, 022 406935, 068760600, 068088984*
5. E-mail and web address of the contracting authority: trm@trm.md, www.trm.md
6. E-mail or web address, which the access to the awarding documentation may be obtained from: e-mail achizitii@trm.md (the awarding documentation shall be enclosed within the procedure in the Automated Information System 'State Register of Public Procurement', MTender).
7. Kind of the contracting authority and main type of activity (if this is the case, there shall be mentioned that the contracting authority is a central procurement authority or that the procurement implies another form of common procurement): *Public Institution*
8. The Buyer invites economic agents concerned that can satisfy its needs, to take part in the procurement procedure for delivery/provision of the following goods/services/works:

Video System					Lot no.1
Ord. no.	CPV code	Name of the goods	Goods description and technical specifications (minimum technical requirements)	Qty	Measurement unit
1.1	32224000-9	PTZ Camera	Features Large 1" type MOS sensor HDMI, SDI, and IP output up to UHD 4K 20x optical, 32x iZoom in HD, 24x iZoom in UHD 4K Wide 75.1° horizontal angle of view (DRS) High Dynamic Range (HDR) mode with BT.2020 gamut support Optical Image Stabilization (IOS) Crop up to three shots from a single 4K image Large, adjustable tally light Adaptive Matrix function adjusts for strong LED blue light 1/4, 1/16, 1/64 ND filters Audio input and embedding FreeD Support for Construction of AR/VR Systems Improved web UI for use with PC, tablet, or smartphone (iOS, Android) Maximum 180°/s pan/tilt in high-speed mode Monochrome Night Mode Digital Noise Reduction (DNR) Live streaming via RTMP Upgradable to NDI/HX with license Image Sensor Image Sensor - 1-Chip 1" MOS Sensor Horizontal Resolution (TV Lines) - 1600 TV Lines Gain - 0 to 42 dB (Expanded) Signal-to-Noise Ratio - 60 dB Sensitivity - f/9 at 2000 lux White Balance Range - 2000 to 15,000K Camera Shutter Speed - 1/24 to 1/10,000 sec Max Digital Zoom - 32x (in 1080p) IR Cut Filter Lens Optical Zoom Ratio - 20x Focal Length - 8.8 to 176mm 35mm Equivalent Focal Length - 24.5 to 490mm Field of View - Horizontal: 75.1 to 4°; Vertical: 46.7 to 2.3°; Vertical: 82.8 to 4.6°. Maximum Aperture - f/2.8 to 4.5 Minimum Focusing Distance - Wide: 3.9" / 9.9 cm; Telephoto: 39.6" / 100.6 cm Image Stabilization - Optical Focus Control – Autofocus; Manual Focus Video Output Broadcast System Compatibility - NTSC, PAL Output Formats - SDI, HDMI, RJ45, Optical Fiber: 3840x2160p at 24, 25, 29.97, 50fps 1920 x 1080p at 25, 29.97, 50, 59.94 fps	4	Pcs.

			<p>1920 x 1080PsF at 23.98, 25, 29.97 fps 1920 x 1080i at 50, 59.94 fps Embedded Audio – HDMI/SDI IP Streaming - H.264, H.265, MJPEG: 1080p, 720p at 25p, 30p, 50p, 60p</p> <p>Control Move Speed - Pan: 0.08 to 180°/sec; Tilt: 0.08 to 180°/sec Movement Range - Pan: 350° (-175 to 175°); Tilt: 120° (-30 to 210°) Tally Light Supported Control Protocols - RS-232; RS-422</p> <p>Interfaces Video Output Connectors - 1 x HDMI Type A (HDMI 2.0) Male 1 x BNC Male (Loop Output) 1 x BNC (3G-SDI) Male Audio I/O - 1 x 1/8" / 3.5 mm Stereo Mic/Line Level Input Control Interface - 1 x RJ45 (IP Control, RS-422) Other I/O - 1 x BNC (Genlock) Input Expansion Slots - 1 x SFP+ Slot</p> <p>Power PoE Support - PoE++ 802.3bt Power Connectors - 1 x Proprietary (10.8 to 13.2 VDC) Include POE++ Injector 54 VDC at 1.5A Output Voltage, 80W Output Power, 100 to 240 AC at 50/60 Hz Input Voltage (EU) (Equivalent to POE-54-80W) Include Power Supply: 10.8 to 13.2 VDC at 4A HA216P-4S (4-pin), 100 to 240 AC at 50/60 Hz Input Voltage (EU)</p>		
1.2	32224000-9	Remote PTZ Camera Controller	<p>Key Features Control up to 200 Compatible PTZ Cameras Serial Control 5 Cameras Directly Zoom/Focus Rocker Joystick Touch Panel GUI, Touch Focus & More</p> <p>General Number of Supported Cameras - 200 Channels via IP 5 Channels via RS-422 Control Interface - 1 x RJ45 (LAN) Other I/O - 2 x 25-Pin D-Sub (GPI, Tally); 5 x RJ45 (RS-422, Tally) Video Connectors - 1 x BNC (3G-SDI) Input; 1 x BNC (3G-SDI) (Loop Output) Controls - 10 x Camera Selection Buttons Memory Card Slot 1 x SDXC</p> <p>Display Size - 7" Resolution - 800 x 480 Touchscreen</p> <p>Power PoE Support - PoH 802.3at Power Connectors - 1 x 4-Pin XLR DC Input Power - 10.8 to 13.2 VDC at 1 A</p>	1	Pcs.
1.3	32224000-9	Processor, keying	<p>An advanced real time compositing processor designed for keying live action video with next generation broadcast graphics, virtual sets and more. Features new algorithms and color science, incredible edge handling and color separation, amazing color fidelity, and better spill suppression than ever before. The high performance 12G-SDI design gives you the power to work in UltraHD and HD with sub pixel processing for amazing image.</p> <p>Connections SDI Video Inputs - 7, plus monitor in SDI Video Outputs – 9 SDI Video Loop - 7 x relocked SD, HD, Ultra HD for corresponding inputs. SDI Rates - 270Mb, 1.5G, 3G, 6G, 12G multi rate support Reference Input - Tri-Sync or Black Burst Reference Loop Output - Tri-Sync or Black Burst Control Panel Connection - Ethernet supports 10/100Mbps. GPIO - 5 x GPI In; 1 x GPI Out; 1 x Tally In.</p>	4	Pcs.
1.4	32224000-9	Remote Control for processor, keying	<p>The Remote controls up to 8 unit id numbers via Ethernet or up to 8 unit id numbers via RS485. Its larger display area and adjustable stand, along with brightness controls for both display and button illuminations, makes the operation user-friendly. With "Monitor Out Views" accessible from every menu, Remote control provides the fastest and easiest navigation for every operator.</p> <p>User-friendly operation Fast and easy navigation Control up to 8 unit id numbers via RS485 Control up to 8 unit id numbers via Ethernet</p> <p>Connections Software Updates - 2 x USB 2.0 and 1 x USB 3.0 for firmware updates. SVGA Output - SVGA output allows graphic to be viewed on an external VGA monitor. Ethernet - 2 x 10/100 Mbps Ethernet ports to connect to LAN networks for controlling processor, keying. RS-422 - 2 x for controlling processor, keying.</p> <p>Product Specifics Rotary Knobs - 8 x rotary knobs for adjusting parameters. Unit ID Buttons - 8 x buttons. Illuminated blue for active. Unit ID LED Indicators - Illuminated green for on line and red for on air. Alt+Quick Load/Save Buttons-Alt button plus 5 buttons for saving files into volatile RAM Quick Load/Save Buttons - 5 x buttons for loading files stored in volatile RAM. File Clear Button - 1 x button for One Touch Keying. Alt + File Clear - Alt button plus file clear button for One Touch Keying using some user defined presets.</p>	1	Pcs.

