

CAIET DE SARCINI

pentru achiziția echipamentului Audio

Nr d/o	Cod CPV	Denumirea bunului	Unitat de măsură	Cant	Descrierea bunurilor și specificarea tehnică (cerințe minime tehnice)	Prețul estimativ
1	32330000-5	Boxă audio	Bucată	4	Boxa activă cu accesorii (equivalent FBT jmaxx112A) Equipment: 12" and 1" speakers Biamped switching power supply amplifier with 700 Watt LF+200 Watt HF RMS Class-D Frequency range: 48 - 20,000 Hz Beam angle: 90° x 60° Maximum SPL cont / peak: 125 / 131 dB Integrated DSP with 4 switchable EQ presets Monitor angle : 12°, 40° and 55° Mic Line Switch HP filters XLR input and output Volume controller Plastic housing 2x M10 flying points 35 mm Flange for uprights	46 000 lei
2	32330000-5	Condenser Microphone	Bucată	2	Condenser Microphones (Equivalent AKG C451B) Ideal for overhead, hihat, percussion, acoustic guitar General Specifications Audio frequency bandwidth 20 – 20000 Hz Equivalent noise level 18 dB-A Sensitivity 9 mV/Pa Signal to Noise 76 dB-A Preattenuation Pad -10; -20 dB Bass cut filter 75; 150 Hz Electrical impedance 200 Ohms Recommended load impedance 1000 Ohms Polar Pattern Cardioid Powering Interface Voltage 9 to 52 V Current 2 mA Audio Output Type Balanced XLR Gender Male Contacts 3-pin -CK 1 capsule -Includes windshield W90 and stand adapter SA60	12 000 lei
3	32330000-5	Lavalier microphone system	set	1	System Wireless Technology - Digital UHF Number of RF Channel Frequencies - 2240 Included Receivers - 5 x Receivers Included Transmitters - 5 x Bodypack Included Splitters – 1 x Active Antenna Splitter Diversity - Intelligent Switching Diversity RF Channel Scanning - Auto-Scan Max Operating Range - 100 m (Line of Sight) Max Transmitters per Band - 90 Bluetooth - 5.1 Sample Rate/Resolution - 24-Bit Receiver 5 pcs (equivalent EW-D EM U1/5) Frequency range U1/5: 823.2 - 831.8 / 863.2 - 864.8 MHz Receiver Type - Tabletop / Rackmount Mounting Options - Rackmount, Tabletop Rackmount Size - 1 RU (1/2 Rack) Antenna - 2 x 1/4 Wave Rod, BNC (Rear-Mount) Number of Audio Channels - 1 Audio I/O - 1 x XLR 3-Pin Male Balanced Output (Lockable) 1 x 1/4" TRS Female Unbalanced Output Gain Range - -3 to +42 dB (3 dB Steps) Audio Output Level - XLR Output: +18 dBu (Balanced) 1/4" Output: +12 dB (Unbalanced) Frequency Response - 20 Hz to 20 kHz ±3 dB Power Requirements - AC/DC Power Adapter	90 000 lei

