Bidding No.: VSU-GOODS-23-22
Bidding Title: Supply and Delivery of I.T. Equipment and Supplies
Location of the Project: VSU Main, Visca, Baybay City Leyte

VISAYAS STATE UNIVERSITY

B I D   B U L L E T I N   0 1

Date: 15 May 2023

Project Title: *Supply and Delivery of I.T. Equipment and Supplies (VSU-GOODS-23-22)*

Location: VSU Main, Visca, Baybay City, Leyte

Bidders are hereby informed/reminded of the following addendums/amendments/clarifications:

I.   LIST OF REQUIREMENTS

(1st Envelope) TECHNICAL COMPONENT ENVELOPE	
Legal Documents	
1	PhilGEPS Certificate of Registration (Platinum)
Technical Documents	
2	Statement of All On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or Php **3,254,729.71**)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 3,254,729.71 and the largest of which should be at least PhP **1,627,364.86**.
4	Bid Security
5	Technical Specifications
6	SCHEDULE of Requirements/Production and delivery schedule
7	Manpower Requirements
8	After Sales service/parts from acceptance of delivered goods (at least 1 year for equipment and 3 months for supplies)
9	Original Duly Signed Omnibus Sworn Statement
Financial Documents	
10	The Supplier's Audited Financial Statements
11	Net Financial Contracting Capacity (at least Php **6,509,459.42**)
	Or
	Committed Line of Credit (at least Php **650,945.94**)
(2nd Envelope) FINANCIAL COMPONENT ENVELOPE	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)

Please take note:

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1. In the **Technical Specifications**, bidders must state either "Comply" or "Not Comply" **against each of the individual parameters of the specifications** per item stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in the **Bidders Bid** and cross-referenced to that evidence. Evidence shall be in the form of **manufacturer's un-amended sales literature (Data Sheets), unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, and Brand and Model** as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of **ITB** Clause 3.1(a)(ii) and/or **GCC** Clause 2.1 (a)(ii).

2. Bidders are advised to use the latest GPPB forms for the following documents:
   a) Omnibus Sworn Statement
   b) Performance Securing Declaration (if applicable)
   c) Price Schedule for Goods Offered
   d) Bid Form
   e) Bid Securing Declaration

These forms can be accessed from the GPPB website: https://www.gppb.gov.ph/downloadables.php. Documents that are not in its updated/latest format shall be a ground for disqualification of the bidder.

II. **Preparation of Electronic Bid (for bidders who prefer electronic bid submission)**

1. Scan **per document** into Portable Document Format (PDF) and should be printable.
2. Properly label all documents for prompt identification. Filename of documents, whichever are applicable to the bidder, should be as follows:

Document	Filename (in PDF form)
1. PhilGEPS Certificate of Registration (Platinum)	PhilGEPS
2. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
3. Statement of Bidder's Single Largest Completed Contract	SLCC
4. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
5. Bid Security	Bid Security
6. Technical Specifications	Technical Specifications
7. SCHEDULE of Requirements/ 8. Production and delivery schedule	Schedule of Requirements
9. Manpower Requirements	Manpower Requirements
10. After Sales service/parts	After Sales
11. Omnibus Sworn Statement	Omnibus Sworn Statement
12. Audited Financial Statements	Audited Financial Statements
13. Net Financial Contracting Capacity	NFCC
14. Committed Line of Credit	CLC
15. Bid Form	Bid Form
16. Price Schedule	Price Schedule

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3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII.

   The second folder should contain all requirements under Financial Component checklist.

4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.

5. Email the 2 compressed folders to Ms. Jessamine C. Ecleo at **jessamine.ecleo@vsu.edu.ph** before the deadline.

III. Changes in the Bidding Documents

Original	
Section I. Invitation to Bid 5. A complete set of Bidding Documents may be acquired by interested Bidders on *27 April – 22 May 2023 until 1:30 PM* from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.	*(Amendment)* A complete set of Bidding Documents may be acquired by interested Bidders on *27 April – 22 May 2023 until 1:30 PM* from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means: The Bidders may deposit the payment for the bidding documents to the Visayas State University Landbank Account with the following details: Account Name: Visayas State University Fund 164 Account Number: 3572-1000-13 Then send the deposit slip to *jessamine.ecleo@vsu.edu.ph*
Section II. Instructions to Bidders 15. Sealing and Marking of Bids	*(Additional Instructions)* Bidders are requested to submit three (3) copies of its bid – 1 Original, Copy 1, and Copy 2. For filing purposes, the bidders are urged to use **Orange** envelopes for its Technical and Financial Component envelopes, including the Mother (outer) Envelope.
Section VI. Schedule of Requirements All items should be delivered to VSU Main Campus, Visca, Baybay City, Leyte within 90 calendar days from receipt of Notice to Proceed and Purchase Order	*(Amendment)* All items should be delivered to VSU Main Campus, Visca, Baybay City, Leyte within 45 calendar days from receipt of Notice to Proceed and Purchase Order

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IV. Revised List of Goods and Technical Specifications

- Some Specifications were added (in red font) and/or deleted (in blue font)
- Some Quantities and Unit Prices (ABC) were changed

Item No.	Description	Unit	Qty	ABC/Unit (Pesos)	Total ABC (Pesos)
1	**4K HDMI Recording Monitor Kit**	unit	1	30,000.00	30,000.00
	Panel Type IPS-Type LCD				
	Display Size 5.0" / 12.7 cm				
	Resolution 1920 x 1080				
	Aspect Ratio 16:9				
	Touchscreen Yes				
	Maximum Brightness 1000 cd/m2				
	Bit Depth / Color Support 8-Bit+FRC (1.07 Billion Colors)				
	HDR Compatibility HDR10, Hybrid Log Gamma				
	Pixels Per Inch (ppi) 423 ppi				
	Color Gamut 100% Rec. 709				
	Real-Time LUT Monitoring SDR				
	Image Controls Anamorphic De-Squeeze, Blue Only, False Color, Focus Peaking, Pixel Zoom, RGB Parade, Scaling, Vectorscope, Waveform, Zebra				
	Inputs / Outputs				
	Video I/O 1 x HDMI 2.0 Input				
	1 x HDMI 2.0 Output				
	Embedded Audio HDMI: 2-Channel				
	HDMI: 8-Channel				
	Audio I/O 1 x 1/8" / 3.5 mm Mic/Line Input				
	1 x 1/8" / 3.5 mm Headphone Output				
	Built-In Speaker None				
	Power I/O 1 x D-Tap Input				
	Other I/O 1 x 2.5 mm (LANC)				
	Media/Memory Card Slot Single Slot: SSDmini/SSD with Master Caddy II/III				
	Wi-Fi None				
	Bluetooth Yes				
	App Compatible Yes: iOS Only				
	App Name: AtomRemote				
	Functionality: Adjust Settings, Remote Control				
	Format Support				
	Video Format HDMI (8/10-Bit 4:2:2)				
	DCI 4K: 60/50/30/25/24				
	UHD 4K: 60/50/30/25/24				

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	1080p: 120/60/50/30/25/24				
	1080i: 60/50				
	720p: 60/50				
	Gamma Curve Rec709				
	Video Signal Conversion HDMI to SDI				
	DCI 4K: 60/50/30/25/24				
	UHD 4K: 60/50/30/25/24				
	1080p: 120/100/60/50/30/25/24				
	1080i: 60/50				
	720p: 60/50				
	Recording				
	Pulldown Conversion 2:2, 3:2				
	Camera Trigger HDMI				
	Pre-Roll Record 4K: 2 Seconds				
	Full HD: 8 Seconds				
	Encoding Formats Up to 4097 x 2160				
	ProRes 422, HQ, LT, Raw, Raw HQ 8/10-Bit				
	DNxHR HQ, HQX, LB, SQ 8/10-Bit				
	Maximum Audio Tracks 12				
	Metadata Tagging 10				
	Power				
	DC Input Power 5.8 to 7.2 VDC				
	Built-In Battery None				
	Battery Type 1 x L-Series				
	Power Consumption 10 W (Typical)				
	22 W (Maximum)				
	Mounting				
	Mounting 2 x 3/8"-16 Female				
2	**Anti-virus Software, at least 3 users**	pc	2	5,000.00	10,000.00
	anti-malware				
	anti-ransomware				
	anti-hacking				
	perpetual license				
3	**Canon cartridge 318 Black**	pc	2	6,000.00	12,000.00
4	**Canon cartridge 318 Cyan**	pc	2	6,000.00	12,000.00
5	**Computer Keyboard USB**	pc	18	400.00	7,200.00
	◉Standard Keyboard with 104 Keys				
	◉USB Connection				
	◉Low Profile Key Caps				
	◉Minimum Key Noise				
	◉Laser Printing for Key Layout				
	◉Spill Resistant Design				
6	**Computer Printer, All-in-One/Multifunction Colored-Ink Tank**	unit	3	14,000.00	42,000.00
	◉Ultra-low-cost printing: Print up to 4,500 pages in black and 7,500 in colour				

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	◎Next generation ink filling system: Enjoy hassle and mess-free refills with the enhanced ink bottles				
	◎Wi-Fi, Wi-Fi Direct & apps: Print from mobile devices				
	◎3-in-1: Print, copy & scan and borderless photo printing				
	◎Nozzle Configuration: 180 Nozzles Black, 59 Nozzles per Color				
	◎Minimum Droplet Size: 3 pl, With Variable-Sized Droplet Technology				
	◎Ink Technology: Dye Ink				
	◎Printing Resolution: 5,760 x 1,440 DPI				
7	**Desktop Computer, with Monitor, Core i5 12th Gen, 8GB RAM, Assembled**	set	6	49,000.00	294,000.00
	◎Processor: 12th Generation Intel® Core™ i5-12400 Processor(2.50 GHz up tp 4.40 GHz) or higher				
	◎Motherboard: Intel® H610 Express Chipset Micro ATX Motherboard, with 6+1+1 Hybrid Digital VRM, High quality capacitors and Anti-sulfur resistors or higher				
	◎Operating System: Genuine Windows 11 Home 64				
	◎Memory: 8 GB DDR4-3200MHz (UDIMM) or higher				
	◎Graphics: Integrated Graphics				
	◎SSD: 256 GB SSD M.2 2280 PCIe or higher				
	◎Casing: mATX casing				
	◎Power supply: at least 450W, True Rated 80+ Bronze				
	◎Monitor: 24" FHD (1920 x 1080) IPS Monitor, NTSC 72%, 5ms response time, 60Hz				
8	**Desktop Monitor, 24" IPS, 75Hz**	unit	1	8,500.00	8,500.00
	Size (Inch) 23.8Size (cm) with narrow bezel				
	Resolution: 1920 x 1080				
	Panel Type: IPS				
	Aspect Ratio: 16:9				
	Pixel Pitch: 0.2745 x 0.2745 mm				
	Brightness (Min.): 200 cd/m²Brightness (Typ.) 250 cd/m²				
	Color Gamut (Typ.): NTSC 72% (CIE1931)				
	Color Depth (Number of Colors): 16.7M				
	Contrast Ratio (Min.): 600:1				
	Contrast Ratio (Typ.): 1000:1				
	Response Time: 5ms (GtG at Faster)				
	Viewing Angle (CR≥10): 178°(R/L), 178°(U/D)				
	Surface Treatment: Anti-Glare				
	Connectivity: DSUB, HDMI				
	HDMI (Max. Resolution at Hz): 1920 x 1080 @				

