MEMBEKAL, MEMASANG, MENGUJI DAN MENTAULIAH KELENGKAPAN ICT UNTUK KEGUNAAN BANGUNAN PEJABAT MAJLIS BANDARAYA ISKANDAR PUTERI BAGI TAHUN 2026

SPESIFIKASI TEKNIKAL

BIL.	BAHAGIAN	MUKA SURAT
A	**DISPLAY & MOUNTING**	2/% P%
B	**PRINTING & SCANNING**	3/% P%
C	**INPUT & CONTROL DEVICES**	5/% P%
D	**CAMERA & VISION**	6/% P%
E	**STORAGE & MEMORY**	7/% P%
F	**VIDEO WALL**	9/% P%
G	**INFRASTRUCTURE**	12/% P%

DIJANA OLEH -
11.11.2026

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<tr><td>A.1</td><td>Samsung Essential Monitor S3 S32GF 27" atau yang setara
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<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Display Size</td><td>Minimum 27-inch flat panel display</td></tr>
<tr><td>Panel Type</td><td>IPS panel or equivalent</td></tr>
<tr><td>Resolution</td><td>Full HD (1920 × 1080)</td></tr>
<tr><td>Refresh Rate</td><td>Minimum 120 Hz refresh rate</td></tr>
<tr><td>Response Time</td><td>Maximum 5 ms (GTG)</td></tr>
<tr><td>Brightness</td><td>Minimum 250 cd/m²</td></tr>
<tr><td>Contrast Ratio</td><td>Minimum 1000:1 static contrast ratio</td></tr>
<tr><td>Viewing Angle</td><td>Minimum 178° horizontal / 178° vertical</td></tr>
<tr><td>Aspect Ratio</td><td>16:9 widescreen format</td></tr>
<tr><td>Color Support</td><td>Minimum 16.7 million colors</td></tr>
<tr><td>Video Input</td><td>Minimum HDMI input (2 ports)</td></tr>
<tr><td>VESA Mount</td><td>100 × 100 mm VESA wall mount support</td></tr>
<tr><td>Ergonomic Adjustment</td><td>Tilt adjustment support</td></tr>
<tr><td>Eye Protection</td><td>Low blue light / flicker-free technology</td></tr>
<tr><td>Power Supply</td><td>External power adaptor</td></tr>
<tr><td>Warranty</td><td>Minimum 3 years manufacturer warranty</td></tr>
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<tr><td>A.2</td><td>PRISM+ Arc Stealth Dual Monitor Arm atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>Desk-mounted dual monitor arm system</td></tr>
<tr><td>Supported Monitor Quantity</td><td>Supports two (2) monitors</td></tr>
<tr><td>Supported Monitor Size</td><td>Minimum 17" – 34" display monitors</td></tr>
<tr><td>Weight Capacity</td><td>Minimum 8 kg per monitor arm</td></tr>
<tr><td>Mounting Type</td><td>Desk clamp mount and grommet mount installation</td></tr>
<tr><td>VESA Compatibility</td><td>75 × 75 mm and 100 × 100 mm VESA mounting</td></tr>
<tr><td>Tilt Adjustment</td><td>Minimum +90° to ?90° tilt range</td></tr>
<tr><td>Swivel Adjustment</td><td>Minimum ±90° swivel movement</td></tr>
<tr><td>Rotation</td><td>180° rotation (landscape / portrait orientation)</td></tr>
<tr><td>Arm Extension</td><td>Adjustable arm extension for ergonomic positioning</td></tr>
<tr><td>Cable Management</td><td>Integrated cable management system</td></tr>
<tr><td>Material</td><td>High-strength steel and aluminium alloy construction</td></tr>
<tr><td>Finish</td><td>Durable matte black powder-coated finish</td></tr>
<tr><td>Desk Compatibility</td><td>Suitable for desks approximately 10–50 mm thickness</td></tr>
</table></td><td></td><td></td><td></td></tr>
<tr><td>A.3</td><td>PRISM+ Arc Stealth Pro Dual With Laptop Holder atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>Desk mounted dual monitor arm with laptop holder tray</td></tr>
<tr><td>Mounting Type</td><td>Desk C-clamp or grommet mounting system</td></tr>
<tr><td>Supported Monitor Size</td><td>Minimum 17" – 34" monitor display</td></tr>
<tr><td>Weight Capacity</td><td>Minimum up to 8 kg per arm</td></tr>
<tr><td>Laptop Holder</td><td>Adjustable laptop holder tray supporting 13" – 17" laptop</td></tr>