					AC/DC Power Adapter - 11 to 13 VDC at 300 mA (Included) AC Input Power - 100 to 240 VAC, 50 / 60 Hz Display & Indicators - 1 x Backlit OLED (AF Level, Frequency, Mute, RF Level, Transmitter Battery Status) Housing - Metal Transmitter 5 pcs (EW-D SK) Transmitter Type - Bodypack RF Output Power - 10 mW (ERP) Audio I/O - 1 x 3.5 mm TRS Female Input (Lockable) Muting - Mute Switch Audio Input Level - 2 to 4.35 V RMS Sync Method - Bluetooth Antenna - 1 x Flexible Whip, Fixed (Belt-pack) Power Requirements - Battery Housing - Metal Microphone 5 pcs (equivalent ME-2) Microphone Type - Lavalier Color - Black Sound Field - Mono Capsule - Electret Condenser Polar Pattern - Omnidirectional Frequency Range - 50 Hz to 18 kHz Equivalent Noise Level - 32 dB Maximum SPL - 130 dB SPL Sensitivity - 17 mV/Pa at 1 kHz Output Connectors - 1 x 1/8" / 3.5 mm TRS Male (Lockable) Cable Length - 5.2' / 1.6 m Operating Voltage - 7.5 V Active Antenna Splitter 1 pcs (equivalent EW-D ASA T-U-V-W) Active Antenna Splitter (Dual 1:4) with DC Voltage Distribution For the UHF-range from 694 - 1075 MHz Incl. 1x power supply NT 12-35 CS and 8x BNC connection cable Half-wave dipole rod antenna 2 pcs Frequency range - U: 823 - 865 MHz Connection - BNC	
4	32330000-5	Handheld Microphone system	set	1	System Frequency range U1/5: 823.2 - 831.8 / 863.2 - 864.8 MHz Wireless Technology - Digital UHF Number of RF Channel Frequencies - 2240 Included Transmitters - 3 x Handheld Diversity - Intelligent Switching Diversity RF Channel Scanning - Auto-Scan Max Operating Range - 100 m Max Transmitters per Band - 90 Bluetooth - 5.1 Sample Rate/Resolution - 24-Bit Receiver 3 pcs (equivalent EW-D EM U1/5) Frequency range U1/5: 823.2 - 831.8 / 863.2 - 864.8 MHz Receiver Type - Tabletop / Rackmount Mounting Options - Rackmount, Tabletop Rackmount Size - 1 RU (1/2 Rack) Antenna - 2 x 1/4 Wave Rod, BNC (Rear-Mount) Number of Audio Channels - 1 Audio I/O - 1 x XLR 3-Pin Male Balanced Output (Lockable) 1 x 1/4" TRS Female Unbalanced Output Gain Range - -3 to +42 dB (3 dB Steps) Audio Output Level - XLR Output: +18 dBu (Balanced) 1/4" Output: +12 dB (Unbalanced) Frequency Response - 20 Hz to 20 kHz ± 3 dB Power Requirements - AC/DC Power Adapter AC/DC Power Adapter - 11 to 13 VDC at 300 mA (Included) AC Input Power - 100 to 240 VAC, 50 / 60 Hz Display & Indicators - 1 x Backlit OLED (AF Level, Frequency, Mute, RF Level, Transmitter Battery Status) Housing - Metal Transmitter 3 pcs (equivalent EW-D SKM-S) Transmitter Type - Handheld RF Output Power - 10 mW (ERP) Muting - Mute Switch	60 188 lei

					<p>Audio Input Level - 2 to 4.35 V RMS Auto-Level Control - No Antenna - 1 x Internal (Handheld) Power Requirements - Battery Battery Type - 2 x AA (Included) Display & Indicators - 1 x LED (Mute); 1 x LED (Sync) Housing - Metal Microphone (equivalent MMD 835 capsule) Microphone Type - Handheld Capsule Color - Black Sound Field - Mono Capsule - Dynamic Polar Pattern - Cardioid Equivalent Noise Level - 32 dB Maximum SPL - 154 dB SPL Sensitivity - 2.1 mV/Pa Active Antenna Splitter 1 pcs (equivalent EW-D ASA T-U-V-W) Active Antenna Splitter (Dual 1:4) with DC Voltage Distribution For the UHF-range from 694 - 1075 MHz Incl. 1x power supply NT 12-35 CS and 8x BNC connection cable Half-wave dipole rod antenna 2 pcs Frequency range - U: 823 - 865 MHz Connection - BNC Include EW-D Color Coding Set</p>	
5	32330000-5	Lavalier Microphone	Bucată	26	<p>Omnidirectional Lavalier Microphone with Locking 3.5mm Connector (Equivalent Sennheiser ME 2) Form Factor - Lavalier Sound Field - Mono Capsule - Electret Condenser Polar Pattern - Omnidirectional Windscreen - Built-In Output Connectors - 1 x 3.5 mm TRS Male (Lockable, on Attached Cable) Cable Length - 1.6 m Operating Voltage 7.5 V Color - Black Mounting - Alligator Clip (Included)</p>	78 412 lei
6	32330000-5	Broadcast Microphone	Bucată	2	<p>Broadcast Microphone (Equivalent Shure SM7B) Microphone Type: Dynamic Polar Pattern: Cardioid Frequency Response: 50Hz-20kHz Output Impedance: 150 ohms Sensitivity: -59 dBV/Pa Low Cut Filter: Bass Roll off Color: Black Shielding against electromagnetic interference Swivel mount Connector: XLR Included Accessories: Windscreen, Switch Cover Plate</p>	16 000 lei
7	32330000-5	Studio Microphone	Bucată	2	<p>Studio Microphone (Equivalent AKG 3000) Transducer - Condenser Polar Pattern - Cardioid Frequency Response - 20Hz to 20kHz Sensitivity - 20 mV/Pa (-32 dBV) Signal-to-Noise Ratio - 80dB (A-Weighted) Equivalent Noise Level: - 14dB-A Maximum Input Sound Level - 140/150 dB (k=0.5%) Power Requirements - Phantom 9 - 52V to IEC 61938 Powering - < 2mA Output Impedance - 200 Ohms Recommended Load: - > 1000 ohms Output Connectors - XLR-3M Type Pad - -10dB Low Frequency Roll-Off - 500Hz</p>	9 600 lei
8	32330000-5	Condenser microphone	Bucată	1	<p>OMNIDIRECTIONAL CONDENSER MICROPHONE (equivalent OMNI1) Technical specifications: Type: Condenser microphone (permanently biased 10mm capsule) Polar pattern: Omni</p>	3 500 lei

