



S#	Title of the Project	Project M4S2AD: Mutli-Modality & Multi-Model Surveillance System for Anomaly Detection component list (POC-PCCI)			
	Item	Specification	A/U	QTY	
1.	DJI Matrice 350 RTK Or Equivalent	 <p>Specs and Features:</p> <ul style="list-style-type: none"> • Up to 55 Minutes of Flight Time • Multi-Payload Support • DJI RC Plus Controller Included • 6-Direction Sensing & Avoidance • Night-Vision FPV Camera • High Wind, Heat, Cold & Water Resistance • DJI O3 Enterprise Transmission • Maximum Range of 12.4 Miles <p>Accessories:</p> <ul style="list-style-type: none"> • With all accessories. Zenmuse H30T, Bag, charger , parallel charger pot with 2 additional batteries <p>Warranty: OEM Or Equivalent to Above Specs</p>	No	1	2,040,000
2.	DJI Zenmuse H30T Or Equivalent	<p>Specs and Features:</p> <ul style="list-style-type: none"> • Zoom Camera: 40MP sensor, 34x optical zoom, and 400x max digital zoom. • Wide Camera: 48MP sensor with a 1/1.3-inch CMOS for broad situational awareness. • Thermal Imaging: 1280 x 1024 resolution (High-Res) with up to 32x digital zoom. • Laser Rangefinder: Measuring range from 3m to 3000m with high precision. • Night Vision: Full-color night scene mode and NIR auxiliary light for pitch-black operations. • Durability: IP54 rated for dust and water resistance. <p>Accessories:</p> <ul style="list-style-type: none"> • With all accessories. <p>Warranty: OEM Or Equivalent to Above Specs</p>	No	1	2,000,000
3.	DJI mini 4 pro Or Equivalent	 <p>Specs and Features:</p> <ul style="list-style-type: none"> • Folded (without propellers): 148×94×64 mm (L×W×H) 	No	1	200,000

- c Unfolded with propellers: 298 x 373 x 101 mm (L x W x H)
- c Max Ascent Speed
 - o 5 m/s (S Mode)
 - o 5 m/s (N Mode)
 - o 3 m/s (C Mode)
- Max Descent Speed
 - o 5 m/s (S Mode)
 - o 5 m/s (N Mode)
 - o 3 m/s (C Mode)
- Max Horizontal Speed
 - o 16 m/s (S Mode)
 - o 12 m/s (N Mode)
 - o 12 m/s (C Mode)
- Max Flight Time 45 mins
- Max Flight Distance 25km
- Max Wind Speed Resistance 10.7 m/s
- Max Pitch Angle 35°
- Operating Temperature (-10° to 40° C) (14° to 104° F)
- Global Navigation Satellite System (GPS + Galileo + BeiDou)


Camera & Imaging

- Sensor: 1/1.3-inch CMOS with 48 MP effective pixels.
- Lens: 24mm equivalent, f/1.7 aperture, 82.1° FOV.
- ISO: Up to 6400 for normal video/photo; up to 12800 for Night Mode.
- Shutter: Up to 1/16000s for 12MP photos.
- Formats: JPEG/DNG (RAW) for photos; MP4 (H.264/H.265) for video.
- Color: 10-bit 4:2:0 (H.265) in D-Log M and HLG modes.
- Zoom: Up to 3x in 4K and 4x in FHD.



Video Capabilities




- 4K Resolution: 24/25/30/48/50/60/100 fps.
- FHD Resolution: Up to 200 fps (Super Slow Motion).
- Bitrate: Max 150 Mbps.

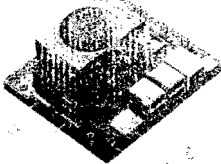
Gimbal & Stabilization

		<ul style="list-style-type: none"> • Type: 3-axis mechanical (Pitch, roll, yaw). • Tilt Range: Controllable from -90° to 60°. • Specialty: Supports True Vertical Shooting. <p>Sensing & Safety</p> <ul style="list-style-type: none"> • Type: Omnidirectional binocular vision + 3D infrared sensor. • Coverage: Forward, Backward, Left, Right, Upward, and Downward protection. • Performance: Effective sensing at flight speeds up to 12 m/s. <p>Video Transmission (O4)</p> <ul style="list-style-type: none"> • Live Feed: 1080p/60fps quality. • Max Range (FCC): 20 km (unobstructed/interference-free). • Latency: Approx. 120 ms. • Antennas: 4-antenna system (2T4R). <p>Battery & Power</p> <ul style="list-style-type: none"> • 45 mins flight time; 3850 mAh; ~121g weight. • Charging: 58–78 mins for a full charge via 30W USB-C hub. <p>Remote Controller (RC-N2)</p> <ul style="list-style-type: none"> • Compatibility: Lightning, USB-C, and Micro-USB. <p>Warranty: OEM Or Equivalent to Above Specs</p>			
4.	Lenovo Legion 5 - Raptor Lake - 14th Gen Core i7 14650HX 16-Core Processor 16-GB 1-TB SSD 8-GB NVIDIA GeForce RTX4060 GDDR6 GC 16" WQXGA 1600p IPS 165Hz	 <p>Specs and Features:</p> <ul style="list-style-type: none"> • Brand: Lenovo • Generation: 14th Generation • Processor Type: Intel® Core™ i7-14650HX, 16-Core (8P + 8E) / 24Threads • Processor Speed: P-core 2.2 / 5.2GHz, E-core 1.6 / 3.7GHz, 30MB 	No	1	415,000