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	75Hz				
9	**DSLR Camera Set**	unit	1	33,000.00	33,000.00
	◎*Ready to use:*				
	◎*18-megapixel APS-C-size CMOS sensor & DIGIC 4+ image processor*				
	◎*9-point AF with 1 centre cross-type AF point*				
	◎*Standard ISO 100 - 6400 (expandable to 12800)*				
10	**Dymo Label Maker Labeling Machine with 3 pk tape & case**	unit	1	4,750.00	4,750.00
	Dymo Label Maker Letratag Labeling Machine with 3 pk tape & case				
	2 line printing, 5 font size, 7 print styles, 8 boxes styles, 9 labels memory, date stamp & 3 language option				
	tape size: 12mm, 7 meters long				
	black on white-paper				
	Uses 4 AA batteries (not included)				
11	**Epson 003 Ink Bottle for Epson L3150, Black**	btls	3	400.00	1,200.00
12	**Epson LabelWorks Cartridge Label tape 12 mm size**	pcs	10	350.00	3,500.00
	Compatible to Epson LW-600P Machine				
13	**Epson LabelWorks Cartridge Label Tape 24 mm size**	pcs	10	600.00	6,000.00
	Compatible to Epson LW-600P Machine				
14	**External Hard Disk Drive (Portable, 1TB), USB 3.1**	unit	7	3,500.00	24,500.00
	◎*Shock-absorbing*				
	◎*Interface: USB 3.1 (Max.5Gb/s)*				
	◎*Capacity: 1TB*				
	◎*Texture: Plastic/Rubber*				
	◎*Operating Voltage: DC 5V, 900mA*				
	◎*System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10, Mac OS X 10.6 or later, Linux Kernel 2.6 or later*				
15	**External Hard Disk Drive (Portable, 2TB), USB 3.1**	unit	9	4,200.00	37,800.00
	◎*Shock-absorbing*				
	◎*Interface: USB 3.1 (Max.5Gb/s)*				
	◎*Capacity: 2TB*				
	◎*Texture: Plastic/Rubber*				
	◎*Operating Voltage: DC 5V, 900mA*				
	◎*System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10, Mac OS X 10.6 or later, Linux Kernel 2.6 or later*				
16	**External Hard Drive, 1 TB**	unit	2	3,000.00	6,000.00
	Transcend TS1TSJ25M3-delete Slim 1TB Portable Hard Drive (Green) with 3 YEARS				
	Capacity: 1TB				

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	Connection interface: USB 2.0/3.0				
	Storage Media: 2.5" SATA HDD				
	Op. Voltage: USB DC 5V				
	Size :129.5mm x 82.4mm x 20.4mm-delete				
	Weight: 216g-delete				
17	**Flash Drive, 128GB, USB 3.0**	pc	6	1,500.00	9,000.00
	◎*Capacity:128GB*				
	◎*Interface: USB 3.0*				
	◎*Speed: 100MB/s read, 10MB/s write*				
18	**Genuine Microsoft Office 365 Pro Plus**	pc	1	8,500.00	8,500.00
	good for 5 laptops/pcs				
	genuine microsoft office 365 Pro Plus				
19	**Ink, Black C13T05A100 for Epson Copier ProWF-C878R**	pack	2	8,000.00	16,000.00
20	**Ink, Brother BT5000C Cyan**	btl	1	500.00	500.00
21	**Ink, Brother BT5000M Magenta**	btl	1	500.00	500.00
22	**Ink, Brother BT5000Y Yellow**	btl	1	500.00	500.00
23	**Ink, Brother BTD60BK, Black**	btl	1	500.00	500.00
24	**Ink, Cyan C13T05A200 Epson Copier ProWF-C878R**	box	2	9,000.00	18,000.00
25	**Ink, Epson 003,Genuine Black 65mL**	btl	26	350.00	9,100.00
26	**Ink, EPSON 003,Genuine Cyan 65mL**	btl	8	350.00	2,800.00
27	**Ink, EPSON 003,Genuine Magenta 65mL**	btl	8	350.00	2,800.00
28	**Ink, EPSON 003,Genuine Yellow 65mL**	btl	8	350.00	2,800.00
29	**Ink, Epson, genuine, (BK) T664, 70 ml**	pc	15	350.00	5,250.00
30	**Ink, Magenta C13T05A300 for Epson Copier ProWF-C878R**	box	2	9,000.00	18,000.00
31	**Keyboard And Mouse Combo Bundle, USB powered**	set	25	600.00	15,000.00
	◎*Keyboard*				
	◀*Keycaps: A-Shape, Round Edge*				
	◀*Hotkeys: No*				
	◀*Character: Laser Engraving*				
	◀*Adjustable Keyboard Legs: Yes*				
	◀*Rating: 5 V / 30 mA*				
	◎*Mouse*				
	◀*Report Rate: 125 Hz*				
	◀*Sensor: Optical*				
	◀*Resolution: 1000 DPI*				
	◀*Rating: 5 V / 100 mA*				
	◀*Buttons No.: 3*				
	◀*Ergonomic Design: Symmetric*				
	◀*Size: Middle / Big Hands*				
32	**Laptop (for Livestreaming), 15.6" 2.8K, Ryzen 5800, RTX 3050**	unit	1	80,000.00	80,000.00
	Operating System: Windows 11 Home License				
	Display: 15.6-inch 2.8K (2880 x 1620) OLED				

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	16:9 aspect ratio				
	Processor: AMD Ryzen 7 5800H Mobile Processor (8-core/16-thread, 20MB cache, up to 4.4 GHz max boost) or higher				
	Graphics: NVIDIA GeForce RTX 3050 4GB GDDR6				
	Memory: 16GB DDR4 on board				
	Storage: 512GB M.2 NVMe PCIe 3.0 SSD				
	Camera: 1080p FHD camera With privacy shutter				
	Connectivity: Wi-Fi 6(802.11ax) (Dual band) 2 2 + Bluetooth 5.2				
	Fingerprint: yes				
	Battery: 70WHrs, 3S1P				
	Keyboard: Backlit Chiclet Keyboard				
33	**Laptop 14" (i3)**	unit	1	38,000.00	38,000.00
	◉*Processor : Intel Core i3-1005G1 Processor 4M Cache, up to 3.40 GHz or higher*				
	◉*Operating System : Windows 10 Home*				
	◉*Memory : 4GB Onboard memory, 1 x SO-DIMM socket , total up to 8 GB SDRAM or higher*				
	◉*Display : 14.0" (16:9) LED-backlit HD (1366x768) 60Hz Anti-Glare Panel with 45% NTSC*				
	◉*Graphics : Integrated Intel UHD Graphics*				
	◉*Storage : 512GB PCIe Gen3 x2 SSD or higher*				
	◉*Networking : Integrated Wi-Fi 5 (802.11 ac) Bluetooth 5.0*				
	◉*Battery : 2 -Cell 32 Wh lithium-polymer battery*				
34	**Laptop Stand Lifting Riser Holder Aluminum Height/Angle**	pc	2	1,500.00	3,000.00
35	**Microsoft Office 2021 Professional Plus Perpetual License**	unit	4	7,000.00	28,000.00
	Includes Classic 2021 versions of Word, Excel, PowerPoint, and Outlook, plus Publisher Access and Teams		25,000		
	You will receive a License Key Card inside a Sealed Box				
	The License is Perpetual / No Expiration.				
	This is One-time purchase for 1 PC				
	Compatible with Windows 11 and Windows				
	Works with Microsoft Teams				
36	**Mobile Production Laptop (14") Macbook Pro**	unit	1	130,000.00	130,000.00
	System-in-a-Chip with 8-core CPU, 14-core GPU, 16-core				
	Neural Engine				
	16GB unified memory				
	512GB SSD storage				

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	96W USB-C Power Adapter				
	14-inch Extreme Dynamic Range (XDR) display				
	Three Thunderbolt 4 ports, HDMI port, SDXC card slot,				
	MagSafe 3 port				
	Backlit Magic Keyboard with Touch ID - US English				
	must be compatible with existing apple devices				
37	**Mouse, Wired, Optical, USB**	pc	3	210.00	630.00
	◙*USB Port Connectivity*				
	◙*Sensor: Optical*				
	◙*DPI: 1600*				
	◙*Work method: Wired*				
	◙*Buttons: Left button, middle button, right button*				
	◙*Scroll wheel direction: Two way*				
	◙*Design highlights: Easy installation. 1600 DPI high-definition tracking engine. Anti-slip scroll wheel. Full-size, ambidextrous design*				
38	**Panasonic SDI PTZ Camera (AW-UE50)**	unit	2	250,000.00	500,000.00
	Compatible with Current Fleet (Panasonic PTZ Cameras and AW-RP150GJ Controller)				
	Black Finish				
	Lens: Motorized Optical 24x zoom, F1.8 to F4.0				
	Image Sensor: 1/2.5-type 4K MOS x1				
	Optical zoom: 24x• i.Zoom UHD 28x, FHD 36x				
	Digital extender zoom: 1.4 x , 2 x				
	Horizontal Resolution: UHD: 1,500 Typ (Center area)FHD: 1,000 Typ (Center area)				
	Input Connector DC 12 V IN				
	Image Streaming Mode: JPEG (MJPEG), H.264, H.265, NDI®|HX version 2*10,11,12,13 (H.264)				
	PoE +IEEE802.3at compliant : DC42 to 57 V				
	*Output Format	SDI HD: 1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/29.97psF, 25psF, 23.98psF, 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p*				
	*Output Format	HDMI: 4K2160/29.97p (Native), 2160/25p (Native), 2160/24p (Just), 2160/23.98p (Native)Output Format	HDMI	HD1080/59.94p, 50p, 1080/59.94i, 50i, 1080/29.97p (Native), 25p (Native), 23.98p (over59.94i), 1080/24p (Just), 23.98p (Native), 720/59.94p, 50p*				
	*Video Output	3G-SDI OUTSMPTE292M, 424M/ 75 Ω (BNCx1)*				
39	**Photo Studio Pantograph Ceiling Track System**	set	3	25,000.00	75,000.00

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	4pc x 3m Aluminium Ceiling Tracks (2 single and 2 double tracks).				
	Can be bolted to ceiling for use with pantograph				
	4pc x 2m Pantographs Pantograph are adjustable for different flash weights				
	Can hold up to 1-15kg (Single)				
	Can be expanded or modified as you wish				
	4pc Wire holders with wheels.				
	6pc Rail Clamps				
	12pcs Expansion Bolt for Rail Clamps				
40	**Professional Mirrorless Camera Set**	set	1	180,000.00	180,000.00
	"Body with 36 x 24 mm (Full-Frame) CMOS Sensor				
	Capture Type: Stills & Video				
	Actual: 31.7 Megapixel				
	Effective: 30.3 Megapixel (6720 x 4480)				
	Image Stabilization for Video				
	Electronic Front Curtain Shutter: 1/8000 to 30 Seconds				
	ISO Sensitivity: Photo - 100 to 40,000 in Auto Mode (Extended: 50 to 102,400); Video - 100 to 25,600 (Extended: 100 to 102,400)				
	Exposure Modes: Aperture Priority, Manual, Shutter Priority				
	Image File Format: JPEG, Raw				
	Internal Recording Modes: H.264/MP4; UHD 4K (3840 x 2160) at 23.98/24.00/25/29.97 fps; 1920 x 1080p at 23.98/24.00/25/29.97/50/59.94 fps; 1280 x 720 at 25/29.97/50/59.94/100/119.88 fps				
	External Recording Modes 4:2:2 10-Bit via HDMI; UHD 4K (3840 x 2160)				
	Broadcast Output NTSC/PAL				
	Built-In Microphone Type: Stereo				
	Audio Recording: AAC Audio				
	2-Channel LPCM Audio				
	Media/Memory Card Slot Single Slot: SD/SDHC/SDXC (UHS-II)				
	Video I/O: 1 x Mini-HDMI Output				
	Audio I/O: 1 x 1/8"" / 3.5 mm TRS Stereo Headphone Output				
	1 x 1/8"" / 3.5 mm TRS Stereo Microphone Input				
	Power I/O: 1 x USB-C Input/Output				
	Other I/O: 1 x USB-C (USB 3.2 / 3.1 Gen 1) Data Input/Output (Shared with Power Input)				
	1 x E3 (2.5 mm Sub-Mini) Input				
	Wireless: Wi-Fi, Bluetooth				
	Global Positioning (GPS, GLONASS, etc.):				