<tr><td>Structure</td><td>Pole-based modular arm system with adjustable mounting height</td></tr>
<tr><td>Arm Extension</td><td>Up to approximately 514 mm arm extension</td></tr>
<tr><td>Height Adjustment</td><td>Vertical pole adjustment up to approximately 620 mm</td></tr>
<tr><td>VESA Compatibility</td><td>75 × 75 mm and 100 × 100 mm VESA mounting</td></tr>
<tr><td>Tilt Adjustment</td><td>Minimum ±90° tilt adjustment</td></tr>
<tr><td>Swivel Adjustment</td><td>Minimum ±90° swivel movement</td></tr>
<tr><td>Rotation</td><td>180° / portrait-landscape rotation</td></tr>
<tr><td>Cable Management</td><td>Integrated cable management routing system</td></tr>
<tr><td>Material</td><td>High-strength steel and aluminium alloy construction</td></tr>
<tr><td>Desk Compatibility</td><td>Suitable for desk thickness approximately 10 – 50 mm</td></tr>
<tr><td>Finish</td><td>Durable matte black powder-coated finish</td></tr>
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<tr><th>BIL.</th><th>SPESIFIKASI</th><th>YA</th><th>TIDAK</th><th>CATATAN</th></tr>
<tr><td>B</td><td>Printing & Scanning</td><td></td><td></td><td></td></tr>
<tr><td>B.1</td><td>Canon imageCLASS LBP6030w atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Printing Method</td><td>Monochrome Laser Beam Printing</td></tr>
<tr><td>Print Speed</td><td>Minimum 18 pages per minute (A4)</td></tr>
<tr><td>Print Resolution</td><td>Minimum 600 × 600 dpi</td></tr>
<tr><td>Print Quality Enhancement</td><td>Up to 2400 (equivalent) × 600 dpi</td></tr>
<tr><td>First Print Out Time</td><td>Approx. 8 seconds or less</td></tr>
<tr><td>Connectivity</td><td>USB 2.0 and Wireless (Wi-Fi 802.11 b/g/n)</td></tr>
<tr><td>Paper Input Capacity</td><td>Minimum 150 sheets</td></tr>
<tr><td>Supported Paper Size</td><td>A4, A5, B5, Legal, Letter</td></tr>
<tr><td>Memory</td><td>Minimum 32 MB</td></tr>
<tr><td>Monthly Duty Cycle</td><td>Up to 5,000 pages</td></tr>
<tr><td>Operating System Support</td><td>Windows / macOS / Linux compatible</td></tr>
<tr><td>Power Requirement</td><td>220–240V AC, 50/60Hz</td></tr>
</table>
• Catatan
Pembekal hendaklah menyediakan sekali 2 unit toner tambahan untuk pencetak tersebut</td><td></td><td></td><td></td></tr>
<tr><td>B.2</td><td>Epson WorkForce ES-60W Wireless Portable Document Scanner atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>Wireless portable sheet-fed document scanner</td></tr>
<tr><td>Scanning Technology</td><td>Contact Image Sensor (CIS)</td></tr>
<tr><td>Optical Resolution</td><td>Minimum 600 × 600 dpi</td></tr>
<tr><td>Maximum Resolution</td><td>Up to 1200 dpi interpolated</td></tr>
<tr><td>Scan Speed</td><td>Up to 4 seconds per page (single page scan)</td></tr>
<tr><td>Scanning Mode</td><td>Colour, grayscale and monochrome scanning</td></tr>
<tr><td>Maximum Document Size</td><td>Up to A4 (216 × 1828 mm)</td></tr>
<tr><td>Paper Handling</td><td>Supports plain paper, receipts, business cards and plastic ID cards</td></tr>
<tr><td>ADF Capacity</td><td>Single-sheet feed system</td></tr>
<tr><td>Daily Duty Cycle</td><td>Up to 300 pages per day</td></tr>
<tr><td>Connectivity</td><td>USB 2.0 (Micro-USB) and Wi-Fi (802.11 b/g/n)</td></tr>
<tr><td>Wireless Scanning</td><td>Supports scanning to PC, Mac, iOS and Android devices</td></tr>
<tr><td>Battery</td><td>Built-in rechargeable lithium-ion battery</td></tr>
<tr><td>Battery Capacity</td><td>Approx. 1140 mAh</td></tr>
<tr><td>Battery Performance</td><td>Up to 300 scans per full charge</td></tr>