			Customizable Menus - 4 x menus for building your own menu with your most used controls. LED Control - User adjustable brightness control for LEDs. Fan Speed Control - User adjustable. Equivalent to Ultimate Smart Remote 4		
1.5	32224000-9	Video hub	Key Features Routing Switcher with Frame Syncing 12 x 6G-SDI Inputs / 12 x 6G-SDI Outputs Supports SD, HD, Ultra HD 4K, DCI 4K 4:2:2 and 4:4:4 Sampling 10-Bit Processing SDI Relocking Built-In LCD with Spin Knob Control Push Buttons on Front Panel Ethernet for Remote Control Video hub Control Software Included Connections SDI Video Input - 12 x 10-bit SD/HD/6G-SDI SDI Video Output - 12 x 10-bit SD/HD/6G-SDI Reference Input - Blackburst and TriSync for SD, HD and UHD 4K Multi-Rate Support - Auto detection of SD, HD, or 6G-SDI. Simultaneous routing of 4K, HD, SD video and DVB-ASI Updates - USB 2.0 high speed (480 Mb/s) interface or via Ethernet Control - 12 buttons for local control of Video hub 6 buttons and scroll wheel for control of LCD display 1 x RJ45 Ethernet 1 x RS-422 input for controlling router crosspoint switching Configuration - Via front panel LCD or use either RJ45 Ethernet USB 2.0 for setting IP address only Relocking - On all SDI outputs, auto switching between SD, HD, or 6G-SDI video Software Software Control - Router control included free for Windows and Mac OS X Internal Software Upgrade - Via included updater application General Display - LCD for video and menu settings Power Supply - IEC power cable required; 90 to 240 VAC input	1	Pcs.
1.6	32224000-9	Video hub	Key Features Routing Switcher 40 x 6G-SDI Inputs / 40 x 6G-SDI Outputs Supports SD, HD, Ultra HD 4K, DCI 4K 4:2:2 and 4:4:4 Sampling 10-Bit Processing SDI Relocking Built-In LCD with Spin Knob Control Push Buttons on Front Panel Ethernet for Remote Control Video hub Control Software Included Connections SDI Video Input - 40 x 10-bit SD/HD/6G-SDI SDI Video Output - 40 x 10-bit SD/HD/6G-SDI Reference Input - Blackburst and TriSync for SD, HD and UHD 4K Multi-Rate Support - Auto detection of SD, HD, or 6G-SDI. Simultaneous routing of 4K, HD, SD video and DVB-ASI Updates - USB 2.0 high speed (480 Mb/s) interface or via Ethernet Control - 40 buttons for local control of Video hub 6 buttons and scroll wheel for control of LCD display 1 x RJ45 Ethernet 1 x RS-422 input for controlling router crosspoint switching Configuration - Via front panel LCD or use either RJ45 Ethernet USB 2.0 for setting IP address only Relocking - On all SDI outputs, auto switching between SD, HD, or 6G-SDI video Software Software Control - Router control included free for Windows and Mac OS X Internal Software Upgrade - Via included updater application General Display - 5" (12.7 cm) LCD for video and menu settings Power Supply - IEC power cables required; 2 x 90 to 240 VAC input (for redundancy)	1	Pcs.
1.7	32223000-2	Multiview convertor (Set)	1 to 16 Channel MultiViewer with HDMI output for 3G/HD/SD and Custom Layouts Support for both 3G level A and B on the inputs. Miniature (3G/HD/SD)-SDI 1 to 16 channel Multi-Viewer Custom Layouts with various standard layouts 16 Character UMD overlay per window with individual enables, custom positioning and size Audio ID overlay Load and restore Custom Layouts Fast switching between inputs using Full-Screen scaling Selectable output format in both Full-Screen and Multi-Viewer mode Low latency buffering for each input allowing non-synchronous inputs 16 x (3G/HD/SD)-SDI inputs with auto detection (26 Formats supported in total) Each window is independent of the others, allowing any 3G/HD/SD format of any frame rate to be displayed simultaneously Variable aspect ratios per window Pass-Through mode allowing any of the 16 inputs to be selected and routed to the HDMI output	2	Pcs.

			<p>In Pass-Through mode the selected input is passed through to the HDMI output</p> <p>Also includes:</p> <ul style="list-style-type: none"> USB port for control and firmware updates Heavy duty metal box Metal Thread Locking DC Power Socket Power Supply, HDMI Cable and USB Cable <p>Monitor</p> <p>Display</p> <ul style="list-style-type: none"> Series 8 Screen Size 55" Resolution 3,840 x 2,160 <p>Video</p> <ul style="list-style-type: none"> Picture Engine Crystal Processor 4K PQI (Picture Quality Index) 2200 HDR (High Dynamic Range) HDR HDR 10+ Support HLG (Hybrid Log Gamma) Contrast Mega Contrast Color Dynamic Crystal Color Micro Dimming UHD Dimming Natural Mode Support <p>Audio</p> <ul style="list-style-type: none"> Dolby Digital Plus Q-Symphony Q-Symphony Audio Pre-selection Descriptor Sound Output (RMS) 20W Speaker Type 2CH <p>Tuner/Broadcasting</p> <ul style="list-style-type: none"> Digital Broadcasting DVB-T2C Analog Tuner CI (Common Interface) CI+(1.4) / CI+(1.4 ECP)_IT only Data Broadcasting HbbTV 2.0.2 TV Key Support <p>Connectivity</p> <ul style="list-style-type: none"> HDMI 3 USB 2 Ethernet (LAN) Digital Audio Out (Optical) 1 RF In (Terrestrial / Cable input) 1/1(Common Use for Terrestrial)/0 CI Slot 1 HDMI A / Return Ch. Support eARC HDMI Quick Switch Wireless LAN Built-in Bluetooth Anynet+ (HDMI-CEC) 		
1.8	32323000-3	Studio Monitor	<p>Features</p> <p>Full HD LCD panel 23.8" 1920×1080 pixel with LED back-lighting; Supports 4K-HDMI and 3G-SDI; 10-bit processing Video Processing; Special ZERO Latency Mode for critical Audio/Video applications; Webserver IP remote control; Safety area election: 80%, 85%, 90%, 93%, 95%; Scale marker: 4:3, 13:9, 14:9, 15:9, 1.85:1, 2.35:1; 3DLUT auto color calibration; Built-in De-log LUTs; User 3DLUT upload; Selectable gamma preset 1.8, 2.2, 2.4 and 2.6.; 16-ch audio level meters with alert and output selection; Built-in waveform monitor, with Line-Selector (for HDSDI sources); Built-in vector scope and histogram monitor; H/V delay, freeze frame display mode; Frame/Field view selection; Native scan, over scan and normal scan selection; R/G/B/Mono, False color, Zebra stripes display; Focus assist display mode; USB Firmware update options; V-mount battery plate for field application; GPI control via RS485 port connection; 3 User setting data storage; 6 User definable function keys; On-screen TALLY display (Soft-and Hardware Tally); TSL UMD and User editable video title; SDI Timecode display; AFD (Active Format Description) info display</p> <p>Panel Specifications</p> <ul style="list-style-type: none"> Panel size (diagonal in inch) - 23.8 Panel resolution - 1920 X 1080 Pixels Panel Aspect Ratio - 16 to 9 Panel Type LCD Panel Modulation IPS Back-light LED Brightness in cd/m² - 250 Panel Bit depth: - 8 Image Processing Bit depth - 10 Viewing angle H/V - H 178 / V 178 Contrast Ratio - 1000:1 <p>IN-OUT's Connections VIDEO</p> <ul style="list-style-type: none"> Number of HDSDI Inputs - 2 Input HDMI, HDMI 2.0 Number of HDMI Inputs - 1 Input RGB/VGA, Sub-D 15 PIN Input YUV, 3 x BNC Input Composite, BNC Numbers of Composite Inputs - 1 Loop out HDSDI, 3G 2 x 2 (for each unit 2 outs) Loop out HDMI, HDMI 2.0 Loop out Composite 	1	Pcs.