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	None				
	3.15"" LCD Monitor with 2,100,00 dots				
	Built-in Electronic Viewfinder				
	Auto and Manual Focus				
	Continuous-Servo AF, Manual Focus, Single-Servo AF				
	Compatible 24-105mm F/4 L IS USM Lens				
	Focal Length: 24 to 105mm				
	Maximum Aperture: f/4				
	Minimum Aperture: f/22				
	2x Compatible LP-E6N Lithium-Ion Battery Pack (7.2V, 1865mAh) "				
41	**Scanner, Flatbed**	unit	1	40,000.00	40,000.00
	Technical Specifications:				
	Color Scanning: Yes				
	Scan Speed: ADF: Up to 20ppm/40 ipm (b&w, gray and color, 300 dpi)				
	Scan Type/Technology: Flatbed, ADF/CMOS CIS (Contact Image Sensor)				
	Scan Resolution: Hardware: Up to 600 x 600 dpi (color and menu, ADF) Up to 1200 x 1200 dpi (color and menu, Flatbed) Optical: Up to 600 dpi (color and menu, ADF) Up to 1200 dpi (color and menu Flatbed)				
	Scan File Format: For text and images, PDF, JPEG, BMP, TIFF, TXT (text), RTF and searchable PDF				
	ADF Capacity: Standard, 50 sheets				
	Light Source Scanning: Light Emitting Diode (LED)				
	Digital sending standard: Scan to PC				
	Memory: Standard: 64MB				
	Processor speed: 120MHz				
	Warranty: One Year warranty				
42	**SSD, NVMe 1TB**	pc	1	7,500.00	7,500.00
	◉Solid State Drive (SSD)				
	◉NVMe M.2				
	◉Up to 3500MB/s read speed				
	◉Up to 3300MB/s write speed				
	◉Up to 1200 TBW				
	◉Intelligent TurboWrite				
	◉Dynamic Thermal Guard				
	◉Interface: PCIe Gen 3.0 x 4, NVMe 1.3				
	◉V-NAND 3-bit MLC				
	◉Shock: 1,500 G & 0.5 ms (Half sine)				
	◉Form Factor: M.2 (2280)				
43	**UPS 800W (for Computer)**	unit	16	5,000.00	80,000.00
	◉Charging time: At most 4 hours;				

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44	**Video Card, Nvidia GT 710, 2GB DDR3**	pc	1	4,000.00	4,000.00
	GPU Engine Specs: CUDA Cores 192, Base Clock (MHz) 954, Boost Clock (MHz) N/A				
	Memory Specs: Memory Speed 1600 effective				
	Standard Memory Config 2048MB				
	Memory Interface Width 64-bit GDDR3				
	Memory Bandwidth (GB/sec) 12.8				
	Microsoft DirectX 12				
	OpenGL 4.5				
	Bus Support: PCI-E 2.0 x 8				
	DVI Dual-Link DVI-D				
	VGA				
	HDMI				
45	**Web Camera for PC**	unit	1	2,500.00	2,500.00
	◙*Image sensor: 1 / 2.9*				
	◙*Lens: 3.6mm/75.7 °*				
	◙*Effective pixel: 1932 (H) * 1088 (V)*				
	◙*Horizontal resolution: 2MP*				
	◙*SNR: > 50dB*				
	◙*Video stream: H.264:1920 * 1080 / 1920 * 720 / 640 * 360 MJPEG: 1920 * 1080 / 1920 * 720 / 640 * 360*				
	◙*Video Frame rate: 25FPS / 30FPS*				
	◙*Electronic shutter: Auto*				
	◙*Protocol: UVC / UVA*				
	◙*Video output: USB video stream*				
	◙*Working voltage: DC5V / 160mA ± 6mA*				
	◙*Working environment: -20 ℃ to 60 ℃*				
46	**Wireless HDMI/SDI Transmitter & Receiver**	set	2	36,000.00	72,000.00
	Transmitter and Receiver Set				
	Transmit up to 1080p60 Video				
	Transmit up to 400' to RX, 300' to App				
	SDI and HDMI Inputs and Outputs				
	L-Series Battery/USB Type-C/DC Power				
	OLED Display, Low-Battery Warning				
	Extremely Low 0.08s Latency				
	Shoe Adapter & 1/4"-20 Mounting Thread				
	With compatible power adapter				
	1 x Barrel Connector				
	1 x NEMA 1-15 US Plug				
	100 to 240 VAC, 50/60 Hz				
	12 VDC, 2 A				
	4.9' / 1.5 m				
	With compatible batteries and charger				
	2 x NP-F 2200mAh Lithium-Ion Batteries				
	Lithium-Ion Battery Charger				

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47	**Wireless Intercom System**	set	1	100,000.00	100,000.00
	6 x Single-Sided Headset				
	Wireless Connectivity				
	Wireless Technology: Digital DECT (1.9 GHz)				
	DECT Standard 6.0				
	Operating Range: 1000' / 304.8 m				
	Users per System: 6				
	Wireless Modulation: Analog: GFSK				
	Duplex Mode: Echo Cancellation				
	Approximate RF Sensitivity: -90 dBm				
	Headphone				
	Earpiece Design: On-Ear (Supra-Aural) / Over-Ear (Circumaural)				
	Earpiece Connection / Wearing Style: Headband				
	Number of Earpieces Single Earpiece (Left or Right Side)				
	Sound Field: Mono				
	Controls/Microphone Location Controls: Adjustable Boom, Earpiece (Side Unspecified)				
	Frequency Response: 150 Hz to 7 kHz				
	Maximum Sound Pressure Level (SPL): 115 dB				
	Total Harmonic Distortion (THD) 1%				
	SNR Headphones:				
	>55 dB				
	Microphone				
	Type: Electret Condenser				
	Mic Boom Location: Interchangeable (Left or Right Side)				
	Pickup Pattern: Cardioid (Unidirectional)				
	Maximum SPL: 115 dB				
	Audio Connector to Source: None				
	Battery				
	Battery Type: Headset: 1 x 26650				
	Battery Chemistry: Headset: Lithium-Ion				
	Capacity (mAh): 700 mAh				
	Runtime: Headset: 10 Hours				
	Recharge Time 2.5 Hours				
48	**Desktop Computer (w/o Monitor), Core i3 11th Gen (Assembled)**	unit	1	24,000.00	24,000.00
	◎Processor: Intel Core i3-11300 (4 cores /8 threads) or higher				
	◎Motherboard: Intel H510M Ultra Durable motherboard, Gaming LAN, Anti-Sulfur Resistor, LGA-1200				
	◎Memory: 8GB DDR4 2933 DIMM Desktop Memory or higher				
	◎SSD: 240GB NVMe or higher				

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	◉Casing with Power Supply				
	◉Operating System: Genuine Windows 10 Home (OEM)				
	◉w/ USB Keyboard and Mouse				
49	**UPS, 1000 VA**	unit	2	3,000.00	6,000.00
	◉1000VA/600W capacity				
	◉Frequency Range: 60 Hz				
	◉Freq. Range (Batt. Mode): 60 Hz ± 1 Hz				
	◉Transfer Time: Typical 4-8 ms				
	◉Waveform (Batt. Mode): Simulated Sine Wave				
	◉Back-up Runtime: 10-15 mins				
	◉Voltage: 220 VAC				
	◉Voltage Range: 162-270 VAC				
50	**Tablet, A13 Chip, 64GB**	unit	1	25,000.00	25,000.00
	A13 Bionic chip				
	Neural Engine				
	64GB Storage, 3GB RAM,				
	10.2-inch (diagonal) LED-backlit Multi-Touch display with IPS technology				
	2160-by-1620-pixel resolution at 264 pixels per inch (ppi)				
	True Tone display				
	500 nits brightness				
	Fingerprint-resistant oleophobic coating				
	Wi-Fi (802.11a/b/g/n/ac); dual band (2.4GHz and 5GHz); HT80 with MIMO				
	Bluetooth 4.2 technology				
	Stereo speakers				
	Dual microphones				
51	**LCD Projector, XGA (1024x768)**	unit	8	27,000.00	216,000.00
	◉Projection Method: Front/rear/ceiling mount				
	◉Pixel Number: at least 786,432 dots (1024 x 768) x 3				
	◉Color Brightness: 3.600 lumen- 2.235 lumen (economy) In accordance with IDMS15.4				
	◉Aspect ratio: 4:3				
	◉Lamp Life: ECO Mode up to 5000 hrs				
	◉Normal Mode up to 4000 hrs				
	◉Projection Distance Wide/Tele: 1,8 m - 2,17 m (60 inch screen)				
	◉Keystone Correction: Manual				
	◉USB Plug 'n Play: Compatible w/ PC and MAC computers				
	◉Contrast Ratio: 15.000 : 1				
	◉Color Reproduction: 16.77 million color				
52	**Desktop Computer (i5, 11th Gen)**	unit	2	45,000.00	90,000.00
	◉Processor: Intel Core i5-11500 or higher				

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	◉Motherboard: Intel H510M S2H (6+2 Phases Digital VRM, Anti-sulfur resistors, LGA 1200, Micro-ATX, PCIe 4.0, USB 3.2 Gen) or higher				
	◉Memory: 16GB (2x8) DDR4 or higher				
	◉SSD: 500GB NVMe M.2, or higher				
	◉Optical Drive: DVD-RW				
	◉Casing: W/ 700W PSU,				
	◉Monitor: 23" IPS FHD,				
	◉Operating System: Genuine Windows 10 Home (OEM)				
	◉Keyboard and mouse combo				
	◉500W IC controlled AVR				
	◉Stereo speakers				
53	**Unifi 500W PoE+ Switch**	unit	1	45,000.00	45,000.00
	◉24 ports PoE+ Switch 500W				
	◉Network Interfaces: (24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports				
	◉Management Interface: (1) RJ45 Serial Port Out-of-Band, Ethernet In-Band				
	◉Total Non-Blocking Throughput: 26 Gbps				
	◉Switching Capacity: 52 Gbps				
	◉Forwarding Rate: 38.69 Mpps				
	◉MAC Address Table: 16384				
	◉Maximum Aggregations: 6				
	◉Monitoring Sessions 1; Maximum VLANs 255				
	◉Power Method 100-240VAC/50-60 Hz, Universal Input				
	◉Power Supply AC/DC, Internal, 500W DC				
	◉Max. Power Consumption: Including PoE				
	◉Output: 500W Excluding PoE Output: 30W;				
	◉ESD/EMP Protection Air: ± 24 kV, Contact: ± 24 kV				
	◉Shock and Vibration ETSI300-019-1.4 Standard				
	◉Operating Temperature -5 to 40° C (23 to 104° F)				
	◉Operating Humidity 5 to 95% Noncondensing				
	◉Certifications CE, FCC, IC				
	◉PoE Interfaces PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)				
	◉Max. PoE+ Wattage per Port by PSE 34.2W				
	◉Voltage Range 802.3at Mode 50–57V				
	◉Max. Passive PoE Wattage per Port 17W				
	◉24V Passive PoE Voltage Range 20-27V				