	<p>G-Sync Display Nahimic Audio 4-Zone RGB BKB (Luna Grey, Lenovo Direct Local Warranty, NEW) Or Equivalent</p>	<ul style="list-style-type: none"> • Isolated RAM 16GB • Type of memory 1x 16GB SO-DIMM DDR5-5600. Two DDR5 SO-DIMM slots, dual-channel capable. Up to 64GB DDR5-5600 • Hard drive size 1TB SSD M.2 2242 PCIe® 4.0x4 NVMe® • Hard drive speed - • Optical Drive No • Type of optical drive - • SSD 1TB SSD • Type of harddrive 1TB SSD M.2 2242 PCIe® 4.0x4 NVMe® • Graphic Series 8-GB NVIDIA GeForce RTX4060 • Dedicated graphics Yes • Graphics memory NVIDIA® GeForce RTX™ 4060 8GB GDDR6, Boost Clock 2370MHz, TGP 140W, 194 AI TOPS • Type of graphics memory Discrete • Switchable graphics - • Graphics processor Intel® HM770 Chipset • Backlight LED • Screen size 16" WQXGA (2560x1600) IPS 350nits Anti-glare, 100% sRGB, 165Hz, Dolby Vision®, G-SYNC®, Low Blue Light • Screen surface 16" WQXGA (2560x1600) IPS 350nits Anti-glare, 100% sRGB, 165Hz, Dolby Vision®, G-SYNC®, Low Blue Light • Screen resolution 2560x1600 • Touchscreen No • Color Black • RAM 16 GB • Operating System DOS • Weight 2.36 kg (5.2 lbs) • Fingerprint Reader No • Numeric keyboard Yes • Backlit keyboard 4-Zone RGB Backlit, English (UK) • Bluetooth BT5.2 • LAN Yes • Speed 100/1000M (RJ-45) • Wireless/Wifi Yes • Type Wi-Fi® 6E, 802.11ax 2x2 • Condition New • USB 2x USB-A (USB 5Gbps / USB 3.2 Gen 1) 1x USB-A (USB 5Gbps / USB 3.2 Gen 1), Always On 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with Lenovo® PD 140W and DisplayPort™ 1.4 1x USB-C® (USB 10Gbps / USB 3.2 Gen 2), with DisplayPort™ 1.4 • HDMI 1x HDMI® 2.1, up to 8K/60Hz • Camera FHD 1080p with E-shutter <p>Warranty: OEM Or Equivalent to Above Specs</p>			
5.	<p>TP-Link TL-SG3210XHP- M2 JetStream 8-Port 2.5GBASE-T and 2-Port 10GE SFP+ L2+</p>	<p>Specs and Features:</p> <ul style="list-style-type: none"> • 8x 2.5 Gbps 802.3at/af-compliant PoE+ ports • 240 W PoE budget with up to 30 W PoE output per port* • 2x 10 Gbps SFP+ slots for lightning-fast uplink • Ideal for the access layer in enterprise networking • Centralized cloud management via the web or the Omada app† 	No	1	85,000

	<p>Managed Switch with 8-Port PoE+ / IP link Or Equivalent</p>	<ul style="list-style-type: none"> • Standard management via web, CLI, SNMP, and RMON • Ethernet Ring Protection Switching (ERPS) • Static Routing • Rack mountable  <p>Accessories:</p> <ul style="list-style-type: none"> • Power Cord • Installation Guide • Rackmount Kit • Rubber Feet <p>Warranty: OEM Or Equivalent to Above Specs</p>			
6.	<p>Logitech webcam (4K Ultra HD video) Or Equivalent</p>	 <p>Specs and Features:</p> <ul style="list-style-type: none"> • 4K Ultra HD video calling (up to 4096 x 2160 pixels @ 30 fps) • 1080p Full HD video calling (up to 1920 x 1080 pixels @ 30 or 60 fps) • 720p HD video calling (up to 1280 x 720 pixels @ 30, 60, or 90 fps) • Plug-and-play USB connectivity • 5x digital zoom in Full HD • Autofocus • Right Light 3 with HDR for clear image in various lighting environments ranging from low light to direct sunlight • Image controls with optional Camera Settings application for control of pan, tilt, and zoom • Built-in dual omni-directional mics with noise cancellation • Infrared sensor technology for Windows Hello (SDK available for application integration) • Multiple mounting options, including clip and tripod mount • Supports multiple connection types, including USB 2.0 Type A and USB 3.0 Type A and C connections <p>Accessories:</p> <ul style="list-style-type: none"> • USB 2.0 Type A and USB 3.0 Type A and C connections <p>Warranty: OEM Or Equivalent to Above Specs</p>	No	2	100,000

