

# BID BULLETIN 01

**Date:** October 31, 2023

Project Title: Supply and Delivery of IT Equipment and Supplies (VSU-GOODS-23-46)

Location: VSU Main, Visca, Baybay City, Leyte

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

## I. LIST OF REQUIREMENTS

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 <b>3,431,177.00</b> )
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 3,431,177.00 and the largest of which should be at least PhP <b>1,715,588.50</b> .
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 6,862,35400)
	Or
	Committed Line of Credit (at least Php 686,235.40)
(2 <sup>nd</sup> Envelope) FINANC	AL 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:

1. In the **Technical Specifications**, bidders must state either "Comply" or "Not Comply" <u>against</u> <u>each of the individual parameters of the specifications</u> 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:

Docur	nent	Filename (in PDF form)
1. (Platin	PhilGEPS Certificate of Registration um)	PhilGEPS
2. & Priva	Statement of On-Going Government ate Contracts	Statement of On-Going Contracts
3. Compl	Statement of Bidder's Single Largest eted Contract	SLCC
4. comple	Statement of at least two (2) similar eted contracts	Statement of Completed Contracts
5.	Bid Security	Bid Security
6.	Technical Specifications	Technical Specifications
7. 8.	SCHEDULE of Requirements/ 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



- 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 Mr. Leopoldo S. Escala Jr at <u>leopoldo.escala@vsu.edu.ph</u> on or before the deadline.

## III. Changes in the Bidding Documents

Original	
Section I. Invitation to Bid	(Amendment)
5. A complete set of Bidding Documents may be acquired by interested Bidders on n 19 October – 09 November 2023 until 8:30 AM 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.	A complete set of Bidding Documents may be acquired by interested Bidders on <i>19 October – 09</i> <i>November 2023 until 8:30 AM</i> 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: <u>3572-1000-13</u> Then send the deposit slip to <u>leopoldo.escala@vsu.edu.ph</u>
Section II. Instructions to Bidders	(Additional Instructions)
15. Sealing and Marking of Bids	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 <b>Orange</b> envelopes for its Technical and Financial Component envelopes, including the Mother (outer) Envelope.



## 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

ltem #	Description	Unit	Qty	Unit Price	Total Price
1	1TB, Hard disk Drive, 7200rpm, for desktop	рс	2	3,000.00	6,000.00
	■1TB				
	SATA 6Gb/s interface optimizes burst performance;				
	■64MB Cache				
	Average Data Rate, Read/Write : 156				
	Max Sustained Data Rate, OD Read (MB/s) : 210				
	■Cache, Multisegmented (MB) : 64				
2	3D Printer Filament (ABS	рс	1	2,000.00	2,000.00
	Mass: 1 KG (approximately 2.20 lbs) Spool				
	Filament Diameter: 1.75mm (Dimensional Accuracy +/-				
	0.03m				
	■Extrusion/Nozzle Temperature: 210°C - 240°C (410°F -				
	464°F)				
	Spool Diameter: 7.88"				
	Spool Width: 2.69"				
	■Spool Hub Hole Diameter: 2.20"				
	Color: Black				
	Material Type: ABS				
3	3D Printer Filament (TPU)	set	1	1,500.00	1,500.00
	Color: black				
	Item Diameter: 1.75 millimeters				
	Item weight: not less than 15.7 ounces				
	Material: Rep-Flex-Tpu- Vacuumed Sealed With				
	Desiccant				
	Outside Diameter: 1.75 millimeters (+/- 0.05mm)				
	Recommended Extrusion/Nozzle Temp: 195 - 230				
	degree celsuis				
	Recommended Platform Temperature: 40 - 60 degree				
	celsuis Packing List: TPU Flexible Filament 1.75mm				
	250g(vacuum sealed)				
4	3D Printer PLA filament	nc	1	2,000.00	2,000.00
-	■Recommended Extrusion/Nozzle Temp: 90°C - 220°C	рс		2,000.00	2,000.00
	(374 °F~ 428 °F)				
	■Heated Bed Temp: 25°C - 60°C (77°F~ 140°F)				
	Filaments Diameter and Accuracy: 1.75 mm +/- 0.05				
	Filaments Net Weight: 1 kg (2.2 lbs) / Spool	1			
	■Build Surface: 200 mm x 200 mm (7.88" x 7.88")	1			
	■ Type of filament: PLA				
5	Android Smartphone	unit	1	7,000.00	7,000.00
~	Specification:			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,000.00
	-Chipset: Mediatek Helio G80 (12 nm)	1			
	-Operating system: Android 10	1			
	-ROM: at least 32 GB				



	—RAM: at least 3GB				
	-Screen Type: IPS LCD, at least 400 nits				
	-Camera Front : at least 8 MP				
	—Primary(Back) Camera Resolution at least 13MP				
	-Resolution: at least 1080 x 2340 pixels				
	-SIM: Dual SIM (Nano-SIM, dual stand-by)				
	Apple USB-C Digital AV Multiport Adapter Compatible				
6	with Mac and iPad	unit	1	4,000.00	4,000.00
	Connections: HDMI, USB, USB-C				
	Compatible iPad Models: iPad Pro 12.9-inch				
	(5th generation), iPad Pro 12.9-inch (4th generation), iPad				
	Pro 12.9-inch				
	Compatible Mac Models: MacBook Air (M2, 2022),				
	MacBook Air (M1, 2020), MacBook Air (M2, 2022),				
	2020), MacBook Air (Retina, 13-inch, 2018 - 2019),				
	MacBook Pro (13-inch, M2, 2022), MacBook Pro (13-				
	inch, M1, 2020)				
	Genuine Apple Accessory				
7	Camera with 28-70 mm Zoom Lens	unit	1	132,000.00	122 000 00
1		unit	1	132,000.00	132,000.00
	Product Specification:				
	Lens				
	Lens Mount: E-mount				
	Image Sensor				
	Aspect Ratio: 3:2				
	Number Of Pixels (Effective): Approx. 24.2 megapixels				
	Number of Pixels (total): Approx. 25.3 megapixels				
	Sensor Type: 35 mm full frame (35.6 x 23.8 mm), Exmor R				
	CMOS sensor				
	Anti-Dust System: Charge protection coating on optical				
	filter and image sensor shift mechanism				
	Recording (still images)				
	Image Size (pixels) [16:9]: 35 mm full frame L: 6000 x 3376				
	(20 M), M: 3936 x 2216 (8.7 M), S: 3008 x 1688 (5.1 M),				
	APS-C L: 3936 x 2216 (8.7 M), M: 3008 x 1688 (5.1 M), S:				
	1968 x 1112 (2.2 M)				
	Image Size (pixels) [Sweep Panorama]				
	Picture Effect: 8 types: Posterization (Color), Posterization				
	(B/W), Pop Color, Retro Photo, Partial Color (R/G/B/Y),				
	High Contrast Monochrome, Toy Camera				
	(Normal/Cool/Warm/Green/Magenta), Soft High-key, Rich-				
	tone Monochrome				
	Creative Style: Standard, Vivid, Neutral, Clear, Deep, Light,				
	Portrait, Landscape, Sunset, Night Scene, Autumn leaves,				
	Black & White, Sepia, Style Box (1–6), (Contrast [-3 to +3				
	steps], Saturation [-3 to +3 steps], Sharpness [-3 to +3				
	steps])				
	Picture Profile: Yes (Off/PP1-PP10) Parameters: Black				
	level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709				
	[800%], S-Log2, S-Log3, HLG, HLG1-3), Black Gamma,				
	Knee, Color Mode, Saturation, Color Phase, Color Depth,				
	Detail, Copy, Reset				
	Dynamic Range Functions: Off, Dynamic Range Optimizer				
	(Auto/Level (1-5)), Auto High Dynamic Range (Auto				



 Exposure Difference, Exposure Difference Level (1-6 EV, 1.0 EV step))		
Color Space: sRGB standard (with sYCC gamut) and Adobe RGB standard, compatible with TRILUMINOS Color		
14bit RAW: Yes		
 Uncompressed RAW: Yes		
 Recording (movie)		
 Recording Format: XAVC S, AVCHD format Ver. 2.0		
compliant		
 Color Space: xvYCC standard (x.v.Color when connected		
via HDMI cable) compatible with TRILUMINOS Color		
Picture Effect: Posterization (Color), Posterization (B/W),		
Pop Color, Retro Photo, Partial Color (R/G/B/Y), High		
Contrast Monochrome, Toy Camera		
(Normal/Cool/Warm/Green/Magenta), Soft High-key		
Creative Style: Standard, Vivid, Neutral, Clear, Deep, Light,		
Portrait, Landscape, Sunset, Night Scene, Autumn leaves,		
Black & White, Sepia, Style Box (1–6), (Contrast [-3 to +3		
steps], Saturation [-3 to +3 steps], Sharpness [-3 to +3		
steps])		
 Picture Profile: Yes (Off/PP1-PP10) Parameters: Black		
level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709		
[800%], S-Log2, S-Log3, HLG, HLG1-3), Black Gamma,		
Knee, Color Mode, Saturation, Color Phase, Color Depth,		
Detail, Copy, Reset		
Image Size (pixels), NTSC: XAVC S 4K: 3840 x 2160 (30p,		
100 M), 3840 x 2160 (24p, 100 M), 3840 x 2160 (30p, 60		
M), 3840 x 2160 (24p, 60 M), XAVC S HD: 1920 x 1080		
(120p, 100 M), 1920 x 1080 (120p, 60 M), 1920 x 1080		
(60p, 50 M), 1920 x 1080 (30p, 50 M), 1920 x 1080 (24p,		
50 M), 1920 x 1080 (60p, 25 M), 1920 x 1080 (30p, 16 M),		
AVCHD: 1920 x 1080 (60i, 24 M, FX), 1920 x 1080 (60i, 17		
 M, FH)		
Image Size (pixels), PAL: XAVC S 4K: 3840 x 2160 (25p,		
100 M), 3840 x 2160 (25p, 60 M), XAVC S HD: 1920 x		
1080 (100p, 100 M), 1920 x 1080 (100p, 60 M), 1920 x		
1080 (50p, 50 M), 1920 x 1080 (25p, 50 M), AVCHD: 1920		
x 1080 (50i, 24 M, FX), 1920 x 1080 (50i, 17 M, FH)		
Slow and quick motion (shooting frame rate) : NTSC mode:		
1fps, 2fps, 4fps, 8fps, 15fps, 30fps, 60fps, 120fps, PAL		
mode: 1fps, 2fps, 3fps, 6fps, 12fps, 25fps, 50fps, 100fps		
Slow and quick motion (recording frame rate and image		
size) : NTSC mode: 1920x1080 (60p, 30p, 24p), PAL		
 mode: 1920x1080 (50p, 25p)		 
Movie Functions: Audio Level Display, Audio Rec Level,		
PAL/NTSC Selector, Yes (1280 x 720 (Approx.9 Mbps)),		
TC/UB (TC Preset/UB Preset/TC Format/TC Run/TC		
Make/UB Time Rec), Auto Slow Shutter, REC Control,		
Clean HDMI Info. (ON/OFF selectable), Gamma Disp.		
 Assist		 
Clean HDMI output: 3840 x 2160 (25p), 1920 x 1080 (50p),		
1920 x 1080 (50i), 1920 x 1080 (24p), 1920 x 1080 (60p),		
1920 x 1080 (60i), 3840 x 2160 (30p), 3840 x 2160 (24p),		
YCbCr 4:2:2 8-bit / RGB 8-bit		