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	◉Should be compatible with existing Unifi Controller of the University				
	◉1-year warranty				
54	**Desktop Computer, Assembled, 12th Gen Core i5, SDD and HDD**	set	1	49,000.00	49,000.00
	◉Processor: Intel® Core i5 12th gen with Intel® UHD Graphics 730 or higher				
	◉Motherboard :Intel® H610 Chipset for 12th Gen Intel® Core™ Series Processors, Dual Channel Non-ECC Unbuffered DDR4, 2 DIMMs, 6+1+1 Hybrid Digital VRM Design, Intel® GbE LAN, NVMe PCIe 3.0 x4 M.2, High Quality Audio Capacitors and Audio Noise Guard, mATX form factor or higher				
	◉RAM: 16GB DDR4 3200 Mhz or higher				
	◉SSD: 512 GB NVMe PCIe Gen 3x4				
	◉HDD: 1 TB 7200 RPM				
	◉PSU: 650w 80 plus Bronze Certified				
	◉Casing: mATX Casing with transparent acrylic side panel				
	◉24" IPS monitor 72% NSTC color gamut with 75Hz refresh rate				
	◉Keyboard and Mouse Combo: Spill-resistant design with up to Up to 5 million keystrokes (excludes number lock key) keyboard and full-sized ambidextrous optical mouse				
	◉Operating system: Genuine Windows 11				
55	**Headset with Noise Cancelling Mic**	unit	1	1,800.00	1,800.00
	◉Input Impedance: at least 32 Ohms				
	◉Sensitivity (headphone):at least 94 dBV/Pa +/- 3 dB				
	◉Sensitivity (microphone): -17 dBV/Pa +/- 4 dB				
	◉Frequency response (Headset): 20 Hz - 20 KHz				
	◉Frequency response (Microphone): 100 Hz - 10 KHz				
	◉Cable Length: at least 7 ft				
	◉Connections: USB-A compatible (1.1, 2.0, 3.0), USB port 1Type A port or adapter				
56	**Printer, Ink tank system, 3-in-1**	unit	1	12,000.00	12,000.00
	Printer Type: Print, Scan, Copy				
	Print Method:On-demand inkjet (Piezoelectric)				
	Printer Language:ESC/P-R, ESC/P Raster				
	Scanner Type:Flatbed colour image scanner				
	Sensor Type:CIS				
	Optical Resolution:600 x 1200 dpi				
	Nozzle Configuration:180 x 1 nozzles Black, 59 x 1 nozzles per Colour (Cyan, Magenta, Yellow)				
	Maximum Resolution:5760 x 1440 dpi				

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	Automatic 2-sided Printing:No				
57	**Webcam, QHD 2k (2560 x 1440)**	unit	1	3,000.00	3,000.00
	◉Lens: Type Hybrid Lens				
	◉Focus Type: Fixed				
	◉Field of View: 85 degrees				
	◉Video Encoding H.264				
	◉Video Resolution: up to 2560 x 1440				
	◉Built-in omni-directional microphone, Noise Canceling Mics				
	◉Auto Light Correction: Yes				
	◉Interface USB 2.0				
58	**Soldering Gun, 100W**	pc	2	1,200.00	2,400.00
	100W / 220V Soldering Gun Complete Kit				
	Suitable for soldering light gauge wires, thin metals and hobby work				
	Reaches working temperature in 12 seconds				
	With built in working light				
	Comes with 2 soldering tips and hard shell case				
59	**Laptop 14" (i5)**	unit	2	49,500.00	99,000.00
	◉*Processor: Intel Core i5-1035G1 Processor 1.0 GHz 6M Cache, up to 3.60 GHz or higher*				
	◉*Operating system: Windows 10 Home*				
	◉*Memory: 4GB memory, 1 x SO-DIMM socket (for expansion) or higher*				
	◉*Display: 14.0" (16:9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45% NTSC*				
	◉*Video Processor: NVIDIA GeForce MX330 , with 2GB GDDR5 VRAM or higher*				
	◉*Storage: 512GB PCIe Gen3 x2 SSD*				
60	**Laptop, Intel Core i7 12th Gen, 16GB RAM, RTX 3050**	unit	1	130,000.00	130,000.00
	Processor: 12th Generation Intel Core i7-12700H Processor (E-cores up to 3.50 GHz P-core up to 4.70GHz)				
	Operation System: Windows 11 Pro 64				
	Operating System Language: Windows 11 64 English				
	Total Memory: 16 GB DDR5-4800MHz (8GB Soldered + 8GB SODIIMM)				
	First Solid State Drive: 1 TB SSD M.2 2280 PCIe Gen4 TLC				
	Display: 16"WUXGA (1920 x1200), IPS. Anti-Glare. Non-Touch, 100%sRGB. 350 nits, 165Hz, Narrow Bezel				
	Graphic Card: NVIDIA GeForce RTX 3050 TI 4GB GDDR6				
	Camera: FHD with Dual Microphone				

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	Surface Treatment: Anodizing				
	Fingerprint Reader: Fingerprint Reader with Power Button				
	Keyboard: RGB Backlit. Storm Grey- English				
	Wireless: Wi-Fi 6E 2x2 AX & Bluetooth 5.1 or above				
	Battery: 4 Cell Li-Polymer 99.99Wh				
	Power Cord: 230W AC Adapter Slim (3pin)-US				
	Language Pack: Publication-Traditional Chinese/Simplified Chinese/English				
	Warranty: 1 Year Courier or Carry-in				
61	**Ink, Epson, genuine, (BK) T664, 70 ml**	pc	10	350.00	3,500.00
62	**Epson 001 Ink, Black, 127ml, Genuine**	btls	20	600.00	12,000.00
63	**Hikvision Camera, Dome Camera, Compatible with the existing fleet**	unit	1	3,800.00	3,800.00
	◉2 MP Dome IPCamera				
	◉Power of Ethernet (PoE)				
	◉Weather proof (IP67, IK10protection),				
	◉outdoor type				
64	**Ubiquiti Unifi 8 Port PoE+150W SFP Switch**	pc	2	12,000.00	24,000.00
	◉Switching Capacity: 20Gbps				
	◉Forwarding Rate: 14.48Mbps				
	◉Power Method: 100-240VAC/50-60Hz, Universal Input				
	◉Power Supply: AC/DC, Internal, 150 W DC				
	◉LED Per Port: RJ45 Data Ports: PoE				
	◉Compatible with existing fleet				
65	**System Unit (CPU)**	units	20	40,000.00	800,000.00
	CPU: 9th Gen Intel Core i7-9700 (8-Core, 12MB Cache, up to 4.7GHz with Intel Turbo Boost Technology) or higher				
	SDD: 256GB M.2 PCle NVMe Solid State Drive or higher + 1TB 7200 rpm 3.5" SATA Hard Drive or higher				
	RAM: at least 8GB (8GBx1) DDR4 2666MHz or higher				
	Graphics: NVIDIA GeForce GTX 1650 4GB GDDR5 or higher				
	ATX casing with 700W PSU				
	With genuine Microsoft Office license.				
	OS: at least Windows 10				
66	**Ink, Epson, genuine, (C) T664, 70 ml**	pcs	2	350.00	700.00
67	**Ink, Epson, genuine, (M) T664, 70 ml**	pcs	2	350.00	700.00
68	**Ink, Epson, genuine, (Y) T664, 70 ml**	pcs	2	350.00	700.00
69	**20-user STATA/SE Lab License**	lot	1	314,909.42	314,909.42
	20 - USER STATA 17/SE LAB LICENSE				
	Upgraded version of Stata				
	$ 5, 790.00/-delete PERPETUAL				

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	Upgrade on the existing perpetual Stata 14				
70	**Digital Copyprinter**	unit	1	105,000.00	105,000.00
	High-speed digital master-making/Fully automatic printing				
	Grayscale/Black and White/Colour Printing (by replacing color drum)				
	Original paper: One sheet; Minimum: 90x140mm; Maximum: 310mmx435mm				
	Print paper: 500 to 1000 sheets capacity; Minimum: 90x140mm to 100x148mm; Maximum: 275x395mm to 297x420mm				
	Resolution 300x300 dpi				
	Print speed: 60 to 100 sheets per minute				
	Power: 220-240V; Less than 175W				
71	**Digital SLR Camera Set**	set	2	145,000.00	290,000.00
	DLSR Camera body with High Image Quality with 32.5 Megapixel CMOS (APS-C) Sensor DIGIC 8 Image Processor				
	High-Speed Continuous Shooting of up to 10 fps with no Time Lag during OVF Shooting.				
	4K (UHD) 30fps / FHD 120fps Video.				
	45-point all cross-type AF system Supports up to 27 Points with an f/8 Metering.*				
	Equipped with an Approx. 220,000 Pixel New AE Sensor and EOS iTR AF (Face Detection)				
	With EF-S 18-135mm f/3.5-5.6 IS USM				
	With EF 50mm f/1.8 STM Lens				
	With EF70-200mm f/2.8L USM Lens				
	Battery Pack LP-E6N				
	Battery Charger LC-E6				
72	**Lavilier Microphone with Transmitter**	set	1	50,000.00	50,000.00
	Microphone Receiver				
	Output: 2x XLR Output				
	2x 1/4" (6.35 mm) Output				
	Output Impedance: XLR: 200 Ω				
	1/4": 50 Ω				
	Audio Output Level: XLR Connector: -20.5 dBV into 100kΩ Load (Reference +/-33 kHz with 1 kHz Tone)				
	1/4": -13 dBV into 100kΩ Load (Reference +/- 33 kHz with 1 kHz Tone)				
	RF Sensitivity: -105 dBm for 12 dB SINAD, Typical				
	Image Rejection: >50 dB, Typical				
	Transmitter				
	Audio Input: Gain: -16 dBV (Maximum), 10 dBV (Minimum				
	Gain Adjustment Range: 26 dB				

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	Input Impedance: 1 MΩ				
	RF Output: 10 mW, Typical				
	Housing: Molded ABS				
	Power Requirement: 2x LR6 AA Batteries, 1.5 V Alkaline				
	CVL Centraverse Lavalier Condenser Microphone				
	Type: Electret condenser				
	Frequency Response: 50 Hz to 20 kHz				
	Polar Pattern: Cardioid				
	Output Impedance: 600 Ω @ 1 kHz, typical				
	Audio Output Level: -43.5 dBV/Pa				
	Signal to Noise Ratio: 72 dB @ 1 kHz				
	Maximum SPL: 139 dB, @ 1 kHz (1,000 Ω load)				
	Dynamic Range: 117 dB, @ 1 kHz (1,000 Ω load)				
	Output Noise: 22 dB, typical, A-weighted				
	Power Requirements: +5 V DC (nominal), 10 V maximum (DC bias)				
73	**Mirrorless Camera (for still and video)**	set	1	120,000.00	120,000.00
	Professional quality photo and 4K video performance in a durable magnesium alloy body.				
	Includes 12-60mm F2.8-4.0 Lens (Power O.I.S. / 62mm Filter Tread / 4 ASPH / 2 ED)				
	20.3MP Micro Four Thirds sensor with no low pass filter.				
	5-Axis photo/video Dual I.S.. 2.0 up to 5 Stops with compatible LUMIX MFT lenses, plus In-body stabilization Support for classic non-O.I.S. lenses.				
	4K video: Internal recording at 4k60/50P (4:2:0 8bit) & 4k30/25P/24P (4:2:2 10bit).				
74	**Apple iPad Pro Tablet with Pencil & Keyboard**	units	2	100,000.00	200,000.00
	12.9-inch (diagonal) mini-LED backlit Multi-Touch display with IPS technology				
	2732-by-2048-pixel resolution at 264 pixels per inch (ppi)				
	System-in-a-chip 8-core CPU with 4 performance cores and 4 efficiency cores; 10-core GPU; 16-core Neural Engine				
	256 GB Storage				
	Apple Pencil (2nd Generation)				
	USB-C Charge Cable (1 meter)				
	20W USB-C Power Adapter				
	Smart Keyboard Folio for 12.9-inch tablet (6th generation) —US English				
	Compatible with the existing Apple Devices				