			IN-OUT connections AUDIO Audio Line IN, 2 times RCA Headphone out, 3.5 mm mini jack Speaker integrated, 2 IN-OUT Connections Controls GPI IN, RJ45 RS485/422 IN, RJ45 RS485/422 Loop out IP Ethernet Port, RJ45 USB Port, 2 x (1x for Firmware / 1 x Front for Color Probe) Dedicate Functions SDI Timecode, LTC, VITC1&2 R/G/B/Mono False color Peaking focus assist H/V delay Field/Frame mode, Field 1 / Field 2 Scan Modes - 4:3/16:9 Freeze frame Safety area markers, 80%, 85%, 90%, 93%, 95% Scale Markers, 4:3, 13:9, 14:9, 15:9, 1.85:1, 2.35:1 Tally via GPI, include IMD/UMD and Top LED Tally via TSL Protocol Tally Multi-Color, 3 colors Low Latency Mode, its special processing, only a view lines delay, so called zero latency, please no image adjustment during this mode. Environment Power Save function User presets, 3 Memories Auto Aspect, Analogue and Digital sources Picture Flip modes Direct Brightness/Contrast/Color control Dedicate Features Auto source search Measurement and indication Tools – Waveform, Vector-scope, Histogram, Audio Level Meter Power and Environment Spec's Power AC, Build in 110 V to 240 Volts Power DC, 11V to 17V DC Connector Type: - 4 PIN XLR Include Package AC Power cord Others - Metal Display Stand		
1.9	32323000-3	Studio Monitor	Connections SDI Video Input - Automatically switches between SD, HD and 3G-SDI. Relocked loop through output. Multi Rate Support - Auto detection of 2K, HD or standard definition inputs. Updates and Configuration - Via USB 2.0 high speed (480 Mb/s) Ethernet - 10/100 BaseT with loop through. Tally - 9-pin D connector Standards SDI Compliance - SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M Level B and SMPTE 425M. SDI Color Space - REC 601, REC 709 SDI Auto Switching - Automatically selects between SD, HD and 3 Gb/s SDI. Video Sampling - 4:2:2 and 4:4:4 SDI Format Support - 525i59.94 NTSC, 625i50 PAL, 720p50, 59.94, 60; 1080p23.98, 24, 25, 29.97, 30, 50, 59.94, 60; 1080PsF23.98, 24, 25, 29.97, 30; 1080i50, 59.94, 60 2K Format Support - 1080p23.98, 24, 25; 1080PsF23.98, 24; 2K 23.98PsF, 24PsF, 25PsF Display Display Element - TFT Active Matrix LCD. Display Resolution - 800 x 480 pixels Response - < 15 ms Contrast Ratio - Typically 500:1 Color Depth - 16.7 Million Colors. Display Orientation - Displays can rotate upside down for optimum viewing angle. Software Internal Software Upgrade - Via included firmware updater software. SmartView Utility Software - Via USB or Ethernet. Power Requirements Power Supply - 12V universal power supply included with international socket adapters for all countries. Power Consumption - < 20 Watts Operational Voltage Range - 12V - 15V	1	Pcs.
1.10	32323000-3	Monitor	Display Series 8 Screen Size 55" Resolution 3,840 x 2,160 Video Picture Engine Crystal Processor 4K PQI (Picture Quality Index) 2200 HDR (High Dynamic Range) HDR HDR 10+ Support HLG (Hybrid Log Gamma) Contrast Mega Contrast	6	Pcs.

			Color Dynamic Crystal Color Micro Dimming UHD Dimming Natural Mode Support Audio Dolby Digital Plus Q-Symphony Q-Symphony Audio Pre-selection Descriptor Sound Output (RMS) 20W Speaker Type 2CH Tuner/Broadcasting Digital Broadcasting DVB-T2C Analog Tuner CI (Common Interface) CI+(1.4) / CI+(1.4 ECP)_IT only Data Broadcasting HbbTV 2.0.2 TV Key Support Connectivity HDMI 3 USB 2 Ethernet (LAN) Digital Audio Out (Optical) 1 RF In (Terrestrial / Cable input) 1/1(Common Use for Terrestrial)/0 CI Slot 1 HDMI A / Return Ch. Support eARC HDMI Quick Switch Wireless LAN Built-in Bluetooth Anynet+ (HDMI-CEC)		
1.11	32223000-2	Convertor	Key Features Converts 12G/6G/3G-SDI to Optical Fiber Supports Signals up to DCI 4K25 Multi-Rate, Bidirectional Capability Requires Separate SFP Optical Module Automatic Input Signal Detection 16-Channel Embedded Audio Support Diagrammed Function Switches Update via Converter Utility Software Locking, Universal Power Supply Input Video Input Connectors - 1 x BNC (12G-SDI) Input Video Format - SDI (4:4:4/4:2:2 RGB, YUV) DCI 4K: 23.98/24/25 fps UHD 4K: 23.98/24/25/29.97/30/50/59.94/60 fps DCI 2K: 23.98/24/25 fps DCI 2KPsF: 23.98/24/25 fps 1080p: 23.98/24/25/29.97/30/50/59.94/60 fps 1080PsF: 23.98/24/25/29.97/30 fps 1080i: 50/59.94/60 fps Embedded Audio Input - SDI: 16-Channel Output Video Output Connectors - 1 x BNC (12G-SDI / 3G-SDI / 6G-SDI) Output Video Format - SDI (10-Bit 4:4:4/4:2:2 RGB, YUV) DCI 4K: 23.98/24/25 fps UHD 4K: 23.98/24/25/29.97/30/50/59.94/60 fps DCI 2K: 23.98/24/25 fps DCI 2KPsF: 23.98/24/25 fps 1080p: 23.98/24/25/29.97/30/50/59.94/60 fps 1080PsF: 23.98/24/25/29.97/30 fps 1080i: 50/59.94/60 fps Embedded Audio Output SDI: 16-Channel Standards Video Standard Compliance - SMPTE 259M/292M/296M/297M/424M-B/425M/ST-2081; ITU -R BT.601 Connectivity Expansion Slots - 1 x SFP Slot Power Power Connector - 1 x Barrel (6 to 36 VDC) Input Power Consumption - Power Supply: 2 W	12	Pcs.
1.12	32223000-2	3G SFP Optical Module	Key Features Standard SFP Cage LC Fiber Connections Supports SD and HD Resolutions Add an LC fiber optic connection to any other professional device that supports SFP cages. 3G data rates support SD and HD resolutions, and the fiber optic communication allows for long-distance transmission without quality loss. Form Factor SFP cage Fiber Connector Duplex LC Connectors Compatible with Single mode Fiber	16	Pcs.
1.13	32560000-6	Cable	Customized 24 Fibers Indoor/Outdoor Single Mode OS2 Assembly LC, 2.0mm Breakout Cable Length - 120m Connector A - LC UPC Simplex Connector B - LC UPC Simplex Alignment A to B - Fan-out in line 0.5m to Fan-out in line 0.5m	1	Pcs.

