

# TECHNICAL SPECIFICATIONS

Stock/ Property No.	Quantity	Unit	Item Description
			<b>ICT EQUIPMENT</b>
			<b>DESKTOP COMPUTER</b>
1	3	units	<i>End-user: 2 Marketing &amp; Communication (now: PASCom) &amp; 1 Campus Headliner</i>
			<b>Specs:</b> Branded PC Dual Monitor Display Panel Size (inch) : 23.8 Aspect Ratio : 16:9 Display Viewing Area (H x V) : 527.04 x 296.46 mm Display Surface : Non-Glare Backlight Type : LED Panel Type : IPS Viewing Angle (CR $\geq$ 10, H/V) : 178°/ 178° Pixel Pitch : 0.2745mm Resolution : 1920x1080 Brightness (Typ.) : 250cd/m <sup>2</sup> Contrast Ratio (Typ.) : 1000:1 Smart Contrast Ratio (ASCR) : 10000000:1 Display Colors : 16.7M Response Time : 1ms MPRT Refresh Rate (Max) : 144Hz Flicker-free : Yes Video Feature Trace Free Technology : Yes SPLENDID Technology : Yes Color Temp. Selection : Yes(4 modes) GamePlus : Yes QuickFit : Yes HDCP : Yes Extreme Low Motion Blur : Yes VRR Technology : FreeSync™ Premium Low Blue Light : Yes Audio Feature Speaker : Yes(2Wx2) I/O Ports

			<p>           DisplayPort 1.2 x 1            HDMI(v1.4) x 1            VGA x 1            PC Audio Input : Yes            Signal Frequency            Digital Signal Frequency : 30~180 KHz (H) / 48~144 Hz (V)            Analog Signal Frequency : 30~84 KHz (H) / 48~75 Hz (V)            Power Consumption Power Consumption : &lt;16W*Power Saving Mode : &lt;0.5W            Off Mode : &lt;0.5W            Voltage : 100-240V, 50/60Hz            Mechanical Design            Tilt : Yes (+20° ~ -5°)            Height Adjustment : No            VESA Wall Mounting : 100x100mm            Kensington Lock : Yes            Dimensions (Esti.)            Phys. Dimension with Stand (W x H x D) : 540.50 x 389.34 x 204.42 mm            Phys. Dimension without Stand (W x H x D) : 540.50 x 325.24 x 51.67 mm            Box Dimension (W x H x D) : 599 x 446 x 136 mm            Weight (Esti.)            Net Weight with Stand : 3.56 Kg            Net Weight without Stand : 3.07 Kg            Gross Weight : 5.8 Kg            Accessories            Power cord            HDMI cable            Quick start guide            Warranty Card            Operation Temperature / Humidity            Operation temperature : 0~+40°C            Certificate            TÜV Flicker-free            TÜV Low Blue Light            System Unit – Pre build            Operating System            Windows 10 Home - Windows 11 Pro for business            Free Upgrade to Windows 11<sup>1</sup> (when available, see below)            Processor            AMD Ryzen™ 9 3900X Processor (12C/24T, 70MB Cache, 4.6 GHz Max Boost)            Chipset            AMD® X570 Chipset            Graphics            NVIDIA® GeForce® RTX 2070S 8GB : 1x HDMI, 3x DP            Memory            16GB DDR4-3200 LO-DIMM            SATA            8 x SATA 6.0Gb/s ports         </p>
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			<p>Storage</p> <p>2TB SATA 7200RPM 3.5" HDD</p> <p>1TB M.2 NVMe™ PCIe® 3.0 SSD</p> <p>Front I/O Ports</p> <p>2x USB 3.2 Gen 1 Type-A</p> <p>2x USB 3.2 Gen 1 Type-C</p> <p>1x Headphone</p> <p>1x Microphone</p> <p>Rear I/O Ports</p> <p>4x USB 3.2 Gen 1 Type-A</p> <p>1x USB 3.2 Gen 2 Type-C</p> <p>3x USB 3.2 Gen 2 Type-A</p> <p>1x Mic-in</p> <p>1x Rear Speaker Out</p> <p>1x Center / Sub Woofer</p> <p>1x Front Speaker Out (Line Out)</p> <p>1x Line-in</p> <p>1x S/PDIF-Out</p> <p>1x RJ45 Gigabit Ethernet</p> <p>1x HDMI-Out</p> <p>1x DisplayPort</p> <p>Expansion Slots</p> <p>2 x PCIe® 4.0 x1 (when using vertical graphic card, PCIe 4.0 x1 is not available)</p> <p>3 x PCIe® 4.0 x16 (when using vertical graphic card, other PCIe 4.0 x16 slots are not available)</p> <p>2 x M.2 connector for SSD</p> <p>4 x DDR4 U-DIMM Slots</p> <p>Network and communication</p> <p>Wi-Fi 5 (802.11ac)+Bluetooth 5.0 (Dual band) 2*2 ;(*BT version may change with OS upgrades.)</p> <p>Power Supply</p> <p>700W 80 PLUS (GOLD)</p> <p>Weight</p> <p>15.0 Kg</p> <p>Dimensions (W x D x H)</p> <p>27.90 x 43.30 x 50.10 cm</p> <p>Included in the Box (Optional)</p> <p>USB Keyboard / Mouse</p> <p>VGA Installation Type</p> <p>Horizontal</p> <p>Thermal</p> <p>240mm Liquid Cooler</p> <p>AURA SYNC</p> <p>Yes</p>
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2	1	unit	<i>End-user: Information System</i>
			<p><b>Specs:</b>          Branded PC          Color: Star Black          Processor: AMD Ryzen 7-3700X          Memory: 16GB RAM          Storage: 1TB HDD+1TB SSD          Graphics: NVIDIA RTX 2080S 8GB          Chipset: AMD® X570 Chipset          Thermal: 105W Air Cooler          Front I/O Ports          2x USB 3.2 Gen 1 Type-A          2x USB 3.2 Gen 1 Type-C          1x Headphone          1x Microphone          Rear I/O Ports          4x USB 3.2 Gen 1 Type-A          1x USB 3.2 Gen 2 Type-C          3x USB 3.2 Gen 2 Type-A          1x Mic-in          1x Center / Sub Woofer          1x Front Speaker Out (Line Out)          1x Line-in          1x S/PDIF-Out          1x RJ45 Gigabit Ethernet          2x HDMI-Out          1x DisplayPort          Expansion Slots          2 x PCIe® 4.0 x1          3 x PCIe® 4.0 x16          2 x M.2 connector for SSD          4 x DDR4 U-DIMM Slots          Network and Communication          Wi-Fi 5 (802.11ac)+Bluetooth 5.0 (Dual band) 2*2 ;(*BT version may change with OS upgrades.)          Power Supply          700W 80 PLUS          Weight: 15.0 Kg          Dimension WxDxH          27.90 x 43.30 x 50.10 cm</p>
3	2	units	<i>End-user: Civil Engineering</i>
			<p><b>Specs for Desktop:</b>          Processor: AMD Ryzen 7 3800X 8-Core Processor 3.9 GHz (32M Cache, up to 4.5 GHz)          Graphics: NVIDIA GeForce RTX 2080 Super 8GB</p>

			<p>Memory: 16GB DDR4-3200 LO-DIMM x 2  SATA: 8 x SATA 6.0Gb/s ports  Storage: 1TB 7200RPM 3.5" HDD + 512GB M.2 NVMe PCIe® 3.0 Performance SSD  Operating System: Windows 10  Front I/O Ports  2x USB 3.2 Gen 1 Type-A  2x USB 3.2 Gen 1 Type-C  1x Headphone  1x Microphone  Rear I/O Ports  4x USB 3.2 Gen 1 Type-A  1x USB 3.2 Gen 2 Type-C  3x USB 3.2 Gen 2 Type-A  1x Mic-in  1x Rear Speaker Out  1x Center / Sub Woofer  1x Front Speaker Out (Line Out)  1x Line-in  1x S/PDIF-Out  1x RJ45 Gigabit Ethernet  2x HDMI-Out  1x DisplayPort  Expansion Slots  2 x PCIe® 4.0 x1  3 x PCIe® 4.0 x16  2 x M.2 connector for SSD  4 x DDR4 U-DIMM Slots  Cooling Solution  240mm Liquid Cooler  Chassis Feature Transparent side panel  Network and communication Wi-Fi 5 (802.11ac)+Bluetooth 5.0 (Dual band) 2*2 ;(*BT version may change with OS upgrades.)  Power Supply 700W 80 PLUS (GOLD)  Weight 15.0 Kg  Dimensions (W x D x H) 27.90 x 43.30 x 50.10 cm  Included in the Box: Keyboard and Mouse  Yes  Liter/Volume 45L  Drive Bays 3.5" x 2  Form Factor ATX  Size 45L</p>
			<p><b>Specs for Monitor:</b>  Display  Panel Size: Wide Screen 23.0"(58.4cm) 16:9  Color Saturation : 72%(NTSC)  Panel Type : In-Plane Switching  True Resolution : 1920x1080  Display Viewing Area(HxV) : 509.2 x 286.4 mm  Display Surface Non-glare  Pixel Pitch : mm  Brightness(Max) : 250 cd/㎡;  Contrast Ratio (CR) : 80000000:1</p>

			<p>Viewing Angle (CRâ%§10) : 178Å°(H)/178Å°(V)  Response Time : 5ms (Gray to Gray)  Display Colors : 16.7M  Flicker free  Video Feature  SPLENDID Video Preset Modes : 8 Modes (sRGB Mode/Scenery Mode/Theater Mode/Standard Mode/Night View Mode/Game Mode/Reading Mode/Darkroom Mode)  Skin-Tone Selection : 3 Modes  Color Temperature Selection : 4 Modes  QuickFit (modes) : Yes (Letter/B5/Alignment Grid/Photo Modes)  GamePlus(modes) : Yes (Crosshair/Timer)  Low Blue Light : Yes  HDCP support :  VividPixel : Yes  Audio Features  Stereo Speakers : 1.5W x 2 Stereo RMS  Convenient Hotkey  Blue Light Filter  Brightness Adjustment  Input Selection  QuickFit  I/O PortsSignal Input : HDMI, D-SubPC Audio Input : 3.5mm Mini-JackSignal FrequencyAnalog Signal Frequency : 54~85.5 KHz(H)/ 48~76Hz(V)Digital Signal Frequency :Power ConsumptionPower On Mode : &lt;24W*Power Saving Mode : &lt; 0.5WPower Off Mode : &lt;0.5WVoltage : 100-240V, 50 / 60HzMechanical DesignChassis Colors : BlackTilt : +22Å°~-5Å°Slim Design : YesFrameless Design : Yes  Security  Kensington lock  Dimensions  Phys. Dimension with Stand (WxHxD): 531 x 387 x 211 mm  Box Dimension (WxHxD): 597 x 500 x125 mm  Weight  Net Weight (Esti.) : 2.7 kg  Gross Weight (Esti.) : 4.2 kg  Accessories  VGA cable(Optional)  Audio cable(Optional)  Power cord  Power adapter  Quick start guide  HDMI cable (Optional)  Warranty Card  Compliance and Standards  Energy StarÅ®, BSMI, CB, CCC, CE, CEL level 1, C-Tick, CU, EPEAT () by region , ErP, FCC, RoHS, UL/cUL, VCCI, WEEE, WHQL (Windows 10, Windows 8.1,</p>
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			Windows 7), TUV Flicker-free , TUV Low Blue Light Note *measuring a screen brightness of 200 nits without audio/ USB/ Card reader connection
4	1	unit	<i>End-user: Campus Headliner</i>
			<b>Specs:</b> Processor: Intel Core i7 11th Generation Memory: 8 GB DDR4 2666 MHz UDIMM Upgradable Memory: Up to 32 GB of Dual-channel DDR4 2666 MHz Storage: 1TB M.2 SSD + 1 TB 3.5-inch 7200 RPM GPU: NVIDIA® GeForce® RTX 2060 8GD GDDR6 Sound Card: Integrated high-definition, 5.1-channel surround sound WLAN 802.11ac/a/b/g/n wireless LAN and Bluetooth® 4.2 LE Gigabit Ethernet Front/Side I/O connectors Audio jack(s): 2 USB 3.1 Gen 1 port(s): 1 USB Type-CTM port(s): 1 Rear I/O connectorsHDMI port(s): 2 (out)LAN port(s): 1Audio jack(s): 3USB 2.0 port(s): 2USB 3.1 Gen 1 port(s): 4 Number of PCIe x16 slot(s): 0Number of PCIe x1 slot(s): 1USB Wired Keyboard & Wired Mouse Monitor Size: 23.6in Input: VGA + DVI + HDMI Max Res.: 1920x1080 @60Hz Technology: VA Colors: 16.7 Million Glare: None Response Time: 5ms With DVI & HDMI Cables
5	1	unit	<i>End-user: CAN</i>
			<b>Specs:</b> All-in-One PC Processor: 11th Gen Intel® Core? i7-1165G7 processor Memory: 8GB soDIMM DDR4, Up to 16 GB of Dual-channel DDR4 2666 MHz Storage: 512 GB M.2 2280 PCI-E SSD Graphics: NVIDIA® GeForce® MX330 with 2 GB of GDDR5 Webcam and Mic: Integrated 1.0 MP HD webcam with 2 stereo microphones Audio: DTS® Audio Audio, Built-in stereo speakers WLAN: Wireless LAN 802.11ac + Bluetooth® 5.0 LE LAN: Gigabit Ethernet Rear I/O connectors - HDMI port(s(sad) 1 (out) - LAN port(s(sad) 1