					<p>Frequency response: 20-20000Hz +-1dB (on-axis, at 1m distance, 1/12 octave narrow smoothing, 23 C)</p> <p>Phantom power: 12 - 48V (P48 recommended for best performance)</p> <p>Current consumption: 4 mA</p> <p>Impedance: <100 Ohm</p> <p>Sensitivity: 8mV/PA -42dB</p> <p>S/N ratio (DIN A-weighted/CCIR): 76dB/66dB</p> <p>Noise level: 18dB(A)</p> <p>Max SPL: 133dB @0.5% THD (130dB@24V, 120dB @ 12V)</p> <p>Size: 77mm x 20mm</p> <p>Connector: XLR (Neutrik gold plated)</p>	
9	32330000-5	Condenser microphone	Bucată	4	<p>CARDIOID CONDENSER MICROPHONE (equivalent CM4)</p> <p>Technical specifications:</p> <p>Type: Condenser microphone (permanently biased capsule)</p> <p>Polar pattern: Cardioid (slightly wide cardioid)</p> <p>Frequency response: 20-20000Hz (100-16000Hz+-1dB on axis, at 1m, 23C, MLS noise stimuli, 1/12 oct narrow smoothing)</p> <p>Phantom power: 12 - 48V (P48 recommended for best performance)</p> <p>current consumption: <4 mA</p> <p>Impedance: <100 Ohm</p> <p>Sensitivity: 8mV/PA -42dB</p> <p>S/N ratio (DIN A-weighted/CCIR): 78dB/68dB</p> <p>Noise level: 16dB(A)</p> <p>Max SPL: 140dB, 135dB@ 0.5% THD (130dB@24V, 120dB @ 12V)</p> <p>Size: 77mm x 20mm</p> <p>Connector: XLR (Neutrik gold plated)</p>	15 000 lei
10	32330000-5	Condenser Microphone	Bucată	2	<p>Condenser Microphone (equivalent AKG C414 XLII)</p> <p>Microphone</p> <p>Frequency Range - 20 Hz to 20 kHz</p> <p>Primary Applications - Live Sound, Studio Recording</p> <p>Form Factor - Large Diaphragm Mic / Stand/Boom Mount</p> <p>Intended Sound Sources - Vocals, Instrument</p> <p>Sound Field - Mono</p> <p>Operating Principle - Pressure Gradient</p> <p>Capsule - Condenser</p> <p>Diaphragm - 1" / 25.4 mm</p> <p>Polar Pattern - Cardioid, Figure-8, Hypercardioid, Omnidirectional, Subcardioid/Wide Cardioid</p> <p>Pattern Selection - Switched (Adjustable on Mic)</p> <p>Orientation - Side Address</p> <p>Circuitry - Solid-State</p> <p>Pad - -6 dB, -12 dB, -18 dB</p> <p>High-Pass Filter - 40 Hz, 12 dB/Octave, 80 Hz, 12 dB/Octave, 160 Hz, 6 dB/Octave</p> <p>Indicators - 13 x Single LED (Status)</p> <p>On-Board Controls - High-Pass Filter, Pad, Polar Pattern</p> <p>Windscreen - Foam (Included)</p> <p>Output Connectors (Analog) - 1 x XLR 3-Pin Male (on Mic)</p> <p>Mounting - Shockmount (Included)</p> <p>Included Case - Hard Case</p> <p>Included Filters - Pop Filter</p> <p>Construction Material - Metal</p>	40 000 lei
11	32330000-5	Portable recorder and accessories	Bucată	10	<p>Portable Audio Recorder with Onboard Adjustable Stereo Microphone (equivalent TASCAM DR-07X)</p> <p>Portable Recorder</p> <p>Recording Media - microSD card (64MB to 3GB), microSDHC card (4GB to 32GB), microSDXC card (up to 128GB)</p> <p>File System - FAT16/32, exFAT</p> <p>Recording File Format - WAV / BWF</p> <p>Sampling Frequency - 44.1k / 48k / 96k Hz</p> <p>Bit-depth - 16 / 24-bit</p> <p>MP3 Sampling Frequency - 44.1k / 48k Hz</p> <p>Bit-rate for recording - 32k / 64k / 96k / 128k / 192k / 256k / 320k bps</p> <p>Playback Bit-rate - 32k to 320k bps, VBR, ID3TAG Ver. 2.4</p> <p>Number of Channels - 2-channel (Stereo) / 1-channel (Mono)</p> <p>Playback speed control - 0.5 to 2.0 times (in 0.1 increments) *</p> <p>44.1k/48kHz only</p>	34 000 lei