			Pulling Eye - Pulling Tube-Both Ends Packaging – Spool		
1.14	32560000-6	Cable	20m LC UPC to LC UPC Simplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch	10	M.
1.15	32560000-6	Cable	5m LC UPC to LC UPC Simplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch	24	M.
1.16	32560000-6	Cable	30m LC UPC to LC UPC Simplex OS2 Single Mode PVC (OFNR) 2.0mm Fiber Optic Patch	4	M.
1.17	32560000-6	Panel	Adapter Panel, 48 Fibers OS2 Single Mode, 24x LC UPC Duplex Adapter, Ceramic Sleeve	2	Pcs.
1.18	32350000-1	SDI Cable	construction inner conductor: solid bare copper, Ø 0.60 mm insulation: Foam-Skin PE, gas injected, Ø 2.8 mm shielding: AL/PET/AL double-layer foil + tinned copper braid (92% coverage) outer jacket: FRNC overall diameter: 4.5 mm mechanics working temperature: -30°C / +70°C min. bending radius: 25 mm	200	M.
1.19	32350000-1	SDI Connector	Product Connection Type - BNC 75 Ω Gender – male Crimp size Pin: 1.6 mm (square) Shield: 5.0 mm (hex)	100	Pcs.
1.20	32224000-9	Stand	Lighting stand (equivalent K&M 24624) Base dimensions - 550 x 550 mm Height from 1,400 to 2,400 mm Height adjustment - spring-loaded bolt and locking screw Leg construction - flat steel plate Material – steel Max. load capacity*18 kg Special features - integrated shock absorber; gradual height adjustment system; zinc die-cast connecting parts Type – black Weight - 17.49 kg	4	Pcs.
1.21		Installation	Installation and putting into service of the video camera system, Passive/active materials and elements required for interconnection of equipment and its putting into service, Mounting works, installation and setup operations, The system shall be handed over in the ready-to-operate condition. Minimum hardware guarantee – 2 years.	1	Pcs.
In total per lot = 2,200,000 MDL, VAT exclusive					

Playout System

Lot no.2

2.1	48000000-8	Playout Software	<p>Suitable for 24/7 playout for news, music and movies channels, allowing to insert commercials and to switch between multiple live video.</p> <p>The supported output video modes SD, HD and 4K and you can play any media files (regardless of size or resolution) because the engine will automatically make the necessary resize and framerate trans-coding (and this works for any media file or live input).</p> <p>The software works under Windows 7 / 8 / 10 and Windows Server 2016 / 2019.</p> <p>The supported video modes are: HD1080p 23.98 / 24 / 25 / 29.97 / 30 / 50 / 59.94 / 60 HD1080i 50 / 59.94 HD720p 50 / 59.94 SD PAL / NTSC</p> <p>Features:</p> <ul style="list-style-type: none"> - flexible workflow supporting both database and working with storage directly - client-Server architecture so multiple clients can manage the server over network - number of output channels per PC - 4 channels - live inputs - 4 inputs (allowing switching manually or automatically) - forced starting time can be assigned for clips or live inputs - automatically transcode for files and Live inputs (so any file with size between 8K and 320 x 240 and the framerate between 3 and 120 fps can be used) - supported input and output cards: Blackmagic Design (Decklink & Intensity) - NDI (Network Device Interface) support for inputs and outputs - import folders feature (to assign same metadata to all files taken from the folder) - advanced playlist editor supporting working with multiple level grouping <p>Features added by the conformance recording module:</p> <ul style="list-style-type: none"> - record the output of each channels using a H264 codec <p>The loudness normalization allows using media without requiring a manual adjustment of the sound level.</p> <p>Other advantages of using the loudness normalization:</p> <ul style="list-style-type: none"> - real-time automatically processing, without compression or distortion - offers the best results even if the audio has a high dynamic range - possibility to achieve a predictable loudness level <p>The list of supported codecs and containers: H264 AVC Intra 50 / 100 .mxf H264 8 bit and 10 bit (4:2:0 / 4:2:2) .mp4 / .mov / .avi / .mkv / .ts Mpeg2 ps / ts (4:2:0 / 4:2:2) .mpeg / .mpg / .m2t XSCAM 35 and XdCAM 50 .mov / .mxf IMX (for both PAL and NTSC) .mxf</p>	1	Pcs.
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			ProRes .mov HEVC 8 bit and 10 bit (4:2:0 / 4:2:2) .mp4 / .mov / .avi / .mkv / .ts DNxHD 8 bit and 10 bit .mov / .mxf DNxHR .mov / .mxf DV .avi / .mov / .mxf / .dv (rawDV) DVCPRO .avi / .mov DVCPRO HD .mov Uncompressed YUV 8 bit .avi / .mov Uncompressed YUV 10bit .avi / .mov Playout License Playout HD with 4 ch + Playout Audio Module + Conformance recording Equivalent to MagicSoft Playout		
2.2	48000000-8	Software Upgrade	MagicSoft CG update from CG ver 7 HD to CG ver 8 HD (license will be installed/updated on USB dongle from CG version 7)	2	Pcs.
2.3	48820000-2	Server	Server Minimum requirements: -Chassis: 2U – 8 x 3.5 SATA, Single Socket; -Processor: CPU 16C/32T, Base Frequency: 2.1GHz, Turbo: 3.2Ghz, 22MB Cache, (100W); -Memory: 64 Gb DDR4 ECC RDIMM; -Boot Drive: 512Gb SSD; -Expansion Slots 4 PCI-E 3.0 x8 (FHFL) slots; 1 PCI-E 3.0 x8 (LP) slot -RAID Controller: RAID (0,1,5,6,10,50,60), 12Gb/s SAS and SATA controller with 1Gb Cache, with Cache Protection Module; -Hard Drive: 8 x 4TB 7.2k SATA 6Gbps, 256MB, HDD Enterprise 3.5; -Network: 2 x RJ45 10-Gigabit Ethernet; -Power Supply: 500W+, Redundant Power; -Rails for server rack; -Warranty: 3 Years; -Including extension cord 19 1.5U power socket, PDU02, 9 ports, 16A, 1.8M	1	Pcs.
2.4	48820000-2	Server	Server Minimum requirements: -Chassis: 2U GPU Server, Dual Socket; -Processor: 2 x CPU 16C/32T, Base Frequency: 2.1GHz, Turbo: 3.2Ghz, 22MB Cache, (100W); -Memory: 128 Gb DDR4 ECC RDIMM; -Expansion Slots 6 x PCI-E 3.0 x16 (double-width) slots 1 x PCI-E 3.0 x16/8 Low-profile -RAID Controller: RAID (0,1,5,6,10,50,60), 12Gb/s SAS and SATA controller with 2Gb Cache, with Cache Protection Module; -Hard Drive: 7 x 960GB 2.5" SATA 6.0Gb/s Solid State Drive; -GPU Accelerator 24GB GDDR6 - PCIe 3.0 x16 - Passive Cooling (4xDP) (Ray Tracing) equivalent la RTX6000 -Network: 2 x RJ45 10-Gigabit Ethernet; -Power Supply: 1500W+, Redundant Power; -Rails for server rack; -Warranty: 3 Years; -Including extension cord 19 1.5U power socket, PDU02, 9 ports, 16A, 1.8M	1	Pcs.
2.5	32413100-2	KVM extender	KVM USB DisplayPort HDBaseT™ 2.0 Extender integrates the latest HDBaseT™ 2.0 technologies to deliver 4K video, stereo audio, USB, Ethernet, and RS-232 signals up to 100 meters using a single Cat6 / 2L-2910 Cat 6 cable. The HDBaseT™ 2.0 guarantees the most reliable transmission on the market as well as enables the long-reach capability that extends full HD 1080P signals up to 150 meters. With an easy cable installation supporting various signals, the KVM is ideal for applications where convenient remote access is required – such as transportation control centers, medical facilities, industrial warehouses, and extended workstations. <i>Connectors</i> <u>Console Ports (Remote Unit)</u> 1 x DisplayPort Female (Black) 3 x USB Type A Female 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x RJ-45 Female (Black) 1 x DB-9 Male (Black) 1 x DC Jack with locking 1 x RJ-45 Female (Black) 1 x Wakeup button Video Up to 4K@90m (Cat 5e) / 100m (Cat 6/6a/ATEN 2L-2910 Cat6); 1080P@100m (Cat 5e/6/6a); *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) <u>KVM Ports (Local Unit)</u> 1 x DisplayPort Female (Black) 1 x USB Type B Female (White) 1 x Mini Stereo Jack Female (Green) 1 x Mini Stereo Jack Female (Pink) 1 x RJ-45 Female (Black) 1 x RJ-45 Female (Black) 1 x DB-9 Male (Black) 1 x DC Jack with locking Video Up to 4K@90m (Cat 5e) / 100m (Cat 6/6a/ATEN 2L-2910 Cat6); 1080P@100m (Cat 5e/6/6a); *4K supported: 4096 x 2160 / 3840 x 2160 @ 30Hz (4:4:4) <u>Features</u> Supports HDBaseT™ 2.0 technology - Extends video, audio, USB, RS-232, and Ethernet signals via a single Cat6 / 6a / 2L-2910 Cat 6 cable	2	Pcs.