			<ul style="list-style-type: none"> <li>- Audio jack(s)(sad) 2</li> <li>- USB 3.2 Gen2 Type A port(s)(sad) 4"</li> <li>- M.2 slot (for SSD)(sad) 1</li> <li>- M.2 slot (for WLAN)(sad) 1"</li> </ul> <p>135 W  USB Wired Keyboard &amp; Wired Mouse  Built-in stereo speakers  Display:  <ul style="list-style-type: none"> <li>- Touch support: N</li> <li>- Size: 27in</li> <li>- Display max resolution: 1920*1080</li> <li>- Backlight: LED</li> <li>- Brightness (cd/m2)(sad) 200nits</li> <li>- Aspect ratio: 16:9</li> <li>- Panel Tech:: IPS"</li> </ul> </p>
6	2	units	<i>End-user: Information System</i>
			<p><b>Specs:</b>  Processor: Intel Core i7 11th Generation  Memory: 8 GB DDR4 2666 MHz UDIMM  Upgradable Memory: Up to 32 GB of Dual-channel DDR4 2666 MHz  Storage: 1TB M.2 SSD + 1 TB 3.5-inch 7200 RPM  GPU: NVIDIA® GeForce® GT 1030 with 2 GB of DDR5 (supporting: DVI-D, HDMI®)  Sound Card: Integrated high-definition, 5.1-channel surround sound  LAN: Gigabit Ethernet  Front/Side I/O connectors:  Audio jack(s): 2  USB 3.1 Gen 1 port(s): 1  USB Type-CTM port(s): 1  Rear I/O connectors:  LAN port(s): 1  USB 2.0 port(s): 2  USB 3.1 Gen 1 port(s): 4  Number of PCIe x16 slot(s): 0  Number of PCIe x1 slot(s): 1  USB Wired Keyboard &amp; Wired Mouse  Win 10 Home SL 64 Bit with Office for Home &amp; Student  Monitor:  Size: 23.6in  Input: VGA + DVI + HDMI  Max Res.: 1920x1080 @60Hz  Technology: VA  Colors: 16.7 Million  Glare: None</p>



			Response Time: 5ms With DVI & HDMI Cables
7	8	units	<i>End-users: (4)Research &amp; Innov., (2) Teach. Ed, (1)Int'l Affairs Office &amp; (1) Planning &amp; Development</i>
			<b>Specs:</b> Processor: Intel Core i5-11400U 8GB DDR4 2666 MHz UDIMM 256 GB M.2 2280 PCI-E SSD + 1 TB 3.5-inch 7200 RPM NVIDIA® GeForce® GT 1030 with 2 GB of DDR5 (supporting: DVI-D, HDMI®) Windows 10 Win 10 Home SL 64 Bit with Office for Home & Student 23.8-in Monitor Integrated high-definition, 5.1-channel surround sound WLAN: 802.11ac/a/b/g/n wireless LAN and Bluetooth® 4.2 LE LAN: Gigabit Ethernet Front/Side I/O connectors Audio Jack(s): 2 USB 3.1 Gen 1 port(s): 1 USB Type-CTM port(s): 1 300W USB Wired Keyboard & Wired Mouse Input: VGA + HDMI With HDMI Cable 2 Year Parts - 2 Year Labor
8	1	unit	<i>End-user: MAA/IAS</i>
			<b>Specs:</b> <b>Monitor:</b> Resolution: 1920x1080 (max) Panel Type: VA Panel Panel Type: VA Panel Brightness: 250 cd/m2 Contrast: 100000000:1 Max (ACM) Response Time: 5ms (GTG) Viewing Angle: 178°(H), 178°(V) Color: Black Input Type: D-Sub/DVI/HDMI Power Rating: 100-240V~50/60Hz 1.5A (1.5A) Power cord: US (AAP) Speaker: NA Display size: 23.6"W/60cm Backlight : LED OS: Windows 10 Home 64-bit Office Home and Student 2019 included *Activation Required CPU: Intel Core i7-11700 processor RAM: 8GB DDR4 Memory

			<p>HDD: 1TB Hard Drive+256GB Solid-State Drive  Video: NVIDIA GeForce GT1030 2GB  Networking: Integrated LAN 10/100/1000  WLAN: Wifi-6-802.11ax wireless networking  Bluetooth 5.1-802.11 ac/a/b/g/n compatible  Keyboard: USB Keyboard  Mouse: USB Optical mouse  BIOS: RO1-A1  SPEAKER: USB Speakers  Set includes:  Webcam with built-in microphone for video conferencing/meetings ; Pro HD Webcam  Resolution 1080p@30fps  Field of View 78°  Installation Clip-on / Tripod  Operating System Windows 10  Additional Features Built-In Dual Mics</p>
9	2	units	<i>End-users: Student Programs &amp; Services and Students Devt Services</i>
			<p><b>Specs:</b>  Operating System: Windows 10  Display: 21.5", 16:9, NanoEdge, Full HD 1920x1080/, LED-backlight, IPS, 178 wide viewing angle  Touch Screen Non-touch  Processor: Intel Core i5-10210U  Chipset: Integrated  Graphic: nVidia Geforce MX110 with 2GB GDDR3 VRAM  Memory: 8GB SO-DIMM  DDR4 at 2400MHz  Storage: 512GB PCIe SSD M.2  Wireless Data Network: 802.11 ac, Bluetooth V4.1 , or 802.11 b/g/n, Bluetooth V4.0  LAN: 10/100/1000/Gigabits MbpsCamera: 1 M Pixel  Speaker: 2 x 3 W  Built-in Mic: Digital Array Mic  Side I/O Ports:  1 x USB 2.0  1 x Kensington Lock  1 x Audio Jack(s) (Mic/Headphone Combo)  Back I/O Ports:  4 x USB 3.1 Gen 1 Type-A  1 x HDMI-Out  1 x RJ45 LAN  1 x DC-in  Power Supply: 65 W Power adapter  Dimensions: 48.9 x 38.7 x 5.1 ~16.4 cm (WxHxD)  Weight: 4.84 kg  Color: White  Accessories: Keyboard+Mouse</p>

10	10	units	<i>End-user: Computer Engineering</i>
			<b>Specs:</b> OS: Windows 10 Home 64-Bit Processor: 10th GEN Intel Core i5-10400 Processor 2.90 GHz 12M Cache, up to 4.30 Ghz Graphics: Inter UHD Graphics 630 Memory: 8 GB DDR4 Storage: 1TB Hard Drive 128 GB SSD Networking: 802.11ac wireless networking 802.11a/b/g/n compatible & bluetooth
11	4	units	<i>End-user: Library</i>
			<b>Specs:</b> Color: Silver Display: 23.8in FHD LED (1920x1080), 350 nits Intel Core i5-1135G7 Processor 8GB SODIMM DDR4 256GB SSD + 1 TB HDD Graphics: Intel Iris Xe Integrated 1.0 MP HD high-sense webcam OS: Windows 10 Wired Keyboard and Mouse Front/Side I/O connectors -Card reader: Yes -USB 2.0 Type A port(s): 1 Rear I/O connectors - HDMI port(s): 1,2 (out) - LAN port(s): 1 - Audio jack(s): 1 - USB 3.2 Gen1 Type A port(s): 1 - USB 3.2 Gen2 Type A port(s): 2" - M.2 slot (for SSD): 1 - M.2 slot (for WLAN): 1 65 W USB Wired Keyboard & Wired Mouse Built-in stereo speakers - Touch support: No - Size (Inches): 23.8 - Display max resolution: 1920* 1080 - Backlight: LED - Brightness (cd /m2): 350nits -Aspect ratio: 16:9" Win 10 Home SL 64 Bit with Office
			<b>LAPTOP</b>
12	1	unit	<i>End-user: Electrical Engineering</i>
			<b>Specs:</b> Processor: i7 10th Gen Windows 10, Octa Core Speed: 5.10GHz turbo speed Memory: 16GB 2933Hz DDR4 1 TB SSD

			Graphics: 8GB GDDR6 Dedicated Graphics Memory Screen Size: 15.6"
13	1	unit	<i>End-users: Marketing and Communication (now: PASCom)</i>
			<b>Specs:</b> Operation System: English Windows 10 pro Processor: 11th Gen Intel® Core™ i5- 1135G7 @ 2.40GHz Graphics: Intel® Iris® Xe Graphics Display: 15.6" 1920x1080 resolution 60Hz Memory: 16GB DDR4 2667MHz (2 slots used) Storage: 512g SSD M.2 SSD Interfaces: 1x Combo jack, 1x USB, 1x Type C, 2x USB, 1x HDMI, 1 x RJ45 Keyboard and Touchpad: Not Backlit Color: Pure silver Audio: HD audio Camera: 720PHD CAM Wireless Connectivity: WIFI6, Bluetooth 5.0-5.1 Battery and Power: 48Wh Weight and Dimensions: 363.4 mm x 250.5 mm x 17.95 mm 1.80 kg Included in the Box: Laptop, charger, and quick start guide in English
14	6	units	<i>End-users: CCJ</i>
			<b>Specs:</b> • Operating System: Windows 10 S • Processor: 2 GHz core_i3 • RAM: 16 GB DDR4 • Memory Speed: 3.5 GHz • Hard Drive: 256 GB SSD • Chipset Brand: AMD • Card Description: Integrated
15	14	units	<i>End-users: Various Offices</i>
			<b>Specs:</b> Processor: Intel® Core™ i5-1135G7 processor (8 MB Smart Cache, 2.4 GHz with Turbo Boost up to 4.2 GHz, DDR4 or LPDDR4x, Intel® Iris® X Graphics) Memory: 8 GB of onboard DDR4 system memory, upgradable up to 24 GB of DDR4 system memory Storage: 512GB NVMe SSD (HDD Upgrade kit ready) Display: 14.0" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, high-brightness LED-backlit TFT LCD 16:9 aspect ratio, 45% NTSC color gamut Wide viewing angle up to 170 degrees Mercury free, environment friendly Graphics: Intel® Iris® X Graphics, supporting OpenGL® 4.5, OpenCL™ 2.2, Microsoft® DirectX® 12 WLAN- Intel® Wireless Wi-Fi 6 AX201- 802.11a/b/g/n/acR2+ax wireless LAN- Dual Band (2.4 GHz and 5 GHz)- 2x2 MU-MIMO technology- Supports Bluetooth® 5.1- Wi-Fi CNVi Interface LAN - Gigabit Ethernet, Wake-on-LAN ready Windows 10 Home Microsoft Office 2019 Home and Student (Pre-Installed) - Compatible with Cortana with Voice Two built-in stereo speakers 328 (W) x 223 (D) x 17.95 (H) mm (12.91 x 8.78 x 0.71 inches)