<tr><td>Charging Method</td><td>Recharge via USB connection or AC adapter</td></tr>
<tr><td>Display</td><td>Built-in status LCD display (Wi-Fi and battery indicator)</td></tr>
<tr><td>Software Support</td><td>Epson ScanSmart software with OCR capability</td></tr>
<tr><td>File Output</td><td>Supports PDF, searchable PDF, JPEG, TIFF and editable Word/Excel formats</td></tr>
<tr><td>Operating System Support</td><td>Compatible with Windows and macOS</td></tr>
<tr><td>Warranty</td><td>Minimum 1-year manufacturer warranty</td></tr>
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BIL.	SPESIFIKASI	YA	TIDAK	CATATAN
B.3	**Epson LQ-590 II Impact Printer atau yang setara**			

ITEM	MINIMUM SPECIFICATION
Printer Type	24-Pin Impact Dot Matrix Printer
Printing Method	Serial Impact Dot Matrix
Number of Pins	24 Pins
Print Direction	Bidirectional with Logic Seeking
Print Width	80 Columns
Print Speed	Up to 550 cps (10 cpi) Ultra Speed Draft
Draft Speed	Up to 487 cps (10 cpi) High Speed Draft
Letter Quality Speed	Up to 145 cps
Print Resolution	Up to 360 x 180 dpi
Print Head Life	Minimum 400 Million Strokes/Wire
Ribbon Life	Minimum 5 Million Characters
Mean Time Between Failure (MTBF)	Minimum 25,000 Power-On Hours
Multipart Forms Capability	Minimum 1 Original + 6 Copies
Paper Handling	Continuous Forms, Single Sheets, Multipart Forms, Labels, Envelopes and Card Stock
Paper Feed Path	Front, Rear and Bottom Feed
Character Sets	Standard and International Character Sets
Barcode Support	Code 39, Code 128, EAN-8, EAN-13, UPC-A, UPC-E, Interleaved 2 of 5, POSTNET
Printer Languages	Epson ESC/P2 and IBM PPDS Emulation
Connectivity	USB 2.0 High-Speed and Parallel Interface
Operating Systems Supported	Microsoft Windows 10, Windows 11 or later
Control Panel	Integrated Control Panel with Status LEDs and Function Buttons
Included Accessories	Ribbon Cartridge, Power Cable, Tractor Unit, User Guide and Drivers

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<tr><th>BIL.</th><th>SPESIFIKASI</th><th>YA</th><th>TIDAK</th><th>CATATAN</th></tr>
<tr><td>C</td><td>Input & Control Devices</td><td></td><td></td><td></td></tr>
<tr><td>C.1</td><td>Apple Magic Keyboard for ipad 11" M4/M5 atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Reference Model</td><td>Apple Magic Keyboard for iPad Pro 11-inch or equivalent</td></tr>
<tr><td>Compatibility</td><td>Compatible with iPad Pro 11-inch (latest generation or equivalent)</td></tr>
<tr><td>Connection Type</td><td>Smart Connector with magnetic attachment</td></tr>
<tr><td>Keyboard Type</td><td>Full-size keyboard with backlit keys</td></tr>
<tr><td>Key Mechanism</td><td>Scissor-switch mechanism</td></tr>
<tr><td>Key Travel</td><td>Approximately 1 mm key travel</td></tr>
<tr><td>Trackpad</td><td>Built-in multi-touch trackpad supporting iPadOS gestures</td></tr>
<tr><td>Design</td><td>Floating cantilever design allowing adjustable viewing angles</td></tr>
<tr><td>Function Row</td><td>Integrated function key row for brightness, volume, media control, etc.</td></tr>
<tr><td>Charging Port</td><td>USB-C pass-through charging port</td></tr>
<tr><td>Protection</td><td>Provides front and back protection for the iPad</td></tr>
<tr><td>Build Material</td><td>Premium keyboard case with durable hinge mechanism</td></tr>
<tr><td>Operating System Support</td><td>Compatible with iPadOS 17 or later</td></tr>
<tr><td>Additional Features</td><td>Supports multi-touch gestures and cursor control via trackpad</td></tr>