			<ul style="list-style-type: none"> - Enhanced bit error detection and correction to resist signal interference during high-quality video transmissions - Status detection and LED indication for HDBaseT™ signal transmission on remote unit EDID Buffer for smooth power-up and the highest quality display Long distance with superior video quality <ul style="list-style-type: none"> - HDBaseT™ Standard mode up to 4K @ 100m (Cat 6 / 6a / 2L-2910) - HDBaseT™ Long-Reach mode up to 1080P @ 150m Long Reach mode switch – switches between HDBaseT™ Standard and Long Reach modes in a snap USB 2.0 full speed ports – ensures fast transmission speeds for peripherals HDCP Compatible Supports individual 2-channel stereo audio for high-quality audio applications Supports PC wakeup function via single pushbutton through RS-232 channel* Built-in 8KV / 15KV ESD protection (Contact voltage 8KV; Air voltage 15KV)		
2.6		Installation	Installation and putting into service of the Payout system, Passive/active materials and elements required for interconnection of equipment and its putting into service, Mounting works, installation and setup operations, The system shall be handed over in the ready-to-operate condition. Minimum hardware guarantee – 2 years.	1	Pcs.
In total per lot =770,000 MDL, VAT exclusive					

Audio Equipment

Lot no.3

3.1	32330000-5	AudioRack	<u>24 Mic Preamps Inputs on XLR:</u> Phantom Power LED per Input Balanced, 48 V phantom power Mic/Line Preamp: Fully recallable Input Sensitivity: -60 to 15 dBu Analogue Gain: 5 to 60 dB, 1 dB steps Pad: -20 dB active pad Maximum Input Level: 30 dBu (pad in) Input Impedance: >4 kOhms (pad out), >10 kOhms (pad in) <u>12 XLR Line Outs:</u> Balanced, relay protected Output Impedance: <75 Ohms Nominal Output: 4 dBu = 0 dB meter reading Maximum Output Level: 22 dBu Residual Output Noise: -92 dBu (muted, 20 to 20 kHz) <u>Connection</u> dSNAKE Connection with locking Ethercon port via Cat5 Mains Power 100 to 240 VAC, 50/60 Hz Expander Ethercon port for connection to an AR84 or AB168	1	Pcs.
3.2	32330000-5	Desktop Audio Meter	Desktop Audio Meter Stereo Audio Meter for Mixing, Mastering and Post Production 7" High Resolution Display (800x480) for accurate viewing USB connection for smooth plug-in integration Supports AU, VST & AAX plug-ins and all major broadcast standards including ITU BS.1770-4, ATSC A / 85, EBU R128, TR-B32 and OP-59 Features: Vectorscope for detailed L / R analysis Real Time Analyzer Balance O-meter for L / R and M / S Correlation display for phase problems True Peak Meter LM6 Loudness Radar Connections: Stereo 96 kHz AES3 digital audio at 75 Ohm BNC connection for broadcast measurement Optical S / PDIF input stereo (Toslink) USB 2.0 (Micro Type B) Incl. power supply, USB cable (1 meter) and bracket for table installation (Equivalent to TC electronic Clarity M Stereo)	3	Pcs.
3.3	32223000-2	Converter (set)	Converter de-embedder (2 pcs), including rack shelf (1pcs). Connections: 1 x 12G-SDI SD/HD/2K/4K auto switching. 1 x 12G-SDI loop output Embedded Audio Support - 16 channels 4 channels professional 110Ω balanced digital audio via XLR connectors. Right XLR can be configured for timecode output 2 channels professional balanced analog audio via XLR connectors, or 2 channel unbalanced analog line level via RCA connectors. Right XLR can be configured for timecode output S/PDIF Signal with TOSLINK Connector Automatic switching between SD/HD/2K and 4K Updates and Configuration - USB or Ethernet Re-Clocking	1	Pcs.
3.4	32223000-2	Converter (set)	Converter embedder (2 pcs), including rack shelf (1 pcs). Connections: 1 x 12G-SDI SD/HD/2K/4K auto switching 1 x 12G-SDI output	1	Pcs.

			<p>2 channels professional balanced analog audio via XLR connectors, or 2 channel unbalanced analog line level via RCA connectors. Right XLR can be configured for timecode input</p> <p>4 channels professional 110Ω balanced digital audio via XLR connectors. Right XLR can be configured for timecode input</p> <p>S/PDIF Signal with TOSLINK Connector</p> <p>Automatic switching between SD/HD/2K and 4K</p> <p>Automatic switching between SD/HD/2K and 4K</p> <p>Updates and Configuration - USB or Ethernet</p> <p>Re-Clocking</p>		
3.5	32330000-5	Lavalier microphone system	<p>Dual Wireless System with two Bodypack Transmitters and two microphones (Set)</p> <p>Frequency range: S50</p> <p>Receiver (equivalent to SLXD4D)</p> <p>Form Factor - Tabletop / Rackmount</p> <p>Mounting Options - Rackmount (with Included Hardware)</p> <p>Rackmount Size - 1 RU (Full Rack)</p> <p>Antenna - 2 x 1/4 Wave External, BNC (Rear-Mount)</p> <p>Number of Audio Channels - 2</p> <p>Audio I/O - 2 x XLR 3-Pin Male Balanced Mic/Line Output</p> <p>2 x 1/4" TRS Female Balanced Output</p> <p>Gain Range - 0 to +21 dB (3 dB Steps)</p> <p>Pad - 30 dB</p> <p>Audio Output Level - -18 to +42 dB (Balanced, Unbalanced)</p> <p>Frequency Response - 20 Hz to 20 kHz +1/-2 dB (Dependent on Mic)</p> <p>Impedance - 1/4" Outputs: 1.3 Kilohms (Balanced); 670 Ohms (Unbalanced)</p> <p>XLR Outputs: 400 Ohms (Balanced); 150 Ohms (Balanced)</p> <p>Approximate RF Sensitivity - -97 dBm</p> <p>Adjacent Channel Isolation - >70 dB</p> <p>AC/DC Power Adapter - 15 VDC at 600 mA, Center-Positive (Included)</p> <p>AC Input Power - 100 to 240 VAC, 50 / 60 Hz</p> <p>Display & Indicators - LCD (AF Level, Channel, Frequency, Group, RF Level, Transmitter Battery Status)</p> <p>Housing - Steel</p> <p>Transmitter (equivalent to SLXD1)</p> <p>Form Factor - Bodypack</p> <p>RF Output Power - 1 / 10 mW</p> <p>Audio I/O - 1 x TA4/Mini XLR 4-Pin Male Unbalanced Input (Lockable)</p> <p>Gain Range - 0 +21 dB</p> <p>Sync Method - IR</p> <p>Antenna - 1/4 Wave External, Fixed</p> <p>Power Requirements - Battery</p> <p>Battery Type - 2 x AA; 1 x SB 903</p> <p>Battery Charging Time - 1.25 to 5.5 Hours</p> <p>USB/Lightning Connectivity - None</p> <p>Display & Indicators - LCD (Battery Status, Channel, Group)</p> <p>Housing - ABS, Plastic</p> <p>Microphone (Equivalent to WL183)</p> <p>Form Factor - Lavalier</p> <p>Sound Field - Mono</p> <p>Capsule - Electret Condenser</p> <p>Polar Pattern - Omnidirectional</p> <p>Pad - None</p> <p>High-Pass Filter - None</p> <p>Indicators - None</p> <p>Windscreen - Foam</p> <p>Performance</p> <p>Frequency Range - 50 Hz to 17 kHz</p> <p>Maximum SPL - 125 dB SPL</p> <p>Impedance - 1800 Ohms</p> <p>Sensitivity - -40 dBV/Pa</p> <p>Dynamic Range 102.5 dB</p> <p>Equivalent Noise Level - 22.5 dB SPL A-Weighted</p> <p>Connectivity</p> <p>Output Connectors - 1 x TA4/Mini XLR 4-Pin Female (TQG)</p> <p>Cable Length - 1.22 m</p> <p>Physical</p> <p>Color - Black</p> <p>Mounting - Alligator Clip, Tie Tac Clip (Included)</p>	2	Pcs.
3.6	32330000-5	Pro Wireless In-Ear Monitor Kit (Set)	<p>Pro Wireless In-Ear Monitor Kit includes a wireless transmitter, two wireless bodypack receivers, 4 battery pack and two chargers. Include a 1/4 wave antenna, a BNC bulkhead adapter and cable, a power supply, six pairs of flex sleeves (S, M, L), two drawstring pouches, and two zipper bags for the receivers.</p> <p><i>Wireless Transmitter (1pcs)</i></p> <p>Performance</p> <p>Transmission Range - 90 m</p> <p>RF Output Power - 10, 20, 30 mW</p> <p>RF Output Impedance - 50 Ohms (typical)</p> <p>Audio Input</p> <p>Connector Type - 1/4" TRS (6.35 mm)</p> <p>Polarity - Tip positive with respect to ring</p> <p>Configuration - Electronically balanced</p> <p>Impedance - 40 kOhms (actual)</p> <p>Nominal Input Level - Switchable, +4 dBu, -10 dBV</p> <p>Maximum Input Level - +4 dBu: +22 dBu; -10 dBV: +12.2 dBu</p>	1	Pcs.