			<p>1.55 kg (3.42 lbs.) with 3-cell battery pack, one hard drive and one SSD  3-pin 45 W AC adapter  48 Wh 3-cell Li-ion battery  Up to 10 hours (based on MobileMark® 2014 test results)  Video conferencing  HD webcam with:  - 1280 x 720 resolution  - 720p HD audio/video recording  Two USB 3.2 Gen 1 ports with one featuring power-off USB charging USB Type-C  TM port: USB 3.2 Gen 1 (up to 5 Gbps) HDMI® 2.0 port with HDCP support 3.5 mm headphone/speaker jack, supporting headsets with built-in microphone  Ethernet (RJ-45) port  DC-in jack for AC adapter</p>
16	2	units	<b>PEN DIGITAL WRITING TABLETS</b> ( <i>End-user: CCJ</i> )
			<p><b>Specs:</b>  Compatible with Microsoft Office apps like Word, PowerPoint, and OneNote.  Visually present handwritten notes and signatures  Display 11.6 Inches  Display Dimension 25.6 cm x 14.4 cm  Tablet Dimension 35.1 cm x 22.5 cm x 1.2 cm  Resolution 1920 x 1080 FullHD  Color 72% NTSC Color  Viewing Angle 178°  Pressure and Tilt 8192 with 60° tilt  Stylus Type Passive (Batteryless)  Buttons on Pen Two  Buttons on Tablet 8 + Roller Wheel  Response Time 14ms</p>
			<b>SMART TV</b>
17	1	set	<i>End-user: CoT</i>
			<p><b>Specs:</b>  43-inch Full HD  VIDAA U2 OS  Built-in ISDB Receiver  Vewd App Store, Youtube, Netflix  Display Panel: LED</p>
			<b>LED MONITOR</b>
18	1	unit	<i>End-user: CoT</i>
			<b>Specs:</b> 18.5" Wide LED Monitor
			<b>PRINTER</b>
19	1	unit	<i>End-user: Cashier's Office</i>
			<p><b>Specs:</b>  Printer Type : All-in-One Ink Tank Printer (Print, Scan, Copy)  Print Speed of up to 25.0 ipm  Prints up to A3+ (for simplex)</p>

			Automatic duplex printing Ultra-high page yield of 7,500 pages (black) and 6,000 pages (colour) Wi-Fi, Wi-Fi Direct, Ethernet Conect (iPrint, Email Print and Remote Print Driver, Scan to Cloud)
20	1	unit	<i>End-user: Information System</i>
			<p><b>Specs:</b></p> <p>Printer Type: Print, Scan, Copy, Fax with ADF  Print Method: PrecisionCore™ Printhead  Print Direction: Bi-directional printing  Maximum Resolution: 4800 x 2400 dpi  Automatic 2-sided Printing: Yes (up to A3)  Print Speed:  Photo Default - 10 x 15 cm / 4 x 6 " *1:  Approx. 43 sec per photo (Border) / 52 sec per photo (Borderless)*2  Draft, A4 (Black / Colour):  Up to 32.0 ppm / 22.0 ppm *2  ISO 24734, A4 Simplex (Black / Colour):  Up to 25.0 ipm / 12.0 ipm *2  ISO 24734, A4 Duplex (Black / Colour):  Up to 16.0 ipm / 9.0 ipm *2  ISO 24734, A3 Simplex (Black / Colour):  Up to 13.5 ipm / 6.0 ipm *2  ISO 24734, A3 Duplex (Black / Colour):  Up to 10.0 ipm / 5.0 ipm *2  Interface:  USB: USB 2.0  Network: Ethernet, Wi-Fi IEEE 802.11 b/g/n, Wi-Fi Direct  Network Protocol: TCP/IP v4, TCP/IP v6  Network Management Protocols: SNMP, HTTP, DHCP, BOOTP, APIPA, PING, DDNS, mDNS, Sntp, SLP, WSD, LLTD  Dimensions and Weight:  Dimensions (W x D x H): 515 x 500 x 350mm  Weight: 20.7kg  Paper Handling:  Number of Paper Trays: 3 (Front 2, Rear 1)  Standard Paper Input Capacity: Cassette 1: 250 sheets for A4 Plain paper (80g/m2)  50 sheets for Premium Glossy Photo Paper  Cassette 2: 250 sheets for A4 Plain paper (80 g/m2)  Rear Slot: 50 sheets for A4 Plain paper (80 g/m2), 20 sheets for Premium Glossy Photo Paper  Output Capacity:  125 sheets for A4 Plain paper (80 g/m2), 20 sheets for Premium Glossy Photo Paper  Maximum Paper Size: 329 x 6000 mm  Paper Sizes: A3, Super B (13 x 19"), Indian Legal, Letter, A4, 16K (195 x 270mm), 8K (270 x 390mm), Executive (7.25 x 10.5"), B4, B5, A5, B6, A6, 8.5 x 13", 5 x 7", 4 x 6", 8 x 10", Legal (8.5 x 14"), 16:9 wide, Envelopes: #10, DL, C6, C4  Paper Feed Method: Friction feed  Print Margin: 3mm top, left, right, bottom via custom settings in printer driver</p>

21	1	unit	<i>End-user: BARGO</i>
			<p><b>Specs:</b>  PRINT  Printing Technology: On-demand inkjet (Piezoelectric)  15 ppm (Draft A4 Color); 33 ppm (Draft A4 Black); 5 ppm (ISO A4 Color)  Print Speed: 10 ppm (ISO A4 Black)  First Page Out Time: 16 sec (color); 10 sec (Black)  Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology)  COPY  Copy Speed: ISO 29183, A4; 3.8 ipm (Color); 7.7 ipm (Black)  Max Copies: 99 copies  Copy Resize: 25-400%  Copy Resolution: 600 x 600 dpi  SCAN  Scan Type: Flatbed colour image scanner  Sensor Type: Contact image sensor (CIS)  Resolution: Optical: 1200 x 2400 dpi  Max Document Size: 216 x 297 mm )8.5 x 11.7)  Bit Depth: Color: 48-bit input, 24-bit output; Grayscale: 16-bit input, 8-bit output;  Black &amp; White: 16-bit input 1-bit output; 12 sec (Black) 200 dpi; 29 sec. (Color) 200 dpi  Scan Speed: ADF (Simplex); 4.5 ipm (Black) 200 dpi; 4.5 ipm (Color) 200 dpi  FAX  Fax Speed: 33.6 kbps (3 sec per page)  Fax Resolution: Up to 200 x 200 dpi  Page Memory: 1.1 MB/ UP TO 100 PAGES  Fax Features:PC Fax (Transmission/Receive); Automatic redial; Address book;  Broadcast Fax (Mono Only); Transmit reservation; Polling Reception; Input 100 sheets; Output 30 sheets  Paper Handling: ADF 30 pages (64-95g/m2)  Paper Size: Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm), 5 x 7", 4 x 6", Envelopes: #10, DL, C6  Interface:USB 2.0 Ethernet; Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct  LCD Screen:1.44" Colour LCD  Warranty: 1 year</p>
22	2	units	<i>End-user: COT</i>
			<p><b>Specs:</b>  Type: Print, Scan, Copy  Print Method: On-demand inkjet (Piezoelectric)  Minimum Ink Droplet Volume: 3pl.  Printer Language: ESC / P-R  Print Direction: Bi-directional printing  Nozzle Configuration: 180 nozzles Black, 59 x 1 nozzles per color (cyan, magenta, yellow)</p>
23	1	unit	<i>End-user: VPAF</i>
			<p><b>Specs:</b>  All-in-one Functions.Print, Scan, Copy, Fax with ADF</p>

			<p>Compact integrated tank design  High yield ink bottles  Spill-free, error-free refilling  Wi-Fi, Wi-Fi Direct  Printing Technology:  Print Method: On-demand inkjet (Piezoelectric) Printer Language's /P-R, ESC/P Raster  Nozzle Configuration: 180 nozzles Black, 59 x 1 nozzles per color (cyan, magenta, yellow)  Maximum Resolution: 5760 x 1440 dpi Automatic 2-sided Printing:  Photo Default - 10x 15 cm / 4x 6" *1: Approx. 69 sec per photo 9Border) / 90 sec per photo (Boardless) *2Draft, A4 (Black/ Color): Up to 33 ppm/ 15 ppm *2ISO 24734, A4 Simplex (Black/ Color): Up to 10 imp/ 5.0 ipm *2First Page Out Time from Ready Mode (Black/Color): Approx. 10 sec/ 16 sec*2</p>
24	1	unit	<i>End-user: CAO</i>
			<p><b>Specs:</b>  Wi-Fi All-in-One Ink Tank Printer with ADF  Print - Copy - Scan – Fax  Print :  Printing Technology: On-demand inkjet (Piezoelectric)  Print Speed: 15 ppm (Draft A4 Color)  33 ppm (Draft A4 Black)  5 ppm (ISO A4 Color)  10 ppm (ISO A4 Black)  First Page Out Time: 16 sec (Color); 10 sec (Black)  Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology)</p>
25	4	units	<i>End-user: Research &amp; Innovation</i>
			<p><b>Specs:</b>  Minimum Droplet Size: 3 pl, with Variable-Sized Droplet Technology  Ink Technology: Dye Ink  Printing Resolution: 5,760 x 1,440 DPI  Category: Home, Home Office  All-in-one Functions.Print, Scan, Copy  Printing Speed ISO/ IEC 24734: 10 pages/ min Monochrome, 5 pages/ min Colour, 69 seconds per 10x15 cm photo  Printing Speed: 15 pages/ min Colour (plain paper 75 g/m2), 33 pages/ min monochrome (plain paper 75 g/m2), 27 seconds per 10x15 cm photo  Scan  Single-sided scan speed (A4 black): 200 DPI; , 11 sec. with flatbed scan  Single-sided scan speed (A4 colour): 200 DPI; , 32 sec. with flatbed scan  Output formats: BMP, JPEG, PICT, TIFF, multi-TIFF, PDF, PNG  Scanner Type: Contact image sensor (CIS)  Optical Resolution: 600 DPI x 1,200 DPI (Horizontal x Vertical)  Paper/ Media Handling  Number of paper trays: 1  Paper Formats: C6 (Envelope), B5 (17.6x25.7cm), A6 (10.5x14.8cm), A4 (14.8x21.0cm), A4 (21.0x29.7cm), Legal, User defined, 13x18cm, 10x15cm, Letter, No. 10 (Envelope), DL (Envelope0, 16:9  Duplex: Manual</p>