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75	**Mobile Editing and Production Laptop**	units	2	120,000.00	240,000.00
	System-in-a-chip 8-core CPU, 10-core GPU, 16-core Neural Engine				
	16GB unified memory				
	512GB SSD storage				
	13-inch Retina display with True Tone				
	Two Thunderbolt / USB 4 ports				
	Touch Bar and Touch ID				
	Backlit Magic Keyboard - US English				
	Force Touch trackpad				
	Final Cut Pro				
76	**Multimedia Production Workstation (All-in-one Computer**	unit	1	150,000.00	150,000.00
	System-in-a-chip Processor with 8-core CPU with 4 performance cores and 4 efficiency cores, 8-core GPU, and 16-core Neural Engine				
	16GB unified memory				
	1TB SSD storage				
	Two Thunderbolt / USB 4 ports				
	Two USB 3 ports				
	Gigabit Ethernet				
	Magic Mouse				
	Magic Keyboard with Touch ID - US English				
	Preinstalled with Final Cut Pro				
	Preinstalled with Logic Pro				
77	**Male+Female Plug Connector Power Supply Jack Adapter for CCTV Camera**	set	1	460.00	460.00
	Female Jack Description: No electrical tap, No splicing, no crimping, but only a small screw driver.				
	Male Jack Description: 2.1 x 5.5mm CCTV Camera DC Power Plug Connector. DC Power Plug with plastic construction and strain relief. This 2.1 x 5.5mm Power Plug features one power connector end DC plug male to another end terminal for CCTV camera connected.				
78	**CCTV IP Camera**	pc	1	4,000.00	4,000.00
	◉*2MP WDR, with Built-in Mic*				
	◉*12v, DC*				
	◉*30m IR range,*				
	◉*1920x1080 Max. Resolution*				
	◉*Dome Type*				
	◉*2.8/4mm fixed lens*				
79	**Epson 001 Ink, Cyan, 127ml, Genuine**	btls	8	350.00	2,800.00
80	**Epson 001 Ink, Magenta, 127ml, Genuine**	btls	8	350.00	2,800.00
81	**Epson 001 Ink, Yellow, 127ml, Genuine**	btls	8	350.00	2,800.00
82	**Ubiquiti Unifi HD Access Point 802.11 AC Wave 2 MU-MIMO Indoor / Outdoor High**	unit	1	18,000.00	18,000.00

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	Density Access Point				
	◉*Networking Interface (2) 10/100/1000 Ethernet Ports Buttons Reset Power Method 802.3at PoE+ Supported Voltage Range 44 to 57VDC*				
	◉*Power Supply UniFi Switch (PoE) Power Save Supported Beamforming Supported Maximum Power Consumption 17W TX Power 2.4 GHz 5 GHz 6-25 dBm 6-25 dBm Antennas 2.4 GHz 5 GHz (2) Dual-Port, Dual-Polarity Antennas, 3 dBi each (2) Dual-Port, Dual-Polarity Antennas, 4 dBi each Wi-Fi Standards 802.11 a/b/g/n/r/k/v/ac/ac-wave2 Wireless Security WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES) 802.11w/PMF BSSID Up to 8*				
	◉*Radio Mounting Wall/Ceiling (Kits Included)*				
	◉*Operating Temperature -10 to 70° C (14 to 158° F)*				
	◉*Operating Humidity 5 to 95% Noncondensing*				
	◉*Certifications CE, FCC, IC Advanced Traffic Management VLAN 802.1Q Advanced QoS Per-User Rate Limiting Guest Traffic Isolation Supported WMM Voice, Video, Best Effort, and Background Concurrent Clients 1000+ Supported Data Rates (Mbps)Standard Data Rates 802.11a 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n 6.5 Mbps to 450 Mbps (MCS0 - MCS23, HT 20/40) 802.11ac 6.5 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80) 58 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2, VHT 160) 802.11b 1, 2, 5.5, 11 Mbps 802.11g 6, 9, 12, 18, 24, 36, 48, 54Mbps*				
	◉*Should be compatible with the existing fleet of Unifi Access Points and Controller*				
	Trust Fund				
83	**Ink, Epson 003,Genuine Black 65mL**	btls	4	350.00	1,400.00
84	**Ink, EPSON 003,Genuine Cyan 65mL**	btl	4	350.00	1,400.00
85	**Ink, EPSON 003,Genuine Magenta 65mL**	btl	4	350.00	1,400.00
86	**Ink, EPSON 003,Genuine Yellow 65mL**	btl	4	350.00	1,400.00
87	**External Hard Disk Drive (Portable, 1TB), USB 3.1**	unit	1	3,500.00	3,500.00
	◉*Shock-absorbing*				
	◉*Interface: USB 3.1 (Max.5Gb/s)*				
	◉*Capacity: 1TB*				
	◉*Texture: Plastic/Rubber*				
	◉*Operating Voltage: DC 5V, 900mA*				
	◉*System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10, Mac OS X 10.6 or later, Linux Kernel 2.6 or later*				
88	**SD Memory card for mirrorless camera**	pc	1	1,400.00	1,400.00

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	Capacity: 128GB				
	Standard/Class: Class 10, UHS-I, U3, V30				
	Performance: 170/90MB/s Read/Write (128GB-512GB)				
	Dimensions: 24mm x 32mm x 2.1mm				
	Format: exFAT				
	Operating Temperatures: -25°C to 85°C				
	Storage Temperatures: -40°C to 85°C				
	Voltage: 3.3V				
	Superior transfer speeds of up to 170/90MB/s1 • Ideal for shooting 4K UHD video and burst-mode photography				
	U3 & V30 speed performance				
89	**Ink, Epson, genuine, (BK) T664, 70 ml**	pc	20	350.00	7,000.00
90	**All-in-One-Printer**	unit	5	11,000.00	55,000.00
	Inktank 3 in 1 Printer Continous Ink with Scanner and Xerox				
	Ultra-low-cost printing: Save up to 90% on the cost of ink				
	Next generation ink filling system: Enjoy hassle and mess-free refills with enhanced ink bottles				
	Reliable results: Micro Piezo technology, Epson genuine ink-delete, warranty				
	3-in-1:Print, copy & scan and borderless 10x15cm photo printing				
	Print Resolution: 5760 x 1440 DPI				
	Print Speed: 10 pages/min Monochrome, 5 pages/min Colour				
	5760 x 1400 DPI				
	Compatible: Mac OS 10.10.x, Mac OS 10.7.x, Mac OS 10.8.x, Mac OS 10.9.x, Mac OS X 10.6.8 or later, Windows 10,Windows 7,Windows 7x64, Windows 8, Windows 8 (32/64 bit), Windows 8.1, Windows 8.1 x64 Edition, Windows Vista, Windows Vista x64, Windows XP, Windows XP x64, XP Professional x64 Edition				
91	**Camera with HD Video**	pc	1	50,000.00	50,000.00
	Sensor:				
	1.0 type (1.0-type (13.2 mm x 8.8 mm) Exmor RS® CMOS sensor, aspect ratio 3:2				
	Approx. 20.1 Megapixels				
	Lens:				
	ZEISS® Vario-Sonnar® T* Lens, 10 elements in 9 groups (9 aspheric elements including AA lens)				
	F1.8 (W) – 2.8 (T)				
	Auto / On (3 steps) / Off				
	F = 9.4–25.7 mm				

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	AF (W: approx. 0.17 ft (5 cm) to infinity, T: Approx. 0.99 ft (30 cm) to infinity)				
	Optical Zoom: 2.7x				
	Digital Zoom (Still Image): 20M Approx. 11x / 10M Approx. 16x / 5.0M Approx. 23x / VGA Approx. 44x				
	Screen: 7.5 cm (3.0 type) (4:3)/921,600 dots/Xtra Fine/TFT LCD				
	Adjustable Angle: Opening angle: approx. 176 deg., Rotation angle: approx. 270 deg.				
	Touch Panel: Yes				
	Image Processing Engine: Yes (BIONZ X)				
	STEADYSHOT (STILL IMAGE): Optical				
	STEADYSHOT (MOVIE) :Yes (optical type with electronic compensation, anti-rolling type)				
	Focus Type: Fast Hybrid AF (phase-detection AF / contrast-detection AF)				
	Focus Mode: Single-shot AF, Automatic AF, Continuous AF, DMF, Manual Focus				
	Focus Area: Wide (315 points (phase-detection AF), 425 points (contrast-detection AF)), Zone, Center, Flexible Spot (S/M/L), Expanded Flexible Spot, Tracking (Wide/Zone/Center/Flexible Spot (S/M/L)/Expanded Flexible Spot)				
	OBJECT TRACKING: Yes (Tracking)				
	EYE AF: [Still images] Human (Right/Left Eye Select)/Animal, [Movie] Human (Right/Left Eye Select)				
	Light Metering Mode: Multi Pattern, Center-Weighted, Spot, Entire Screen Avg, Highlight				
	Exposure Compensation: +/- 3.0 EV, 1/3 EV step				
	ISO Sensitivity (Still Image)(Recommended Exposure Index):Auto (ISO 100–12800, selectable with upper/lower limit), 100/125/160/200/250/320/400/500/640/800/1000/1250/1600/2000/2500/3200/4000/5000/6400/8000/10000/12800 (Extendable to ISO64/80), Multi-Frame NR: Auto (ISO100–12800), 100/200/400/800/1600/3200/6400/12800/2560023				
	ISO Sensitivity (Movie) Auto: (ISO 125 level–ISO12800 level, selectable with upper/lower limit), 125/160/200/250/320/400/500/640/800/1000/1250/1600/2000/2500/3200/4000/5000/6400/8000/10000/12800				
	White Balance Modes: Auto, Daylight, Shade, Cloudy, Incandescent, Fluor.: Warm White, Fluor.: Cool White, Fluor.: Day White, Fluor.: Daylight, Flash, Underwater Auto,				