			<p>Pin Assignments - Tip=hot, Ring=cold, Sleeve=ground Phantom Power Protection - Up to 60 VDC Audio Output Connector Types - 1/4" TRS (6.35 mm) Configuration - Electronically balanced Impedance - Connected directly to inputs General Antenna - 1/4 wave, detachable Power Requirement - 12 to 15 VDC, 260 mA maximum <i>Wireless Bodypack Receiver (2pcs)</i> RF Sensitivity - Active: 2.2 µV (at 20 dB SINAD) Image Rejection - > 90 dB Adjacent Channel Rejection - > 60 dB Intermodulation Attenuation - > 50 dB Blocking - > 60 dB Audio Output Power-80mW per output Minimum Load Impedance - 16 Ohms Headphone Output - 1.8" (3.5 mm), stereo Continuous Battery Life - 4 to 5.5 hours, AA batteries <i>Dual Docking Recharging Station (2 Pcs)</i> equivalent SBC200 Fits P3RA, P9R, P10R, UR5, ULX-D and QLX-D series For two Li-Ion batteries and/or hand-held or pocket transmitters Can be linked together Includes PS45 power supply for up to 4 units <i>Battery pack (4 Pcs):</i> Li-Ion Akku (3,7V/1320mAh) Equivalent to SB900B</p>		
3.7	32330000-5	Commentator Unit	<p>Commentator Unit 2 Commentators & 1 Guest (Equivalent CM-CU21) <i>Features</i> 2 Commentator positions plus a guest position, each with individual outputs; plus 2 mix outputs. Talkback outputs selectable by the two main commentators, with built in limiter. 4 Return audio circuits that are routed to headphones along with all the commentator inputs. Any source can be individually level controlled and sent to left, right or both ears. A wide input gain range and switchable phantom power on each commentary position allows support of a variety of microphone types including low output ribbon, headsets and high output phantom powered microphones. Individually switched 48V phantom power on all microphone inputs. User preset adjustable limiter on main mix outputs with limit activity indication. Built in line-up tone for initial cabling checks. 21 Segment LED PPM meter showing main output level. <i>Technical Specification</i> Main Panel Operational Controls & Indicators On-Air 1-3 Buttons: illuminated buttons with latching action Talkback A & B Buttons: Illuminated buttons with selectable momentary and/or latching action Headphone Monitor Controls: Input source level adjustment potentiometers Headphone channel selection switches Line Input Level: Guest position line input mode level potentiometer PPM Meter: 21 segment display showing mix output level, brightness level Is selectable Limit LED indicates mix output limiter is active, color & brightness level is selectable Power LED indicates operating mode; normal or setup Front Panel Operational Controls Phantom: Switch to enable 48V microphone phantom power for positions 1 & 2 Phantom/Line: Switch to enable 48V microphone phantom power or select line input mode for position 3 Mic Gain: Microphone gain potentiometer and range select switch selects +20-+56dB or +50-+86dB Rear Panel Operational Controls On Air Lock: Switch to prevent On Air controls from being deactivated Momentary push-button to override on air lock T/B Gang: Switch to link operation of talkbacks A & B T/B Gain: 0dB - +12dB Limiter: Switch to enable limiter on mix outputs Limit level adjustment potentiometer Test Tone: Switch to enable 1 kHz line-up tone Front Panel Connections Headphone Outputs: 2 x locking headphone jack socket for positions 1 & 2; 1 x headphone jack socket for position 3 Microphone Inputs: 2 x XLR-3 pin latching female for positions 1 & 2 Microphone/Line Input: 1 x XLR-3 pin latching female for position 3 Rear Panel Connections Prog, A, B & C Inputs: 4 x XLR-3 pin female (transformer balanced) Comm1-3 Outputs: 3 x XLR-3 pin male (electronic balanced) Talkback A & B Outputs: 2 x XLR-3 pin male (transformer balanced) Mix 1 & 2 Outputs: 2 x XLR-3 pin male (transformer balanced) GPIO Port: 15-way 'D'-type socket Mains Input: Universal filtered IEC, continuously rated 85-264VAC, 47-63Hz, 10W Fuse Rating: Anti-surge fuse 1A 20 x 5mm DC Input: XLR-4 pin male 12V DC, 650mA Typical, 850mA Maximum 24V DC, 325mA Typical, 425mA Maximum Earth Point: M4 stud.</p>	1	Pcs.
3.8	32330000-5	Source Selector, Switcher	<p>10 Way Stereo Analogue Source Selector/Mixer (Equivalent RB-SS10) 10 way stereo analogue source selector/mixer is a 1U rack-mount unit that produces a stereo analogue audio output from 10 selectable stereo analogue sources. There are 10 illuminated front panel push-buttons, which select and indicate the current channel selection. The selection and indication is also available through a remote connector on</p>	1	Pcs.

			the rear panel. To stop accidental front panel selection there is a remote input to inhibit the front panel buttons. <u>Connections</u> Inputs: 4 x XLR 3 pin female (2 x stereo) (balanced, can be unbalanced) 2 x 25 way D-type socket (female) (4 stereo balanced channels on each) Outputs: 2 x XLR 3 pin male (stereo balanced, can be unbalanced) Remote Start I/O: 25 way D-type plug (male) Remote Select/Switch Inputs: 25 way D-type socket (female) Status Outputs: 25 way D-type socket (female) Mains Input: Filtered IEC, 110V-120V, or 220-240V switchable, fused, 6W maximum Fuse Rating: Anti-surge fuse 160mA 20 x 5mm (230VAC), Anti-surge fuse 315mA 20 x 5mm (115VAC)		
3.9	32330000-5	Headphones	Headphones, Frequency response (Headphones) 18–20,000 Hz (-10 dB); Sound pressure level (SPL) 120dB (1kHz/1Vrms); THD, total harmonic distortion <0.5% (1kHz/100dB); Ear coupling Over-Ear; Jack plug 3.5mm angled; Cable length 1.4m; (Equivalent HD 400S)	5	Pcs.
3.10	32330000-5	Broadcast Headset	Dual-sided broadcast headset (Equivalent BRH440M) <u>Features</u> Closed-back, circumoral design provides excellent isolation from background noise Dynamic microphone delivers natural, highly intelligible vocal reproduction with cardioid polar pattern and frequency response optimized for communication in loud environments Ergonomic, lightweight design with adjustable, padded headband for long wearing comfort Flexible boom microphone pivots 270 degrees for left or right side wear Flip-up mute function deactivates the boom microphone when raised vertically away from the mouth Single-side, detachable cable (sold separately) enables connection to a variety of devices User-replaceable cable, ear pads and windscreen provided for a long product life <u>Microphone</u> Type Dynamic (moving coil) Polar Pattern Cardioid Frequency Response 50 to 15,000 Hz Output Impedance 200 Ohms Sensitivity (@1 kHz, open circuit voltage) -67.0 dBV/Pa (0.45 minimum) 1Pa-94 dB SPL Polarity Positive pressure on diaphragm produces positive voltage on pin 1 (red wire) with respect to pin 3 (shield) <u>Headphone</u> Transducer Type Dynamic, Neodymium magnet Driver Size 40 mm Frequency Range 15 to 27,000 Hz Sensitivity (@ 1 kHz) 101 dB/mW Impedance (@ 1 kHz) 300 Ohms Maximum Input Power 1000 mW Include cable XLR and 6.3 mm jack (BCASCA-XLR3QI) Include Replacement Single-Sided Detachable Cable (BCASCA1)	3	Pcs.
3.11		Installation	Passive/active materials and elements required for interconnection of equipment and its putting into service, Mounting works, installation and setup operations, The system shall be handed over in the ready-to-operate condition. Minimum hardware guarantee – 2 years.	1	Pcs.
In total per lot = 300,000 MDL, VAT exclusive					