			Output Tray Capacity: 30 sheets Multifunction: 100 sheets standard Compatible Paper Weight: 64 g/m2 - 300 g/m2 Media Handling: Borderless print (up to 10x15 cm)
26	1	unit	<i>End-user: Civil Engineering</i>
			<b>Specs:</b> Printing Type: Print, Scan, Copy Printing Printing Technology: On-demand inkjet (Piezoelectric) Nozzle Configuration: 180 nozzles Black, 59 x 1 nozzles per color (cyan, magenta, yellow) Print Direction: Bi-directional printing Maximum Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology) Minimum Ink Droplet Volume: 3 pl Print Speed Draft Text - Memo, A4 (Black11/ Colour12): Up to 33 ppm / 15 ppm ISO 24734, A4 (Black/ Colour): Simplex up to 10 ipm / 5.0ipm First Page Out Time (Black/ Colour0: Approx.; 10 sec. / 16sec. Photo Default - 10x15 cm/4x6" : Approx. 69 sec. per photo (Border) / 90 sec. per photo (Borderless) Printer Language: ESC / P-R Automatic 2-sided printing: No Copying Copy Speed ISO 29183, A4, Simplex (Black/ Colour): Up to 7.0 ipm / 1.7 ipm Copy Quality: Colour/ Black-and-White; Draft/ Standard Maximum Copies from Standalone: 20 copies Maximum Copy Resolution: 300x300 dpi Maximum Copy size: A4, Letter Scanning Scanner type: Flatbed colour image scanner Sensor Type: CIS Optical Resolution: 600 x 1200 dpi Maximum Scan Area: 216x 297 mm (8.5 x 11.7") Scanner Bit Depth Colour: 48-bit input, 24-bit output Grayscale: 16-bit input, 8-bit output Black & White: 16-bit input, 1-bit output Scan Speed (Flatbed) Monochrome 200 dpi: 11 sec Colour 200 dpi: 32 sec
27	1	unit	<i>End-user: International Affairs Office</i>
			<b>Specs:</b> Printer Type: Printer Type:Print, Scan, Copy Print Speed: Photo Default - 10 x 15 cm / 4 x 6 " :Approx. 69 sec per photo (Border) / 90 sec per photo (Borderless) *1Draft, A4 (Black / Colour):Up to 33 ppm / 15 ppm *1ISO 24734, A4 Simplex (Black / Colour):Up to 10 ipm / 5.0 ipm *1First Page Out Time from

			Ready Mode (Black / Colour):Approx. 10 sec / 16 sec *1 Copying: Maximum Copies from Standalone:20 copiesMaximum Copy Size:A4, LetterCopy Quality:Colour / Black-and-White; Draft / StandardISO 29183, A4 Simplex Flatbed (Black / Colour):Up to 7.0 ipm / 1.7 ipmMax Copy Resolution:300 x 300 dpi
28	1	unit	<b>DIGITAL PHOTO PRINTER</b> ( <i>End-user: CCJ</i> )
			<b>Specs:</b> Print/Scan/Copy/Fax. • Automatic Double Sided Printing. • Up to 1,200 x 2,400 dpi Print. • USB, Network, Wireless, Wi-Fi Direct & NFC. • As Fast as 4.8 Seconds First page. • Up to 34ppm Mono Print. • PCL6, PostScript 3, ESC/P-R, PDF 1.7, PCL5e. • 250 Sheet Paper Tray • Standard paper tray(s): 80-Sheet Multi-Purpose Tray, 250-sheet paper tray • Paper Formats: C4 (Envelope), Legal, A6 (10.5x14.8 cm), A5 (14.8x21.0 cm), B5 (17.6x25.7 cm), Letter, 9 x 13 cm, 10 x 15 cm, 13 x 18 cm, A4 (21.0x29.7 cm), B6 (12.5x17.6 cm), C5 (Envelope), No. 10 (Envelope), User defined, C6 (Envelope), DL (Envelope)
			<b>SCANNER</b>
29	1	unit	<i>End-user: Budget Office</i>
			<b>Specs:</b> Compact size and footprint 25ppm/50ipm scanner with 1-pass duplex scanning Powered via USB 3.0 bus-powered, AC adapter or in-built battery Dedicated card slot Wi-Fi, and Wi-Fi A/P mode connectivity with mobile scanning app Scanning: Scanner Type: A4 sheet-fed, simplex colour scanner Sensor Type: CIS Light Source: RGB LED Optical Resolution: 600 x 600 dpi Output Resolution: 50 – 1,200 dpi (in 1 dpi increments) 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 Max Document Size: 216 x 1,117mm Output File Formats: Epson Scan 2: JPEG, TIFF, Multi-TIFF, PDF, Searchable PDF, BMP, PNG Document Capture Pro (Win): JPEG, BMP, PDF, Searchable PDF, TIFF, Multi-TIFF, PNG, DOCX, XLSX, PPTX

			<p>Scan Speed:  ADF Monochrome (Simplex / Duplex):  200 dpi: 25ppm / 50ipm  300 dpi: 25ppm / 50ipm  600 dpi: 5.0ppm / 10ipm  ADF Colour (Simplex / Duplex):  200 dpi: 25ppm / 50ipm  300 dpi: 25ppm / 50ipm  600 dpi: 5.0ppm / 10ipm  ADF Specifications:  Scanner Type:A4 Sheet-fed, one-pass duplex colour scannerOptical  Sensor:CISLight Source:RGB LEDOptical Resolution:600 x 600 dpiOutput  Resolution:50 dpi - 1,200 dpi (1 dpi increments)  Min Document Size:  50.8 x 70mm  Max Document Size:  216 x 1,117mm  Support Paper Thickness:  51.8 – 128gsm  ADF Capacity:  20 sheets  Automatic Duplex Scanning:  Yes  Daily Duty Cycle:  up to 500 pages / day  Multi-feed Detection:  Length Detection</p>
30	1	unit	<i>End-user: Records Mngt Office</i>
			<p><b>Specs:</b>  Package Size: 14x11.8x44.8cm / Package Weight: 1640g</p> <ul style="list-style-type: none"> <li>· [Powerful function] It can scan all files within A3 size with a resolution of 8 million pixels. It has many useful functions such as an LED light that can adjust the brightness in three stages. Please note that the book scanning function for flattening curved surfaces is not included. (The software is only supported on Windows systems, not Mac OS.)</li> <li>· [Versatile] The video recording and real-time projection functions are suitable for use in various situations such as creating music scores and e-books, classes, and meetings.</li> <li>· [Compact design] Foldable, lightweight and compact body design, compact shape when moving, and can be carried. (Caution: There are two USB terminals, but you need to plug the shorter one into your computer. If the power supply is insufficient, plug the longer one into another USB port at the same time.)</li> <li>· [Easy to operate] Like a carefully designed scanner, it is very easy to install and use related software. Can be used by connecting to a PC with a single USB cable. You can easily transfer data and supply power. If you have any problems using the product, please contact customer service.</li> <li>· 100% Authentic</li> </ul>

			<b>CAMERA</b>
31	1	unit	<b>MIRRORLESS CAMERA w/ LENS</b> (End-user: Campus Headliner)
			<p><b>Specs:</b>  AF Modes One-Shot AF, Servo AF, Manual  AF Point Selection Automatic selection, Manual selection  AF System Points Max. 5,655 selectable AF point positions / Up to 143 AF areas (auto selection)  Built-in Flash -  Continuous Shooting Speed (Shots Per Sec) (Up To) 8 (One-Shot AF) / 5 (Servo AF)  Dimensions (Excl. Protrusions) (mm) (Approx.) 135.8 x 98.3 x 84.4  Effective ISO 100 - 40,000 (L:50, H1:52,100, H1:102,400)  Effective Pixels (Megapixels) 30.3  Exposure Compensation Stills: Manual: <math>\pm 3</math> stops in 1/3-stop or 1/2-stop increments, AEB: <math>\pm 2</math> stops in 1/3-stop or 1/2-stop increments Movie recording: <math>\pm 3</math> stops in 1/3- or 1/2-stop increments  Eye Detection AF Available: One-Shot AF / Servo AF  Flash Modes -Guide Number ISO 100 metres -Image Resolution 6720 x 4480 (L) 4464 x 2976 (M) 3360 x 2240 (S1) 2400 x 1600 (S2) 6720 x 4480 (RAW) 6720 x 4480 (C-RAW) Image Stabilizer In-body 5-axis electronic image stabilization  LCD Monitor (Size) (Inch) 3.15  LCD Monitor Resolutions (dots) 2,100,000  Manual Focus Yes  Memory Card Type SD/SDHC/SDXC memory card, UHS-II and UHS-I cards supported  Metering Mode Real-time metering using the image sensor, 384-zone (24x16) metering, Still: Evaluative, Partial, Spot &amp; Center-weighted average. Video: Center-weighted average and Evaluative metering with the image sensor  Movie Format MP4  Optional Power AC Power (Adapter Kit ACK-E6 / USB Power Adapter PD-E1)  Peripheral Connections USB-Type C, HDMI (Type C), Mic-in , Remote control terminal  Processor Type DIGIC 8  Sensor Size Full-Frame CMOS  Shooting Modes Stills: Scene Intelligent Auto, Flexible-priority AE, Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb exposure, Custom shooting modes (C1/C2/C3) Movies: Scene Intelligent Auto, Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Custom shooting modes (C1/C2/C3)  Shutter Speed Range (Sec.) 30 - 1/8000, Bulb  Silent Shutter Available: Single / Continuous Shot  Standard Power Supply Battery Pack LP-E6N / LP-E6  Still Image Format JPEG, RAW, RAW + JPEG, C-RAW, C-RAW+JPEG , RAW(Dual Pixel), C-RAW(Dual Pixel)  Viewfinder Coverage (Approx.) 100%  Viewfinder Type 0.5-inch OLED, 3.69million dots  Weight (g) (Including the battery and memory card) (Approx.) 660  White Balance Auto (Ambience priority), Auto (White priority), Preset (Daylight, Shade, Cloudy, Tungsten light, White fluorescent light, Flash), Custom, Color</p>

			<p>temperature setting (approx. 2500–10000 K) White balance correction and white balance bracketing features provided * Flash color temperature information transmission possible</p> <p>X-sync (sec.) 1/200</p> <p>Lens RF 24-105mm F/4-7.1 IS STM</p> <p>RF 24-105mm F/4-7.1 IS STM Specs 24 to 105mm</p> <p>RF 24-105mm F/4-7.1 IS STM Specs f/4 to 7.1</p> <p>RF 24-105mm F/4-7.1 IS STM Specs f/40</p> <p>RF 24-105mm F/4-7.1 IS STM Specs</p> <p>RF 24-105mm F/4-7.1 IS STM Specs Full-Frame</p> <p>RF 24-105mm F/4-7.1 IS STM Specs 84° to 23° 20'</p> <p>RF 24-105mm F/4-7.1 IS STM Specs 5.16" / 13.1 cm</p> <p>RF 24-105mm F/4-7.1 IS STM Specs 0.5x</p> <p>RF 24-105mm F/4-7.1 IS STM Specs 13 Elements in 11 Groups</p> <p>RF 24-105mm F/4-7.1 IS STM Specs 7, Rounded</p> <p>RF 24-105mm F/4-7.1 IS STM Specs Autofocus</p> <p>RF 24-105mm F/4-7.1 IS STM Specs Yes</p> <p>RF 24-105mm F/4-7.1 IS STM Specs 67 mm (Front)</p> <p>RF 24-105mm F/4-7.1 IS STM Specs 3.02 x 3.5" / 76.6 x 88.8 mm</p> <p>Length at Maximum Extension 5.45" / 138.4 mm</p> <p>Weight 13.93 oz / 395 g</p> <p>Packaging Info</p> <p>Package Weight 1.235 lb</p> <p>Box Dimensions (LxWxH) 7.2 x 4.9 x 4.8"</p>
32	1	unit	<b>VIDEO CAMERA</b> (End-user: Campus Headliner)
			<p><b>Specs:</b></p> <p>ImagingSensor Resolution Actual: 21 MegapixelEffective: 14.2 MegapixelSensor Type 1"-Type CMOS SensorImage Stabilization Optical in Integrated LensBuilt-In ND Filter Mechanical Filter Wheel with 2 Stop (1/4), 4 Stop (1/16), 6 Stop (1/64) ND FiltersGain -3 to 33 dBMinimum Illumination 3 Lux at 1/50 Shutter Speed</p> <p>Lens</p> <p>Focal Length 9.3 to 111.6mm (35mm Equivalent Focal Length: 29 to 348mm)</p> <p>Optical Zoom Ratio 12x</p> <p>Max Digital Zoom 18x ( in UHD 4K)</p> <p>24x ( in 1080p)</p> <p>Maximum Aperture f/2.8 to 4.5</p> <p>Minimum Focus Distance Wide: 0.4" / 1.0 cm</p> <p>Telephoto: 39.4" / 100.0 cm</p> <p>Filter Size 62 mm</p> <p>Control Rings Focus</p> <p>Zoom</p> <p>Focus Control Autofocus</p> <p>Manual Focus</p> <p>Variable Frame Rates UHD: 1 to 30 fps</p> <p>1080p: 1 to 120 fps</p> <p>1080p: 240 to 960 fps</p> <p>1080p: 250 to 1000 fps</p> <p>Built-In Microphone Type Stereo</p> <p>Audio Recording XAVC: 2-Channel 16-Bit 48 kHz LPCM Audio</p> <p>Proxy: 2-Channel 16-Bit 48 kHz AAC Audio</p>