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<tr><td>C.2</td><td>Logitech Spotlight Wireless Presenter atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>Wireless presentation remote / presenter</td></tr>
<tr><td>Connectivity</td><td>Bluetooth Low Energy or USB receiver (2.4 GHz)</td></tr>
<tr><td>Operating Range</td><td>Up to 30 m (100 ft)</td></tr>
<tr><td>Pointer Type</td><td>Advanced digital pointer (highlight / magnify)</td></tr>
<tr><td>Controls</td><td>Next, Back, Highlight buttons</td></tr>
<tr><td>Compatibility</td><td>Windows, macOS, PowerPoint, Keynote, Google Slides</td></tr>
<tr><td>Battery</td><td>Rechargeable Lithium-Polymer battery</td></tr>
<tr><td>Charging</td><td>USB-C charging</td></tr>
<tr><td>Battery Life</td><td>Up to 3 months per full charge</td></tr>
<tr><td>Sensors</td><td>3D accelerometer & gyroscope</td></tr>
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<tr><td>C.3</td><td>Honeywell Xenon 1902g Wireless Barcode Scanner atau yang setara
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<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>Wireless handheld 1D / 2D barcode scanner</td></tr>
<tr><td>Scanning Technology</td><td>Area-imaging technology with Adaptus™ Imaging Technology 6.0</td></tr>
<tr><td>Supported Barcode Types</td><td>1D, 2D, PDF417, QR Code, Data Matrix, Aztec</td></tr>
<tr><td>Connectivity</td><td>Bluetooth wireless communication</td></tr>
<tr><td>Wireless Range</td><td>Minimum 10 m (33 ft) operating range from base station</td></tr>
<tr><td>Scanning Performance</td><td>High-speed omnidirectional barcode scanning</td></tr>
<tr><td>Sensor Type</td><td>Custom area imager optimized for barcode scanning</td></tr>
<tr><td>Mobile Barcode Support</td><td>Capable of scanning barcodes from smartphone and tablet screens</td></tr>
<tr><td>Scanning Mode</td><td>Handheld trigger scanning</td></tr>
<tr><td>Image Capture</td><td>Supports image capture and digital image processing</td></tr>
<tr><td>Battery</td><td>Rechargeable Lithium-Ion battery</td></tr>
<tr><td>Battery Life</td><td>Up to 14 hours of continuous operation</td></tr>
<tr><td>Drop Resistance</td><td>Minimum 1.8 m (6 ft) drop resistance</td></tr>
<tr><td>Environmental Protection</td><td>Industrial-grade rugged construction</td></tr>
<tr><td>Indicator</td><td>LED indicator and audible beeper feedback</td></tr>
<tr><td>Host Interface</td><td>USB / Keyboard Wedge / RS-232 / IBM POS interface support</td></tr>
<tr><td>Charging Method</td><td>Charging via communication base station or USB cable</td></tr>
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<tr><th>BIL.</th><th>SPESIFIKASI</th><th>YA</th><th>TIDAK</th><th>CATATAN</th></tr>
<tr><td>D</td><td>Camera & Vision</td><td></td><td></td><td></td></tr>
<tr><td>D.1</td><td>Insta360 Link 2 Pro AI 4K Webcam atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>AI-powered 4K webcam with intelligent tracking</td></tr>
<tr><td>Image Sensor</td><td>Minimum 1/1.3-inch CMOS sensor</td></tr>
<tr><td>Video Resolution</td><td>Up to 4K UHD (3840 × 2160) @30fps</td></tr>
<tr><td>Alternative Resolution</td><td>1080p @60fps, 720p video modes</td></tr>
<tr><td>Lens Aperture</td><td>Approx. f/1.9 aperture</td></tr>
<tr><td>Field of View</td><td>Approximately 84° wide viewing angle</td></tr>
<tr><td>Focus System</td><td>Phase detection autofocus (12 cm – ?)</td></tr>
<tr><td>AI Tracking</td><td>AI subject tracking with motorized 2-axis gimbal</td></tr>
<tr><td>Auto Framing</td><td>AI auto framing for individual or group participants</td></tr>
<tr><td>AI Features</td><td>AI tracking, gesture control, DeskView mode, Whiteboard mode, portrait mode, virtual background</td></tr>
