

Summary Specification	
BIL. SEBUTHARGA/QUOTATION REF.:	UBD/Q/245/2025 (UNIDIGITAL) - [G]
TARIKH DIKLANKAN :	<u>30 December 2025 [Selasa]</u>
TARIKH TUTUP :	13 Januari 2026 [Selasa] JAM: 2 Petang
DOCUMENT FEE :	B\$ 10.00

IMPORTANT

The Official PDF quotation/tender form will be send via email once UBD Official receipt issued and send to vendors/supplier for confirmation of payment received.

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TITLE :		<u>TO SUPPLY, DELIVER AND INSTALL INDOOR LED PANEL DISPLAY AND SMART DANTE CEILING MIC CONFERENCE SYSTEM FOR CONFERENCE ROOM, ADMINISTRATION BUILDING, UBD</u>
No.	Quantity	SPECIFICATIONS
1	1 LOT	<p>INDOOR LED PANEL DISPLAY LED PANEL; Please refer to the attached document for the full specifications.</p>
2	1 unit	<p>CEILING ARRAY MICROPHONE: Please refer to the attached document for the full specifications.</p>
3	1 unit	<p>REMOTE CONFERENCE PROCESSOR: Please refer to the attached document for the full specifications.</p>
4	1 unit	<p>NETWORK SWITCH: Please refer to the attached document for the full specifications.</p>
5.	4 units	<p>LINE ARRAY SPEAKER: Please refer to the attached document for the full specifications.</p>
6	2 units	<p>NETWORK MUTE BUTTON: Please refer to the attached document for the full specifications.</p>
7	1 unit	<p>DUAL WIRELESS MICROPHONE Please refer to the attached document for the full specifications.</p>
8	1 LOT	<p>INSTALLATION, WARRANTY, TERMS AND CONDITION</p> <ul style="list-style-type: none"> • All items are included with installation and testing. • 2 YEARS warranty for electronic items, maintenance and on-site services. • Companies joining to quote MUST have background of Audio and Visual Professional profile and attach proven documents of latest project

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No.	Quantity	Description
1	1 Lot	<p><u>INDOOR LED PANEL DISPLAY</u></p> <p>LED PANEL:</p> <ul style="list-style-type: none"> • Pixel Pitch: 1.86mm • Pixel Configuration: 1RGB • LED Type: SMD1515 • LEDs qty. per sqm: 288888pcs • LED module resolution: 172x86 • LED module size: 320mm x 160mm • LED cabinet resolution: 172(W) x 86(H) • LED cabinet dimension: Width:640mm Height:480mm • LED cabinet area: 0.3072sqm • Screen Resolution: 1548x774 • Screen Size: 2880(W) x 1440(H)mm • Side Covers: L&R both sides • Brightness: 600-700 nits/sqm • Viewing Angle: Horizontal:140° Vertical:140° • Display Refresh rate: 3840hz • Scan mode: 1/43scan • Power input voltage & power: AC 220V & 200W • Receive card: NOVA A5S Plus • Material: Die-casting Aluminum • Ingress protection: IP43 • Serviceability: Front & Back service • Storage environment: Temperature -40°C ~ 60°C Humidity: 10% ~ 85% RH • Operating environment: Temperature -20°C ~ 50°C Humidity: 10% ~ 90% RH • Lifespan (typical): ≥100,000 hours • MTBF: ≥10,000 hours • Source compatibility: CVBS, YC, YUV, RGB, DVI, SDI, HD-SDI, HDMI <p>VIDEO PROCESSOR:</p> <ul style="list-style-type: none"> • Input connectors: <ul style="list-style-type: none"> 1x HDMI 1.3 (IN & LOOP) 1x HDMI 1.3 1x DVI (IN & LOOP) 1x 3G-SDI (IN & LOOP) 1x optical fiber port (OPT1) • Output connectors: <ul style="list-style-type: none"> 4x Gigabit Ethernet ports (A single device unit drives up to 2.6 million pixels, with a maximum width of 10,240 pixels and a maximum height of 8192 pixels.) 2x Fiber outputs (OPT 1 copies the output on 4 Ethernet ports. OPT 2 copies or backs up the output on 4 Ethernet ports.) 1x HDMI 1.3 (For monitoring or video output) • Self-adaptive OPT 1 for either video input or sending card output <ul style="list-style-type: none"> Thanks to the self-adaptive design, OPT 1 can be used as either an input or output connector, depending on its connected device. • Audio input and output: <ul style="list-style-type: none"> Audio input accompanied with HDMI input source Audio output via a multifunction card Output volume adjustment supported • Low latency: <ul style="list-style-type: none"> Reduce the delay from the input to receiving card to 20 lines when the low latency function and Bypass mode are both enabled.