			<p>AVCHD: 2-Channel 16-Bit 48 kHz LPCM Audio  2-Channel 16-Bit 48 kHz AC-3 Audio  IP Streaming MPEG2, UDP: 1280 x 720 at 24p, 30p (3.0 Mb/s)  MPEG2, UDP: 640 x 360 at 24p (1.0 Mb/s)  Video I/O 1 x HDMI Output  1 x (Composite) Output  Audio I/O 2 x 3-Pin XLR Mic/Line Level (+48 V Phantom Power) Input  1 x 1/8" / 3.5 mm TRRS Headphone/Microphone Headphone Output  Power I/O 1 x Barrel Input  Other I/O 1 x 2.5 mm Sub-Mini (LANC) Control  Wireless 2.4 GHz Wi-Fi 4 (802.11n)  Size 3.5"  Resolution 1,560,000 Dot  Display Type Articulating LCD  Environmental  Operating Temperature 32 to 104°F / 0 to 40°C  Storage Temperature -4 to 140°F / -20 to 60°C  Battery Type Sony V-Series  Power Consumption 6.1 W  Tripod Mounting Thread 1/4"-20 Female  Accessory Mount 1 x Intelligent Hot Shoe  Built-In Video Light Yes (Infrared)  Dimensions (W x H x D) 5.1 x 7.1 x 11.3" / 130 x 181.5 x 287 mm  Packaging Info  Package Weight 4.78 lb  Box Dimensions (LxWxH) 10.25 x 9.65 x 5.95"</p>
33	1	unit	<b>DSLR CAMERA w/ LENS</b> (End-user: Campus Headliner)
			<p><b>Specs:</b>  AF Modes OVF: One-Shot AF, AI Servo AF, AI Focus AF   Live View: One-Shot AF, Servo AF, AI Focus AFAF Point Selection Automatic selection, Manual selection  System Points OVF: 45 AF Points   Live View: 5,481 selectable focus positions  Built-in Flash YES  Closest Focusing Distance (cm) 39  Continuous Shooting Speed (Shots Per Sec) (Up To) OVF: 10fps (One-Shot AF &amp; AI Servo AF)   Live View: 11fps (One-Shot AF), 7fps (Servo AF)  Digital Zoom -Dimensions (Excl. Protrusions) (mm) (Approx.) 140.7 x 104.8 x 76.8  Drive System Nano USM  Effective ISO 100 - 25,600 (H:51,200)  Effective Pixels (Megapixels) 32.5  Exposure Compensation OVF: ±5* stops in 1/3- or 1/2-stop increments   Live View: ±3 stops in 1/3- or 1/2-stop increments   AEB: ±3 stops in 1/3- or 1/2-stop increments  Eye Detection AF Live View: One-Shot AF &amp; Servo AF  Flash Modes E-TTL II Autoflash, FE Lock, Manual pop-up, Retractable, Built-in  Focal Length (35mm Equivalent) 28.8-216.0mm (7.5x)  Guide Number ISO 100 metres 12  Image Resolution 6960 x 4640 (L) 4800 x 3200 (M) 3472 x 2320 (S1) 2400 x 1600 (S2) 6960 x 4640 (RAW/C-RAW)  Image Stabilizer Lens-shift type &amp; In-body 5-axis electronic image stabilisation  LCD Monitor (Size) (Inch) 3.0  LCD Monitor Resolutions (dots) 1,040,000</p>

			<p>Manual Focus YES  Memory Card Type SD, SDHC*, SDXC*, *UHS-I &amp; UHS-II cards compatible  Metering Mode Evaluative, Partial, Spot, Centre-weighted average  Movie Format MP4  Optical Zoom 7.5x  Optional Power AC Power (AC Adapter AC-E6N and DC Coupler DR-E6)  Peripheral Connections Hi-Speed USB, HDMI (Type C) / Microphone / Headphone / Remote  Processor Type DIGIC 8  Sensor Size APS-C  Shooting Modes Scene Intelligent Auto, Special scene modes (Portrait, Group Photo, Landscape, Sports, Kids, Panning, Close-up, Food, Candlelight, Night Portrait, Handheld Night Scene, HDR Backlight Control), Creative filters (Grainy B/W, Soft focus, Fish-eye effect, Water painting effect, Toy camera effect, Miniature effect, HDR art standard, HDR art vivid, HDR art bold, HDR art embossed), Program AE, Shutter-priority AE, Aperture-priority AE, Manual exposure, Bulb, Custom mode 1, Custom mode 2  Shutter Speed Range (Sec.) OVF: 30 - 1/8000, Bulb   Live View: 30 – 1/16000, (1/16000-1/10000, electronic shutter), Bulb  Silent Shutter Available in Live View: Single Shot  Standard Power Supply Battery Pack LP-E6/LP-E6N  Still Image Format JPEG, RAW, C-RAW, RAW + JPEG, C-RAW + JPEG  Viewfinder Coverage (Approx.) 100%  Viewfinder Type Eye-level pentaprism  Weight (g) (Including the battery and memory card) (Approx.) X-sync (sec.) 1/250  Lens Specs Focal Length 18 to 135mm (35mm Equivalent Focal Length: 28.8 to 216mm) Maximum Aperture f/3.5 to 5.6 Minimum Aperture f/22 to 38  Lens Mount EF-S  Lens Format Coverage APS-C  Angle of View 74° 20' to 11° 30'  Minimum Focus Distance 1.28' / 39 cm  Maximum Magnification 0.28x  Optical Design 16 Elements in 12 Groups  Diaphragm Blades 7, Rounded  Focus Type Autofocus  Image Stabilization Yes  Filter Size 67 mm (Front)  Dimensions (ø x L) 3.05 x 3.78" / 77.4 x 96 mm  Length at Maximum Extension 5.67" / 144 mm  Weight 1.13 lb / 515 g</p>
34	1	unit	<b>COMPACT CAMERA</b> (End-user: Campus Headliner)
			<p><b>Specs:</b>  Sensor  Max resolution 5472 x 3648  Image ratio w:h 1:1, 4:3, 3:2, 16:9  Effective pixels 20 megapixels  Sensor photo detectors 21 megapixels  Sensor size 1" (13.2 x 8.8 mm)  Sensor type BSI-CMOS  Processor DIGIC 8  Image  White balance presets 6  Custom white balance Yes  Image stabilization Optical  Uncompressed format RAW  JPEG quality levels Fine, normal  Optics &amp; Focus  Focal length (equiv.) 24–100 mm</p>

			<p>Optical zoom 4.2x  Maximum aperture F1.8–2.8  Autofocus • Contrast Detect (sensor)</p> <ul style="list-style-type: none"> <li>• Multi-area</li> <li>• Center</li> <li>• Selective single-point</li> <li>• Tracking</li> <li>• Single</li> <li>• Continuous</li> <li>• Touch</li> <li>• Face Detection</li> <li>• Live View</li> </ul> <p>Digital zoom Yes (4x) Manual focus Yes Normal focus range 5 cm (1.97") Macro focus range 5 cm (1.97") Screen / viewfinder Articulated LCD Tilting Screen size 3" Screen dots 1,040,000 Touch screen Yes Screen type TFT LCD Live view Yes Viewfinder type None Photography features Minimum shutter speed 30 sec  Maximum shutter speed 1/2000 sec  Maximum shutter speed (electronic) 1/25600 sec  Aperture priority Yes  Shutter priority Yes  Manual exposure mode Yes  Subject / scene modes Yes  Built-in flash Yes  Flash range 7.00 m  External flash No  Flash modes Auto, on, slow synchro, off  Continuous drive 30.0 fps  Self-timer Yes (2 or 10 secs, custom)  Metering modes • Multi</p> <ul style="list-style-type: none"> <li>• Center-weighted</li> <li>• Spot</li> </ul> <p>Exposure compensation <math>\pm 3</math> (at 1/3 EV steps)  Videography features  Format MPEG-4, H.264  Modes • 3840 x 2160 @ 30p / 120 Mbps, MOV, H.264, AAC  • 1920 x 1080 @ 120p / 120 Mbps, MOV, H.264, AAC  • 1920 x 1080 @ 60p / 60 Mbps, MOV, H.264, AAC  • 1920 x 1080 @ 30p / 30 Mbps, MOV, H.264, AAC  Microphone Stereo  Speaker Mono  Storage  Storage types SD/SDHC/SDXC card (UHS-I compatible)  Connectivity  USB USB 3.2 Gen 1 (5 GBit/sec)  USB charging Yes  HDMI Yes (micro-HDMI)  Microphone port Yes  Headphone port No  Wireless Built-In  Wireless notes 802.11b/g/n + Bluetooth  Remote control Yes (via smartphone or wireless remote)</p>
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			Environmentally sealed NoBattery Battery PackBattery description NB-13L lithium-ion battery and chargerBattery Life (CIPA) 235Weight (inc. batteries) 304 g (0.67 lb / 10.72 oz)Dimensions 105 x 61 x 41 mm (4.13 x 2.4 x 1.61")Other featuresOrientation sensor YesTimelapse recording YesGPS None
			<b>CCTV Camera</b>
35	2	sets	<i>End-user: CCJ</i>
			<b>Specs:</b> Indoor ·Water and dust resistant (IP67) and vandal proof ·High quality imaging with 4 MP resolution ·Clear imaging against strong back light ·Angle Adjustment: Pan: 0° to 355°, tilt: 0° to 75°, rotate: 0° to 355° ·Rotate mode, saturation, brightness, contrast, sharpness, AGC, and white balance adjustable ·Built-in Micro SD/SDHC/SDXC slot ·Support Micro SD/SDHC/SDXC card (1TB), local storage and NAS (NFS,SMB/CIFS), ANR ·Up to 6 channels
36	3	sets	<i>End-user: COT</i>
			<b>Specs:</b> 4 Channel Digital Video Recorder 2 Units Bullet Type Outdoor Camera 2 Units Dome Type Indoor Camera 4 Rolls Siamese Cables (18.3m per roll) Mouse, Manual and Powercord 1TB Western Digital HDD / 1TB Seagate Skyhawk Surveillance HDD
37	1	pkg	<b>GRID TIE SOLAR GENERATOR ASSEMBLY</b>
			<i>End-user: CCSIT</i>
			<b>Specs:</b> 5.04 kWp Multiple fridges and multiple aircons on during the daytime, with heavy daytime use of appliances such as pumps, washing machines, vacuums, etc. With installation
38	1	unit	<b>MICROCONTROLLER ARDUINO OFFICIAL STARTER KIT</b>
			<i>End-user: CCSIT</i>
			<b>Specs:</b> The Starter Kit includes:1 Projects Book (170 pages), 1 Arduino Uno, 1 USB cable, 1 Breadboard 400 points, 70Solid core jumper wires, 1 Easy-to-assemble wooden base,1 9v battery snap, 1 Stranded jumper wires (black), 1 Stranded jumper wires (red), 6 Phototransistor, 3 Potentiometer 10kOhms, 10Pushbuttons, 1 Temperature sensor [TMP36], 1 Tilt sensor, 1 alphanumeric LCD (16x2 characters), 1LED (bright white), 1 LED (RGB), 8 LEDs (red), 8 LEDs (green), 8 LEDs (yellow), 3 LEDs (blue), 1 Small DC motor 6/9V, 1 Small servo motor, 1 Piezo capsule [PKM22EPP-40], 1 H-