<tr><td>HDR Support</td><td>HDR video support for improved lighting balance</td></tr>
<tr><td>Zoom</td><td>Up to 4× digital zoom</td></tr>
<tr><td>Audio</td><td>Dual microphones with beamforming and AI noise cancellation</td></tr>
<tr><td>Connectivity</td><td>USB-C interface (USB-C to USB-A adapter supported)</td></tr>
<tr><td>Mounting</td><td>Magnetic mount with 1/4? tripod thread compatibility</td></tr>
<tr><td>Orientation</td><td>Supports landscape and portrait orientation</td></tr>
<tr><td>Software Support</td><td>Compatible with Zoom, Microsoft Teams, Google Meet, OBS and streaming platforms</td></tr>
<tr><td>Operating System</td><td>Windows and macOS compatible</td></tr>
<tr><td>Power Source</td><td>Powered via USB connection</td></tr>
<tr><td>Build</td><td>Compact webcam body with integrated 2-axis gimbal tracking system</td></tr>
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<tr><td>E.1</td><td>SanDisk Ultra Dual Drive Go atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>USB Flash Drive with dual connector (USB-C and USB-A)</td></tr>
<tr><td>Storage Capacity</td><td>Minimum 256 GB flash storage</td></tr>
<tr><td>Interface</td><td>USB Type-C and USB Type-A connectors</td></tr>
<tr><td>USB Standard</td><td>USB 3.2 Gen 1 / USB 3.1 Gen 1</td></tr>
<tr><td>Read Speed</td><td>Up to 150 MB/s read speed</td></tr>
<tr><td>Compatibility</td><td>Compatible with Windows, macOS, Android and USB-C mobile devices</td></tr>
<tr><td>OTG Support</td><td>Supports USB On-The-Go (OTG) devices</td></tr>
<tr><td>Design</td><td>Swivel design to protect connectors</td></tr>
<tr><td>Backup Support</td><td>Compatible with SanDisk Memory Zone application for file backup</td></tr>
<tr><td>Build Material</td><td>Durable plastic housing</td></tr>
<tr><td>Attachment</td><td>Integrated keyring hole for portability</td></tr>
<tr><td>Operating Temperature</td><td>Typical consumer flash drive operating range</td></tr>
<tr><td>Warranty</td><td>Minimum 5-year limited manufacturer warranty</td></tr>
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<tr><td>E.2</td><td>SanDisk Ultra Dual Drive Luxe atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>USB flash drive with dual connector (USB-C and USB-A)</td></tr>
<tr><td>Storage Capacity</td><td>Minimum 512 GB flash storage</td></tr>
<tr><td>Interface</td><td>USB Type-C and USB Type-A connectors</td></tr>
<tr><td>USB Standard</td><td>USB 3.2 Gen 1 / USB 3.1 interface</td></tr>
<tr><td>Read Speed</td><td>Up to 400 MB/s read speed (depending on capacity)</td></tr>
<tr><td>Compatibility</td><td>Compatible with Windows, macOS, Android, and USB-C mobile devices</td></tr>
<tr><td>OTG Support</td><td>Supports USB On-The-Go (OTG) devices</td></tr>
<tr><td>Design</td><td>Dual swivel design to protect connectors</td></tr>
<tr><td>Build Material</td><td>All-metal housing for durability</td></tr>
<tr><td>Attachment</td><td>Integrated keyring hole for portability</td></tr>
<tr><td>Software Support</td><td>Compatible with SanDisk Memory Zone app for backup and file management</td></tr>
<tr><td>Operating System Support</td><td>Windows 10/11, macOS, Android</td></tr>
<tr><td>Warranty</td><td>Minimum 5-year limited manufacturer warranty</td></tr>
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<tr><td>E.3</td><td>WD My Passport 4TB Portable External Hard Drive atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>Portable external hard disk drive</td></tr>
<tr><td>Storage Capacity</td><td>Minimum 4 TB</td></tr>