Recording System		
Location information Link from smartphone: Yes		
Media: Memory Stick PRO Duo, Memory Stick PRO-HG		
Duo, Memory Stick Micro (M2), SD memory Card, SDHC		
memory card (UHS-I/II compliant), SDXC memory card		
(UHS-I/II compliant), microSD memory card, microSDHC		
memory card, microSDXC memory card		
Memory Card Slot: SLOT1: Slot for SD (UHS-I/II compliant)		
memory card, SLOT2: Multi slot for Memory Stick Duo/SD		
(UHS-I compliant) memory card		
Recording mode on 2 memory cards: Simult. Rec (Still),		
Simult. Rec (Movie), Simult. Rec (Still/Movie), Sort		
(JPEG/RAW), Sort (Still/Movie), Auto Switch Media		
(On/Off), Copy		
Noise Reduction		
Noise Reduction: Long exposure NR: On/Off, available at		
shutter speeds longer than 1 sec., High ISO NR:		
Normal/Low/Off		
Multi Frame NR		
White balance		
White Balance Modes: Auto / Daylight / Shade / Cloudy /		
Incandescent / Fluorescent / Warm White / Cool White /		
Day White / Daylight / Flash / Underwater / Color		
Temperature 2500 to 9900K and color filter G7 to M7 (57-		
step), A7 to B7 (29-step) / Custom		
AWB Micro Adjustment: Yes G7 to M7, 57-step A7 to B7,		
29-step		
Priority Set in AWB: Yes		
Bracketing: 3 frames, H/L selectable		
Focus		
Focus Type: Fast Hybrid AF (phase-detection AF/contrast- detection AF)2		
Focus Sensor: Exmor R® CMOS sensor		
Focus Point: 35 mm full frame: 693 points (phase-detection		
AF), APS-C mode with full frame lens: 299 points (phase-		
detection AF), with APS-C lens: 221 points (phase-		
detection AF) / 425 points (contrast-detection AF)		
Focus Sensitivity Range: EV-3 to EV20 (ISO100 equivalent		
with F2.0 lens attached)		
Focus Mode: AF-A (Automatic AF), AF-S (Single-shot AF),		
AF-C (Continuous AF), DMF (Direct Manual Focus),		
Manual Focus		
Focus Area: Wide (693 points (phase-detection AF), 425		
points (contrast-detection AF)) / Zone / Center / Flexible		
Spot (S/M/L) /Expanded Flexible Spot/ Lock-on AF (Wide /		
Zone / Center / Flexible Spot (S/M/L)/Expanded Flexible		
Spot)		
Other Features: Eye-start AF (only with LA-EA2 or LA-EA4		
attached (sold separately)), Lock-on AF, Eye AF, AF micro		
adjustment with LA-EA2 or LA-EA4 (sold separately),		
Predictive control, Focus lock, AF Track Sens, Swt.V/H AF		
Area, AF Area Regist.		
AF Illuminator: Yes (with built-in LED type)	1	



AF Illuminator range: Approx. 0.3–3.0 m (with FE 28–70	
mm F3.5–5.6 OSS attached)	
Focus type with LA-EA3 (Sold separately): selectable	
(phase-detection, contrast-detection)	
Exposure	
Metering Type: 1200-zone evaluative metering	
Viewfinder	
Viewfinder Type: 1.3 cm (0.5 type) electronic viewfinder	
(color), XGA OLED	
Number of Dots: 2,359,296 dots	
Brightness Control (Viewfinder): Auto/Manual (5 steps	
between -2 and +2)	
Color Temperature Control: Manual (5 steps)	
Field Coverage: 100%	
Magnification: approx. 0.78 x (with 50mm lens at infinity, -	
1 <i>m</i> -1)	
Diopter Adjustment: -4.0 to +3.0 m-1	
Eye Point: Approx. 23 mm from the eyepiece lens, 18.5	
mm from the eyepiece frame at -1 m-1 (CIPA standard)	
Finder Frame Rate Selection	
Display Contents: Graphic Display, Display All Info, No	
Display Info, Digital Level Gauge, Histogram	
LCD Screen	
Monitor Type: 7.5 cm (3.0-type) type TFT	
Number of Dots: 921,600 dots	
Touch Panel: Yes	
Brightness Control: Manual (5 steps between -2 and +2),	
Sunny Weather mode	
Adjustable Angle: Up by approx. 107 degrees, Down by	
approx. 41 degrees	
Display Selector (Finder/LCD): Yes (Auto/Manual)	
Real-time Image Adjustment Display (LCD): On/Off	
Quick Navi: Yes	
Focus Magnifier: Yes (35 mm full frame: 5.9x, 11.7x, APS-	
C: 3.8x, 7.7x)	
Zebra: Yes (selectable level + range or lower limit as	
custom setting)	
Peaking MF: Yes (Level setting: High/Mid/Low/Off, Color:	
White/Red/Yellow)	
Others: Grid Line (Rule of 3rds Grid/Square Grid/Diag. +	
Square Grid/Off), Movie Marker (Center/Aspect/Safety	
Zone/Guideframe)	
Display Content: Graphic Display, Display All Info, No Disp.	
Info, Digital Level Gauge, Histogram, For viewfinder,	
Monitor Off	
Other Features	
PlayMemories Camera Apps™	
Clear Image Zoom: Still images: Approx. 2x, Movies:	
Approx. 1.5x (4K), Approx. 2x (HD)	
Digital Zoom: Smart zoom (Still images): 35 mm full frame:	
M: approx 1.5x, S: approx 2x, APS-C: M: approx 1.3x, S:	
approx 2x, Digital zoom (Still images): 35 mm full frame: L:	
approx 4x, M: approx 6.1x, S: approx 8x, APS-C: L: approx	



+ +	1



Continuous Drive Speed (approx. max.): Continuous	
shooting: Hi+: max. 10 fps, Hi: max. 8 fps, Mid: max. 6fps,	
Lo: max. 3 fps 5	
No. of recordable frames (approx.): JPEG Extra fine L: 163	
frames, JPEG Fine L: 172 frames, JPEG Standard L:	
approx. 177 frames, RAW: 89 frames, RAW & JPG: 79	
frames, RAW (Uncompressed): 40 frames, RAW	
(Uncompressed) & JPG: 36 frames 5	
Self-Timer: 10 sec. delay/5 sec. delay/2 sec.	
delay/Continuous self-timer (3 frames after 10 sec. delay/5	
frames after 10 sec. delay/3 frames after 5 sec. delay/5	
frames after 5 sec. delay/3 frames after 2 sec. delay/5	
frames after 2 sec. delay)/Bracketing self-timer	
Playback	
Photo Capture: Yes	
Modes: Single (with or without shooting information Y RGB	
histogram & highlight/shadow warning), 9/25-frame index	
view, Enlarged display mode (L: 18.8x, M: 12.3x, S: 9.4x),	
Auto Review (10/5/2 sec, Off), Image orientation	
(Auto/Manual/Off selectable), Slideshow, Folder selection	
(Date/ Still/ AVCHD/XAVC S HD/XAVC S 4K),	
Forward/Rewind (movie), Delete, Protect, Rating, Disp	
Cont Shoot Grp	
Interface	
PC Interface: Mass-storage, MTP, PC remote	
Multi/micro USB terminal: Yes	
USB Type-C® Terminal: Yes (SuperSpeed USB (USB 3.1	
Gen 1) compatible)	
NFC: Yes (NFC forum Type 3 Tag compatible), One-touch	
remote, One-touch sharing	
Wireless LAN (Built-In): Wi-Fi Compatible, IEEE	
802.11b/g/n (2.4 GHz band), View on Smartphone,	
Remote control via Smartphone, Send to Computer, View	
on TV	
HD Output: HDMI micro connector (Type-D), BRAVIA Sync	
(Control for HDMI), PhotoTV HD, 4K movie output/4K still	
image PB	
Bluetooth®: Yes (Bluetooth Standard Ver. 4.1 (2.4 GHz	
band))	
Auto-lock Accessory Shoe	
Multi Interface Shoe: Yes	
Smart Accessory Terminal 2	
Mic Terminal: Yes (3.5 mm Stereo minijack)	
DC IN Terminal	
Sync Terminal	
Headphone Terminal: Yes (3.5 mm Stereo minijack)	
Vertical Grip Connector: Yes	
PC Remote: Yes	
LAN Terminal	
Print	
Compatible Standards: Exif Print, Print Image Matching III,	
DPOF setting	
Custom function	



4		1			
	Type: Custom key settings, Programmable Setting (Body 2				
	sets /memory card 4 sets), My Menu, Reg Cust Shoot Set				
	Lens Compensation				
	Setting: Peripheral Shading, Chromatic Aberration,				
	Distortion				
	Power				
	Supplied Battery: One rechargeable battery pack NP-				
	FZ100				
	Battery Life (Still Images): Approx. 610 shots (Viewfinder) /				
	approx. 710 shots (LCD monitor) (CIPA standard)8				
	Battery Life (Movie, actual recording): Approx. 115 min				
	(Viewfinder) / Approx. 125 min (LCD monitor) (CIPA				
	standard)910				
	Battery Life (Movie, continuous recording): Approx. 200				
	min (Viewfinder) / Approx. 210 min (LCD monitor) (CIPA				
	standard)911				
	Internal Battery Charge: Yes (Available with Multi/Micro				
	USB Terminal or USB Type-C Terminal)				
	Power consumption with Viewfinder: Still images: approx.				
	3.2 W (with FE 28-70 mm F3.5-5.6 OSS lens attached),				
	Movies: approx. 4.9 W (with FE 28-70 mm F3.5-5.6 OSS				
	lens attached)				
	Power consumption with LCD screen: Still images: approx.				
	2.8 W (with FE 28-70 mm F3.5-5.6 OSS lens attached),				
	Movies: approx. 4.7 W (with FE 28-70 mm F3.5-5.6 OSS				
	lens attached)				
	USB Power Supply: Yes (Available with Multi/Micro USB				
	Terminal or USB Type-C Terminal)				
	Size & Weight				
	Weight (with battery and memory card included): Approx.				
	650 g (1 lb 7.0 oz)				
	Dimensions (W x H x D): Approx. 126.9 mm x 95.6 mm x				
	73.7 mm, Approx. 126.9 mm x 95.6 mm x 62.7 mm (from				
	grip to monitor)/Approx. 5 x 3 7/8 x 3 inches, Approx. 5 x 3				
	7/8 x 2 1/2 inches (from grip to monitor)				
	Audio				
	Microphone: Built-in stereo microphone or XLR-K2M/XLR-				
	K1M/ECM-XYST1M (sold separately)				
	Speaker: Built-in, monaural				
	Others				
	Operating Temperature: 32 - 104 degrees F / 0 - 40				
	degrees C				
8	Compact Document Scanner	unit	2	18,000.00	36,000.00
	25ppm/50ipm, 2-sided colour scan speed				
	20 sheets Automatic Document Feeder (ADF)				
	Portable with micro-B USB3.0 Bus power				
	Dedicated plastic ID card slot				
<u> </u>	Scan to PC and USB host				
<u> </u>	Scanning Speed: 25ppm (A4) 2-sided colour scan speed				
	Document Size - Multiple Papers - Width: 51 mm to 215.9				
	mm				
	Document Size - Multiple Papers - Length: 70 mm to 863				
	mm	L			



			1		
	Document Size - Single Papers - Width: 51 mm to 215.9				
	mm Desurgent Size Sizela Denorge Longthe 70 mm to 002				
	Document Size - Single Papers - Length: 70 mm to 863				
	mm Colour/Black: Yes/Yes				
	Duplex Scan: Yes				
	Color Depth - Input: 48-bit colour processing				
	Color Depth - Output: 24-bit colour processing				
	Resolution - Optical: Max 600 dpi x 600 dpi				
	Resolution - Interpolated: Max 1,200 dpi x 1,200 dpi				
	Scanning Width: Max 216mm				
	Grayscale: 256 levels				
-	Memory Capacity: SDRAM: 256 MB				
	ADF: up to 20 sheets				
	Interface: USB: Hi-Speed USB 2.0, Superspeed USB 3.0				
9	Computer Printer	unit	1	15,000.00	15,000.00
5	Compact integrated tank design	unit	•	13,000.00	10,000.00
	Print speeds up to 10.5ipm for black and 5.0ipm for				
	colour				
	■Auto-duplex printing				
	■Wi-Fi & Wi-Fi Direct				
	Borderless Printing up to A4 size				
	Spill-free ink refilling				
	Warranty of 2 years or 30,000 pages, whichever comes				
	first				
	Printer Type:				
	Printing Technology:				
	Print Method:				
	◄On-demand inkjet (piezoelectric)				
	Minimum Ink Droplet Volume:				
	◄ 3 pl				
	Printer Language:				
	■ESC / P-R				
	Print Direction:				
	<ul> <li>Bi-directional printing, Uni-directional printing</li> </ul>				
	Nozzle Configuration:				
	180 nozzles Black, 59 nozzles per colour (Cyan,				
	Magenta, Yellow)				
	Maximum Resolution:				
	◀5760 x 1440 dpi (with Variable-Sized Droplet)				
	Technology)				
<u> </u>	Automatic 2-sided Printing:				
	Print Speed:				
	■Photo Default - 10 x 15 cm / 4 x 6 " *2:	_			
	◄1Approx. 69 sec per photo (Border) *1				
	▲Approx. 92 sec per photo (Borderless) *1				
	Draft, A4 (Black / Colour):				
<u> </u>	◄ Up to 33 ppm / 15 ppm *1				
	■ISO 24734, A4 Simplex (Black / Colour):				
	◄ Up to 10.5 ipm / 5.0 ipm *1				