			bridge motor driver [L293D], 1 Optocouplers [4N35], 2 Mosfet transistors [IRF520], 3 Capacitors 100uF, 5 Diodes [1N4007], 3 Transparent gels (red, green, blue), 1 Male pins strip (40x1), 20 Resistors 220 Ohms, 5Resistors 560 Ohms, 5 Resistors 1 kOhms, 5 Resistors 4.7 kOhms, 20 Resistors 10 kOhms, 5Resistors 1 MOhms, 5 Resistors 10 MOhms
39	1	unit	<b>PEN DISPLAY</b> (End-user:Marketing & Communication (now: PASCom))
			<p><b>Specs:</b>  Display Size/ Resolution: 15.6 in (39.6 cm) / Ultra HD (3840 x 2160)  Active Area: 13.6 x 7.6 in (345 x 194 mm)  Size: 16.1 x 10.4 x.69 in ( 410 x 265 x 17.5mm)  Weight:3.3 lbs (1.5 kg) without optional stand  Color Performance: 16.7 million (8 bit), 94% Adobe RGB  Viewing Angle: 176° (88°/88°) H, (88°/88°) V  Contrast Ratio / Response Rate: 1000:1 / 25ms  Power Consumption: Maximum power consumption: 30 W, 3 W or less when asleep. 0.5w or less in sleep mode (USB non – connected) or OFF mode  Aspect Ratio / Brightness 16:9 / 250 cd/m2  Industry Standard Pre-sets Adobe® RGB, 6500° K whitepoint default  Connectivity 3 USB-C ports, one SDXC slot, and one headset jack  Graphics Input USB-C (for optimum performance), Mini DisplayPort or HDMI using included Wacom Link Plus adaptor, Multi-Touch Pan, zoom and rotate gestures available in most applications including Adobe® Photoshop® and Illustrator®  Pen Battery-free Pro Pen 2 with 2 customizable side switches and 8192 pressure levels in both pen tip and eraser (patented electromagnetic resonance method)  Pen Tilt Recognition / Range ±60 levels / 60 degrees  ExpressKey™ Remote (optional) 17 customizable, application-specific ExpressKeys, Touch Ring, Rocker Ring/Home Button, Precision Mode, Display Toggle, Radial Menu, and dedicated pan, scroll, zoom, brush size  Stand Integrated pop-out legs for 20° angle; optional detachable 3-angle Stand*  Security Kensington® MiniSaver™ Mobile Lock Slot (lock purchased separately)  Productivity Boosters Time-saving on screen settings; ExpressKeys™ , Touch Ring on optional ExpressKey™ Remote  Ergonomics Right or left-handed use; built-in stand (5° without legs or 20°with legs); optional 3-position Stand available*; Pro Pen 2 with comfortable, ergonomic grip  Compatibility / System Requirements Windows® 7 or later/ Mac OS® X 10.11 or later, USB-C port supporting DisplayPort Alternate Mode; or Mini DisplayPort and USB-A port; or HDMI port, USB-A port and high speed HDMI cable (sold separately), internet access  What's Included Cintiq Pro, Pro Pen 2 with color rings, pen stand with 10 replacement nibs (6 standard, 4 felt) and nib removal tool, pen holder, AC adaptor, power cable, Link Plus adaptor with Micro-USB, Mini-DisplayPort, HDMI port and 2 USB-C ports &amp; cables (USB-C to USB-C, Mini-DisplayPort to Mini-DisplayPort, USB-A to Micro-USB), quick start guide, cleaning cloth  Additional Accessories ExpressKey™ Remote, Stand*, Soft Case*, Color Manager, Wireless Bluetooth® Keyboard, Pro Pen 2, Pro Pen 3D, replacement nibs, prior generation pens (Pro Pen, Classic Pen, Art Pen, Airbrush, Grip Pen</p>
40	1	unit	<b>TELEPHOTO LENS</b> (End-user:Marketing & Communication (now: PASCom))

			<p><b>Specs:</b>  Angle of View (Diagonal) 24°~6°10'Angle of View (Horizontal) 20°~5°10'Angle of View (Vertical) 14°~3°30'Closest Focusing Distance (m, ft) 0.98/3.2Construction (Groups Elements) 16-21Diameter x Length (mm) (Approx.) 94 x 193Distance Scale oDrive System Focusing cam system by ring USM driveFilter Size (mm) 77Max. Magnification (x) 0.31Min. Aperture 32~40No. of Diaphragm Blades 9Anti-dust and Moisture SupportedWeight (g) (Approx.) 1570Accessories (Lens Cap) E-77 IIAccessories (Lens Hood) ET-83DAccessories (Lens Bag) LZ1326</p>
41	1	unit	<p><b>TELEPROMPTER</b> (End-user:Marketing &amp; Communication (now: PASCom))</p>
			<p><b>Specs:</b></p> <ul style="list-style-type: none"> <li>• Compact, portable design with a large viewing size</li> <li>• Assembles in about a minute; packs away flat</li> <li>• Durable aluminum/steel build, aluminum monitor frame</li> <li>• 12" monitor and matching scientific-grade, foldable glass</li> <li>• 20 ft reading range</li> <li>• Height-adjustable quick-release baseplate supporting small- to mid-size cameras</li> <li>• Zippered hood with fabric lens cover</li> <li>• Control buttons on the front of the monitor</li> <li>• HDMI, VGA, and Composite BNC inputs</li> <li>• Mac/Win prompting software included</li> <li>• Includes compartmentalized foam waterproof carry case</li> </ul>
42	1	unit	<p><b>SMART UPS</b> (End-user: CAN)</p>
			<p><b>Specs:</b></p> <ul style="list-style-type: none"> <li>• On-Line UPS with Tower Type Design</li> <li>• Hot Swappable Battery Replacement for Maintenance</li> <li>• Extendable Backup Time with External Battery Pack</li> <li>• High Efficiency Mode and Free-Run Mode Available</li> <li>• Overload, Surge, Short Circuit Protection</li> <li>• Capacity (V) 2000 VA</li> <li>• Capacity (watts) 1400 W</li> <li>• Tower type</li> </ul> <p>Input  Voltage 100 / 110 / 115 / 120 / 127 or 208 / 220 / 230 / 240 Vac  Voltage Range (Vac) 160 - 276 Vac, &lt; 100% Load  Frequency Range 50 / 60 Hz (Auto Sensing)  Power Factor &gt; 0.97</p> <p>Output  Rated Power Factor : 0.7  Wave Form : Pure Sine Wave  Voltage : 100 / 110 / 115 / 120 / 127 or 208 / 220 / 230 / 240Vac ± 2%  Frequency : 50 / 60 Hz ± 0.25 Hz  Harmonic Distortion : ≤ 3% THD at Linear Load  Crest Factor 3 : 1</p> <p>Output Receptacle: Type B (12)ProtectionOverload Line Mode : 110% - 125% for 60 seconds, 125% - 150% for 10 seconds Battery Mode : &gt; 110% for 10 secondsSurge Protection : IEC 61000-4-5 Level 3Internal Bypass(Automatic and Manual)UPS Output Cut Off ImmediatelyManagement and CommunicationLCD</p>

			Control Panel: Yes Com. Port : RS232, USB(B-type), SNMP(Option) Audible Alarms : yes
43	1	unit	<b>HANDHELD STABILIZER</b> ( <i>End-user: Campus Headliner</i> )
			<p><b>Specs:</b></p> <p>Peripheral</p> <ul style="list-style-type: none"> <li>• Accessory Connections</li> <li>• NATO port</li> </ul> <p>M4 Mounting Hole 1/4"-20 Mounting Hole Cold Shoe Mount</p> <p>Video Transmission/ Follow Focus Motor Port (USB-C) RSS Camera Control Port (USB-C) Follow Focus Motor Port (USB-C)</p> <ul style="list-style-type: none"> <li>• Battery</li> </ul> <p>Type: 18650 2S Capacity: 3400mAh Energy: 24.48 Wh Max Battery Life: 14 hours Charging time: Approx. 2 hours to fully charge with 18W fast charging (PD and QC 2.0 fast charging protocols are supported) Charging temperature: 5° to 40° C (41° to 104° F)</p> <ul style="list-style-type: none"> <li>• Connections</li> <li>• Bluetooth 5.0; USB-C</li> <li>• iOS 11 or above;</li> </ul> <p>Android 7.0 or above</p> <p>Working Performance</p> <ul style="list-style-type: none"> <li>• Load Weight (Reference Value)</li> <li>• 3.0 kg (Handheld)</li> <li>• Maximum Controlled Rotation Speed</li> <li>• Pan axis: 360°/s</li> <li>• Tilt axis: 360°/s</li> <li>• Roll axis: 360°/s</li> <li>• Mechanical Range</li> <li>• Pan axis: 360° continuous rotation</li> <li>• Roll axis: -240° to +95°</li> <li>• Tilt axis: -112° to +214°</li> </ul> <p>Mechanical &amp; Electrical Characteristics</p> <ul style="list-style-type: none"> <li>• Operating Frequency</li> <li>• 2.4000-2.4835 GHz</li> <li>• Transmission Power</li> <li>• &lt; 8 dBm</li> <li>• Operating Temperature</li> <li>• -20° to 45° C (-4° to 113° F)</li> <li>• Weight</li> <li>• Gimbal: Approx. 1216 g (including the battery and excluding Quick-Release Plate)</li> <li>• Quick-Release Plate (Upper/Lower) Approx. 102 g</li> <li>• Extended Grip/Tripod (Metal): Approx. 226 g</li> <li>• Extended Grip/Tripod (Plastic): Approx. 160 g</li> <li>• Gimbal Dimensions</li> <li>• Folded: 260×210×75 mm (including the handle)</li> <li>• Unfolded: 400×185×175 mm (including the handle and without the Extended Grip/Tripod)</li> </ul>

44	1	unit	<b>GSM MODEM</b> ( <i>End-user: CAN</i> )
			<p><b>Specs:</b></p> <ul style="list-style-type: none"> <li>• 3G Modem 8 Ports</li> <li>• Type:wireless</li> <li>• Certification:None</li> <li>• Style:External</li> <li>• Origin:CN(Origin)</li> <li>• Transmission Rate:512Kbps</li> <li>• Products Status:STOCK</li> <li>• wirless Modem Type:WCDMA</li> <li>• wirless Modem Type:EDGE</li> <li>• Model Number:YDT-S08-</li> <li>• Package:Yes</li> <li>• Interface Type:USB</li> <li>• Network:3G WCDMA</li> <li>• Frequency:900/2100MHZ</li> <li>• AT Command:Support</li> <li>• Function:sms advertisement</li> <li>• Warranty:12 month</li> <li>• OS systems:windows&amp;Linux</li> <li>• Working voltage:100-240VAC</li> <li>• Interface:USB2.0</li> <li>• network:2G&amp;3G WCDMA</li> </ul>
45	1	unit	<b>PORTABLE AUDIO SYSTEM</b>
			<i>End-user: CCSIT</i>
			<p><b>Specs:</b></p> <ul style="list-style-type: none"> <li>• Controls: Volume, Treble, Bass, Reverb level and 20dB Pad Per Channel • Hi-Z Instrument/Line Switch, Bluetooth Pair Switch, Master Volume • Voltage: International voltage operation (100V-120V / 220V-240V)Wattage: at least 375 Watts • Inputs: Eight - (Four XLR Mic/Line, One 1/4" Instrument/Line, One Stereo 1/4", One Stereo 1/8", One Stereo Bluetooth) • Headphone Jack: 1/8" Stereo with Level Control • Line Out: Three - One Stereo 1/8" Phones/Line, One 1/4" Mono, One 1/4" Sub Out with automatic high-pass filter for powered subwoofer use, Mono Out with Level control for powered monitor use • Knobs: Soft-Touch Radial Controls • Speaker Jack: Two 1/4" Left and Right (Stereo) • Channels: Seven - (Four XLR Mic/Line, One Instrument/Line, One Stereo 1/4" / 1/8" / Bluetooth) • Horn Tweeter: Two - 1.2" Horn-Loaded Tweeter • Cabinet Material: Molded Plastic • Handle: Integrated Top-Mount Handle • Front Panel: High Contrast for High Visibility in Low-Light Conditions • Amplifier Depth: 11" (27.94 cm)Amplifier Width: 29" (73.66 cm)Amplifier Height: 23" (58.42 cm)Amplifier Weight: 44 lbs. (19.96 kg)Effects: Reverb</li> </ul>