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C.Temp./Filter, Custom				
WB Micro Adjustment: Yes (G7 to M7, 57-step) (A7 to B7, 29-step)				
Shutter Speed: iAuto (4"–1/2,000) / Program Auto (30"–1/2,000) / Manual (Bulb, 30"–1/2,000) / Aperture Priority (30"–1/2,000) / Shutter Priority (30"–1/2,000)4				
Electronic Shutter: iAuto (4"–1/32,000) / Program Auto (30"–1/32,000) / Manual (30"–1/32,000) / Aperture Priority (30"–1/32,000) / Shutter Priority (30"–1/32,000)				
Aperture: iAuto (F1.8/F11 (W)) / Program Auto (F1.8/F11 (W)) / Manual (F1.8/F11 (W)) / Shutter Priority (F1.8/F11 (W)) / Aperture Priority (F1.8/F11 (W))				
Image Control: Contrast, Saturation, Sharpness, Creative Style, Color Space (sRGB/Adobe RGB), Quality (RAW/RAW & JPEG (Extra fine, Fine, Standard)/JPEG (Extra fine, Fine, Standard)				
Noise Reduction: Long exposure NR: On/Off, available of shutter speeds longer than 1/3 s, high ISO NR: Normal/Low/Off, Multi Frame NR: Auto, ISO 100–25600				
Dynamic Range Functions: Off, Dynamic Range Optimizer (Auto/Level 1-5), Auto High Dynamic Range (Auto Exposure Difference, Exposure Difference Level (1.0–6.0 EV, 1.0 EV step))				
Shooting Mode: AUTO (Intelligent Auto), Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure, MR (Memory Recall) [body three sets/memory card four sets], Movie Mode (Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure), Movie AUTO (Intelligent Auto), HFR Mode (Program Auto, Aperture Priority, Shutter Speed Priority, Manual Exposure), Panorama, Scene Selection				
Scene Selection: Portrait, Sports Action, Macro, Landscape, Sunset, Night Scene, Handheld Twilight, Night Portrait, Anti-Motion Blur, Pet Mode, Gourmet, Fireworks, High Sensitivity				
Continuous Shooting Speed (maximum) (with max. recording pixels): Continuous Shooting Hi: approx. 24fps, Continuous Shooting Mid: approx. 10fps, Continuous Shooting Low: approx. 3.0fps567				
Self-Timer: 10 s / 5 s / 2 s / 3 or 5 consecutive shots with 10 s, 5 s, or 2 s delay selectable / Bracketing shots with 10 s, 5 s, or 2 s delay selectable				
Drive Modes: Single, Continuous shooting, Self-timer, Self-timer (cont.), Cont.-bracketing8, Single-bracketing8, White-balance bracketing8,				

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	DRO bracketing8				
	INTERVAL REC: Yes (1–60 s interval, 1–9,999 shots, AE lock/AE tracking (High/Mid/Low))9				
	Panorama (Shooting): Sweep Panorama				
	Picture Effect: [Still image] Toy Camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono., Soft Focus, HDR Painting, Richtone Monochrome, Miniature, Watercolor, Illustration, [Movie] Toy Camera, Pop Color, Posterization, Retro Photo, Soft High-key, Partial Color, High Contrast Mono.				
	Creative Style: Standard, Vivid, Portrait, Landscape, Night Scene, Black & White, Sepia				
	Picture Profile: off/PP1-PP10 (Black Level, Gamma (Movie, Still, Cine1–2, ITU709, ITU709 [800%], S-Log2, S-Log3, HLG, HLG1, HLG2, HLG3), Black Gamma, Knee, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset)				
	Number of Recognised Scenes: Still image: iAuto: 33, Movie: off/PP1-PP10 (Black Level, Gamma (Movie, Still, Cine1–2, ITU709, ITU709 [800%], S-Log2, S-Log3, HLG, HLG1, HLG2, HLG3), Black Gamma, Knee, Color Mode, Saturation, Color Phase, Color Depth, Detail, Copy, Reset)				
	Flash				
	Flash Mode:Auto/Flash On/Slow Synchro/Rear Sync/Flash Off				
	Flash Type				
	AF Illuminator				
	Bracketing				
	Recording				
	Compatible Recording Media: [XAVC S (100 Mbps)] SDXC/SDHC Memory Card (UHS-I U3 or higher); [XAVC S (60 Mbps/50 Mbps)] SDXC/SDHC Memory Card (Class 10 or higher); [AVCHD/Still image] Memory Stick Duo, Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick Micro10, Memory Stick Micro(Mark2)10, SDXC/SDHC/SD Memory Card (Class 4 or higher), micro SDXC/SDHC/SD Memory Card (Class 4 or higher)1011				
	Recording Format: [Still image] JPEG (DCF Ver. 2.0, Exif Ver. 2.31, MPF baseline compliant), RAW (Sony ARW 2.3 format), [Movie] XAVC S, AVCHD format Ver. 2.0 compatible				
	Recording Format (Movie Audio): XAVC S: LPCM 2ch, AVCHD: Dolby Digital (AC-3) 2ch (Dolby Digital Stereo Creator)				

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Colour Space (Still): sRGB, Adobe® RGB					
DCF/DPOF: DCF/DPOF/EXIF/MPF					
Still Image Number of recorded pixels (Image Size): 3:2 mode: 20 M (5,472 x 3,648) / 10 M (3,888 x 2,592) / 5 M (2,736 x 1,824), 4:3 mode: 18 M (4,864 x 3,648) / 10 M (3,648 x 2,736) / 5 M (2,592 x 1,944) / VGA, 16:9 mode: 17 M (5,472 x 3,080) / 7.5 M (3,648 x 2,056) / 4.2 M (2,720 x 1,528), 1:1 mode: 13 M (3,648 x 3,648) / 6.5 M (2,544 x 2,544) / 3.7 M (1,920 x 1,920), Sweep Panorama: Wide (12,416 x 1,856/5,536 x 2,160), Standard (8,192 x 1,856/3,872 x 2,160)					
Movie Recording Mode (NTSC): NTSC/PAL Selector: [NTSC] AVCHD: 24 M FX (1,920 x 1,080/60i) / 17 M FH(1,920 x 1,080/60i), XAVC S 4K: 30p 100 M (3,840 x 2,160/30p) / 30p 60 M (3,840 x 2,160/30p) / 24p 100 M (3,840 x 2,160/24p) / 24p 60 M (3,840 x 2,160/24p), XAV C S HD: 60p 50 M (1,920 x 1,080/60p) / 60p 25 M (1,920 x 1,080/60p) / 30p 50 M (1,920 x 1,080/30p) / 30p 16 M (1,920 x 1,080/30p) / 24p 50 M (1,920 x 1,080/24p) / 120p 100 M (1,920 x 1,080/120p) / 120p 60 M (1,920 x 1,080/120p)					
Movie Recording Mode (PAL): NTSC/PAL Selector: [PAL] mode AVCHD: 24 M FX (1,920 x 1,080/50i) / 17 M FH (1,920 x 1,080/50i), XAVC S 4K: 25p 100 M (3,840 x 2,160/25p) / 25p 60 M (3,840 x 2,160/25p), XAVC S HD: 50p 50 M (1,920 x 1,080/50p) / 50p 25 M (1,920 x 1,080/50p) / 25p 50 M (1,920 x 1,080/25p) / 25p 16 M (1,920 x 1,080/25p) / 100p 100 M (1,920 x 1,080/100p) / 100p 60 M (1,920 x 1,080/100p)					
HFR: Recording: NTSC/PAL Selector: [PAL] mode XAVC S HD: 50p 50 M (1,920 x 1,080/250fps), 50p 50 M (1,920 x 1,080/500fps), 50p 50 M (1,920 x 1,080/1,000fps) / 25p 50 M (1,920 x 1,080/250fps), 25p 50 M (1,920 x 1,080/500fps), 25p 50 M (1,920 x 1,080/1,000fps), NTSC/PAL Selector: [NTSC] mode XAVC S HD: 60p 50 M (1,920 x 1,080/240fps), 60p 50 M (1,920 x 1,080/480fps), 60p 50 M (1,920 x 1,080/960fps) / 30p 50 M (1,920 x 1,080/240fps), 30p 50 M (1,920 x 1,080/480fps), 30p 50 M (1,920 x 1,080/960fps) / 24p 50 M (1,920 x 1,080/240fps), 24p 50 M (1,920 x 1,080/480fps), 24p 50 M (1,920 x 1,080/960fps) Sensor Readout Number of effective pixels: Quality Priority: 240fps/250fps (1,824 x 1,026), 480fps/500fps (1,824 x 616), 960fps/1,000fps (1,244 x 420)/ Shoot Time Priority:					

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240fps/250fps (1,824 x 616), 480fps/500fps (1,292 x 436), 960fps/1,000fps (912 x 308)					
Still Image Number of recorded pixels (Image Size) during Movie: 16:9 mode: 17M (5,472 × 3,080) / 7.5M (3,648 × 2,056) / 4.2M (2,720 × 1,528)					
Proxy Recording: Yes (1,280 x 720 (approx. 9 Mbps))					
Interface					
*Input and Output Terminals: Multi/Micro USB Terminal*15, High-Speed USB (USB2.0), micro HDMI, microphone jack (3.5 mm stereo mini jack), Multi Interface Shoe*					
NFC					
WI-FI: Yes (IEEE802.11b/g/n (2.4GHz band))					
Interfaces					
Bluetooth®: Yes (Bluetooth Standard Ver. 4.1 (2.4 GHz band))					
Power					
Power source: DC 3.6 V (supplied battery)					
Battery System: Rechargeable battery pack NP-BX1					
Power Consumption (Camera Mode): Approx. 2.1 W with LCD monitor (CIPA standard)					
USB Charge/USB Power Supply: Yes (Shooting, Playback)					
BATTERY LIFE(STILL IMAGES)(CIPA): Monitor: approx. 260/approx. 130 min., Monitor (When Auto Monitor off is set to 2 s): approx. 410/approx. 205 min.12					
BATTERY LIFE(MOVIES ACTUAL SHOOTING)(CIPA) : Monitor: approx. 45 min.131415					
BATTERY LIFE(MOVIES CONTINUOUS SHOOTING)(CIPA): Monitor: approx. 75 min.1314					
Others					
PlayMemories Camera Apps					
Shooting Functions: Product Showcase Set, Background Defocus, Face Detection, Face Registration, Still Image Recording (during movie recording), Smile shutter, Grid Line, Digital Level Gauge (pitch and roll), WB Bracket, DRO Bracketing, MF Assist, Peaking (Display: Off/On) (Level: High/Mid/Low) (Color: Red/Yellow/Blue/White), Zebra, Marker Display, Audio Rec Level, Audio Level Display, Self-portrait timer, TC/UB, PC Remote Control, Gamma Disp. Assist, [Mov] AF Tracking Sensitivity, [Mov] AF Drive Speed, Set File Name, Touch Shutter/Touch Focus/Touch Tracking, My Menu, Soft Skin Effect					

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	Playback Functions: BRAVIA Sync (Control for HDMI), 9/25-frame index view, Auto Orientation, Slideshow, Forward/Rewind (Movie), Delete, Protect, Motion Shot Video, Beauty Effect, Photo Capture, Rating, Automatic Image Rotation				
	TRILUMINOS Color: Yes16				
	4K image output: Yes				
	Operating Temperature: 0 degrees C. - +40 degrees C. / 32 degrees F. - 104 degrees F.				
	Print				
	Print: Exif Print, PRINT Image Matching (PIM3)				
	Size & Weight				
	DIMENSIONS (W X H X D) (APPROX.): 105.5 x 60.0 x 43.5 mm (4-1/4 in x 2-3/8 in x 1-3/4 in)				
	WEIGHT (CIPA COMPLIANT): Approx. 294 g (10.4 oz) (battery and memory card are included) / Approx. 267 g (9.5 oz) (body only)				
92	**Canon CL-57 Colored Original Ink Cartridge**	pc	8	1,100.00	8,800.00
93	**Canon PG-47 Black Original Ink Cartridge**	pc	10	700.00	7,000.00
94	**CPU (Central Processing Unit)**	unit	2	15,000.00	30,000.00
	◉*AMD A10-8770 Processor or higher*				
	◉*Motherboard compatible with the processor*				
	◉*Kingston 4GB DDR4-2666 Memory*				
	◉*CPU Casing w/ PSU*				
	◉*256GB SSD*				
95	**Desktop Computer (i3, 11th Gen) Assembled**	set	2	40,000.00	80,000.00
	◉*Processor: Intel Core i3-11300 (4 cores /8 threads) or higher*				
	◉*Motherboard: Intel H510M Ultra Durable motherboard, Gaming LAN, Anti-Sulfur Resistor, LGA-1200*				
	◉*8GB DDR4 2933 DIMM Desktop Memory or higher*				
	◉*SSD: 240GB NVMe or higher*				
	◉*Keyboard and Mouse Combo*				
	◉*Casing with Power Supply*				
	◉*Monitor: 18.5 inch, HD Ready (1366 X 768), TN Panel Connectivity Port: 1 VGA Port, 1 HDMI Port / Aspect Ratio: 16:9, Brightness (Typical): 200 cd/m2 / Refresh Rate: 60 Hz,*				
	◉*Operating System: Genuine Windows 10 Home (OEM)*				
	◉*AVR: 500W IC controlled*				
96	**Ink Cartridge, HP704, black**	pc	8	595.00	4,760.00
97	**Laptop 13.3 inches**	pcs	2	80,000.00	160,000.00
	Operating System: Windows 10 Home, 64-bit				
	Processor: Intel® Core i7-1165G7 Processor (12MB Cache, up to 4.7 GHz) or higher				