					<p>Built-in Microphone - Unidirectional, Stereo (switchable between A-B and X-Y positions) MIC/EXT IN Connector 1/8" (3.5mm) Stereo Mini jack (Unbalanced, Plug-in Power) Nominal Input Level -20dBV Maximum Input Level -4dBV Input Impedance 18kΩ or more (PLUG IN PWR: OFF) 2kΩ or more (PLUG IN PWR: ON) PHONES/LINE OUT Connector 1/8" (3.5mm) Stereo Mini jack (Unbalanced) for LINE connection Nominal Output Level -14dBV (10kΩ load) Maximum Output Level +2dBV (10kΩ load) Output Impedance 12Ω for Headphones connection Maximum Output Power 20mW + 20mW (32Ω load) USB Connector USB Micro B-type Format USB2.0 HIGH-SPEED Built-in Speaker 0.3W, Mono Low-cut Filter 40 / 80 / 120Hz Chromatic Tuner C1 to B6, A4 = 435Hz to 445Hz (in 1Hz increments) Effector 6 presets (Hall 1, Hall 2, Room, Studio, Plate 1, Plate 2) Tripod attachment screw-hole 1/4" Tripod attachment screw-hole Power 2 AA Batteries, USB bus power, AC 100 to 240V (optional AC Adapter) Power Consumption 1.7 W (Max) Battery Operation Time (Recording) Alkaline (EVOLTA) approx. 17.5 hours (2ch WAV, 44.1kHz, 16-bit, using Built-in Microphone, JEITA) Ni-MH (eneloop) approx. 15.5 hours (2ch WAV, 44.1kHz, 16-bit, using Built-in Microphone, JEITA) Include Accessory Pack for DR Series Audio Recorders (equivalent AK-DR11G MKIII) Include microSDHC card minimum 4GB</p>	
12	32330000-5	Monitor Headphones	Bucată	8	<p>Monitor Headphones (equivalent DT-770 M) TECHNICAL SPECIFICATIONS Transducer type - Dynamic Operating principle - Closed Nominal frequency response - 5 - 30,000 Hz Nominal impedance - 80-250 Ω per cartridge Nominal SPL - 105 dB SPL Nominal T.H.D. - < 0.2% Power handling capacity - 100 mW Sound coupling to ear - Circumaural Ambient noise isolation - approx. 35 dB(A) Nominal headband pressure - approx. 6.5 N Weight (without cable) - 350 g Length and type of cable - 3 m / straight cable Cable with in-line volume control Connection - Gold plated mini stereo jack plug (3.5 mm) and 1/4" adapter (6.35 mm)</p>	24 000 lei
13	32330000-5	Headphone USB Microphone	Bucată	4	<p>Headphone (equivalent Behringer HLC 660U) Suitable for podcasts, games, and conferences Over ear Closed-back design Plug-and-play 53 mm Dynamic drivers Impedance: 32 Ohm Sensitivity: 96 dB (± 3 dB) Microphone sensitivity: -40 dB (± 3 dB) at 1 kHz (0 dB = 1 V / Pa) Microphone frequency response: 30 - 15,000 Hz Omnidirectional USB Type-A plug 2 m Cable with volume control and microphone mute switch</p>	2 400 lei
14	32330000-5	EARPHONE	Bucată	20	<p>EARPHONE (equivalent VT610TC32) -Transparent coiled tube (acoustic tube)</p>	52 000 lei