			<b>MICROPHONE</b>
46	1	unit	<b>COMPACT MICROPHONE SYSTEM</b> (End-user: Campus Headliner)
			<p><b>Specs:</b>  Transmission Type: 2.4GHz Digital Frequency Agile System  Acoustic Principle: Pre-polarised pressure transducer  Polar Pattern: Omnidirectional  Equivalent Input Noise: 21.8dB (A-Weighted)  Frequency Range: 50Hz - 20kHz  External Mic Input: 20Hz - 20kHz  Maximum Output Level: +3dBu  Maximum SPL: 100dB SPL (1kHz @ 1m)  Dynamic Range: 100dBA (Mic Preamplifiers)  Power Requirements: Inbuilt Li-po battery rechargeable via USB  Battery Life: Up to 7 hours  Analog Inputs: 3.5mm TRS lavalier microphone input (transmitter)  Analog Outputs: 3.5mm TRS (receiver)  Computer Connectivity: USB (firmware update)  OS Requirements  (For firmware update only) macOS 10.11 above Windows 10 and above  Analog Outputs: 6ms  Mechanical Specifications  Form Factor  Clip-on pack  Weight (g): TX: 31 RX: 31  Dimensions (mm): TX: 44 × 45.3 × 18.5 RX: 44 x 46.4 x 18.5  Included Accessories  2 x fur windshield, 1 x pouch, 2 x USB-A to USB-C cables, 1 x SC2 cable  Box Contains  1 x Transmitter (Black or White)  1 x Receiver (Black or White)  2 x Fur Windshield (Black or White)  1 x SC2 3.5mm TRS Cable  2 x USB-A to USB-C Cable  1 x Wireless GO Pouch</p>
47	2	units	<b>WIRELESS MICROPHONE</b> (End-user: CCSIT)
			<p><b>Specs:</b>  Frequency response: 50 to 15,000 Hz  Features:  Versatile, high-quality microphone with sound characteristics similar to the SM58®  Selectable dual-impedance operation  Silent magnetic reed on/off switch with lock-on option  Cardioid dynamic</p>
48	1	unit	<b>DEITY MICROPHONE</b> (End-user: Campus Headliner)
			<p><b>Specs:</b>  1/2" Capsule with Gold-Plated Membrane  Cardioid Polar Pattern  All-Metal Body</p>

			Ultra-Low Noise Includes Microphone Clips Includes Windshields IN THE BOX: 2 x M5 Compact 1/2" Condenser Microphone 2 x RM5 Durable Microphone Clip 2 x WS5 Pop Filter/Wind Shield
			<b>AVR</b>
49	1	unit	<i>End-user: Cashier's Office</i>
			<b>Specs:</b> With Step Down Transformer and Power on Delay Max. Capacity: 2000 Watts Input: 160V AC- 240V AC Output (+/-2%): 100V AC, 110V AC & 220V AC X 3 System: Servo-Motor Type AVR response time: Within 1 second against +/-1% input voltage deviation Delay response time: 3 to 5 minutes w/ bypass option
50	4	units	<i>End-user: Teacher Education</i>
			<b>Specs:</b> CapacityLoad: 500 watts Max Surge / 165w Continuous Motorized / 250w Continuous Electronic VoltageRegulator: Servo Motor Power On Delay: Yes, Around 2 Minutes Surge Protection: Yes/ FUSE Power Input: 160V to 250 Volts AC, 60 Hz 110v Output: Yes x 1,2 Prong 220v Output: Yes x2, 2 Prong Voltage Meter: Yes, Analog Ampere Meter: None Usage: (Home-Yes) / (Commercial-Yes) / (Industrial-No)
			<b>ACCESSORIES</b>
51	2	units	<b>NAS HDD</b> ( <i>End-user: Information System</i> )
			<b>Specs:</b> Digital Storage Capacity: 16 TB Compatible Devices: Desktop / NAS Hard Disk Interface:Serial ATA Connectivity Technology: SATA Hard Disk Form Factor: 3.5 inches Hard Disk Size: 16 TB Form Factor: 3.54 inches Read Speed: 210 Megabytes Per Second
52	2	units	<b>HDD</b> ( <i>End-user: Marketing &amp; Communication (now: PASCom)</i> )
			<b>Specs:</b> Capacity:16TB Compatibility: compatible with Synology DS1621+

			7200 RPM 512e/4Kn SATA 6Gb/s 256MB Cache 3.5-Inch The drive is designed for maximum storage capacity and the highest rack-space efficiency <sup>3</sup> Footprint: 33% more petabytes per rack. Operating Temperature = 5 Degrees Celsius 60 Degrees Celsius.
			<b>ACCESS POINT</b>
53	5	units	<i>End-user: Research &amp; Innovation</i>
			<b>Specs:</b> Nano HD Dual-band, 802.11ac Wave 2 access point that can support over 200 clients with its 2+ Gbps aggregate throughput rate Four-Stream, 802.11ac Wave 2 WiFi Technology 5 GHz (4x4 MU-MiMO) band with a 1.733 Gbps throughput rate 2.4 GHz (2x2 MIMO) band with a 1.733 Gbps throughput rate 200+ concurrent client capacity Powered by 802.3af PoE (PoE injector included with single pack) Ceiling mounted (Disc Type)
54	5	units	<i>End-user: (CCSIT)</i>
			<b>Specs:</b> Wireless Weight: 315 g Processor: 880 MHz MIPS 1004 Kec -Memory: 256MB Network Port: (1) LAN port 10/100/1000 -Button: Reset on default -LED light: white/Blue Power supply method: 802.3af PoE, Passive PoE (48V) -Power supply: 802.3af PoE; 48V, 0.32A PoE Adapter -Support voltage range: 44 to 57VDC Maximum power consumption: 12W -Support voltage range: 44 to 57VDC -TX Power: 2.4GHz: 23 dBm - 5GHz: 23 dBm -MIMO: 2.4GHz: 2x2-5GHz: 2x2 Throughput Speeds: 2.4GHz: 300 Mbps 5GHz: 1201 Mbps Wireless Security: WPA-PSK, WPA-Enterprise (WPA/ WPA2/ WPA3) -BSSID: 8 per Radio Hanging: Wall/ Ceiling Operating temperature: -30 to 60°C (-22 to 140°F) Operating Humidity: 5 to 95% Noncondensing -Certificate: CE, FCC, IC
55	1	unit	<i>End-user: CCJ</i>
			<b>Specs:</b> Wireless Standard IEEE 802.11 b/g/n 2.4 GHz IEEE 802.11 a/n/ac 5 GHz Wireless Speed Transmit:



			300 Mbps* for 2.4 GHz 867 Mbps* for 5 GHz Receive: 300 Mbps* for 2.4 GHz 867 Mbps* for 5 GHz Wireless Security WPA-PSK/WPA2-PSK, WPS Wireless Features Guest WiFi WiFi Protected Setup (WPS) WiFi Multimedia (WMM) Auto channel selection Wireless output power management Wireless scheduling MAC address filtering Routing Network Address Translation (NAT) WAN type: Static IP, DHCP, PPPoE DHCP server/client IGMP v1/v2Auto-IP changeDynamic DNSFirewallStateful Packet Inspection (SPI)Deny of Service (DoS) PreventionApplication Control ONE Connect System Management Online firmware upgrade Remote management UPnP Operation Mode Router mode AP mode
56	1	unit	<b>DSLR BOKEH LENS</b> (End-user: Campus Headliner)
			<b>Specs:</b>
			Angle of View (Diagonal) 46° Angle of View (Horizontal) 40° Angle of View (Vertical) 27° Closest Focusing Distance (m, ft) 0.45/1.5 Construction (Groups Elements) 6-7 Diameter x Length (mm) (Approx.) 73.8 x 50.5 Distance Scale - Drive System Micro USM Filter Size (mm) 58 Max. Magnification (x) 0.15 Min. Aperture 22 No. of Diaphragm Blades 8 Anti-dust and Moisture Not Supported Weight (g) (Approx.) 290 Accessories (Lens Cap) E-58 II

			Accessories (Lens Hood) ES-71 II Accessories (Lens Bag) LP1014
57	2	units	<b>EXTERNAL FLASH</b> (End-user: Marketing & Communication (now: PASCom))
			<p><b>Specs:</b>  Coverage Full-Frame  28 to 105 mm  Auto Zoom Head Yes  Bounce Head -7 to +120°  Swivel Head 330°  Flash Duration 1/300 to 1/20000 Second  Recycle Time Approx. 1.5 Seconds  Secondary Illumination Modeling Light  Exposure Control  Exposure Control Canon E-TTL / E-TTL II  Flash Modes Hi-Speed Sync, Second-Curtain Sync  Wireless  Wireless Operation Radio (TTL/Manual)  Up to 328.08' / 100 m (Master, Slave)  Wireless Channels 32  Wireless Groups 4  PowerInternal Power 1 x RechargeableExternal Power Pack Compatible  NoGeneralMount ShoeOff-Camera Terminal 2.5 mmDimensions (W x H x D) 3 x 7.8 x 3.7" / 76 x 197 x 93 mmWeight 1.17 lb / 530 g (with Battery)Packaging  InfoPackage Weight 2.155 lbBox Dimensions (LxWxH) 9 x 8.3 x 4"</p>
58	3	units	<b>SSD</b> (End-user: Marketing & Communication (now: PASCom))
			<p><b>Specs:</b>  Type  • Product Type: SSD  • Usage Application: Client PCs  • Interface: PCIe Gen 3.0 x 4, NVMe 1.3  Application  • Consumer: Yes  Storage  • Capacity: 1,000GB (1GB=1 Billion byte by IDEMA) * Actual usable capacity may be less (due to formatting, partitioning, operating system, applications or otherwise)  Key Features  • Sequential Read Speed: Up to 3,500 MB/s * Performance may vary based on system hardware &amp; configuration  • Sequential Write Speed: Up to 3,300 MB/s * Performance may vary based on system hardware &amp; configuration  • Random Read Speed: Random Read (4KB, QD32): Up to 600,000 IOPS; Random Read (4KB, QD1): Up to 19,000 IOPS * Performance may vary based on system hardware &amp; configuration  • Random Write Speed: Random Write (4KB, QD32): Up to 550,000 IOPS; Random Write (4KB, QD1): Up to 60,000 IOPS * Performance may vary based on system hardware &amp; configuration  • NAND Flash: Samsung V-NAND 3-bit MLC  • Cache Memory: Samsung 1GB Low Power DDR4 SDRAM</p>