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	GPU: NVIDIA® GeForce® MX350 with 2GB GDDR5 graphics memory				
	Display: 13.3-inch FHD (1920 x 1080) Anti-Glare Non-Touch Narrow Border 300nits 95% sRGB WVA				
	Memory: 8GB, onboard, LPDDR4x, 4267MHz				
	Storage: 512GB M.2 PCIe NVMe SSD				
	I/O Ports: 2 USB 3.2 Gen 1 (Type-A), 1 USB 3.2 Gen 1 (Type-C) with DisplayPort 1.2, 1 HDMI 1.4, 1 DC-in port, 1 audio port				
	Keyboard & Touchpad: English International Backlit Keyboard - Silver				
	Camera: HD camera with dual-array microphones				
	Audio: SonicMaster, Built-in speaker, Built-in array microphone, with Cortana voice-recognition support				
	Network and Communication: 802.11ac 2x2 WiFi and Bluetooth				
	Battery: 42WHrs, 3S1P, 3-cell Li-ion				
	Power Supply: ø4.5, 65W AC Adapter, Output: 19V DC, 3.42A, 65W, Input: 100~240V AC 50/60Hz universal				
	Weight: 1.15kg				
	Dimensions(W x D x H): 305.96 mm (12.05") x 203.40 mm (8.01") x 15.85 mm (0.62")				
	Battery: 3-Cell Battery, 40WHr (integrated)				
98	**Mobile Phone (Android)**	unit	6	22,000.00	132,000.00
	Build: Glass front (Gorilla Glass Victus), plastic back, aluminum frame				
	Internal Storage: atleast 128GB 8GB RAM				
	Screen Resolution: 1080 x 2400 pixels, 20:9 ratio (~421 ppi density)				
	Display Size: 6.2 inches, 94.1 cm2 (~87.2% screen-to-body ratio)				
	Display Type: Dynamic AMOLED 2X, 120Hz, HDR10+, 1300 nits (peak), Always-on display				
	Protection: Corning Gorilla Glass Victus				
	Operating System: Android 11, One UI 3.1				
	Chipset: Exynos 2100 (5 nm) - International				
	CPU: Octa-core (1x2.9 GHz Cortex-X1 & 3x2.80 GHz Cortex-A78 & 4x2.2 GHz Cortex-A55) - International				
	GPU: Mali-G78 MP14 - International				
	Battery Capacity: Li-Ion 4000 mAh non-removable battery with Fast Charging 25W, USB Power Delivery 3.0, Fast Qi/PMA Wireless Charging 15W, Reverse Wireless Charging 4.5W				
	add specs-delete				

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99	**Switch Hub Metal, 24 Port Gigabit 10/100/1000Mbps**	unit	1	9,000.00	9,000.00
	Port: 24				
	19-inch Rackmount				
	24 10/100/1000Mbps RJ45 ports				
	Innovative energy-efficient technology saves power consumption				
	Supports MAC address self-learning and auto MDI/MDIX				
	Standard 19-inch rack-mountable steel case				
	24 10/100/1000M RJ45 ports				
	Supports MAC address self-learning and auto MDI/MDIX				
	Standard 19-inch rack-mountable steel case				
	All ports support Full/half duplex transfer mode for 10Mbps/100Mbps and Full duplex transfer mode for 1000Mbps				
	Supports IEEE 802.3X flow control for full-duplex mode and back pressure flow control for half-duplex mode				
	Package Contents: 24-Port Gigabit Rackmount, SwitchPower Cord, Installation Guide, Rackmount Kits, Rubber Feet				
100	**Wireless Access Point**	unit	2	9,900.00	19,800.00
	◉*Networking Interface (1) 10/100/1000 Ethernet Port*				
	◉*Buttons Reset*				
	◉*Power Method 802.3af PoE*				
	◉*Power Supply UniFi Switch (PoE)*				
	◉*Power Save Supported*				
	◉*Beamforming Supported*				
	◉*Maximum Power Consumption 10.5W*				
	◉*Supported Voltage Range 44 to 57VDC*				
	◉*TX Power*				
	◉*2.4 GHz*				
	◉*5 GHz*				
	◉*23 dBm*				
	◉*26 dBm*				
	◉*MIMO*				
	◉*2.4 GHz*				
	◉*5 GHz*				
	◉*2x2*				
	◉*4x4*				
	◉*Radio Rates*				
	◉*2.4 GHz*				
	◉*5 GHz*				
	◉*300 Mbps*				
	◉*1733 Mbps*				

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	◉Antennas				
	◉2.4 GHz				
	◉5 GHz				
	◉(2) Single-Port, Single-Polarity Antennas, 2.8 dBi each				
	◉(2) Single-Port, Dual-Polarity Antennas, 3 dBi each				
	◉Wi-Fi Standards 802.11 a/b/g/n/r/k/v/ac/ac-wave2				
	◉Wireless Security WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES), 802.11w/PMF				
	◉BSSID 8 per Radio				
	◉Mounting Wall/Ceiling (Kits Included)				
	◉Operating Temperature -10 to 70° C (14 to 158° F)				
	◉Operating Humidity 5 to 95% Noncondensing				
	◉Certifications CE, FCC, IC				
	◉Advanced Traffic Management				
	◉VLAN 802.1Q				
	◉Advanced QoS Per-User Rate Limiting				
	◉Guest Traffic Isolation Supported				
	◉WMM Voice, Video, Best Effort, and Background				
	◉Concurrent Clients 200+				
	◉Supported Data Rates (Mbps)				
	◉Standard Data Rates				
	◉802.11a 6, 9, 12, 18, 24, 36, 48, 54 Mbps				
	◉802.11n 6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40)				
	◉802.11ac 6.5 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80)				
	◉58 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2, VHT 160)				
	◉802.11b 1, 2, 5.5, 11 Mbps				
	◉802.11g 6, 9, 12, 18, 24, 36, 48, 54 Mbps				
	◉Should be compatible with existing UniFi Controller				
101	**Laptop 14" (i5)**	unit	1	49,500.00	49,500.00
	◉Processor: Intel Core i5-1035G1 Processor 1.0 GHz 6M Cache, up to 3.60 GHz or higher				
	◉Operating system: Windows 10 Home				
	◉Memory: 4GB memory, 1 x SO-DIMM socket (for expansion) or higher				
	◉Display: 14.0" (16:9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45% NTSC				
	◉Video Processor: NVIDIA GeForce MX330 , with 2GB GDDR5 VRAM or higher				

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	◉*Storage: 512GB PCIe Gen3 x2 SSD*				
102	**Wireless Interactive Whiteboard System Set**	set	1	105,000.00	105,000.00
	Wireless interactive whiteboard system transforms most any flat surface – including walls and soft projector screens – into an interactive whiteboard for learning and presentations.				
	The the convenience of wireless operation, with no Wi-Fi required, offers a dynamic new level of multimedia interaction for lessons and presentations.				
	Features:				
	Turn your existing whiteboard/projection screen/most any flat surface into an interactive whiteboard.				
	Multi-pen supported! Up to two users can work simultaneously on the projected whiteboard surface.				
	Wireless and no WiFi required. No wired connection needed between Sensor Cam and computer. Interactive Pen works on similar technology as a wireless mouse				
	Works with all projector types, whether it's a standard projector, a portable projector, or a short-throw/ultra short-throw projector.				
	Easy setup and calibration.				
	Control your computer remotely; use the Interactive Pen as a computer cursor.				
	Lightweight and portable for teacher or classroom changes.				
	Inclusions/Specifications:				
	1) Sensor Cam				
	Effective Board Area: Up to 100"				
	Effective Distance (to Board): Up to 20 ft (600cm)				
	Power Supply: DC Adapter (Input Rating 5V/2A)				
	Dimensions L x W x H (folded): 3.78" x 1.73" x 0.85" (96 x 44 x 21.5 mm)				
	Weight: 3.7oz (106g)				
	Operation Temperature: 32~104°F (0~40℃)				
	2) Interactive Pen				
	IR Trigger: Contact Sensitive Tip or Button Press				
	Battery Type: 2 AAA (Alkaline Battery)				
	Dimensions L x W x H (with Wireless Receiver): 8.54" x 0.79" x 0.91" (217 x 20 x 23 mm)				
	Weight (with batteries): 2.5oz (70g)				
	Operation Temperature: 32~104°F (0~40℃)				
	3) Wireless Receiver				

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	Wireless Receiver is powered by USB connection (Input Rating 5V/0.5A)				
	Operation Temperature: 32~104°F (0~40℃)				
	4) Home Theater Projector				
	4K UHD 3200 Lumens 240Hz 4.2ms				
	with HDR, Auto Keystone, Dual HDMI				
	True 4K UHD Resolution on a screen up to 300 inches				
	With over 3200 ANSI lumens of brightness and a high contrast ratio				
	with 4.2ms low input lag and a magnificent 240Hz refresh rate				
	With a 1.1x optical zoom, anti-warping stabilization and automatic vertical and horizontal keystoning				
	Reduce power consumption and extend lamp life with SuperEco mode and enjoy up to 20,000 hours of brightness. With an average viewing time of 5 hours a day, that adds up to over 10 years				
	With future-proof connectivity options such as Dual HDMI, powered USB-A and more				
	INCLUDED IN THE BOX:1 unit 4K Projector, Power Cable, and Remote Control				
	Rebidding (from VSU-GOODS-23-04)				
103	**Arduino Starter pack and sensors**	lot	1	90,000.00	90,000.00
	9 units of Arduino Starter Pack which Includes:				
	• Arduino Projects Book (170 pages) x1				
	• Arduino UNO board rev.3 x1				
	• USB cable x1				
	• Breadboard x1				
	• Easy-to-assemble wooden base x1				
	• 9v battery snap x1				
	• Solid core jumper wires x1				
	• Stranded jumper wires x2				
	• Photoresistor [VT90N2 LDR] x6				
	• Potentiometer 10kilohm x3				
	• Pushbuttons x10				
	• Temperature sensor [TMP36] x1				
	• Tilt sensor x1				
	• alphanumeric LCD (16x2 characters) x1				
	• LED (bright white) x1				
	• LED (RGB) x1				
	• LEDs (red) x8				
	• LEDs (green) x8				
	• LEDs (yellow) x8				
	• LEDs (blue) x3				