<tr><td>Drive Type</td><td>2.5-inch portable hard disk drive (HDD)</td></tr>
<tr><td>Interface</td><td>USB 3.2 Gen 1 / USB 3.0 interface</td></tr>
<tr><td>Connector Type</td><td>USB-C with USB-A adapter cable</td></tr>
<tr><td>Data Transfer Rate</td><td>Up to 5 Gb/s (USB 3.2 Gen 1)</td></tr>
<tr><td>Read/Write Speed</td><td>Approx. 120–140 MB/s typical transfer speed</td></tr>
<tr><td>Power Source</td><td>USB powered (no external power adapter required)</td></tr>
<tr><td>Security</td><td>256-bit AES hardware encryption with password protection</td></tr>
<tr><td>Software Support</td><td>Compatible with WD Backup software and device management utilities</td></tr>
<tr><td>Compatibility</td><td>Supports Windows, macOS (reformat required)</td></tr>
<tr><td>Design</td><td>Compact palm-size portable design</td></tr>
<tr><td>Build</td><td>Durable plastic enclosure</td></tr>
<tr><td>Operating System Support</td><td>Windows 10/11, macOS (via reformat)</td></tr>
<tr><td>Operating Temperature</td><td>Typical portable storage operating range</td></tr>
<tr><td>Warranty</td><td>Minimum 3-year manufacturer limited warranty</td></tr>
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<tr><th>BIL.</th><th>SPESIFIKASI</th><th>YA</th><th>TIDAK</th><th>CATATAN</th></tr>
<tr><td>E.4</td><td>SanDisk Extreme PRO 512GB UHS-I SDXC atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>Secure Digital SDXC memory card</td></tr>
<tr><td>Storage Capacity</td><td>Minimum 512 GB</td></tr>
<tr><td>Card Type</td><td>SDXC (Secure Digital eXtended Capacity)</td></tr>
<tr><td>Bus Interface</td><td>UHS-I</td></tr>
<tr><td>Speed Class</td><td>Class 10, UHS Speed Class 3 (U3)</td></tr>
<tr><td>Video Speed Class</td><td>V30</td></tr>
<tr><td>Maximum Read Speed</td><td>Up to 200 MB/s read speed</td></tr>
<tr><td>Maximum Write Speed</td><td>Up to 140 MB/s write speed</td></tr>
<tr><td>Application</td><td>Suitable for DSLR, mirrorless cameras, action cameras and professional photography</td></tr>
<tr><td>Video Recording Support</td><td>Supports Full HD and 4K UHD video recording</td></tr>
<tr><td>Burst Photography</td><td>Supports continuous burst shooting and RAW image capture</td></tr>
<tr><td>Durability</td><td>Waterproof, temperature-proof, shockproof and X-ray proof</td></tr>
<tr><td>Physical Protection</td><td>Built-in write-protect switch</td></tr>
<tr><td>Warranty</td><td>Limited lifetime manufacturer warranty</td></tr>
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BIL.	SPESIFIKASI	YA	TIDAK	CATATAN
F	**Video wall**			

BIL.	SPESIFIKASI	YA	TIDAK	CATATAN
F.1	**Videowall 2x2(4 Panels)**			

LG 55VM5J-H atau setara	ITEM	MINIMUM SPECIFICATION
	System Type	Video Wall System configuration 2×2 (4 panels) complete with controller, mounting system and installation accessories
	Main Display	Professional Video Wall Display
	Display Size	Minimum 55 inch
	Panel Type	IPS LCD Panel or equivalent
	Resolution	1920 × 1080 (Full HD)
	Brightness	Minimum 500 nits
	Bezel	Ultra-narrow bezel maximum ?1.8 mm bezel-to-bezel
	Viewing Angle	Minimum 178° (H/V)
	Operation	Supports 24/7 continuous operation
	Video Input	HDMI / DisplayPort / DVI or equivalent
	Number of Panels	4 units for 2×2 configuration
	Display Arrangement	Supports Video Wall Matrix 2×2
Driger 4K Video Wall Controller 2×2 atau setara	ITEM	MINIMUM SPECIFICATION
	Device Type	Video Wall Controller / Processor
	Reference Model	Driger 4K Video Wall Controller 2×2 or equivalent
	Input	Minimum 1 × HDMI 4K input
	Output	Minimum 4 × HDMI outputs
	Display Configuration	Supports 2×2, 1×4, 4×1 layout