■ISO 24734, A4 Duplex (Black / Colour):			
■ Up to 6.0 ipm / 4.0 ipm *1			
	+		
Copy Speed:	+		
Copy Quality:     A Draft ( Standard ( Deat Quality)	+		
Craft / Standard / Best Quality			
Maximum Copies from Standalone:			
■ 99 copies	+		
Reduction / Enlargement:	+		
◄ 25 - 400%, Auto Fit Function	+		
Maximum Copy Size:	+		
▲A4, Letter	+		
ISO 29183, A4 Simplex Flatbed (Black / Colour):			
◄ Up to 7.7 ipm / 3.8 ipm			
Max Copy Resolution:0			
◄1440 x 720 dpi			
Scan Function:			
Scanner Type:			
◄ Flatbed colour image scanner			
■Sensor Type:			
<c></c> IS			
Optical Resolution:			
◀1200 x 2400 dpi			
Maximum Scan Area:			
◄216 x 297 mm (8.5 x 11.7 ")			
Scanner Bit Depth (Colour):			
◀48-bit input, 24-bit output			
Scanner Bit Depth (Grayscale):			
◄ 16-bit input, 8-bit output			
Scanner Bit Depth (Black & White):			
▲16-bit input, 1-bit output			
Scan Speed:			
Flatbed (Black / Colour):			
✓ 200 dpi: 11 sec / 200 dpi: 28 sec			
Paper Handling:			
Number of Paper Trays:			
✓1 (Paper Cassette)			
Standard Paper Input Capacity:			
◄ 100 sheets, A4 Plain paper (80 g/m2)			
<ul> <li>✓ 100 shoets, Premium Glossy Photo Paper</li> </ul>			
Output Capacity:			
■ Souper Supervises ■ 30 sheets, A4 Plain Paper			
◄ 20 sheets, Premium Glossy Photo Paper			
Maximum Paper Size:	+		
■ Maximum Paper Size. ■ 215.9 x 1200 mm (8.5 x 47.24 ")	+		
Paper Feed Method:	+		
■Paper Feed Method. ■ Friction feed	+		
	+		
Paper Size:     Al 105 x 270 mm B5 45 46	+		
◄Legal, 8.5 x 13 ", Letter, A4, 195 x 270 mm, B5, A5, A6, 100 x 148 mm, B6, 5 x 7 ", 4 x 6 ", Favelance #10, DL, C6			
100 x 148 mm, B6, 5 x 7 ", 4 x 6 ", Envelopes #10, DL, C6	+		
Print Margin:	+		
0 mm top, left, right, bottom via custom settings in printer driver (except plain paper) *2			
printer driver (except plain paper) *3		1	



	■Card Slot / USB Host Function:				
	Type of Direct Printing:				
	Memory Device				
	Supported Memory Cards:				
	SD Memory Card				
	Printer Software:				
	Operating System Compatibility:				
	■ Windows XP / XP Professional x 64 Edition / Vista / 7 / 8				
	/8.1/10				
	Windows Server 2003 / 2008 / 2012 / 2016				
	Only printing and scanning functions are supported for				
	Windows Server OS				
	▲Mac OS X 10.6.8 or later				
	Interface:				
	International and the second sec				
	<b>■</b> USB 2.0				
	Network:				
	■Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct				
	WI-FITEE 802.110/g/1, WI-FI Direct     International and the second				
	■TCP/IPv4, TCP/IPv6, LPD, IPP, PORT9100, WSD				
10	Computer Printer 3-in-1	unit	1	12,500.00	12,500.00
10	©with CIS Filled with Inks	um	1	12,300.00	12,300.00
	Compact integrated tank design				
	High yield ink bottles				
	Spill-free, error-free refilling				
	@Wi-Fi, Wi-Fi Direct				
	Borderless printing up to 4R				
11	Computer Printer, All-in-One/Multifunction Colored-Ink	unit	5	14,000.00	70,000.00
	Tank				-
	■Ultra-low-cost printing: Print up to 4,500 pages in black				
	and 7,500 in colour				
	Next generation ink filling system: Enjoy hassle and mess-free refills with the enhanced ink bottles				
	<ul> <li>Wi-Fi, Wi-Fi Direct &amp; apps: Print from mobile devices</li> <li>3-in-1: Print, copy &amp; scan and borderless photo printing</li> </ul>				
	Nozzle Configuration: 180 Nozzles Black, 59 Nozzles per Color				
	Minimum Droplet Size: 3 pl, With Variable-Sized Droplet				
	Technology				
L	I alnk Technology: Dye Ink				
	Printing Resolution: 5,760 x 1,440 DPI				
12	Data logger module for Arduino UNO	nc	2	360.00	720.00
12	SD card interface works with FAT16 or FAT32 formatted	рс	2	500.00	120.00
	cards.				
	3.3V level shifter circuitry prevents damage to your SD				
	card.				
	Real time clock (RTC) keeps the time going even when the	<u> </u>			
	Arduino is unplugged.				
	Included libraries and example code for both SD and RTC,				
	means you can get going quickly.				
	Prototyping area for soldering connectors, circuitry or				
	sensors.				



13	Desktop Computer (i3, 11th Gen)(Assembled)	set	1	40,000.00	40,000.00
	■Processor: Intel Core i3-11300 (4 cores /8 threads) or				
	higher				
	Motherboard: Intel H510M Ultra Durable motherboard,				
	Gaming LAN, Anti-Sulfur Resistor, LGA-1200				
	BAR DDR4 2933 DIMM Desktop Memory or higher				
	■SSD: 240GB NVMe or higher				
	Keyboard and Mouse Combo				
	Casing with Power Supply				
	Monitor: atleast 23 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				
14	Desktop Computer (i7 Branded)	unit	2	75,000.00	150,000.00
	■CPU: 11th Gen Intel Core i7 (8-Core, 12MB Cache, up to				
	4.7GHz with Intel Turbo Boost Technology) or higher				
	■HDD: 256GB M.2 PCIe NVMe Solid State Drive or higher				
	+ 1TB 7200 rpm 3.5" SATA Hard Drive or higher				
	RAM: 8GB (8GBx1) DDR4 2666MHz or higher				
	■Graphics: NVIDIA GeForce GTX 1650 4GB GDDR5 or				
	higher				
	Screen: at least 23" IPS Monitor FHD				
	Optical Drive: No Optical Drive				
	USB Mouse and Keyboard				
	Uninterruptible Power Supply (UPS): at least 600VA, at				
	most 4 hours charging time				
	■OS: Windows 10 Home Single Language (64bit) English				
	or higher				
15	Desktop Computer, Assembled, 12th Gen Core i5	unit	1	50,000.00	50,000.00
	Processor: Intel Core i5 12500 with Intel® UHD Graphics				
	770 processor graphics or higher				
	Motherboard: Intel® H610 Motherboard with 6+1+1				
	Hybrid Phases Digital VRM Design, PCIe 4.0* Design,				
	Gen3 x4 M.2, mATX form factor , Anti-Sulfur Resistor or				
	Memory: 16GB (2x8) 3200MHz DDR4 or higher				
	SSD: 500GB 3D NAND SSD PCIe Gen3x4 or higher				
	Casing: MATX casing with acrylic side panels				
	Power Supply: 450Watts 80+ Bronze Certified with				
	120mm thermally controlled low-noise cooling fan				
	Monitor: 23" IPS FHD, 72% NSTC color gamut with 75Hz				
	refresh rate				
	Operating System: Genuine Windows 11 Pro				
	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				
	Solv IC controlled AVR				
16	Desktop Computer, Assembled, 12th Gen Core i5, SDD and HDD	set	4	49,000.00	196,000.00
	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				
	Depending system: Genuine Windows 11				
	DHT11 Temperature/Humidity Sensor module for				
17	Arduino with wires, temp accuracy +-2°C	unit	12	80.00	960.00
	DHT11 Temperature/Humidity Sensor module for Arduino				
	with wires, temp accuracy +-2°C, functional and good				
40	quality	<b>b</b> 41	2	C 4 5 00	4 025 00
18	EPSON M200 Ink 774 black	btl	3	645.00	1,935.00
40	Epson Genuine 774 Pigment Black 140ml Ink for M200;		•		0.000.00
19	External Hard Drive, 1 TB	unit	2	3,000.00	6,000.00
	Capacity: 1TB				
	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				
	Weight: 216g				
20	Global Positioning System (GPS)	unit	1	35,000.00	35,000.00
	4-inch dual-orientation,				
	glove friendly touchscreen display;				
	8 megapixel autofocus camera;				
	automatically geotags photos; tracks both GPS and				
	GLONASS satellites;				
	1-year birds Eye Satellite Imagery subscription;				
	3-axis compass with barometric altimeter				
21	HDMI Cable	рс	2	300.00	600.00
	3m				
22	HDMI Cable, 10m	рс	4	700.00	2,800.00
	■10 meters				_,
	Nylon braided				
<u> </u>	■1.4 version 3D support				
	Support all high resolutions including 480p, 720p, 1080p				
	and 1180p.				
	Multi -channel digital audio with a 10.2 Gbps band-width				
	HDMI AV cable for HDTV     AV/DEL Compliant Cable				
	HDMI EMI/RFI Compliant Cable				
	<ul> <li>24k GOLD plated HDMI plugs</li> <li>ROHS compliant cable.</li> </ul>	+			
	E E LI H S' compliant cablo	1	1		



23	Headset with Noise Cancelling Mic	unit	2	1,800.00	3,600.00
	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				
24	Ink Cartridge Canon G2010	рс	20	1,000.00	20,000.00
25	Ink continuous, refill, black (Brother DCP T310)	btl	10	400.00	4,000.00
	Ink continuous, refill, black (Brother DCP T310) BTD60 BK				
	- Black;				
26	Ink, Brother BT5000C Cyan	btl	5	500.00	2,500.00
27	Ink, Brother BT5000M Magenta	btl	5	500.00	2,500.00
28	Ink, Brother BT5000Y Yellow	btl	5	500.00	2,500.00
29	Ink, Epson 003,Genuine Black 65mL	btl	35	350.00	12,250.00
30	Ink, EPSON 003, Genuine Cyan 65mL	btl	16	350.00	5,600.00
31	Ink, EPSON 003,Genuine Magenta 65mL	btl	11	350.00	3,850.00
32	Ink, EPSON 003,Genuine Yellow 65mL	btl	16	350.00	5,600.00
33	Ink, Epson, genuine, (BK) T664, 70 ml	рс	4	350.00	1,400.00
34	ANTI VIRUS 1 DEVICE 2 YEARS	рс	3	1,000.00	3,000.00
35	INTERNET SECURITY 1 DEVICE 1 YEAR	рс	3	700.00	2,100.00
36	Keyboard And Mouse Combo Bundle, USB powered	set	2	600.00	1,200.00
	Keyboard				
	✓Keycaps: A-Shape, Round Edge				
	✓Hotkeys: No				
	A Rating: 5 V / 30 mA     A				
	■Mouse				
	Sensor: Optical				
	Resolution: 1000 DPI				
	■Buttons No.: 3				
	✓Ergonomic Design: Symmetric				
	■ Size: Middle / Big Hands				
37	LCD Projector (XGA), 3LCD Technology	unit	22	25,000.00	550,000.00
	Projection System Technology: RGB liquid crystal shutter				
	projection system (3LCD), 3-chip technology				
	White Light Output (Normal/Eco):3,600 Im				
	Colour Light Output: 3,600 Im				
	Besiden Light Supplice, occurring Besiden Light Supplice, occurring Bes				
	Analog Input:D-Sub 15pin: 1				
	Digital Input:HDMI: 1				
	Digital input. Town: T DCD:Native Resolution: XGA (1024 x 768)				
	Size: 0.55" (C2fine)				
	Lightsource:Type: 210W UHE				
	Delignisource. Type: 21000 OFFE Delignisource. Type: 21000 OFFE Delignisource. Type: 21000 OFFE Delignisource. Type: 21000 OFFE				