					-Application area: Stage – Theatre – Broadcast -Detachable cable -Cable:Length 1.5m (59») -Plugs: 3.5mm Right Angle Phone -Wiring - 2-Wire Configuration (Polarized) -Element - Magnetic receiver -Frequency Range - 100 Hz to 4 kHz -Sensitivity - 120 dB +/- 3 dB at 1,000 Hz -Impedance - 32 Ω +/- 30% at 1,000 Hz -Plug - 3.5 mm Right-angle phone	
15	32330000-5	In-Ear System	Set	4	Wireless UHF In-Ear System (equivalent XSW IEM Set) Consisting of transmitter and pocket receiver Transmitter power: 30 mW Frequency range: 45 - 15,000 Hz Switching bandwidth up to 24 MHz EQ Limiter Frequency Presets Focus Mode Infrared Sync Operating time: approx. 6 hours - depending on the volume setting Transmitter connections: 6.3 mm headphone output, 2x combined input sockets Receiver connections: 3.5 mm mini jack headphone output Transmitter dimensions (W x D x H): 200 x 128 x 42 mm Receiver dimensions (W x D x H): 95 x 70 x 26 mm Transmitter weight: 700 g Receiver weight: 110 g Incl. Sennheiser IE 4 in-ear headphones, XSW rackmount kit, power supply (NT 12-5 CW), 1x BNC omnidirectional antenna	48 000 lei
16	32330000-5	Talkback system	Bucata	1	Talkback system (equivalent TB-6R 6 Way Talkback) Features Provide talkback for up to 7 locations Brightly lit push-to-talk buttons. Momentary or latched buttons. Built-in electret microphone, with input for external microphone. Monitoring of 2 external inputs, e.g. for off-air receiver. Auto-muting, or mixing, of external inputs, when talkback is active. Integrates with Sonifex S2 mixer and is compatible with other talkback systems. Audio & Power Specification Talkback Input/Outputs - 15 way male D-type plug for 6 balanced talkback outputs and 1 balanced talkback input Talkback Input Gain Range - 9dB to -28dB adjusted by rear panel preset pot External Inputs & Mute - 9 way female D-type socket, for stereo balanced external input 1, stereo unbalanced external input 2 (or external talkback input/output), talkback control output and mute input External Input 2 - Dual phono socket, stereo unbalanced in parallel with the 9 way female, D-type socket External Inputs Impedance - > 30k Ω unbalanced, > 40k Ω balanced External Talkback Input Impedance - > 30k Ω unbalanced External Talkback Output Impedance - < 80 Ω unbalanced External Microphone Input - 3 pin female XLR socket Mic Input Impedance - 1.5k Ω balanced Microphone Input Gain Range - 74dB to 53dB adjusted by rear panel preset pot Headphone Output - 6.35mm (1/4") jack, unbalanced stereo capable of driving 150mW into 32-600 Ω headphones Headphone Output Gain Range -9dB to <-60dB (off) adjusted by front panel pot Loudspeaker Power -1W Mains Input Power - 85V - 264V AC, 47-63Hz, max 10W Fuse Holder - 1A anti-surge fuse	20 000 lei
17	32330000-5	Wireless Camera System	Bucata	6	UHF Wireless Camera System (equivalent EW 112P G4) Consists of SK 100 G4 bodypack transmitter, EK 100 G4 pocket receiver and ME 2 condenser lavalier microphone Polar pattern: Omnidirectional	75 000 lei

					42 MHz switching bandwidth 20 Channel banks each with up to 12 presets Up to 20 compatible channels Frequency range: 25 - 18.000 Hz Frequency transmission via infrared interface Pilot tone Autotune for finding free frequencies Audio Gain includes 60 dB 4-Digit battery indicator on the transmitter and receiver HDX compander LCD display with NF level and channel display 10 mW transmission power Includes CL100 cable, CL 1 cable and CA 2 flash unit adapter	
18	32330000-5	Headphones	Bucata	8	Headphones (equivalent ATH-PRO5 X) Circumaural 40 mm Drivers Swiveling earcups Maximum input: 1500 mW Removable cable with lock system Includes 1.2 m - 3 m spiral cable with 3.5 mm and 6.3 mm screwable adapter and 1.2 m straight cable	16 000 lei
19	32330000-5	Controller	Bucata	4	DAW Controller (equivalent Stream Deck XL) USB 3.0 controller with 32 customisable LCD buttons Ideal for controlling DAWs via short cut occupancy Completely customisable with own or ready-made icons Includes magnetic stand, USB-C to USB-A cable For Windows 10 (64-bit) and macOS 10.13 or later	19 000 lei
20	32330000-5	Controller	Bucata	2	DAW Controller (equivalent Stream Deck MK2) With 15 customizable LCD buttons Ideal for controlling DAWs via short cut assignment Fully customizable with own or predefined icons Scenes can be changed at the touch of a button A removable front panel Suitable for Windows 10 (64-bit), macOS 10.13 or newer	6 000 lei