			<ul style="list-style-type: none"> <li>• Trim Support: Supported</li> <li>• AES Encryption: AES 256-bit Encryption (Class 0)TCG/Opal IEEE1667 (Encrypted drive)</li> <li>• S.M.A.R.T. Support: Supported</li> <li>• GC (Garbage Collection) : Auto Garbage Collection Algorithm</li> <li>• WWN Support: Not supported</li> <li>• Device Sleep Mode Support: Yes</li> <li>• Temperature proof: Yes</li> <li>• NVMe: Yes</li> <li>• Gaming SSDs: Yes</li> </ul> <p>General</p> <ul style="list-style-type: none"> <li>• Average Power Consumption (system level) : * Average: 6 W * Maximum: 9 W (Burst mode) * Actual power consumption may vary depending on system hardware &amp; configuration</li> <li>• Power consumption (Idle): Max. 30 mW * Actual power consumption may vary depending on system hardware &amp; configuration</li> <li>• Voltage: 3.3 V <math>\pm</math> 5 % Allowable voltage</li> <li>• Reliability (MTBF): 1.5 Million Hours Reliability (MTBF)</li> </ul> <p>Environmental Specs</p> <ul style="list-style-type: none"> <li>• Operating Temperature: 0 – 70 °C Operating Temperature</li> <li>• Shock: 1,500 G &amp; 0.5 ms (Half sine)</li> </ul> <p>Form Factor • Product : M.2 (2280)Dimensions (W x H x D) • Product 80.15 x 22.15 x 2.38 (mm)Weight • Product : Max 8.0 g WeightSoftware • Management SW: Magician Software for SSD management</p>
59	2	units	<b>CAMERA TRIPOD</b> (End-user: Campus Headliner)
			<p><b>Specs:</b></p> <ul style="list-style-type: none"> <li>• SLIM video tripod, video head, and soft case</li> <li>• Adjustable pan bar</li> <li>• Quick release camera plate with a D-ring 1/4"-20 mounting screw</li> <li>• Aluminum construction</li> <li>• 5.5 lb payload</li> <li>• Smooth damping pan and tilt movements</li> <li>• Four leg sections</li> <li>• 57" max height with the center column raised</li> <li>• 20.5" folded height</li> <li>• Half-turn twist lock leg locks</li> <li>• Individual leg positioning</li> <li>• Weight hook on the bottom of the center column</li> <li>• Fixed rubber feet</li> <li>• Bubble levels on the tripod and video head</li> </ul>
60	2	units	<b>UPS REGULATOR</b> (End-user: Records Mngt Office)
			<p><b>Specs:</b></p> <p>Product Description: EASY UPS BV 1000VA, AVR, Universal Outlet, 230V</p> <p>Key Features</p> <p>Max. Capacity Used: 100%</p>

			<p>Output power capacity: 600 Watts / 1.0kVA</p> <p>Output Connections: (4) Universal receptacle (Battery Backup)</p> <p>Nominal Output Voltage: 230V</p> <p>Nominal Input Voltage: 230V</p> <p>Input Connections: NEMA 5-15P</p>
61	2	units	<b>LED DIGITAL CLOCK</b> (End-user: Research & Innovation)
			<p><b>Specs:</b> 24 Hours Temperature / Day of Week/ Date LED display visible in day / night operation Power: 220V AC or 5V DC (Adapter Included) Wall display Built-in battery back-up (for setting) LED Colour Available: Red Product Dimension: 20" x 7.5" x 2"</p>
62	1	unit	<b>GIGABIT SWITCH</b> (End-user: Records Mngt Office)
			<p><b>Specs:</b> Size: 190 x 120 x 38 mm (7.48 x 4.72 x 1.50 inches) Number of Ports 16 ports Switching Capacity • 12 Gbps 64-byte Maximum Forwarding Rate • 8.9 Mpps MAC Address Table Size • 4K Entries SDRAM for CPU • 128 MB Packet Buffer • 128 KB Flash Memory • 16 MB</p>
63	1	unit	<b>DSLR TRIPOD</b> (End-user: CHTM)
			<p><b>Specs:</b> Carbon Fiber Tripod with bag Ball Head Load Capacity: Estimated 26.5 lb Max. Height: 65" - 69" Min. Height: 17 - 19" Leg Sections: 3 Weight: Estimated 5.1 lb</p>

64	2	units	<b>HARD CASE PHOTOGRAPHY TROLLEY</b> (End-user: Campus Headliner)
			<b>Specs:</b> Easy open latches Air valve Top and side handle Steel hinge -Security lock Waterproofing Handle lock EXTERNAL: 550 x 345 x 235mm ( 21.6X13.5X9.2in ) INTERNAL: 510X290x185mm (20X11.4X7.2in) LID / COVER DEPTH: 45mm CASE DEPTH: 140mm CASE WEIGHT: 5.3 KG MATERIAL: HIGH QUALITY PP RESIN
65	1	unit	<b>DIGITAL VOICE RECORDER</b> (End-user: VPAF)
			<b>Specs:</b> PX Series 4 GB internal memory, expandable to 32 GB with micro SD S-microphone system records distant or quiet sounds clearly Focus and wide-stereo recording captures the voices you want to hear Auto voice recording reduces backgrounds noise Built-in USB connector Built-in Memory 4GB Input and Output Terminals: {PC I/F} Hi-Speed USB {Input} Stereo Mic-in jack {Output} Stereo Earphone jack
66	1	unit	<b>FINGERPRINT SCANNER</b> (End-user: Graduate School)
			<b>Specs:</b> URU4500 with USB 700 DPI Resolution Fingerprint Scanner Pixel Resolution: 512 dpi (average x, y over the scan area) Scan capture area: 14.6 mm (nom. width at center) 18.1 mm (nom. length) (nom. length) 8-bit grayscale (256 levels of gray) Reader size (approximate): 65 mm x 36 mm x 15.56 mm Compatible with USB 1.0, 1.1 and 2.0 (Full Speed) specs Indoor, home and office use
67	1	unit	<b>MICROPHONE BOOM HOLDER</b> (End-user: Campus Headliner)
			<b>Specs:</b> Heavy duty die-cast aluminum base -Steel tube body -Oversized height adjustment clutch Strong steel boom clutch Heavy duty die-cast aluminum base -Steel tube body -Oversized height adjustment clutch -Strong steel boom clutch -Two cable clips

			-Black Powder coating -2 Mic Holder
			<b>WEBCAM</b>
68	1	unit	<i>End-user: Human Resource Mngt Office</i>
			<b>Specs:</b> 1080P/ 30FPS Full HD Video Auto Low-Light Correction Built-In noise cancelling mic Drive-Free (Plug and play) Compatible with Windows, Mac OS, Android
69	2	units	<i>End-user: International Affairs Office</i>
			<b>Specs:</b> Image Sensor: 1080p FULL HD Quality Video Quality: Up to 2 Megapixels and 30 fps recording Image Quality: 16 megapixels(4680x3546)
70	4	units	<b>EXTERNAL HARD DRIVE - 2 TB</b> ( <i>End-users: (3)UISA &amp; (1)EOQA</i> )
71	3	units	<b>EXTERNAL HARD DRIVE - 1 TB</b> ( <i>End-user: Campus Headliner</i> )
72	2	units	<b>DRONE PROPELLER</b> ( <i>End-user: Marketing &amp; Communication (now: PASCom)</i> )
			<b>Specs:</b> Highlights <ul style="list-style-type: none"> <li>· Classic quick release design</li> <li>· Quieter and longer flight</li> <li>· Low-Noise Propeller</li> <li>· Diameter × Thread Pitch: 8.7 × 4.3 in (22.00 × 10.92 cm)</li> <li>· Weight: 7.9 g for each</li> </ul> Compatibility <ul style="list-style-type: none"> <li>· L1P DJI Mavic 2 pro</li> </ul>
73	1	unit	<b>WIFI ROUTER</b> ( <i>End-user: International Affairs Office</i> )
			<b>Specs:</b> WIRELESS Standards Wi-Fi 5 IEEE 802.11ac/n/a 5 GHz IEEE 802.11n/b/g 2.4 GHz WiFi Speeds AC1200 5 GHz: 867 Mbps (802.11ac) 2.4 GHz: 300 Mbps (802.11n) WiFi Range 3 Bedroom Houses 4× Fixed High-Performance Antennas Multiple antennas form a signal-boosting array to cover more directions and large areas

			<p>Beamforming Concentrates wireless signal strength towards clients to expand WiFi range</p> <p>WiFi Capacity Medium</p> <p>Dual-Band Allocate devices to different bands for optimal performance</p> <p>MU-MIMO Simultaneously communicates with multiple MU-MIMO clients</p> <p>Working Modes Router Mode Access Point Mode</p> <p>HARDWARE Processor Qualcomm</p> <p>CPU Ethernet Ports 1× Gigabit WAN Port 4× Gigabit LAN Ports</p> <p>Buttons WPS/Wi-Fi Button Power On/Off Button Reset Button</p> <p>Power 12 V = 1 A</p>
74	1	unit	<b>USB CONDENSER MICROPHONE</b> (End-user: Human Resource Mngt Office)
			<p><b>Specs:</b></p> <p>Polar pattern: Omnidirectional</p> <p>Voltage: 4.5V</p> <p>Sensitivity: 58 ± 2Db</p> <p>Impedance: 2.2KΩ</p> <p>Frequency characteristics: 100Hz-10KH</p> <p>USB Cable length: 1.50m/5ft</p>
75	2	units	<b>SD CARD</b> (End-user: Campus Headliner)
			<p><b>Specs:</b></p> <p>Card Type SDXC</p> <p>Storage Capacity 128 GB</p> <p>Bus Type UHS-I</p> <p>Speed Class 10</p> <p>UHS Speed Class U3</p> <p>Video Speed Class V30</p> <p>Read Speed Maximum: 170 MB/s</p> <p>Write Speed Maximum: 90 MB/s</p> <p>Minimum: 30 MB/s</p> <p>Durability Shockproof, Temperature Extremes, Waterproof, X-Ray Proof</p> <p>Operating Temperature -13 to 185°F / -25 to 85°C</p> <p>Storage Temperature -40 to 185°F / -40 to 85°C</p> <p>Built-in Write-Protect Switch Yes</p> <p>Wireless Capability None</p> <p>Packaging Info</p> <p>Package Weight 0.035 lb</p> <p>Box Dimensions (LxWxH) 6 x 3.95 x 0.25"</p>
76	2	units	<b>MICRO SD</b> (End-user: Marketing & Communication (now: PASCom))
			<p><b>Specs:</b></p> <ul style="list-style-type: none"> <li>• 128GB Storage Capacity</li> <li>• UHS-I / V30 / U3 / Class 10</li> <li>• Max Read Speed: 170 MB/s</li> <li>• Max Write Speed: 90 MB/s</li> </ul>

			<ul style="list-style-type: none"> <li>• Min Write Speed: 30 MB/s</li> <li>• Records Full HD, 3D, and 4K Video</li> <li>• Built-In Write-Protect Switch</li> </ul>
77	2	units	<b>SCENE CLAPPER BOARD</b> ( <i>End-user: Campus Headliner</i> )
			<b>Specs:</b> Material: Built-in Magnetic strip + Organic(Acrylic) material Dimension: 9.85 x 11.8in/25x30cm Used for: Film, TV plays, Studio live, Advertisement, Video etc.
78	10	pcs	<b>POWER SUPPLY</b> ( <i>End-user: CoT</i> )
			<b>Specs:</b> RS PRO 500W PC Power Supply 200-240V dc Input, 3.3V Output
79	3	units	<b>HDMI Cable- 5 meters</b> ( <i>Graduate School</i> )
80	2	units	<b>HDMI Cable</b> ( <i>Research &amp; Innovation</i> )
			<b>Specs:</b> High speed HDMI to HDMI cable, male to male High speed gold plated HDMI cable for LCD, DVD, HDTV (Black/Red), and other HDMI devices Supports Ethernet, 3D, and Audio Return Meets HDMI 1.4 specifications; shielded to defend against interference 10 meters