	■USB Interface:USB Type B: 1 (For Firmware Update,				
	Copy OSD Settings)				
	Analog Input:D-Sub 15pin: 1				
	Digital Input:HDMI: 1				
38	LCD Projector, XGA (1024x768)	unit	13	27,000.00	351,000.00
	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				
39	Mouse, Wired, Optical, USB	рс	3	210.00	630.00
- 55	■USB Port Connectivity	μυ	5	210.00	030.00
	Sensor: Optical				
	■ <b>D</b> PI: 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				
40	NETBOOK	unit	1	16,000.00	16,000.00
40	PROCESSOR INTEL 4th GENERATION PROCESSOR or	um	•	10,000.00	10,000.00
	higher				
	PROCESSOR MODEL INTEL CORE i3/i5/i7				
	STORAGE CAPACITY 16GB or higher				
	SOLID STATE DISK CAPACITY 512GB or higher				
	MECHANICAL HARD DISK CAPACITY 512GB of higher				
	higher SCREEN SIZE 15.6 INCHES - 14 INCHES				
44			16	11 000 00	176 000 00
41	Printer, All-in-One Wireless Ink Tank Color	unit	16	11,000.00	176,000.00
	Product Description     Approduct Description				
	Printer				
	A Printing resolution(dpi): 4800(horizontal) x 1200(vertical)     A late for a laborate line based li				
	◄Interface: USB Port=Hi-Speed USB *1, LAN				
	Port=Wireless LAN: IEEE802.11n / IEEE802.11g /				
	IEEE802.11b*2				
	◄ Multiple copy: Max. 20 pages				
	▲Maximum scanning size: A4/Letter, 8.5" x 11.7"/216x297				
	mm				
	◄ Multiple Copy: Mx. 99 pages				
	Scanner Driver: Windows=TWAIN 1.9 Specification,				
	WIA				
	Scanning resolution: optical resolution (horizontal x				
	vertical)= 600 x 1200 dpi				



	◄ Gradiation (input/Output): Gray=16bit/8bit, Color= RGB each 16bit/8bit				
	Data Compressing System: Black=MH, MR, MMR, Color= JPEG				
	◄Modem Speed: Max. 33.6 kbps				
	▲Density adjustment: 3 levels				
	◄Memory: Transmission/reception= approx. 50 pages				
	✓Operating System: Windows 10,8.1,7 SP1				
	<pre></pre>				
	✓Display: XGA 1024 x 768				
	Connectivity Type: WiFi				
	✓Wireless LAN: Supported Standards: IEEE802.11n /				
	IEEE802.11g / IEEE802.11b				
	Frequency bandwidth: 2.4 GHz				
	WCN (WCN-NET) • Easy wireless connect				
	Other Features: Administration password				
	◄ Other Supported OS: iOS, Android, Windows 10 Mobile				
	Mobile Printing Capability: Google Cloud Print, Apple				
	AirPrint				
42	Printer, computer, continuous ink system, 4-in-1 (Print, Scan, Xerox copy, Fax with ADF)	unit	3	22,000.00	66,000.00
	Print Method: On-demand ink jet (piezoelectric)				
	Minimum Ink Droplet Volume:3 pl				
	Print Direction: Bi-directional printing, Uni-directional				
	printing				
	Nozzle Configuration: 180 nozzles Black, 59 nozzles per				
	colour (Cyan, Magenta, Yellow)				
	Maximum Resolution: 5760 x 1440 dpi (with Variable-				
	Sized Droplet Technology)				
	■USB: USB 2.0				
	■Network: Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct				
	Network Protocol: TCP/IPv4, TCP/IPv6				
43	SD Card, 1 TB	рс	3	800.00	2,400.00
	U3 4K C10 V30				
	Capacity: 1 TB				
	Compatibility: Compatible with microSDHC/SDXC,/SDHC				
	UHS-I/microSDXC UHS-I supporting host devices				
	Sequential Read Performance: 200MB/s	T			
	Sequential Write Performance: 140MB/s				
	Dimension (L x W x H): 10.92mm x 14.99mm x 1.02mm				
44	Stereo Speaker for PC Desktop	рс	1	10,000.00	10,000.00
	Product Description				,
	Quantum Duo PC speakers with the different color presets				
	and lighting patterns				
	General Specifications:				
	Output power (W)20	1			
	Audio Specifications:				
<u> </u>	Dynamic frequency response range (Hz)				
	60 Hz - 20K Hz				
	Dimensions:				
	Dimensions (cm)				
L	נווטטוושוווע (וווו)				



	8.9 x 21 x 17.6				
	Dimensions (in)				
	3.5 x 8.3 x 6.9				
	Weight (kgs) 2.8				
	Weight (lbs)6.2				
	Control and Connection Specifications:				
	Bluetooth profiles				
	A2DP v1.3, AVRCP v1.5				
	Bluetooth frequency				
	2402 MHz - 2480 MHz				
	Bluetooth transmitted modulation				
	GFSK, π/4 DQPSK, 8DPSK				
	Bluetooth transmitter power				
	≤ 12.5 dBm (EIRP)				
	Bluetooth version				
	4.2				
45	Temperature and Humidity Sensor DHT11	рс	6	270.00	1,620.00
	Operating voltage: 3.3v-5.5v				-
	Humidity measuring range: 20%-95%				
	Small plates PCB size: 3.2cm x 1.4cm				
46	Temperature and Humidity Sensor, DHT22	рс	6	350.00	2,100.00
	Sensing element				
	■polymer capacitor				
	Power supply				
	◄ 3.3 to 6V DC				
	■0-100% RH;				
	◄-40 to 80 celsius Temp				
	Dimension				
	◄ 22 x 28 x 5 mm				
47	Temperature-Humidity Data Logger	рс	2	2,000.00	4,000.00
	Portable and hand-held				
	16000 data recording capacity.				
	Adjustable record interval: 10s~24hour				
	Multi-function LCD				
	Internal NTC temperature thermal sensor with optional				
	external sensor				
	Data export in PDF/EXCEL via data management				
	software				
	Selectable °F/°C temperature unit				
	■Size: approx. 84 (L) x 44(W) x 20 (H) mm				
	■Good quality				
	Durable	_			
48	UPS 800W ( for Computer)	unit	3	5,000.00	15,000.00
	Charging time: At most 4 hours;				
49	USB Hub, 4 gangs	рс	4	680.00	2,720.00
	MS Universal USB 3.0 Multi-Port Socket at least 4 ports				
	Plug type: US, EU	_			
50	Web Camera for PC	unit	6	2,500.00	15,000.00
	■Image sensor: 1 / 2.9				
	Clens: 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				
	Video output: USB video stream				
	Working voltage: DC5V / 160mA ± 6mA				
	■Working environment: -20 ℃ to 60 ℃				
51	Desktop Computer, AMD Ryzen 5 5600G, 16GB RAM, GTX 1660 ti	set	1	50,000.00	50,000.00
	Processor: AMD Ryzen 5 5600G 6 Cores & 12 Threads,				
	3.9 GHz Base Clock,4.4 GHz Max Boost Clock, Socket				
	AM4, 3MB L2 & 16MB L3 Cache or higher				
	Motherboard: AMD B550 Chipset Ultra Durable				
	Motherboard with 5+3 Phases Pure Digital VRM Solution				
	with Low RDS(on) MOSFETs, PCIe 4.0 x16 Slot, Dual				
	PCIe 4.0/3.0 M.2 Connectors, Realtek GbE LAN, High				
	Quality Audio Capacitors and Audio Noise Guard for				
	Ultimate Audio Quality or higher				
	■Graphics: GTX 1660 ti				
	Monitor: 24"				
	Memory: 16GB DDR4 3200MHZ(8+8) or higher				
	Storage: 512g SSD M2 or higher				
	Storage: 1TB HDD				
	Keyboard and Mouse				
	■Audio: HD audio Realtek				
	Operating System: Genuine Windows 10 or higher				
52	Laptop (Pentium Dual Core)	unit	2	30,000.00	60,000.00
	Processor: Intel Pentium Gold 4417u Processor or higher				
	Memory: at least 4GB DDR4 or higher				
	■Storage: at least 128GB SSD				
	■Display: 14" HD (1366x768) LED Display				
	■Video Processor: nVidia MX110 2GB VRAM or higher				
	Connectivity: 802.11AC WiFi + BT   USB3.0 Port   HDMi				
	Port				
	■Operating System: Genuine Windows 10 Home				
50	Desktop Computer (i7) Branded, with 24" FHD IPS			400.000.00	400.000.00
53	Monitor	unit	1	100,000.00	100,000.00
	■Processor Type: Intel Core i7 (2.1 GHz base frequency,				
	up to 4.9 GHz with Intel Turbo Boost Technology, 25 MB				
	L3 cache, 12 cores, 20 threads) or higher				
	Memory: 16 GB DDR4-3200 SDRAM (1 x 16 GB) or				
	higher				
	Hard Drive: 512 GB PCIe NVMe M.2 SSD; 1 TB 7200				
	rpm SATA HDD				
	OS: Windows 11				
	Expansion Slot: 2 x PCI Express Slots (1 x PCI-Ex16, 1)				
	x PCI-Ex1 ), 2 x M.2 Expansion Slots (1 for SSD; 1 for				
	WLAN)", Expansion Bay: HDD 3.5" x 2 (or HDD 3.5" x 1 +				
	HDD 2.5" x1) + 9.5mm slim ODD x 1				
	Monitor: 24" FHD IPS Monitor				



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	oy a le       -         ck       pc         y)       unit         -       -         y)       unit         -       -         20       -         Photo       -         Paper       -         24")       -         1       -         (with       -         (with       -         serJet       -         L       -	Ick       pc       4         y)       unit       1         y)       unit       y         y)       unit       unit         y)<	Image: box       PC       4       3,250.00         y)       unit       1       11,000.00         y)       unit       1       1         y)       unit       1       1         y)       unit       unit       unit       unit         y)       unit       unit       unit       unit         y)       unit       unit       unit       unit         y)       unit       unit       unit       unit       unit         Photo       unit       unit       unit       unit       unit       unit



	1 Lot Network Infrastructure (Miscellaneous)	lot	1	91,000.00	91,000.00
	Network IP Phones:				
	3 units				
	Cisco CP-6821 (same existing fleet of VSU IP Phones)				
	IP Network Camera:				
	5 units at 3,500.00				
	Hikvision, Dome type camera, 2 Mega Pixel IP67 (Same				
	brand of Existing VSU fleet camera)				
	3M Volition (Same fleet of VSU existing) Face plate with				
	module, flush type				
	*2 Ports Face plate with RJ-45 Module Cat 6				
	25 sets at 850.00				
	3M Keystone				
	Original 3M Volition (Cat6 female Tool-less RJ45 Keystone				
	Mount)				
	Re-usable				
	Shallow Depth, Cable Entry from top or bottom				
	Keystone Mounting				
	Accepts both solid conductors from AWG 26 to 22 and		1		
	stranded conductors				
	Integral shutter Benefits				
	Easy and quick to install				
	Integral shutter protects jack in the patch panel				
	*1 Port Face plate with RJ-45 Module Cat 6				
	25 sets at 450.00				
	3M Keystone				
	Original 3M Volition (Cat6 female Tool-less RJ45 Keystone				
	Mount)				
	Re-usable				
	Shallow Depth, Cable Entry from top to bottom				
	Keystone Mounting				
	Accepts both solid conductors from AWG 26 to 22 and				
	stranded conductors				
	Integral shutter Benefits				
	Easy and quick to install				
	Integral shutter protects jack in the patch panel				
	Granding FA1-H Biometric System (Same with existing				
	VSU fleet)				
	2 units at 10.000.00				
	Biometric System, finger print and facial recognition				
	Built-in backup battery				
	Network port				
59	1 Lot Network Switches	lot	1	450,000.00	450,000.00
00	6 units at 75,000.00 each			+00,000.00	+00,000.00
	Network Switches:				
	Units-HP Aruba 2530 (Based on VSU Existing HP fleet of				
	network equipment)				
	*PoE, PoE+ (370watts)				
	*24 ports				
	*Up to 104 Gbps capacity	+			
		1	1		
	*Layer 2				