	<p>SMART All-Sky Camera Pro with SDCard Or Equivalent</p>	 <p>Specs and Features:</p> <ul style="list-style-type: none"> • Computer: Raspberry Pi 5 (8GB RAM) with 64GB storage (SSD/SD Card) and active cooling. • Camera: Player One Neptune-C II (by default) or ZWO camera with a CS-mount fisheye lens. • Enclosure: Custom 3D-printed enclosure with a high-quality acrylic dome. • Power: 12V DC input (12V, 3A min, 8A max) or Power over Ethernet (PoE). • Connectivity: Ethernet and Wi-Fi • Active Cooling: Includes a built-in ventilator and a regulation circuit to manage the Raspberry Pi 5's temperature. • Memory Card 512GB <p>Warranty: OEM Or Equivalent to Above Specs</p>			283,408
8.	<p>External SSD (8TB) SanDisk Or Equivalent</p>	 <p>Specs and Features:</p> <ul style="list-style-type: none"> • Storage capacity: 8TB • Sequential Read Performance 2000-3000MB/s. • Powerful yet Portable. • USB 3.2 Gen 2/Gen 3 • Fast NVMe solid state performance in a portable, high-capacity drive. <p>Accessories:</p> <ul style="list-style-type: none"> • Waterproof case • Interference cable <p>Warranty: 2 years Or Equivalent to Above Specs</p>	No	2	427,700
9.	<p>Memory Cards Storage Device (SanDisk 128 GB) Or Equivalent</p>	 <p>Specs and Features:</p> <ul style="list-style-type: none"> • 128 GB • Case Adapter <p>Warranty: OEM</p>	No	2	16,900

		Or Equivalent to Above Specs	No.	4	
	Jetson Orin Nano Developer Kit (NVIDIA Jetson Orin Nano SoM) Or Equivalent	 <p>Specs and Features:</p> <ul style="list-style-type: none"> • Processor: NVIDIA Jetson Orin Nano SoM • CPU: 6-core ARM Cortex-A78 CPU • GPU: 512-core NVIDIA Ampere GPU • 8 GB LPDDR5 RAM • 16 GB eMMC storage (for the developer kit) • NVMe and microSD card support for additional storage expansion. • Wi-Fi 6 & Bluetooth 5.2 (dependent on external modules or adapter support). • USB 3.2 ports, Gigabit Ethernet, and other I/O interfaces for wired connections. • Wi-Fi 6 & Bluetooth 5.2 (dependent on external modules or adapter support). • USB 3.2 ports, Gigabit Ethernet, and other I/O interfaces for wired connections. <p>Accessories:</p> <ul style="list-style-type: none"> • VGA to HDMI Converter • Memory card 128 GB • Cables USB Type A to Micro C type • Cable USB Type A to Micro B type • Cable Micro C type to Micro type C • LCD Screen (7-12 Inch) – USB/HDMI Supported <p>Warranty: OEM Or Equivalent to Above Specs</p>			460,800
11.	Green Background Chroma Sheet Or Equivalent	<p>Specs and Features:</p> <ul style="list-style-type: none"> • Material: Non-reflective Polyester or Muslin (Polyester is preferred for its wrinkle-resistance). • Fabric Weight: 140–160 GSM (thick enough to ensure opacity and prevent light bleed). • Color Tone: Chroma Key Green / Digital Green (must be a uniform, matte finish). • Surface Finish: Matte / Anti-glare (essential to prevent light "spill" or hot spots on the subject). • Construction: Seamless (single-piece construction with no middle seams). • Edge Finish: Serged or Hemmed (to prevent the fabric from fraying over time). • Mounting: Top Rod Pocket (minimum 3-inch diameter for standard background stands). • Dimensions: 10ft x 12ft <p>Accessories:</p> <ul style="list-style-type: none"> • Include 4x Heavy-duty Spring Clamps to pull the fabric taut and eliminate wrinkles. <p>Warranty: OEM Or Equivalent to Above Specs</p>	No.	1	6,000
12.	Audionic Hammer Wireless Headphone Or Equivalent	<p>Specs and Features:</p> <ul style="list-style-type: none"> • Drivers: Dual 40mm drivers for deep bass. • Low Latency: 40ms Ultra-Low Latency gaming mode. • Frequency Response: 20Hz – 20kHz. • Battery Capacity: 600mAh. • Charging Port: USB Type-C. 	No.	3	21,000

		<ul style="list-style-type: none">• Dual Pairing: Supports connecting to two devices simultaneously.• Wired Mode: 3.5mm AUX input support.• Compatibility Microphone: Built-in with Environmental Noise Cancellation (ENC) <p>Accessories:</p> <ul style="list-style-type: none">• All necessary accessories included <p>Warranty: OEM Or Equivalent to Above Specs</p>		
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