		<ul style="list-style-type: none"> • 2x layers: <ul style="list-style-type: none"> Adjustable layer size and position Adjustable layer priority • Output synchronization: <ul style="list-style-type: none"> An internal input source can be used as the sync source to ensure the output images of all cascaded units in sync. • Powerful video processing <ul style="list-style-type: none"> Based on SuperView III image quality processing technologies to provide stepless output scaling One-click full screen display Free input cropping • Automatic screen brightness adjustment <ul style="list-style-type: none"> Adjust the screen brightness automatically based on the ambient brightness collected by the external light sensor. • Easy preset saving and loading <ul style="list-style-type: none"> Up to 10 user-defined presets supported • Multiple kinds of hot backup <ul style="list-style-type: none"> Backup between devices Backup between Ethernet ports • Mosaic input source supported the mosaic source is composed of two sources (2K×1K@60Hz) accessed to the OPT 1. • Up to 4 units cascaded for image mosaic • Three working modes: <ul style="list-style-type: none"> Video Controller Fiber Converter Bypass • All-round color adjustment <ul style="list-style-type: none"> Input source and LED screen color adjustment supported, including brightness, contrast, saturation, hue and Gamma • Pixel level brightness and chroma calibration <ul style="list-style-type: none"> Work with NovaLCT and NovaStar calibration software to support brightness and chroma calibration on each LED, effectively removing color discrepancies and greatly improving LED display brightness and chroma consistency, allowing for better image quality. • Multiple operation modes: <ul style="list-style-type: none"> Control the device as you wish via V-Can, NovaLCT or device front panel knob and buttons.
2	1 Unit	<p><u>CEILING ARRAY MICROPHONE:</u></p> <ul style="list-style-type: none"> • Standard network audio support for "Dante" • "Multi-beam tracking" that scans for human voice and track simultaneous speech allowing for lively conversations • Deliver high intelligible voice with unique audio signal processing technologies • Utilizes one PoE+ network cable connection avoiding troublesome wiring and enabling audio control via Dante • Supports 3 types of mounting methods for use with a variety of ceiling conditions • Automatic detection and configuration with Remote Conference Processor RM-CR • Dimensions: W560mm x D560mm x H90mm (Includes protrusion/microphone panel: 22mm) • Power Requirements: PoE (IEEE 802.3af) • Maximum Power Consumption: 7.2W • Connector: RJ45 • In Operation: Temperature: 0° - 40°C Humidity: 30% - 90% (no condensation) • Storage: Temperature: -20° - 60°C Humidity: 20% - 90% (no condensation) • Mount: Ceiling Mount, Wire Mount, VESA mount • Maximum Device Number with RM-CR: 14 (without VXL1-16P, up to 16) • Dust Protection: UL2043 (with terminal cover)

		<ul style="list-style-type: none"> • Ether: Dante, Remote Control, Web UI, PoE • Cable Requirement: Cat 5e or higher (STP) • Audio I/O (Dante): 1in/2out, In=1AEC reference signal / Out1=output of beam mix, Out2=output of beam mix (simple processed) • Sampling rate: 48kHz • Bit Depth: 24 bits • Latency: 58ms (including signal processing), 22ms (low-latency mode) • Frequency response: 160Hz – 16kHz (-10dB) • Maximum Input Level of SPL (0dBFS): 117.8 dB SPL • Self-noise: -0.8dBA SPL • SN Ratio (Ref. 94 dB SPL at 1 kHz): 94.8 dBA • Sensitivity: -23.8 dBFS/Pa • Dynamic Range: 118.6 dBA • Signal Processing: Multi Beam Tracking, Adaptive Echo Canceler, Noise Reduction, Dereverberation, Auto Mixer, Auto Gain Control, Parametric EQ, Output Gain Adjustment
3	1 Unit	<p><u>REMOTE CONFERENCE PROCESSOR:</u></p> <ul style="list-style-type: none"> • Standard network audio support for "Dante"; all compatible devices can be connected with single network cable • Automatically recognizes connected devices on the same network for audio routing • Equipped with the Auto Tuning functions that automatically measure and provide the optimum sound settings for the environment • Equipped with the Auto Mixer functions that automatically mix the audio of all connected microphones • Equipped with various Input/Output connections such as USB, VoIP, analog, and Bluetooth • Supported OS: Windows and macOS • Power Requirements: PoE+ (IEEE 802.3at, LLDP), DC 48V • Connector: RJ45, USB, XLR balanced, RCA • In Operation: Temperature: 0° - 40°C Humidity: 30% - 90% (no condensation) • Storage: Temperature: -20° - 60°C Humidity: 20% - 90% (no condensation) • Mount: Table mount, Rack mount • AUX: RCA unbalanced (Line Level), Input 2ch, Output 2ch • Speaker Out: RCA Unbalanced (Line Level), Output 2ch • Bluetooth Version: Bluetooth 4.2 • SIP Call Handling: Dial, Answer, Hold, Resume, Forwarding, Do not disturb, Call ID, Voice Mail Notifications (switch configured) • SIP Call Bridging: Supports Bridging SIP, USB, BT and AUX Calls. Join, Split, Hold, Resume, 5+1 Lines: Up to 2 SIP calls, 1 USB call, 1 Bluetooth Call, 1 AUX, plus the user • Sampling Rate: 48kHz • Bit Depth: 24bit • Latency: 8[ms] (Dante In to USB Out, includes signal processing) • Frequency Response: 20Hz-20kHz
4	1 Unit	<p><u>NETWORK SWITCH:</u></p> <ul style="list-style-type: none"> • LAN ports equipped with PoE supply: 8(1-8) • LAN/SFP combo ports: 2(9, 10) (The LAN port and SFP slot are exclusively used) • PoE supply is compliant with IEEE 802.3at, and can supply up to 30W to all PoE ports • In-build RADIUS server for advanced security management • Console ports: RJ-45(RS-232C), USB mini-B(5pin) (USB2.0): 9600 bit/s • Ports available for PoE power supply: 8 ports (1-8) • PoE standards: IEEE 802.3at • Maximum power supply: Per port: 30W, all port: 240W