	*Lifetime Warranty				
60	1 Lot Network Switches (2)	lot	1	190,000.00	190,000.00
	2 units at 95,000.00 each				
	Network Switches:				
	HP Aruba 2540 (Based on VSU existing HP fleet of				
	network equipment)				
	PoE, PoE+ (370 watts)				
	24 ports				
	Up to 176 Gbps Switching capacity				
	Layer 2 with Static and RIP				
	1G, SFP, SFP+				
	Lifetime Warranty				
61	1 Lot Uninterruptible Power Supply (UPS)	lot	1	54,000.00	54,000.00
	UPS: 9 units at 6,000.00				
	1000 watts, 1500VA, Universal type of outlet, built-in AVR				
62	Network Wifi Access Points	lot	1	300,000.00	300,000.00
	20 units Network WiFi Access Points				
	Unifi Nano HD				
	(Existing fleet of VSU Wifi Access Points)				
63	Network Switch	unit	4	15,000.00	60,000.00
	■Standards: IEEE 802.3, 802.3u, 802.3x, 802.3ab,				
	802.3az				
	■Number of Ports: 24 Gigabit				
	■Speed: 10/100/1000				
	Bandwidth: 48 Gbps (non-blocking)				
	Performance: Full line rate and forwarding rate of 64B				
	frame at: 1.488Mpps for 1000M port , 0.1488Mpps for				
	100M port, 0.01488Mpps for 10M port				
	Quality of Service: 802.1p and DSCP				
	MAC Address Table: 8K				
64	UTP Cable (305 meters), CAT 6 23 AWG	roll	3	7,500.00	22,500.00
	■UTP Cable cat6				
	Cat 6 Cable UTP Unshielded AWG23				
	Gray Data LAN Cable				
	■1000 feet 305m 1000ft.				
	must be UL listed & ISO certified cable				
65	Laptop, 14" (i7)	unit	5	75,000.00	375,000.00
	Processor: Intel Core i7 10th generation or higher				
	■Graphics: NVIDIA GeForce MX250 at least 2GB GDDR5				
	Memory: at least 8GB DDR4-2666				
	Storage: at least 256GB SSD M.2 + 1TB HDD				
	■Display: 14" FHD (1920x1080) IPS 250nits Anti-glare				
	Touchscreen: None				
	Optical: None				
	Media Reader: 4-in-1 Card Reader				
	■Ethernet: None				
	■WLAN + Bluetooth	1			
	©Camera: at least 720p				
	Microphone: at least 2x, Array				
	■Operating System: licensed Windows 10 Home or Pro				
	Bundled Software: Microsoft Office Perpetual License	1			



	Repair and replacement should be at most 3 month from				
	returning the unit				
	■at least 3 years Warranty				
	■FREE: Backpack				
66	HDMI to HDMI cable	рс	30	500.00	15,000.00
	chord 1.8 meter long				-,
67	External Hard Disk Drive (Portable, 2TB), USB	unit	1	4,200.00	4,200.00
	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				
68	Multimedia Speakers 2.0, 6W, USB powered	pair	2	600.00	1,200.00
	Total Output Power (RMS): 6W				,
	Satellite wattage (RMS):3W				
	Satellite Driver : Size : 2.5"				
	Frequency Range: 70-20000 Hz				
	Interface: 3.5mm jack				
	Housing material : ABS				
	Controls: Overall Volume				
	Power Supply: via USB, 5V				
69	DJI Inspire 2 TB50 Intelligent Flight Battery	рс	4	10,000.00	40,000.00
	Lithium Polymer battery 2150MAH 11.V Sensefly Type				
70	2150 MAH-Min 2150 mAh-24wh	рс	2	15,000.00	30,000.00
71	A4 Pigment Printer	lot	1	20,000.00	20,000.00
72	Smartphone for 3D and Internet-of-Things Development and Controls	unit	1	80,000.00	80,000.00
	6-core CPU with 2 performance and 4 efficiency cores; 5-				
	core GPU; 16-core Neural Engine				
	Gold Finish				
	6.1-inch (diagonal) all-screen OLED display				
	2556-by-1179-pixel resolution at 460 ppi				
	256 GB				
	Rated IP68 (maximum depth of 6 meters up to 30 minutes)				
	under IEC standard 60529				
	TrueDepth camera for facial recognition				
	Precision dual-frequency GPS (GPS, GLONASS, Galileo,				
	QZSS, and BeiDou)				
	Digital compass				
	Wi-Fi				
	Cellular				
	iBeacon microlocation	1			
	LiDAR Scanner				
	Barometer				
	High dynamic range gyro High-g accelerometer				
	ו וועוו-ע מנגבובו טווובובו				
	Provimity sonsor				
	Proximity sensor				
73	Proximity sensor Dual ambient light sensors Arduino UNO microcontroller, Microchip AT mega328P	unit	6	1,500.00	9,000.00



	■Panel Type: IPS				
	<b>B</b> rightness(Typical): 250cd/ $m^2$				
	<b>B</b> Brightness(Min): $200 \text{cd/} m^2$				
	Contrast Ratio Static: 1000:1(typical)				
	Dynamic Contrast Ratio: MegaFlat				
	Resolution: 1920x1080				
	Response Time: 5ms(GTG)				
	Max Color Support: Max 16.7M				
	Max Refresh Rate: Max 75Hz				
75	Interface: D-sub(x1), HDMI(x1)		•	45.000.00	
75	CPU (Central Processing Unit)	рс	2	15,000.00	30,000.00
	AMD A10-8770 Processor or higher				
	Motherboard compatible with the processor				
	Kingston 4GB DDR4-2666 Memory or higher				
	CPU Casing w/ PSU				
	■256GB SSD				
76	External Hard Disk Drive (Portable, 1TB), USB 3.1	unit	15	3,500.00	52,500.00
	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				
77	Ink, T05C1, BLACK, Genuine	pack	10	8,000.00	80,000.00
	(for Epson C878R WorkForce Pro A3 Colour Multifunction				
	Printer, Replaceable Ink Pack System RIPS Original				
	Pigment Inks)				
78	Ink, T05C2, Cyan, Genuine	pack	10	9,000.00	90,000.00
	(for Epson C878R WorkForce Pro A3 Colour Multifunction				
	Printer, Replaceable Ink Pack System RIPS Original				
70	Pigment Inks)		40	0.000.00	
79	Ink, T05C3, Magenta, Genuine	pack	10	9,000.00	90,000.00
	(for Epson C878R WorkForce Pro A3 Colour Multifunction				
	Printer, Replaceable Ink Pack System RIPS Original				
80	Pigment Inks) Ink, T05C4, Yellow, Genuine	naak	10	0 000 00	00 000 00
00	(for Epson C878R WorkForce Pro A3 Colour Multifunction	pack	10	9,000.00	90,000.00
	Printer, Replaceable Ink Pack System RIPS Original				
	Primer, Replaceable link Fack System RIFS Original Pigment Inks)				
81	Laptop 14" (i5)	unit	20	49,500.00	990,000.00
01	■ Processor: Intel Core i5-1035G1 Processor 1.0 GHz 6M	unit	20	49,300.00	990,000.00
	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				
	Anti-Glare Panel with 45% NTSC				
	Anti-Glare Panel with 45% NTSC Video Processor: NVIDIA GeForce MX330, with 2GB GDDR5 VRAM or higher				



82	Universal HDMI to VGA Adapter Cable, at least 1.8 meters	unit	10	600.00	6,000.00
83	Desktop Computer with 2 Units Printer	lot	1	120,000.00	120,000.00
	Desktop Computer with 2 units Printers				
	Intel Core i7-13400, 10C (6P + 4E) / 16T, P-core 2.5 /				
	4.6GHz, E-core 1.8 / 3.3GHz, 20MB or higher				
	mATX B760 Chipset Motherboard with Hybrid 8+1+1				
	Phases Digital VRM Solution/ Advanced Thermal Design &				
	M.2 Thermal Guard				
	16GB UDIMM DDR4-3200 or higher				
	1TB SSD M.2 2280 PCIe 4.0x4 NVMe				
	600Watts Bronze Certified PSU or higher				
	Casing with Acrylic Side Panels				
	NVIDIA GeForce RTX 3050 8GB GDDR6				
	Wi-Fi 6, 11ax 2x2 + BT5.1				
	24" IPS Monitor, 75Hz				
	4 outlets (4 NEMA 5-15R), 650VA/360W, AVR Technology,				
	Surge Protection, UPS				
	Genuine Windows 11 Home				
	With: UPS, Keyboard, Mouse, Web Camera and Headset				
	Computer Printer, All-in-One Multifunction, Colored Ink				
	Tank				
84	Laptop	unit	1	80,000.00	80,000.00
•	Laptop:Intel Core i7-12650H Processor 2.3 GHz (24M	unit	•		
	Cache, up to 4.7 GHz, 10 cores) or higher				
	16GB RAM or higher				
	512GB M.2 NVMe PCIe 3.0 SSD or higher				
	16.0-inch WUXGA (1920 x 1200) 16:10 aspect ratio LED				
	Backlit IPS-level Panel 120Hz refresh rate				
	NVIDIA Geforce RTX 3050 4GB Laptop GPU 4GB GDDR6				
	Wi-Fi 6E (802.11ax) (Dual band) 1*1 + Bluetooth 5.3				
	Wireless Card				
	Windows 11 Home				
85	Epson 003 Ink Bottle for Epson L3150, Black	btl	6	400.00	2,400.00
86	Epson 003 lnk Bottle for Epson L3150, CYAN	btl	6	400.00	2,400.00
87	Epson 003 lnk Bottle for Epson L3150, MAGENTA	btl	6	400.00	2,400.00
88	Epson 003 Ink Bottle for Epson L3150, WAGENTA	btl	6	400.00	2,400.00
89	Router, Wireless	pc	1	4,900.00	4,900.00
03	■ Enjoy the benefits of Wireless-N300 (802.11n) in your	μυ	1	4,300.00	4,300.00
	home ideal for surfing the web, emailing and printing				
	wirelessly				
	Connect your computers, wireless printers, smartphones,				
	and other wireless devices at up to 300 Mbps transfer				
	speed				
	■Enjoy broad wireless coverage provided by MIMO				
	antenna technology				
	■Use four Fast Ethernet (10/100 Mbps) ports to directly				
	connect wired devices				
	Connect when devices                •••••••••••••••••••••••••				
	settings, including WPA/WPA2 Personal and SPI firewall				
	protection				
~~	Laptop	unit	1	49,999.00	49,999.00
90				TJ.JJJ.UU	+3,333.00



Missione Ad Harris O'reals Lawrence	
Windows 11 Home Single Language	
Operating System Architecture 64-bit	
Processor: Intel Core™ i5 -12500H or higher	
Processor Speed 2.50 GHz	
Processor Core Dodeca-core (12 Core™)	
Processor Generation 12th Gen	
Graphics Controller Manufacturer: NVIDIA®	
Graphics Controller Model	
GeForce® RTX™ 3050	
Graphics Memory Capacity 4 GB	
GDDR6	
Graphics Memory Accessibility	
Dedicated	
GPU Boost Clock	
Up to 1600 MHz	
Maximum Graphics Power	
Up to 95 W	
Screen Size: 39.6 cm (15.6")	
Display Screen Type: LCD	
Backlight Technology: LED	
Screen Resolution: 1920 x 1080	
Standard Refresh Rate	
144 Hz	
Total Installed System Memory: 8 GB	
DDR4 SDRAM	
Total Solid State Drive Capacity ; 512 GB	
Solid State Drive Capacity , 512 OB	
PCI Express	
Wireless LAN Standard	
IEEE 802.11 a/b/g/n/ac/ax	
Wireless LAN Model	
Wi-Fi 6 AX 1650i	
Ethernet Technology	
Gigabit Ethernet	
Bluetooth Standard	
Bluetooth 5.1 or above	
Built-in Devices	
Microphone	
Interfaces/Ports	
НОМІ	
Number of HDMI Outputs: 1	
Number of USB 3.2 Gen 1 Type-A Ports: 1	
Number of USB 3.2 Gen 2 Type-A Ports: 2	
Number of USB 3.2 Gen 2 Type-C Ports:1	
Total Number of USB Ports:4	
USB Type-C	
USB Type-C Detail	
USB Type-C port supporting: USB 3.2 Gen 2 (up to 10	
Gbps), DisplayPort over USB-C, Thunderbolt 4, USB	
charging 5 V; 3 A, DC-in port 20 V; 65 W	
Network (RJ-45)	
Pointing Device Type	



	TouchDod				
	TouchPad				
	Keyboard Backlight	-			
	TouchPad Features				
	Multi-touch Gesture				
	4-cell Lithium Ion (Li-Ion) Battery	_			
	Maximum Power Supply Wattage 180 W				
	Product Color Obsidian Black				
	Miscellaneous				
	Package Contents				
	Nitro 5 AN515-58-50YE Gaming Notebook				
	Lithium Ion Battery				
	AC Adapter				
	Security Features				
	Firmware Trusted Platform Module (TPM) solution				
	Kensington lock slot				
	Rebidding - VSU-GOODS-23-36				
91	4000W Power Inverter + 3A solar controller kit	set	1	5,000.00	5,000.00
	Specifications:			-,	3,000100
	Output Voltage 220V				
	Color: Yellow Black				
	Material: Plastic				
	Waveform: Modified Sine Wave				
	Surge Peak Power: 4000W				
	Input voltage: 12V				
	Input voltage Range; 9.5V - 15.5V				
	Output Voltage Range: 220V+ 10%				
	Frequency: 50Hz				
	Efficiency 90%	_			
	Circuit topology push-pull				
	No load current < 0.7A				
	Low voltage protection: Minimum protection voltage 9.5V				
	High voltage protection: Max protection voltage 15.5V				
	Overload protection: Yes				
	Output short circuit protection: Yes				
	Positive and negative reverse connection protection: YES				
	Output regulation: Yes				
	Display Scree: Display Output Voltage Battery Voltage				
	Input terminal wiring: terminal				
	Output interface: 1Socket, 2* USB				
	USB Output 2.14				
	Car Cigarette Plug Length: 42.5cm/16.7inch				
	Battery clips length 46.8cm / 6.334.4* 2.2 inch				
	(NOTE: see attached specifications)		+ +		
	Automatic Voltage Regulator, 5000 VA, Servo-motor		├		
92	controlled	рс	1	8,000.00	8,000.00
	Capacity: 5000 VA				
	Input Voltage: 160-240 V				
	Output Voltage: 110/220 V				
	Phase: Single				
	Control System: Servo-Motor Control		<u>†</u> †		
	Response Time: within 4sec against 10%, Input Fluctuation	1			