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	• Small DC motor 6/9V x1			
	• Small servo motor x1			
	• Piezo capsule [PKM17EPP-4001-B0] x1			
	• H-bridge motor driver [L293D] x1			
	• Optocouplers [4N35] x2			
	• Transistor [BC547] x5			
	• Mosfet transistors [IRF520] x2			
	• Capacitors 100nF x5			
	• Capacitors 100uF x3			
	• Capacitor 100pF x5			
	• Diodes [1N4007] x5			
	• Transparent gels (red, green, blue) x3			
	• Male pins strip (40x1) x1			
	• Resistors 220 ohm x20			
	• Resistors 560 ohm x5			
	• Resistors 1 kilohm x5			
	• Resistors 4.7 kilohm x5			
	• Resistors 10 kilohm			
	• Resistors 1 megohm x5			
	• Resistors 10 megohm x5			
	9 units of 37 in 1 Sensor Kit For Arduino includes: • KY-001 Temperature sensor module			
	• KY-002 Vibration switch module			
	• KY-003 Hall magnetic sensor module			
	• KY-004 Key switch module			
	• KY-005 Infrared emission sensor module			
	• KY-006 Small passive buzzer module			
	• KY-008 Laser sensor module			
	• KY-009 3-color full-color LED SMD modules			
	• KY-010 Optical broken module			
	• KY-011 2-color LED module			
	• KY-012 Active buzzer module			
	• KY-013 Temperature sensor module			
	• KY-015 Temperature and humidity sensor module			
	• KY-016 3-color LED module			
	• KY-017 Mercury open optical module			
	• KY-018 Photo resistor module			
	• KY-019 5V relay module			
	• KY-020 Tilt switch module			
	• KY-021 Mini magnetic reed modules			
	• KY-022 Infrared sensor receiver module			
	• KY-023 XY-axis joystick module			
	• KY-024 Linear magnetic Hall sensors			
	• KY-025 Reed module			

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	• KY-026 Flame sensor module				
	• KY-027 Magic light cup module				
	• KY-028 Temperature sensor module				
	• KY-029 Yin Yi 2-color LED module 3MM				
	• KY-031 Knock Sensor module				
	• KY-032 Obstacle avoidance sensor module				
	• KY-033 Hunt sensor module				
	• KY-034 Automatic flashing colorful LED module				
	• KY-035 Class Bihor magnetic sensor				
	• KY-036 Metal touch sensor module				
	• KY-037 Sensitive microphone sensor module				
	• KY-038 Microphone sound sensor module				
	• KY-039 Detect the heartbeat module				
	• KY-040 Rotary encoder module				
	Rebidding (from VSU-GOODS-23-12)				
104	**85" 4K Interactive Touchscreen LED Display**	unit	1	300,000.00	300,000.00
	◎4K UHD 3840 x 2160 LED Panel				
	◎2 x HDMI, 4 x USB (3 x Front)				
	◎2048 Pressure Points & 26 ms Latency				
	◎20-Person Multi-Touch				
	◎Adjustable Pen & Brush Modes				
	◎Front Control Panel & Device Inputs				
	◎Video call compatible with WebRTC (Real Time Communication API)				
	◎Airplay 2 integration				
	◎SmartView+ for simultaneous wireless display of multiple devices				
	Rebidding (from VSU-GOODS-23-13)				
105	**Desktop System Unit Only Intel (Gen i5), Assembled**	unit	3	26,500.00	79,500.00
	◎Processor: Intel Core i5-10400F Processor 2.90 GHz 12M Cache, up to 4.30 GHz or higher				
	◎Motherboard: mATX Motherboard for LGA1200 Intel 10th Gen Processors, with Intel 410 Chipset and ultra-durable components or higher				
	◎Graphics: NVIDIA GeForce GTX 1650 SUPER, 4GB GDDR5 or higher				
	◎Memory: 8GB, 1 x 8 GB, DDR4, 2666 MHz or higher				
	◎Storage: 256GB SSD + 1TB SATA or higher				
	◎Operating System: Genuine Windows 10				
106	**Flash Drive, USB 3.0 with OTG**	pcs	11	1,500.00	16,500.00
	◎Capacity: 256GB				
	◎Interface: USB 3.1 Gen 1				
	◎Connector: USB 3.1 Type-C				
	◎Sequential Read Performance: Up to 150MB/s				
	◎All metal 2-in-1 flash drive				

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107	**Photography Light Soft Box Kit With Adjustable Tripod Stand**	pcs	1	1,000.00	1,000.00
	◉*Opening size is 50cm * 70cm, with silver reflector inside and comes with front translucent cover.*				
	◉*High Quality Reflector Material.*				
	◉*Total Power: 45W*				
	◉*Color Temperature: 5500K*				
	◉*Bulb Voltage: 230V*				
	◉*Switch: On/Off*				
	◉*With 2.1M Adjustable Tripod Stand*				
108	**SFP SC Transceiver Module 1.25G BIDI 20KM 1310/1550 (PAIR)**	pairs	3	900.00	2,700.00
109	**Speaker, for PC, 2.1 (Speaker with Subwoofer)**	pc	4	1,500.00	6,000.00
	◉*Power Output : rms 4.5w×2 sw: 12w*				
	◉*Signal to noise ratio : 80dba*				
	◉*Frequency Response : 80hz~20khz (±6db)*				
	◉*R/l: 300±50mv sw: 100 ± 20mv*				
	◉*Aux/USB/SD card*				
	◉*Bass driver :4 inch*				
	◉*Treble driver :2 3/4 inch*				
110	**Ubiquiti Unifi 8 Port PoE+150W SFP Switch**	pc	2	12,000.00	24,000.00
	◉*Switching Capacity: 20Gbps*				
	◉*Forwarding Rate: 14.48Mbps*				
	◉*Power Method: 100-240VAC/50-60Hz, Universal Input*				
	◉*Power Supply: AC/DC, Internal, 150 W DC*				
	◉*LED Per Port: RJ45 Data Ports: PoE*				
	◉*Compatible with existing fleet*				
111	**Universal HDMI to VGA Adapter Cable, at least 1.8 meters**	unit	4	300.00	1,200.00
	◉*Universal HDMI to VGA Adapter Cable*				
112	**UPS, 1200 VA, with Multifunction LCD status and control console**	unit	1	11,500.00	11,500.00
	◉*Max Configurable Power (Watts): 720 Watts / 1.2kVA*				
	◉*Output Frequency (sync to mains): 50/60 Hz +/- 1 Hz Unsynchronised, 50/60 Hz +/- 3 Hz Sync to mains*				
	◉*Topology: Line interactive*				
	◉*Waveform type: Stepped approximation to a sinewave*				
	◉*Transfer Time: 10 ms typical - 12 ms maximum*				
	◉*Input frequency: 50/60 Hz +/- 3 Hz Auto-sensing*				
	◉*Input voltage range for main operations: 156 - 300 Adjustable, 176 - 294V*				
	◉*Battery type: Lead-acid battery*				

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	◉Typical recharge time: 8hour(s)				
	◉Expected Battery Life (years): 3 - 5				
	◉Battery Charge Power (Watts): 23 Watts				
	◉Interface Port(s): Optional Simple Signalling RS232 cable, USB				
	◉Control panel: Multifunction LCD status and control console				
	◉Surge energy rating: 441Joules				
	◉Data Line Protection: RJ11 modem/fax/DSL protection (two wire single line), RJ45 10/100 Base-T Ethernet protection				
	◉Approvals: GOST				
	◉RoHS: Compliant				
113	**UPS, Smart UPS, 2000VA**	pc	1	35,000.00	35,000.00
	◉Max Configurable Power (Watts): 1.6kWatts / 2.0kVA				
	◉Output Voltage Note: Configurable for 220 : 230 or 240 nominal output voltage				
	◉Efficiency at Full Load: 88.0 %				
	◉Output Frequency (sync to mains): 50/60 Hz +/- 3 Hz Sync to mains				
	◉Other Output Voltages: 220 V, 240 V\				
	◉Load Crest Factor: 3 : 1				
	◉Topology: Double conversion online				
	◉Input frequency: 40 - 70 Hz				
	◉Input voltage range for main operations: 110 - 285 Adjustable (half load), 160 - 280V				
	◉Number of Power Cords: 1				
	◉Efficiency at Full Load: 88.0 %				
	◉Other Input Voltages: 220 V, 240 V				
	◉Waveform type: Sine wave				
	◉Bypass: Internal bypass (automatic and manual)				
	◉Battery type: Lead-acid battery				
	◉Typical recharge time: 4hour(s)				
	◉Battery Charge Power (Watts): 76 Watts				
	◉Interface Port(s): DB-9 RS-232, USB				
	◉Control panel: Multifunction LCD status and control console				
	◉Audible Alarm: Alarm when on battery : distinctive low battery alarm : overload continuous tone alarm				
	◉Surge energy rating: 600Joules				
114	**Webcam, High Definition with Noise Cancelling Mics**	pc	1	5,000.00	5,000.00
	◉Max Resolution: 1080p/30 fps - 720p/ 60 fps				
	◉Camera mega pixel: 3				
	◉Focus type: Autofocus				
	◉Lens type: Glass				
	◉Built-in mic: Stereo				

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	◉Mic range: Up to 3 ft (1 m)				
	◉Diagonal field of view (dFoV): 78°				
	◉Digital zoom: 1.2x				
	◉Tripod-ready universal mounting clip fits laptops, LCD or monitors				
	◉Auto Light Correction: RightLight 2				
	◉Noise Cancelling Mic(s): 2 omni-directional mics				
	◉Connection: USB-A plug-and-play				
115	**Wireless Optical Mouse**	pcs	6	1,000.00	6,000.00
	◉Adjustable 500/1000 DPI high-definition tracking engine				
	◉Reliable 2.4GHz wireless connection, perfect for anti-jamming				
	◉Supports 4D scroll wheel and optical buttons No installation software or drivers required: plug and play				
	◉Powered by AA alkaline batteries, you can use this mouse with only one battery				
116	**CPU (Central Processing Unit), Assembled**	unit	1	15,000.00	15,000.00
	◉AMD A10-8770 Processor				
	◉Motherboard compatible with the processor				
	◉Kingston 4GB DDR4-2666 Memory				
	◉CPU Casing w/ PSU				
	◉256GB SSD				
117	**Laptop 14", 2-in-1 Convertible, Intel Core i7 12th Gen**	unit	2	77,000.00	154,000.00
	◉Type: 2-in-1 convertible (360 degree hinge)				
	◉Processor:12th Generation Intel® Core™ i7-1260P Processor or higher				
	◉Operating System: Windows 11 Home 64				
	◉Memory: 16 GB LPDDR5 4800MHz Dual Channel or higher				
	◉Storage: 512 GB SSD M.2 2280 PCIe Gen4 TLC or higher				
	◉Display Type: 14" 2.8K (2880 x 1800), IPS, Anti-Glare, Touch, 100%s RGB, 400 Nits, 90Hz, Narrow Bezel				
	◉Graphics: Intel® Iris®Xe graphics or higher				
	◉AC Adapter: 65W AC Adapter Wall Mount (USB Type C)				
	◉Camera: 1920 x 1080 FHD IR				
	◉Wireless:Wifi 11AX (2x2) & Bluetooth® 5.0				
	◉Keyboard: Backlit - English				
	◉Battery: 4 Cell, 61Wh				
118	**Antivirus Software 3 Device, 1+1 Year License include VPN (enrolled auto-renewal)**	pc	1	2,000.00	2,000.00
	◉Antivirus Software keeps your PC/Laptop/Mobile device safe from Trojans, viruses, spyware, rootkits, and more, with state-of-the-art anti-malware protection				

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	◙Detects, quarantines, and blocks viruses and malware to prevent damage to your PC/Laptop				
	◙Keep zero-day threats and botnets at bay - McAfee Active Protection and Global Threat Intelligence technology have you covered				
	◙Block inappropriate sites				
	◙Two-Way Firewall system monitors and stops traffic in and out of your PC				
	◙Keep sensitive files private by storing them on your PC with 128-bit encryption				
	◙Eliminate the hassle of passwords with the password manager app				
				TOTAL:	6,509,459.42

DILBERTO O. FERRAREN
BAC Chairman