System prompter			Lot no.4		
4.1	32224000-9	System prompter	System prompter (equivalent Autoscript WinPlus-IP) Software: (1 pcs) Software offers compatibility with all leading NRCS including: Avid iNews, Dalet. MOS Protocol devices supported include: Annova Open Media, AP ENPS, News Works, Octopus, Dayang, Sobey, NIS4, Inception & Eidos Media. Software enables instant script updates from Newsroom systems. The connectivity status of each Newsroom is viewable at a glance and can be given a user defined name for easy reference. Busy productions will benefit from having multiple rundowns loaded for multi-program operation. With multi-language compatibility, Includes: Closed caption options enable script to be outputted for captions/subtitles Multiple rundowns loaded for multi-program operation Instant script updates from NRCS for seamless newsroom workflow Newsroom connectivity status displayed for easy monitoring User definable friendly name & newsroom connection type ensures simple setup Prompter Device: (1 Pcs) An extremely compact scroll engine. As an Intelligent Prompting device it networks via Ethernet to prompting software application, where users are able to monitor status, manage group updates and remote upgrades. Dual HD-SDI outputs support the distribution of the teleprompter video to traditional prompt monitors. In addition a Power over Ethernet output can be used to power an Intelligent Prompting scroll control – ideal for single controller setups. In a tough, portable casing with LED status indicator, the	1	Pcs.

			<p>XBox-IP offers a modern solution for solo operators and users looking to retain HD/HD-SDI monitors.</p> <p>Features:</p> <ul style="list-style-type: none"> Compact, portable unit Dual HD-SDI output distributes script video to traditional prompt monitors Dual USB ports PoE output for scroll control avoids the need for 3rd party equipment in single-controller setups Network and status indicator <p>Desktop Hand Control: (2 Pcs.)</p> <ul style="list-style-type: none"> Wrist support and neutral hand position ensures comfortable, safe operation Central button positioning supports left and right-handed operation Two illuminated function buttons programmable in software to suit the operator's desired configuration Powered over Ethernet to simplify integration and reduce cabling <p>Foot Scroll Control: (3 Pcs.)</p> <ul style="list-style-type: none"> Adjustable sensitivity and range to suit unique user profiles Programmable function button allows operator to select their desired configuration Powered over Ethernet to simplify integration and reduce cabling Remote configuration in software <p>Wireless Controller and Base Station Package (1 pcs)</p> <ul style="list-style-type: none"> Intelligent Prompting wireless controller and base station package Allows total freedom for the presenter to move around a studio and control the speed of the prompted text <p>Include 8-port POE+ Switch (Power Budget min 100W) (1 pcs)</p>		
4.2		Installation	<p>Installation and putting into service of the prompter system,</p> <p>Passive/active materials and elements required for interconnection of equipment and its putting into service,</p> <p>Mounting works, installation, integration and setup operations,</p> <p>The system shall be handed over in the ready-to-operate condition. Minimum hardware guarantee – 2 years.</p>	1	Pcs.
In total per lot = 350,000 MDL, VAT exclusive					

Object Glass

Lot no.5

5.1	38651100-4	Object glass	<p>Specs</p> <ul style="list-style-type: none"> 24-70mm F/2.8 GM Focal Length 24 to 70mm Maximum Aperture f/2.8 Minimum Aperture f/22 Format Compatibility Full-Frame Angle of View 84° to 34° Minimum Focus Distance 1.25' / 38 cm Maximum Magnification 0.24x Optical Design 18 Elements in 13 Groups Diaphragm Blades 9, Rounded Focus Type Autofocus Image Stabilization None Filter Size 82 mm (Front) Dimensions (ø x L) 87.6 x 136 mm Weight 886 g <p>Specs UV FILTER</p> <ul style="list-style-type: none"> Type UV Circular Polarizer Size 82 mm UV: 3.4 mm-thick Circular polarizer: 6.2 mm-thick Filter Factor UV: 1 (0 stop) Circular polarizer: About 2.5 (1.3 stops) Multi-Coated Yes; 12-layer multi-coating Rotating UV: No Circular polarizer: Yes Effect UV: Absorbs UV light and reduces bluish cast from daylight Circular polarizer: Reduce/eliminate reflections and haze and improve color and tonal saturation Construction Schott glass Anodized aluminum filter ring with top knurling Front Filter Thread Size 82 mm Front Lens Cap Size 82 mm 	1	Pcs.
In total per lot = 40,000 MDL, VAT exclusive					