	Overload Protection				
	Time Delay Function				
	Analog Volt Meter and Ammeter				
93	Camera	unit	1	55,000.00	55,000.0
	SENSOR TYPE: 1.0-type (13.2 mm x 8.8 mm) Exmor RS®				
	CMOS sensor, aspect ratio 3:2				
	NUMBER OF PIXELS (EFFECTIVE): Approx. 20.1				
	Megapixels				
	LENS TYPE: ZEISS® Vario-Sonnar® T* Lens, 10				
	elements in 9 groups (9 aspheric elements including AA lens)				
	F-NUMBER (MAXIMUM APERTURE): F1.8(W)–2.8(T)				
	ND-FILTER: Auto/On (3 steps)/Off				
	FOCAL LENGTH: f = 8.8-25.7 mm				
	ANGLE OF VIEW (35 MM FORMAT EQUIVALENT): 84				
	deg-34 deg (f = 24-70 mm2)3				
	FOCUS RANGE (FROM THE FRONT OF THE LENS):				
	iAuto: AF (W: Approx. 5 cm (0.17 ft) to Infinity, T: Approx.				
	30 cm (0.99 ft) to Infinity) / Program Auto: AF (W: Approx.				
	5 cm (0.17 ft) to Infinity, T: Approx. 30 cm (0.99 ft) to				
	Infinity)				
	OPTICAL ZOOM: 2.9x				
	CLEAR IMAGE ZOOM (STILL IMAGE): 20 M Approx.				
	5.8x/10 M Approx. 8.2x/5.0 M Approx. 11x/VGA Approx.				
	44x				
	CLEAR IMAGE ZOOM (MOVIE): 4K: 4.35x, HD: Approx.				
	5.8x				
	DIGITAL ZOOM (STILL IMAGE): 20 M Approx. 11x/10 M				
	Approx.16x/5.0 M Approx. 23x/VGA Approx. 44x				
	DIGITAL ZOOM (MOVIE): Digital Zoom Approx. 11x				
	SCREEN TYPE: 7.5 cm (3.0 type)(4:3)/1,228,800 dots/Xtra				
	Fine/TFT LCD				
	ADJUSTABLE ANGLE: Up by approx. 180 degrees, down				
	by approx. 45 degrees				
	DISPLAY SELECTOR (FINDER/LCD): Auto/EVF				
	(Manual)/Monitor(Manual)				
	MS ASSIST MAGNIFICATION: 5.3x, 10.7x				
	SCREEN TYPE/NUMBER OF DOTS: 0.39-type electronic				
	viewfinder(OLED), 2,359,296 dots				
	FIELD COVERAGE: 100%				
	MAGNIFICATION: Approx. 0.59x with 50 mm lens at				
	infinity, -1m-1(diopter) (35 mm equiv.)				
	EYE POINT: Approx. 20 mm from the eyepiece, 19.2 mm				
	from the eyepiece frame at -1m-1(diopter) (CIPA standard)				
	DIOPTRE ADJUSTMENT: -4.0 to +3.0 m-1				
	BRIGHTNESS CONTROL: Auto, Manual (5 steps)				
	IMAGE PROCESSING ENGINE: Yes (BIONZ X)				
	STEADYSHOT (STILL IMAGE): Optical				
	STEADYSHOT (MOVIE): Yes (Intelligent Active Mode,				
	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), 25		
points [contrast-detection AF]), Zone, Center, Flexible Spot		
(S/M/L), Expanded Flexible Spot, Lock on AF		
Wide/Zone/Center/Flexible Spot(S/M/L)/Expanded Flexible		
Spot		
LOCK ON AF: Yes		
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 (ISO125-12800, selectable with upper/lower		
limit),125/160/200/250/320/400/500/640/800/1000/1250/16		
00/2000/2500/3200/4000/5000/6400/8000/10000/12800		
(Extendable to ISO80/100),Multi-Frame NR: Auto(ISO125-		
12800), 200/400/800/1600/3200/6400/12800/2560056		
ISO SENSITIVITY (MOVIE)		
Auto: (ISO125–ISO12800, selectable with upper/lower		
limit),		
125/160/200/250/320/400/500/640/800/1000/1250/1600/20		
00/2500/3200/4000/5000/6400/8000/10000/12800		
MINIMUM ILLUMINATION (MOVIE): Auto:1.2 lux(Shutter		
Speed 1/30")		
WHITE BALANCE MODES: Auto, Daylight, Shade, Cloudy,		
Incandescent, Fluor.: Warm White, Fluor.: Cool White,		
Fluor.: Day White, Fluor.: Daylight, Flash, Underwater		
Auto, C.Temp./Filter, Custom		
WB MICRO ADJUSTMENT: Yes		
SHUTTER SPEED		
iAuto (4" - 1/2000)/Program Auto (30" - 1/2000)/Manual		
(Bulb, 30" - 1/2000)/Aperture Priority (30" - 1/2000)/Shutter		
Priority (30" - 1/2000)		
ELECTRONIC SHUTTER		
iAuto (4" - 1/32000)/Program Auto (30" - 1/32000)/Manual (30" - 1/32000)/Aperture Priority (30" - 1/32000)/Shutter		
Priority (30" - 1/32000)		
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 sec., high ISO NR: Normal/Low/Off, Multi		
Frame NR: Auto, ISO200-25600		
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/Superior Auto), Program Auto,			
	Aperture Priority, Shutter Speed Priority, Manual Exposure,			
	MR(Memory Recall) [body 3 sets/memory card 4 sets],			
	Movie Mode(Program Auto, Aperture Priority, Shutter			
	Speed Priority, Manual Exposure),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. 3.5fps 8910			
	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 (Hi/Mid/Lo), Self-timer, Self-			
	timer(cont.), Contbracketing11, Single-bracketing11,			
	White balance bracketing11, DRO bracketing11			
-	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, Neutral, Clear, Deep, Light, Portrait,			
	Landscape, Sunset, Night Scene, Autumn Leaves, Black &			
	White, Sepia, Style Box			
	PICTURE PROFILE			
	off/PP1-PP7(Black Level, Gamma (Movie, Still, Cine1-2,			
	ITU709, ITU709 [800%], S-Log2), Black Gamma, Knee,			
	Color Mode, Saturation, Color Level, Color Phase, Color			
	Depth, Detail, Copy, Reset)			
	NUMBER OF RECOGNISED SCENES			
	Still Image:Superior Auto: 44 / iAuto: 33, Movie:44			
	FLASH MODE: Auto/Flash On/Slow Synchro/Rear	T		
	Sync/Flash Off			
	FLASH TYPE: Built-in, manual pop-up			
	AF ILLUMINATOR: Auto / Off			
	BRACKETING: Yes			
	FLASH RANGE			
L				





	ISO Auto: Approx.0.4 m to 10.2 m (1.31 ft to 33.46 ft) (W) /		
	Approx. 0.4 m to 6.5 m (1.31 ft to 21.33 ft) (T), ISO12800:		
	up to Approx. 20.4 m (66.93 ft.) (W) / Approx. 13.0 m		
	(42.65 ft.) (T)		
	COMPATIBLE RECORDING MEDIA		
	Memory Stick Duo, Memory Stick PRO Duo, Memory Stick		
	PRO Duo (High Speed), Memory Stick PROHG Duo,		
	Memory Stick Micro1, Memory Stick Micro (Mark2), SD		
	Memory Card, SDHC Memory Card(UHS-I), SDXC		
	Memory Card (UHS-I), microSD Memory Card, microSDHC		
	Memory Card, microSDXC Memory Card		
	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)		
	COLOUR SPACE (STILL)		
	sRGB, Adobe® RGB		
	DCF/DPOF		
	DCF/DPOF/EXIF/MPF		
	STILL IMAGE NUMBER OF RECORDED PIXELS (IMAGE		
	SIZE)		
	3:2 mode: 20M (5,472 x 3,648) / 10M (3,888 x 2,592) / 5M		
	(2,736 x 1,824), 4:3 mode:18M (4,864 x 3,648) / 10M		
	(3,648 x 2,736) / 5M (2,592 x 1,944) / VGA,16:9 mode:17M		
	(5,472 x 3,080) / 7.5M (3,648 x 2,056) / 4.2M (2,720 x		
	1,528), 1:1 mode: 13M (3,648 x 3,648) / 6.5M (2,544 x		
	2,544) / 3.7M (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		
	(1,920x1,080/60i)/17 M FH (1,920x1,080/60i), XAVC S 4K:		
	30p 100 M (3,840x2,160/30p)/30p 60 M		
	(3,840x2,160/30p)/24p 100 M (3,840x2,160/24p)/24p 60 M		
1	(3,840x2,160/24p), XAVC S HD: 60p 50 M		
	(1,920x1,080/60p)/60p 25 M (1,920x1,080/60p)/30p 50 M		
1	(1,920x1,080/30p)/30p 16 M (1,920x1,080/30p)/24p 50 M		
1	(1,920x1,080/24p)/120p 100 M (1,920x1,080/120p)/120p (1,920x1,080/24p)/120p 100 M (1,920x1,080/120p)/120p		
1	60 M (1,920x1,080/120p)		
	MOVIE RECORDING MODE (PAL)		
1	NTSC/PAL Selector: [PAL] mode AVCHD: 24 M FX		
	(1,920x1,080/50i)/17 M FH (1,920x1,080/50i), XAVC S 4K:		
1	25p 100 M (3,840x2,160/25p)/25p 60 M (3,840x2,160/25p),		
1	XAVC S HD:50p 50 M (1,920x1,080/50p)/50p 25 M (1,920x1,080/50p)/25p 50 M (1,920x1,080/25p)/25p 16 M		
	(1,920x1,080/50p)/25p 50 M (1,920x1,080/25p)/25p 16 M		
1	(1,920x1,080/25p)/100p 100 M (1,920x1,080/100p)/100p		
	60 M (1,920x1,080/100p),		
	HFR		
1	(Recording) NTSC/PAL Selector: [PAL] mode XAVC S		
	HD:50p 50M(1920x1080/250fps), 50p		



Bidding No.: VSU-GOODS-23-46 Bidding Title: Supply and Delivery of IT Equipment and Supplies Location of the Project: VSU Main, Visca, Baybay City Leyte