		<ul style="list-style-type: none"> Operating environment: Ambient temperature: 0–40 °C, Ambient humidity: 15–80%, non-condensing. Storage environment: Ambient temperature: -20–50 °C, Ambient humidity: 10–90%, non-condensing. Maximum power consumption: 280W
5	4 Units	<p><u>LINE ARRAY SPEAKER:</u></p> <ul style="list-style-type: none"> 1.5 inch (3.75 cm) full-range speaker units with neodymium magnets Slim design complements any interior décor Available in black or white Enclosures can be painted to match surroundings Wall mount bracket supplied Optional hardware for a wide range of installation needs Speaker type: Full-range, powered speaker, bass reflex Frequency range (-10dB): 80Hz - 20kHz *1 Components LF-HF: 1.5"(3.75cm) Cone x 16 Maximum output level (1m; on axis): 102 dB SPL (when using PoE+(IEEE 802.3at)) *2 Power rating (Dynamic): 15W (PoE+ (IEEE 802.3 at)), 6W (PoE (IEEE 802.3 af)) I/O connectors: RJ-45 (Dante) x 1 Power requirements: PoE+(IEEE 802.3at), PoE (IEEE 802.3af) Power consumption: Idle: 3W, 1/8(Pink Noise): 6W (PoE+(IEEE 802.3at)), 4.3W (PoE(IEEE 802.3af))
6	2 Units	<p><u>NETWORK MUTE BUTTON:</u></p> <ul style="list-style-type: none"> Utilize as a mute button for ADECIA microphones Also used as a group mute for microphones and as a preset / recall button for RM-CR Control other devices directly, including non-Yamaha devices, using IP communication 2 methods of installation: Tabletop and Wall-mounted 196.8g, Φ100 x 28.9mm Paintable cover Power Requirements: PoE (IEEE 802.3af), DC 48 V Maximum Power Consumption: 2.6W In Operation: Temperature: 0° - 40°C Humidity: 30% - 90% (no condensation) Storage: Temperature: -20° - 60°C Humidity: 20% - 90% (no condensation) Installation: Tabletop, Wall mount Maximum Device Number with RM-CR: 8 Ether1: Remote Control, PoE Cable Requirements: CAT5e or higher (STP)
7	1 Unit	<p><u>DUAL WIRELESS MICROPHONE</u></p> <p>TRANSMITTER:</p> <ul style="list-style-type: none"> Freq Number: 128+128 Freq Stability: ±10ppm Modulation: FM RF Output: ≤10mW Audio Bandwidth: 40~18000Hz T.H.D at 1kHz: ≤0.5% Power Supply: 2 x 1.5V AA Size Battery Life: 6~15 hours <p>RECEIVER:</p> <ul style="list-style-type: none"> Freq Range: 640-690MHz Freq Number: 128+128

		<ul style="list-style-type: none"> • Oscillation Mode: PLL Synthesized • Freq Stability: $\pm 10\text{ppm}$ • Receive Mode: Supper heterodyne and twice mixed • Input Sensitivity: $-95\text{~}75\text{dBm}$ • Audio Bandwidth: $40\text{~}18000\text{Hz}$ • T.H.D at 1kHz: $\le 0.5\%$ • S/N Ratio: $\ge 110\text{dB}$ • Audio Output: Balanced XLR and unbalanced $1/4$ socket • Power Supply: $100\text{V}\text{~}240/50\text{~}60\text{Hz}$ • Consume Power: $\le 8\text{W}$
8	<i>1 Lot</i>	<p><u>INSTALLATION, WARRANTY, TERMS AND CONDITION</u></p> <ul style="list-style-type: none"> • All items are included with installation and testing. • 2 YEARS warranty for electronic items, maintenance and on-site services. • Companies joining to quote MUST have background of Audio and Visual Professional profile and attach proven documents of latest project.