Network Equipment

Lot no.6

6.1	32400000-7	Switch	<p>Modular Stackable L3 Managed Switch equivalent to Netgear M4300-96X</p> <p>Minimum requirements:</p> <ul style="list-style-type: none"> Modular 1-unit 2U rack mount; CPU: 1.4 Ghz, Ram: 2GB, Flash Memory: 256MB; <p>Features : 96MB packet buffer, Access Control List (ACL) support, ARP support, Bridge protocol data unit (BPDU), DHCP relay, DHCP snooping, DiffServ support, Dynamic</p>	1	Pcs.
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			<p>ARP protection, Front to back airflow, IP source guard, IPv4 support, IPv6 support, LACP support, LISP Across Subnet Mode (ASM), MLD snooping, Modular design, Neighbor Discovery Protocol (NDP), Per-VLAN Rapid Spanning Tree (PVRST), Quality of Service (QoS), Rapid Spanning Tree Protocol (RSTP) support, Remote Switch Port Analyzer (RSPAN), Source-Specific Multicast (SSM), Spanning Tree Protocol (STP) support, STP Root Guard, Virtual Route Redundancy Protocol (VRRP) support, IEEE 802.1AX, IEEE 802.3ad (LACP), IEEE 802.3az;</p> <p>Remote Management Protocol: CLI, HTTPS, SNMP 1, SNMP 2, SNMP 3, SSH, Telnet;</p> <p>Switching capacity: 1.92 Tbps;</p> <p>Throughput: 2.857 Mpps;</p> <p>Capacity:</p> <p>Virtual interfaces (VLANs): 4093</p> <p>IPv4 routes (static): 64</p> <p>IPv6 routes (static): 64</p> <p>RIP routes: 512</p> <p>ARP entries: 8000</p> <p>OSPF routes: 12000</p> <p>Static ARP entries: 128</p> <p>The switch shall be equipped with the following modules:</p> <p>6 x APM408C - 8x10GBASE-T Port Card - 100M/1G/2.5G/5G/10G;</p> <p>2 x APM408P - 8x10GBASE-T PoE+ Port Card - 100M/1G/2.5G/5G/10G;</p> <p>2 x APM408F - 8xSFP+ Port Card - 1G/10G;</p> <p>The switch shall be equipped with the following accessories:</p> <p>12 x SFP+ Transceiver: 10GBase-LR single mode LC duplex connector up to 2km;</p> <p>10 x Patch Cord RJ-45 , Cat. 6A or Cat. 7 , support 10 Gigabit Ethernet, length: 3M;</p> <p>20 x Patch Cord RJ-45 , Cat. 6A or Cat. 7 , support 10 Gigabit Ethernet, length: 5M;</p> <p><u>Power Supply</u>: 1200W, 1+1 redundant power for PoE applications;</p> <p>-Warranty: 3 Years;</p>		
6.2	32413100-2	Router	<p>24 port Gigabit Ethernet switch with two SFP+ ports (equivalent CRS326-24G-2S)</p> <p>Specifications</p> <p>Architecture - ARM 32bit</p> <p>CPU - 98DX3236</p> <p>CPU core count - 1</p> <p>CPU nominal frequency - 800 MHz</p> <p>RouterOS license - 5</p> <p>Operating System - RouterOS / SwitchOS</p> <p>Size of RAM - 512 MB</p> <p>Storage size - 16 MB</p> <p>Storage type - FLASH</p> <p>MTBF - Approximately 200'000 hours at 25C</p> <p>Powering</p> <p>Number of DC inputs - 2 (DC jack, PoE-IN)</p> <p>DC jack input Voltage - 10-30 V</p> <p>Max power consumption - 24 W</p> <p>FAN count - Passive</p> <p>PoE in - Passive PoE</p> <p>PoE in input Voltage - 10-30 V</p> <p>Ethernet 10/100/1000 Ethernet ports - 24</p> <p>Fiber SFP+ ports - 2</p> <p>Peripherals Serial console port - RJ45</p>	1	Pcs.
6.3	32413100-2	Ethernet router	<p>The CWDM passive MUX/DEMUX unit, which allows to combine up to eight fiber links into one, to simplify and reduce the cost of long distance fiber installations. At the other location, the combined line is split back up again, so that instead of eight long fiber lines, you would only need one. The Coarse Wavelength-Division Multiplexing (CWDM) technology offers a solution which will increase capacity of existing fiber infrastructure by enabling multiple channels/wavelengths over the same fiber cabling and will reduce costs for a new fiber optic deployment.</p> <p>Single optical fiber cable to create up to eight independent 1.25Gbps SFP (up to 40km) or 10Gbps SFP+ (up to 10km) links, offering more affordable alternative to installing more fiber or leasing additional fibers.</p> <p>Include:</p> <p>CWDM-MUX8A</p> <p>1U Chassis bracket for CWDM 8-port MUX/DEMUX</p> <p>2 x S-C61DLC10D</p> <p>2 x S-C47DLC40D</p> <p>2 x S-C49DLC40D</p> <p>2 x S-C51DLC40D</p> <p>2 x S-C53DLC40D</p> <p>2 x S-C55DLC40D</p> <p>2 x S-C57DLC40D</p> <p>2 x S-C59DLC40D</p> <p>2 x S-C61DLC40D</p>	2	Pcs.
In total per lot = 406,666.66 MDL, VAT exclusive					

9. Acceptance or prohibition of alternative bids: *Will not be accepted*

10. Terms and conditions of delivery/provision/fulfilment requested: *The goods shall be delivered within a 55-day period after the Contract becomes effective, and the services shall be rendered within a 5-day period after Buyer's request.*

11. Period of Contract validity: till 31 December 2021

12. Brief description of the eligibility criteria for economic agents, which can entail their exclusion, and of the selection criteria; minim level (minim levels) of the eventually imposed requirements; to be mentioned the information requested (ESPD, documentation):

Ord no.	Name of the document/requirements	Way of attesting the fulfilment of the requirement:	Binding
1	Financial bid	Form (F 3.1), signed with advanced qualified digital signature	Yes
2	Technical requirements	Form (F 4.1), signed with advanced qualified digital signature	Yes
3	Price specifications	Form (F 4.2), signed with advanced qualified digital signature	Yes
4	Bid guarantee	Making 1% of the Bid value, VAT exclusive Bid guarantee or bank guarantee form (F3.2), Signed with advanced qualified digital signature	Yes
5	Standard form of the European Single Procurement Document (ESPD)	Signed with advanced qualified digital signature	Yes
6	Proof of registration of the legal entity, according to the legal provisions of the country, where the bidder is a resident	Certificate/decision on company registration, or extract from the State Registry of Legal Entities, stating the current address and activities of the company – both signed with advanced qualified digital signature	Yes
7	Certificate of lack or availability of arrears before the national public budget	Signed with advanced qualified digital signature	Yes
8	General information about the bidder	Information form presenting the bidder, signed with advanced qualified digital signature	Yes
9	Good execution guarantee	Good execution warranty, filled in in conformity with the form F 3.3. – Original or transfer to the account of the contracting authority. <i>Remark: There shall be provided upon signing of the contract, by the winning economic agent.</i>	Yes
10	Financial statement	Last financial statement, signed with advanced qualified digital signature	Yes
11	Certificate on assignment of a bank account, issued by the account holding bank, after application of IBAN codes	Scanned version of the original, confirmed by the advanced qualified digital signature	Yes
12	Registration number	Registration number from the 'List of Manufacturers', according to the Regulation on Electric and Electronic Equipment Waste, approved through Government Ordinance no.212 dated 07 March 2018	Yes
13	DECLARATION of confirmation of the identity of the effective beneficiaries and their non-sentencing for participation in the activities of a criminal organization or group, for corruption, fraud and/or money laundering.	Drafted in conformity with Order of the Minister of Finance no.145 dated 24 November 2020. Scanned version of the original, confirmed by the advanced qualified digital signature. <i>Remark: There shall be provided by the winning economic agent, within 5 days of the day of notification about the results of the public procurement procedure.</i>	Yes
14	Minimum years of specific experience in delivery/provision of similar goods and/or services	The Bidder shall have a minimum of 5 years of specific experience in delivery of similar goods. The economic agent shall enclose the attesting documents (performed contracts or contracts in the course of performance, reference letters and so on) in order to prove the fulfilment of this requirement. Scanned version of the original, with advanced qualified digital signature, applied thereon.	Yes

THIS IS IMPORTANT: According to Public Procurement Act no.131 dated 03 July 2015, more exactly, Paragraph (4) of Article 65, bid provision also presumes provision, on a mandatory basis, of the 'technical bid' (F4.1), financial bid (F4.2), ESPD form and bid guarantees.

13. Specific awarding techniques and tools (please, specify whether a framework agreement, dynamic procurement system or e-tender, if any, will be used): *E-tender.*

3 rounds, increment value – at least 1%.

14. Evaluation criterion applied to contract awarding: *The lowest price for the lot and compliance with the terms of reference.*

15. Time frames of bid submission/opening: *According to the Automated Information System State Register of Public Procurement'*

16. Address, which the bids or tender applications shall be sent to:

The bids or tender applications shall be submitted in soft copies, via the Automated information system 'State Register of Public Procurement'.

17. Time frames of bid validity: 60 days.

Place of bid opening: *Automated information system 'State Register of Public Procurement', Mtender.*

The delayed bids shall be rejected.

18. Language or languages, which the bids or tender applications shall be drafted in: *State language. Non-resident economic agents shall provide the documents accompanied with a translation in the Romanian or Russian language.*

19. This contract refers to a project and/or a program funded by the European Union: *No.*

20. Name and address of the competent authority for settlement of claims:

National Agency for Settlement of Claims

Address: 124 Stefan cel Mare si Sfanta Boulevard, (4th floor), Chisinau Municipality, MD-2001

Telephone/fax/e-mail: 022-820 652, 022 820-651, contestatii@ansc.md.

21. Date of publication of the declaration of intention or specification that no such declarations were published, as the case may be: **Public Procurement Bulletin no. 82 dated 01 December 2020.**

Head of the workgroup:

Tatiana Sorocean