	50M(1920x1080/500fps), 50p 50M(1920x1080/1000fps) /				
	25p 50M(1920x1080/250fps), 25p				
	50M(1920x1080/500fps), 25p 50M(1920x1080/1000fps),				
	NTSC/PAL Selector: [NTSC] mode XAVC S HD:60p 50 M				
	(1,920x1,080/240fps), 60p 50 M (1,920x1,080/480fps), 60p				
	50 M (1,920x1,080/960fps)/30p 50M (1,920x1,080/240fps),				
	30p 50 M (1,920x1,080/480fps), 30p 50 M				
	(1,920x1,080/960fps)/24p 50 M (1,920x1,080/240fps), 24p				
	50 M (1,920x1,080/480fps), 24p 50 M				
	(1,920x1,080/960fps) (Sensor Readout Number of effective				
	pixels) Quality Priority: 240fps/250fps (1,824x1,026),				
	480fps/500fps (1,824x616), 960fps/1000fps				
	(1,244x420)/Shoot Time Priority: 240fps/250fps				
	(1,824x616), 480fps/500fps (1,292x436),960fps/1000fps				
	(912x308)				
	STILL IMAGE NUMBER OF RECORDED PIXELS (IMAGE				
	SIZE) DURING MOVIE				
	16:9 mode:		1		
	17M(5472×3080)/7.5M(3648×2056)/4.2M(2720×1528)				
	PROXY RECORDING		1		
	Yes(1280 x 720 [approx. 9 Mbps])				
	INPUT AND OUTPUT TERMINALS: Multi/Micro USB				
	Terminal14, High-Speed USB (USB 2.0), Micro HDMI				
	NFC: NFC forum Type 3 Tag compatible, One-touch				
	remote, One-touch sharing				
	WI-FI: Yes (IEEE802.11b/g/n(2.4 GHz band))				
	POWER SOURCE				
	DC 3.6 V(supplied battery) / DC 5.0 V(supplied AC				
	Adapter)				
	BATTERY SYSTEM				
	Rechargeable Battery Pack NP-BX1				
	POWER CONSUMPTION (CAMERA MODE)				
	Approx. 2.6 W with LCD monitor and approx. 3.0 W with				
	viewfinder (CIPA standard)				
	USB CHARGE/USB POWER SUPPLY				
	Yes (Shooting, Playback)				
	BATTERY LIFE(STILL IMAGES)(CIPA)				
	Monitor:Approx. 220 / Approx. 110 min.,			<u> </u>	
	ViewFinder:Approx. 210/Approx. 105 min.				
-	BATTERY LIFE(MOVIES ACTUAL SHOOTING)(CIPA)				
	Monitor:Approx. 35 min., ViewFinder:Approx. 35 min.			<u> </u>	
	BATTERY LIFE(MOVIES CONTINUOUS		1	<u> </u>	
	SHOOTING)(CIPA)				
	Monitor:Approx. 65 min., ViewFinder:Approx. 65 min.		1	<u> </u>	
	DIMENSIONS (W X H X D) (APPROX.)			<u> </u>	
	101.6x58.1x41.0 mm (4 in x 2 3/8 in × 1 5/8 in)				
	WEIGHT (CIPA COMPLIANT)				
				<u>├</u>	
	Approx. 299 g (10.5 oz)(Battery and Memory Stick Duo are				
94	included) / Approx. 272 g (9.6 oz)(Body Only) Digital Multimeter	-	1	7,000.00	7 000 00
34	DCV: 400m/4/40/400/1000V	рс	1	1,000.00	7,000.00
	ACV: 4/40/400/1000V ±(1.2%+7)			<u>├</u>	
	$DCA: 400\mu/4000\mu/4000m/400m/4/10A$			<u>├</u>	
	ן אַראָראָראָראָראָראָראָראָראָראָראָראָראָר				



	A C A . 400/4000/40.m./4/00.m./4/40.A		1	Г Г	
	ACA: 400µ/4000µ/40m/400m/4/10A				
	Resistance: 400/4k/40k/400k/4M/40MΩ				
	Capacitance: 50n/500n/5µ/50µ/100µF				
	Frequency: 5/50/500/5k/50k/100kHz				
	Continuity: Buzzer sounds and LED lights up at between				
	$0\Omega$ and $85\Omega$ (±45 $\Omega$ ). Open voltage:Approx. 0.4V				
	Diode test: Open voltage:approx.1.5V				
	Battery Check: Approximate value (30 $\Omega$ load) 1.5V				
	battery only				
	Display numeral display: 4000				
	Sampling rate: 3 times/sec.				
	Bandwidth: 40~400Hz (Sine wave)				
	Fuse: 0.5A/1000V 30kA				
	Ф10×38mm				
	Battery: R6Px2				
	Battery life: Approx.400h (manganese battery) at DCV				
	rangeSafety: IEC61010CAT. III 600V/CAT. II 1000VDCV:				
	400m/4/40/400/1000V				
	ACV: 4/40/400/1000V ±(1.2%+7)				
	DCA: 400µ/4000µ/40m/400m/4/10A				
	ACA: 400µ/4000µ/40m/400m/4/10A				
	Resistance: 400/4k/40k/400k/4M/40MΩ				
	Capacitance: 50n/500n/5µ/50µ/100µF				
	Frequency: 5/50/500/5k/50k/100kHz				
	Continuity: Buzzer sounds and LED lights up at between				
	$0\Omega$ and $85\Omega$ (±45 $\Omega$ ) . Open voltage:Approx. 0.4V				
	Diode test: Open voltage:approx.1.5V				
	Battery Check: Approximate value (30Ω load) 1.5V				
	battery only				
	Display numeral display: 4000				
	Sampling rate: 3 times/sec.				
	Bandwidth: 40~400Hz (Sine wave)				
	Fuse: 0.5A/1000V 30kA \ \ 0.35×32mm 10A/1000V 30kA				
	410×38mm				
	Battery: R6Px2				
	Battery life: Approx.400h (manganese battery) at DCV				
	range				
	Safety: IEC61010CAT. II 600V/CAT. II 1000V				
95	Electronics Tools and Instruments	lot	1	138,000.00	138,000.00
55	Digital Multimeter -> 10 units			100,000.00	100,000.00
	For measuring AC & DC current, resistance, capacitance,				
	continuity, frequency, duty cycle and diode				
	Toolbox -> 2 units				
	Dimensions: 494 x 263 x 250 mm				
	With removable tote tray				
	Lineman Pliers Set -> 1 unit				
	3-pc Set of Insulated Chrome Vanadium Steel of:				
	Regular pliers, Long Nose pliers, and Diagonal Cutting	1			
	pliers				
	Extra Long Nose Pliers Set -> 1 unit				
	1 pc. 0° Plier Length: 285mm/ 11.22inch.				
	1 pc. 45° Plier Length: 280mm/ 1102inch.				
	ן ו אָט. אָט דוופו בפווענוו. 2001ווווו/ 1102ווונוו.		l		



	1 no. 00° Dijer Longth: 26Emm/ 10. 42inch	T			
	1 pc. 90° Plier Length:265mm/ 10.43inch.				
	1 pc. O Shape Plier Length: 275mm/ 10.83inch.				
	Multi-functional automatic wire stripping pliers -> 1 unit				
	Self-adjusting Automatic Wire Stripper/Cutting Pliers for				
	wire stripping, cutting, crimping, and installing TAB				
	Terminal				
96	HAIER HSU-18NSV13(DC) Board	рс	1	4,000.00	4,000.00
	PCB NO.A 500201 - 100Q;				
97	Hard Drive (2 TB)	рс	1	3,000.00	3,000.00
98	Tablet 10.9", 64GB, Wifi + Cellular	unit	1	42,000.00	42,000.00
	■64GB Storage Capacity				
	A14 Bionic chip with 64-bit architecture, Neural Engine				
	■10.9-inch (diagonal) LED-backlit Multi-Touch display with				
	IPS technology				
	■2360-by-1640-pixel resolution at 264 pixels per inch (ppi)				
	■Wide color display (P3)				
	■True Tone display				
	Fingerprint-resistant oleophobic coating				
	Fully laminated display				
	Antireflective coating				
	■12MP Wide camera				
	■f/1.8 aperture				
	Five-element lens				
	■Hybrid IR filter				
	■4K video recording at 24 fps, 30 fps, or 60 fps				
	■1080p HD video recording at 30 fps or 60 fps				
	Slo-mo video support for 1080p at 120 fps or 240 fps				
	7MP photos				
	■f/2.2 aperture				
	■1080p HD video recording at 60 fps				
	Wide color capture for photos and Live Photos				
	Smart HDR				
	<ul> <li>Stereo speakers</li> <li>Dual microphones for calls, video recording, and audio</li> </ul>				
	eDual microphones for calls, video recording, and audio recording				
	Besterning Besternin				
	5GHz); HT80 with MIMO				
	©UMTS/HSPA/HSPA+/DC-HSDPA (850, 900, 1700/2100,				
	1900, 2100 MHz); GSM/EDGE (850, 900, 1800, 1900				
	MHz)				
	■Gigabit-class LTE (Bands 1, 2, 3, 4, 5, 7, 8, 11, 12, 13, 14, 17, 18, 19, 20, 21, 25, 26, 29, 30, 34, 38, 39, 40, 41,				
	66, 71)4				
	Bluetooth 5.0 technology				
99	Temperature-Humidity Data Logger	рс	5	2,000.00	10,000.00
	Portable and hand-held				
	16000 data recording capacity.				
	Adjustable record interval: 10s~24hour				



	Multi-function LCD			I	
	Internal NTC temperature thermal sensor with optional				
	external sensor				
	Data export in PDF/EXCEL via data management software				
	Selectable °F/°C temperature unit				
	©Size: approx. 84 (L) x 44(W) x 20 (H) mm				
	Good quality				
	Durable				
100	UPS, Smart UPS, 2000VA	рс	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	1			
101	Various Electronic Components and Supplies	lot	1	59,500.00	50 500 00
	HDMI Cable > 10 unite	+	$\left  \right $		59,500.00
	HDMI Cable -> 10 units 10 meters		$\left  \right $		
	830 breadboard set electronic component basic starter				
	kit with breadboard cable resistor capacitor led				
	potentiometer -> 20 units		$\left  \right $		
	1 power supply				
	1 830-point breadboard		$\left  \right $		
	65 pcs jumper wires				
	140 pcs solderless jumper wires				
	20 pcs female-to-male dupont wire				
	2 pcs pin header (40 pin)				
	1 precision potentiometer	ļ			
	2 photoresistors				



1 thermister			
1 thermistor			
5 pcs rectifier diode (1N40007)			
5 pcs NPN transistor (PN2222)			
1 IC 4N35			
1 IC 74HC595			
1 active buzzer			
1 passive buzzer			
10 pcs button (small)			
10 pcs 22pF ceramic capacitor			
10 pcs 104 ceramic capacitor			
5 pcs electrolytic capacitor (10uF, 50V)			
5 pcs electrolytic capacitor (100uF, 50V)			
10 pcs white LED			
10 pcs yellow LED			
10 pcs blue LED			
10 pcs green LED			
10 pcs red LED			
10 pcs RGB LED			
10 pcs 10R resistor			
10 pcs 100R resistor			
10 pcs 220R resistor			
10 pcs 330R resistor			
10 pcs 1K resistor			
10 pcs 2K resistor			
10 pcs 5K1 resistor			
10 pcs 10K resistor			
10 pcs 10K resistor			
10 pcs 1M resistor			-
Single-Sided Copper Clad Board FR4 With 35µm			
Copper Thick, 200 x 300 x 1.6mm -> 2 units			
PCB Developing Kit with Transfer Film -> 1 unit			
Non-Corrosive Soldering Paste (used for welding and			
desoldering) -> 1 unit			
Soldering Iron -> 6 units			
Mini Soldering Iron with Adjustable Temperature, 60W			
Soldering Iron Stand -> 6 units			
Stainless Steel spiral, 90mm long			
Desoldering Pump -> 2 units			
Replaceable and Self Cleaning tip			
Sealed vacuum chamber			
Microcontroller -> 10 units			
microcontroller board (ATmega328P based)			
14 digital inputs/outputs (six of which can be used as PWM			
outputs)			
six analog inputs			
has a 16MHz ceramic resonator			
has a USB-C connector			
has a reset button			
CIRCUIT OPERATING VOLTAGE: 5V		1	
INPUT VOLTAGE (LIMIT): 6-12V			
BATTERY CONNECTOR: None.	<u> </u>		