	Input Resolution	Up to 4K
	Output Resolution	Minimum 1080p for each display
	Function	Video scaling, screen splitting and simultaneous display
North Bayou Videowall Mount atau setara	ITEM	MINIMUM SPECIFICATION
	Mount Type	Professional Video Wall Mounting System
	Supported Size	Minimum 45" – 60" display
	Load Capacity	Minimum 50 kg per panel
	Adjustment	Micro-adjustment alignment to ensure precise screen alignment
	Maintenance	Push-out design for maintenance access
Kabel dah kekemasan	ITEM	SPESIFIKASI MINIMUM
	HDMI Cable	HDMI 2.0 / 2.1 supporting 4K @ 60Hz
	Cable Quantity	Minimum 4 units HDMI cable
	Power Supply	Power cables and extension sockets sufficient for all displays
	Cable Management	Includes cable trunking / cable concealment system
Pemasangan	ITEM	MINIMUM SPECIFICATION
	Installation	Complete installation including mounting structure and cabling
	Alignment	Video wall display alignment adjustment
	Calibration	Display and color calibration
	Configuration	Video wall controller configuration and display setup
	Testing	System functionality testing before handover
Keperluan	ITEM	SPESIFIKASI MINIMUM
	System Configuration	Complete Video Wall System 2×2 (4 panels) including display panels, video wall controller, mounting system, cables and accessories
	Compatibility	All components supplied must be fully compatible and integrated for video wall operation
	Display Synchronization	System must support synchronized display across all panels
	Content Display	Must support display of single full-screen content or multiple split-screen layouts
	Signal Source	Must support input from PC, laptop or media player via HDMI
	Power Requirement	System must support standard 240V AC power supply
Warranty	ITEM	MINIMUM SPECIFICATION
	Warranty Period	Minimum Three (3) Years Warranty
	Warranty Type	On-site warranty support
	Coverage	Warranty must cover display panels, controller and mounting hardware

DIJANA OLEH
11.11.2026

<table>
<tr><th>BIL.</th><th>SPESIFIKASI</th><th>YA</th><th>TIDAK</th><th>CATATAN</th></tr>
<tr><td>G</td><td>Infrastructure</td><td></td><td></td><td></td></tr>
<tr><td>G.1</td><td>FingerTec Face ID 5 atau yang setara
<table>
<tr><th>ITEM</th><th>MINIMUM SPECIFICATION</th></tr>
<tr><td>Device Type</td><td>Biometric Access Control & Time Attendance Terminal</td></tr>
<tr><td>Authentication Methods</td><td>Face Recognition, Fingerprint, Palm, NFC Mi-Fare Card, QR Code</td></tr>
<tr><td>Camera</td><td>2MP WDR Low-Light Camera</td></tr>
<tr><td>Fingerprint Sensor</td><td>High Resolution Optical Sensor</td></tr>
<tr><td>Processor (CPU)</td><td>Dual-Core Processor (? 900 MHz)</td></tr>
<tr><td>Memory</td><td>? 512MB RAM, ? 8GB Flash Storage</td></tr>
<tr><td>Face Capacity</td><td>? 6,000 users</td></tr>
<tr><td>Fingerprint Capacity</td><td>? 6,000 templates</td></tr>
<tr><td>Palm Capacity</td><td>? 3,000 templates</td></tr>
<tr><td>Transaction Logs</td><td>? 200,000 records</td></tr>
<tr><td>Verification Methods</td><td>Face (1:N), Fingerprint (1:1 & 1:N), Palm, Card</td></tr>
<tr><td>Verification Speed</td><td>Face ? 2 seconds, Fingerprint ? 1 second</td></tr>
<tr><td>Display</td><td>? 5-inch TFT Color Touch Screen</td></tr>
<tr><td>Communication</td><td>TCP/IP, RS485, WiFi</td></tr>
<tr><td>Software Integration</td><td>Compatible with Ingress Software</td></tr>
<tr><td>Additional Features</td><td>Mask Detection, Anti-Spoofing Technology, Low-Light Recognition</td></tr>
<tr><td>Material</td><td>Glass Front Panel with Aluminium Frame</td></tr>
<tr><td>Installation</td><td>Wall Mount / Bracket Mount</td></tr>
<tr><td>Power Supply</td><td>DC 12V Adapter / P.O.E</td></tr>
<tr><td>Backup Power</td><td>UPS installation for power failure protection</td></tr>
<tr><td>Warranty</td><td>Minimum 2 Years Manufacturer Warranty</td></tr>
</table>
PEMASANGAN (INSTALLATION)
<table>
<tr><th>ITEM</th><th>DESCRIPTION</th></tr>
<tr><td>Supply & Delivery</td><td>Vendor shall supply and deliver the complete device including mounting bracket, power adapter, and required accessories.</td></tr>
<tr><td>Site Preparation</td><td>Vendor shall inspect installation location, confirm power point availability (DC 12V) and network point (LAN).</td></tr>
<tr><td>Physical Installation</td><td>Mounting of device on wall or bracket at designated entry point with proper alignment and height positioning.</td></tr>
<tr><td>Cabling Works</td><td>Installation and routing of power cable and network cable (CAT6) including trunking where required.</td></tr>
<tr><td>Power Connection</td><td>Connection to power supply and ensure stable power delivery to device.</td></tr>
<tr><td>Network Configuration</td><td>Configuration of IP Address, Subnet Mask, Gateway and communication settings</td></tr>
<tr><td>System Integration</td><td>Integration with existing attendance system or access control system.</td></tr>
<tr><td>Device Setup</td><td>Configuration of device mode (Access Control / Time Attendance), user roles and verification settings.</td></tr>
<tr><td>Testing & Commissioning</td><td>Full system testing including access verification, door trigger, and data transmission.</td></tr>
<tr><td>Training</td><td>Basic training for administrator on device usage, user management, and reporting.</td></tr>
<tr><td>Documentation</td><td>Provide installation report, configuration details, and user manual.</td></tr>
<tr><td>Warranty Support</td><td>Provide warranty support and basic technical support during warranty period.</td></tr>
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BIL.	SPESIFIKASI	YA	TIDAK	CATATAN
G.2	**IANZ V1 Smart door Lock atau yang setara**			

ITEM	MINIMUM SPECIFICATION
Product Type	Smart Digital Door Lock
Unlock Methods	Fingerprint, PIN Code, RFID Card, Mobile Application, Mechanical Key
Fingerprint Sensor	Semiconductor Fingerprint Sensor
Fingerprint Capacity	Minimum 100 Fingerprints
PIN Code Capacity	Minimum 100 User PIN Codes
RFID Card Capacity	Minimum 100 RFID Cards
Mobile Access	Wi-Fi or Bluetooth App Control
Mobile Application	Android and iOS Supported
Remote Unlock	Supported via Mobile Application
Temporary Access Code	Supported
Access Log / Audit Trail	Supported
Auto Lock Function	Supported
Manual Lock Function	Supported
Anti-Peep Password	Supported
Fake PIN Protection	Supported
Wrong Attempt Alarm	Supported
Low Battery Alert	Supported
Emergency Power Supply	USB Type-C Emergency Charging Port
Mechanical Override Key	Included
Door Thickness Supported	35 mm – 90 mm
Door Material Compatibility	Wooden, Metal and Composite Doors
Lock Body Type	Mortise Lock
Power Supply	4 × AA Alkaline Batteries
Battery Life	Up to 12 Months
Indoor/Outdoor Installation	Suitable for Covered Indoor and Outdoor Areas
Construction Material	Zinc Alloy / Aluminium Alloy Body
Finish Colour	Black or Equivalent
Voice Guidance	English Voice Prompt
Security Features	Anti-Tamper Alarm, Forced Entry Alarm, Anti-Hacking Protection
Certifications	CE, FCC, RoHS or Equivalent
Included Accessories	Smart Lock Unit, Mortise Lock Body, RFID Cards, Mechanical Keys, Mounting Kit, User Manual
Warranty	Minimum 2 Years Manufacturer Warranty