	DC CURRENT PER: I/O PIN 20 mA	1	Г		
	DC CURRENT FOR: 3.3V PIN 50 mA				
	MAIN PROCESSOR: ATmega328P 16 MHz				
	USB-SERIAL PROCESSOR: ATmega16U2 16 MHz				
	MEMORY: ATMEGA328P 2KB SRAM, 32KB FLASH, 1KB EEPROM				
102	Wifi Access Point (Existing fleet of VSU Access Points)	unit	1	12,000.00	12,000.00
	UAP-nanoHD				
	Dimensions: 160 x 160 x 32.65 mm (6.30 x 6.30 x 1.29")				
	Weight: 300 g (10.6 oz)				
	With Mounting Kits: 315 g (11.1 oz)				
	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: 23 dBm				
	5 GHz: 26 dBm				
	MIMO				
	2.4 GHz: 2x2				
	5 GHz: 4x4				
	Radio Rates				
	2.4 GHz: 300 Mbps				
	5 GHz: 1733 Mbps				
	Antennas				
	2.4 GHz: (2) Single-Port, Single-Polarity Antennas, 2.8 dBi				
	each				
	5 GHz: (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+	ł			
	Supported Data Rates (Mbps)	ł			
	Standard Data Rates	ł			
	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 Gpbs (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				
103	Large-Diaphragm Cardioid Condenser Microphone	unit	2	17,500.00	35,000.00
	For Voice, Instruments, Drums, and Cabs				
	Cardioid Pattern Lessens Room Noise				
	Switchable -10 dB Pad Hinders Distortion				
	Low-Cut Filter Limits Bass Buildup				
	Shockmount Inhibits Vibration Noise				
	Large-Diaphragm True Condenser Capsule				
	Handles Immense Sound Pressure Levels				
	Includes Protective Case and Dust Cover				
	XLR Output for Hookup to Mic Preamp				
	Operates on 48V Phantom Power				
	Microphone				
	Form Factor: Large Diaphragm Mic / Stand/Boom Mount				
	Intended Sound Sources: Vocals, Speech/Voice Over,				
	Instrument				
	Sound Field: Mono				
	Operating Principle: Pressure Gradient				
	Capsule: Condenser				
	Polar Pattern: Cardioid				
	Performance				
	Frequency Range: 20 Hz to 20 kHz				
	Maximum SPL: 145 dB SPL (1 kHz, 1% THD)				
	155 dB SPL (1 kHz, 1% THD, with Pad)				
	Impedance: 100 Ohms				
	Sensitivity: -32 dBV/Pa				
	Dynamic Range: 133 dB (1 kHz, at Max SPL)				
	Signal-to-Noise Ratio: 82 dB (1 kHz)				
	Equivalent Noise Level: 12 dB SPL A-Weighted				
	Power				
	Operating Voltage: 48 V (Phantom Power)				
	Operating Current Consumption: 4.2 mA				
	Physical				
	Color: Black				
	Mounting: Shockmount (Included)				
	Included Case: Hard Case, Mic Sock				
	Included Filters: None				
	Dimensions: ø: 2.1 x L: 6.69" / ø: 5.3 x L: 16.99 cm	1			
	Weight: 12.7 oz / 360 g				
104	SDI to HDMI Converter Bidirectional	units	4	5,750.00	23,000.00
	"Video Inputs: 1 x BNC (3G-SDI), 1 x HDMI (HDMI 2.0)				
	Audio Inputs: None				
	Video Outputs: 1 x BNC (3G-SDI), 1 x HDMI (HDMI 2.0)				
<b>⊢</b> −−−∔	Audio Outputs: None				
	Other I/O <sup>-</sup> 1 x USB-C Input				
	Other I/O: 1 x USB-C Input Expansion Slots: None				
	Other I/O: 1 x USB-C Input Expansion Slots: None Embedded Audio: HDMI/SDI				



	Power Consumption: 2.5 W"				
105	Headset, Over Ear, wired	sets	2	750.00	1,500.00
	Wearing Type: Over-ear				
	Microphone: Yes				
	■Volume Control: Yes				
	■One Key Mute Button: Yes				
	Microphone: Omnidirectional				
	■Plug Type: 3.5mm				
	■Speaker Diameter: 50mm				
	Receive Sensitivity: 101dB				
	Impedance: 32Ω				
	Frequency Response: 20-20kHz				
106	Speaker, for PC, 2.1 (Speaker with Subwoofer)	DC	1	1,500.00	1,500.00
	Power Output : rms 4.5w×2 sw: 12w	F -		.,	-,
	Signal to noise ratio : 80dba				
	Every series rate result Series and restimation and result Series and result <td></td> <td></td> <td></td> <td></td>				
	$\square R/I: 300\pm 50mv$ sw: 100 ± 20mv				
	Aux/USB/SD card				
	Bass driver :4 inch				
	Treble driver :2 3/4 inch				
107	Web Camera for Laptop and Desktop	<b>no</b>	1	720.00	720.00
107	About 360 degrees, rotate up and down 45 degrees, you	рс	1	120.00	720.00
	can adjust the angle.				
	With clips for laptops and desktops.				
	Sensor pixels: 2 million				
	Interface: USB 2.0				
	GFrame rate: 30 FPS				
	Image sensor: CMOS				
	Brightness/color: automatically adjusts				
	Additional features: built-in microphone				
108	System Unit (CPU), Core i7 8GB RAM	units	2	40,000.00	80,000.00
	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 PCIe 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				
109	VOIP Phone	units	2	10,000.00	20,000.00
	■1-Line PoE+ SIP VOIP Phone SPA MAC address (IEEE				
	802.3) with lifetime warranty				
	IPv4 (RFC 791)Integrated web server provides web-				
	based administration and configuration				
	Telephone keypad configuration via display				
	menu/navigation				
	Automated provisioning and upgrade via HTTPS, HTTP, TFTP				
	Asynchronous notification of upgrade availability via NOTIFY				



	Nonintrusive in-service upgrades				
	Nonintrusive in-service upgrades				
	Report generation and event logging				
	Statistics transmitted in BYE message				
	Syslog and debug server records: configurable per line				
	Address Resolution Protocol (ARP)				
	DNS: A record (RFC 1706), SRV record (RFC 2782)				
	Dynamic Host Configuration Protocol (DHCP) client (RFC				
	2131)				
	■Internet Control Message Protocol (ICMP) (RFC 792)				
	■TCP (RFC 793)				
	Output State St				
	Real-Time Transport Protocol (RTP) (RFC 1889, 1890)				
	Real-Time Control Protocol (RTCP) (RFC 1889)				
	Differentiated Services (DiffServ) (RFC 2475)				
	■Type of service (ToS) (RFC 791, 1349)				
	■VLAN tagging 802.1p/Q: Layer 2 quality of service (QoS)				
	Simple Network Time Protocol (SNTP) (RFC 2030)SIP				
	version 2 (RFC 3261, 3262, 3263, 3264)				
	SPCP with the Cisco Unified Communications 500 Series				
	SIP proxy redundancy: dynamic via DNS SRV, A records				
	Reregistration with primary SIP proxy server				
	SIP support in NAT networks (including STUN)				
	■SIPFrag (RFC 3420)				
	Secure (encrypted) calling via SRTP				
	Codec name assignment				
	Voice algorithms:				
	■G.711 (A-law and µ-law)				
	■G.726 (16/24/32/40 kbps)				
	■G.729 A				
	<b>©</b> G.722				
	Dynamic payload support				
	Adjustable audio frames per packet				
	Dual-tone multifrequency (DTMF), in-band and out-of-				
	band (RFC 2833) (SIP INFO)				
	Image: A set of the set of t				
	IP address/URI dialing support				
	Call progress tone generation				
	Jitter buffer: adaptive				
	Frame loss concealment				
	Comfort Noise Generation (CNG)				
	Voice activity detection (VAD) with silence suppression				
	avoice deamly detection (VAB) with silence suppression adjustments		1		
	WMWI - Voicemail Waiting Indicator, via NOTIFY,				
	SUBSCRIBE				
	Caller ID support (name and number)		-		
	Third-party call control (RFC 3725)				
	Should be compatible with existing fleet of VSU IP	<u> </u>			
	Phones				
110	Laptop Cooling Pad 14"	pcs	3	500.00	1,500.00
- 10	1.one 14cm big LED light fan	- p03			1,000.00
	2.metal mesh material				
	3. Powered by USB cable from laptop				
L	o. Towered by ood cable nonnaptop	L	<u> </u>		



	4.Support size:12"-14"laptop				
	5.Color:black.				
111	Rechargeable Wireless Keyboard and Mouse Set	unit	3	950.00	2,850.00
	Rechargeable Office Wireless Keyboard and Mouse Set		-		_,
	■Size: 284*121*16.mm				
	Weight: 280g				
	Connection method: USB receiver/Bluetooth				
	Rebidding - VSU-GOODS-23-35				
	Coffee Maker Machine, Touch-Screen 10-cups				
112	Programmable with Glass Carafe, Stainless Steel	рс	1	2,300.00	2,300.00
113	Colored Digital Photocopier	unit	1	150,000.00	150,000.00
	Full color digital copier with network printing, color	Gint		,	100,000.00
	scanning and network fax				
	Copy and print speed of 30 copies per minute, A4				
	7-inch color touch screen panel				
	CPU: dual core 1.2 GHz				
	Paper size from A6R to Legal Size				
	Standard memory capacity is 1GB, max 3GB Plus 128GB				
	SSD option				
	Paper capacity of 250 sheets cassette and 100 sheets				
	multipurpose tray				
	Built-in 75-sheets reversing document processor and				
	stackless duplex unit				
	Compatible with windows, macintosh and linux				
	Scan to SMB/E-mail/FTP/USB host/Box, Network Twain				
	scan and WSDScan				
	Low power consumption Copying: 512w or less, Sleep				
	mode: 0.6W				
	Super G3Fax, Stand-alone network connection				
	Maintenance Kit of 200,000 copies				
	With lifetime service				
114	Cordless Kettle	unit	30	1,200.00	36,000.00
117	Electric Glass Kettle, Cordless	unit		1,200.00	00,000.00
	HWK-118GI				
	Power: 230V - 60Hz, 2000W				
	Capacity: 1.8L				
	360 degree rotary base, easy to use with high borosilicate				
	glass body,				
	Durable and stain resistant blue LED light indication when				
	boiling Concealed stainless steel				
	heating element Automatic one button cover starter boiling				
	dry protection Automatically				
	turns off when water boiled.				
115	Stencil Digital Duplicator Machine	unit	1	100,000.00	100,000.00
110	Print Speed: 60 - 90 Sheets Per Minute (2 Steps)	unit		100,000.00	100,000.00
	Resolution: 300 x 300 dpi				
	Printing Process: Fully Automatic One Drum Stencil				
	System				
	Minimum Print Paper Size: 90 x 140 mm				
	Maximum Print Paper Size: 275 x 395 mm				
	Print Paper Weight: 35.0-127.9 g/m2				



-		1			
	First Print Speed: Less Than 40 Seconds				
	Features:				
	Auto background correction, auto cycle, photo/letter mode,				
	tint mode, SP mode (for technical service use only),				
	combine two originals, spot colour printing with optional				
	colour drum units.				
	Options				
	USB controller printer unit type VC-20				
	Interface board type 20				
	Colour drum type 20 (B4)				
	Cabinet				
	Priport <sup>™</sup> master type (100 masters per roll, B4)				
	Priport™ black ink type (500 ml)				
	Digital Duplicator colour ink type II (600 ml): red, blue,				
	yellow, green, purple,				
	navy, brown, maroon, orange, teal				
	CM ink (custom-made colours, 500 ml)				
	Specifications:				
	Image modes: Letter mode, Photo mode, Photo/Letter				
	mode				
	Image position: Vertical: ±10 mm, Horizontal: ±10 mm				
	Reproduction ratios: Pre-set enlargement: 115, 122, Pre-				
	set reduction: 71, 82, 87, 93%				
	Zoom: No				
	Colour printing: By replacing colour, drum				
	Paper feed/delivery table: 500 sheets (80 g/m <sup>2</sup> )				
	Power source: 220-240 V, 50 – 60 Hz				
	Power consumption				
	Maximum: Master making: less than				
	175 W				
	Printing: Less than 175 W (at 90 sheets per minute)				
	Standby: 35 W				
	Dimensions (W x D x H): 1,232 x 672 x 519 mm				
	Weight: 55kg				
116	Microwave Oven, 20L	unit	4	5,000.00	20,000.00
	20-Liter				
	220V				
	Electronic Control				
	LCD Display				
	700w microwave power				
	6 autocook functions	1			
	Reheat and defrost capacity	1			
	Dimension: ( h:w:d ) 10.35 x 18 x 14 in	1			
	Warranty: One year on service, 2 years on parts				
117		, unit	1	12 000 00	12 000 00
11/	Paper shredder machine, heavy duty	unit		12,000.00	12,000.00
	Shred Type: Cross Cut				
	Maximum Sheet capacity(70gsm) : 10 Sheets				
	Waste Container capacity: 21 Liters				
	Power Source: 220 - 240 VAC				
118	Washing Machine Heavy DutyWasher	unit	2	60,000.00	120,000.00
	15 kg. IEC Rated Capacity U.S Heavy Duty Washer				



	TOTAL:	6,862,354.00
Dimension (h:w:d) 109.22 : 69:85 : 68.58 cm		
Color: White		
Child Lid Lock		
White Porcelain Tub		
Galvanized Heavy Duty Body		
Extra Rinse Selection		
Load Size Selection		
Wash Temperature Selection		
Soil Level Selection		
Deep Water Wash System		
Mechanical Control panel		
Liquid Bleach Dispenser		
Fabcon Dispenser		
Dual Action Agitator		
6th Sense Technology		
Delicate Cycle		
Whites Cycle		
Quick Wash Cycle		
11 Wash Cycles		

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DILBERTO O. FERRAREN BAC Chairman