

# Smart CLASSROOM

## Ruang Meeting



Dirancang untuk pertemuan yang efisien dengan teknologi canggih dan suasana profesional serta meningkatkan kolaborasi dan produktivitas.

### MASTER SIDE

#### SMART CLASSROOM COMMANDER (MASTER)

*Mythware*

All-in-one wireless collaboration and presentation solution, featuring BYOD Wireless Presentation, Interactive Teaching, Recording & Broadcasting, Distance Collaboration, Management & Control, etc (Built-in OPS, Internal AP, Built-in HDD, Serve as Switch)

#### LAPTOP MASTER

*Acer*

Processor Core i7, RAM 16GB DDR4, Memori 512GB SSD, VGA: Intel Iris Xe Graphics Ukuran Layar: 14 Inch

#### CAMERA CONFERENCE

*IQ Conference*

Sensor: 1/2.5", CMOS, Max Effective Pixel: 8.51M | Optical Zoom: 12x | Lens: f=4.4mm ~ 52.8mm, F1.8 ~ F2.6 | Scanning Mode: Progressive | Digital Zoom: 16x | USB Interface: 1x USB 3.0 Type B | Video Format: H.264 AVC/SVC: Max 2160P@30fps MJPEG: Max 4K@30fps

#### iPAD

*Apple*

Display Type: Liquid Retina IPS LCD, 500 nits | Resolution: 1640x2360 pixels | OS: iPadOS 15.4 upgradable to iPadOS 17.5.1 | Chipset: Apple M1 | CPU: Octa-core (4x3.2GHz) | GPU: Apple GPU (8-core graphics)

#### WIRELESS ROUTER

*Asus*

Antenna: External antenna x 6 | Processor: 2.0GHz quad-core processor | Memory: 256MB Flash 512MB RAM | Operating Frequency: 2.4GHz

#### KURSI MEETING

*Intromax*

Sandaran: Frame Polypropoline | Dudukan: Plywood ketebalan 15mm | Busa dudukan: Busa Injection Foam | Head Rest: Adjustable Head Rest | Mechanism: One Locking | Cover: Sandaran Mesh & Fabric

### KELENGKAPAN RUANGAN

#### MEJA MEETING

*Intromax*

Material: MDF Finishing HPL + Decosheet | Edging PVC | Aksesoris: Netbox | Dimensi: 2000 x 1000 x 750mm

#### KURSI MEETING

*Intromax*

Sandaran: Frame Polypropoline | Dudukan: Plywood ketebalan ±15mm | Double Cover Seat PP | Busa dudukan: Busa Injection Foam | Mechanism: Synchronize | Armrest: Adjustable/ Fix

#### CLASSROOM ACCESS POINT (AP)

*Mythware*

Built-in high-gain antenna, 2.4G/5G Dual-Band, supporting the smooth interaction of up to 60 terminals, providing stable and efficient support for classroom teaching, better meet the special requirement of wireless network for education

#### INTERACTIVE FLAT PANEL 75 INCH

*IQ Board*

OS Version: Android 11 | OPS: Intel Core i7 | Memory: 16GB | Storage: 256GB SSD | Touch Point: 40 point touch, 40 point writing under windows, 20 point writing under Android | Built-in Document Camera: 13MP (4K) (at the bottom of the frame) | Built-in AI Camera: 48MP (4K)

#### KARPET PLUS PEMASANGAN

*Tile*

Lebar dan panjang mengikuti ukuran ruangan (maks. 8x9m)

## WIRELESS MICROPHONE

*Shure*

Two rugged mics tuned to accentuate the clarity of lead and back up vocals and dual channel receiver.  
2 x SVX2 : Handheld Transmitter with PG58 Mic  
1 x SVX88 : Dual Diversity Receiver

## ROOM SPEAKER

*Yamaha*

Speaker type 2-way, Bass-reflex | Components LF 8" Cone | Crossover 2.8kHz | Nominal impedance 8 | Frequency range (-10dB) 15Hz-20kHz | Nominal coverage H 100 V 100 | SPL Sensitivity 91dB

## POWER MIXER

*Behringer*

Ultra-compact 2 x 250-Watt stereo powered mixer | Revolutionary Class-D amplifier technology: enormous power, incredible sonic performance and super-light weight | 12-channel mixer section features 4 mono and 4 stereo channels, 2 additional stereo inputs plus separate Aux input

## KONEKSI

## INSTALASI DAN SETTING

*MGLab*

Kabel HDMI, Kabel LAN, Kabel Listrik

## KELENGKAPAN TAMBAHAN

## MOUSE BLUETOOTH

*Microsoft*

Wireless Mouse  
Connectivity Technology: Bluetooth  
Ultra-slim and lightweight, Snaps flat and slips easily into a pocket or bag  
Batteries: 2 x AAA batteries required

## INTERACTIVE FLAT PANEL 86 INCH

*IQ Board*

OS Version: Android 11 | OPS: Intel Core i7 | Memory: 16GB | Storage: 256GB SSD | Touch Point: 40 point touch, 40 point writing under windows, 20 point writing under Android | Built-in Document Camera: 13MP (4K) (at the bottom of the frame | Built-in AI Camera: 48MP (4K)



# Smart CLASSROOM

## Normal Classroom

Dirancang untuk mengintegrasikan visualizer dan smart devices untuk mendukung presentasi interaktif, umpan balik instan, rekaman pengajaran, serta manajemen kelas dan perangkat yang terhubung.

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#### MEJA MASTER

*Intromax*

Material: MDF Finishing HPL + Decosheet | Kaki Metal Finishing Powder Coating | Connector Aluminium Finishing Powder Coating | Edging PVC | Dimensi: 1800 x 700 x 750mm

#### KURSI MASTER

*Intromax*

Sandaran: Frame Polypropoline | Dudukan: Plywood ketebalan 15mm | Busa dudukan: Busa Injection Foam | Head Rest: Adjustable Head Rest | Mechanism: One Locking | Cover: Sandaran Mesh & Fabric

#### LAPTOP MASTER

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#### INTERACTIVE VOTING FOR TEACHER

*Mythware*

Dirancang khusus untuk Papan Tulis Interaktif, Manajemen Kelas, Tes dan Survey, serta Self-checking

#### DOCUMENT CAMERA

*IQ View*

Resolution: 8MP | Sensor Pixel: 1/2.8" Sony CMOS | Frame Rate: 30fps | Zoom: 10x Optical Zoom, 10x Digital Zoom | HDMI Output: 4K 1080P | VGA Output: 1080P | Image Adjustment: Brightness, sharpness, contrast, saturation

#### WIRELESS ROUTER

*Asus*

Antenna: External antenna x 6 | Processor: 2.0GHz quad-core processor | Memory: 256MB Flash 512MB RAM | Operating Frequency: 2.4GHz

### STUDENT SIDE

#### TABLET SISWA

*Samsung*

CPU Speed: 2.4GHz, 2GHz | CPU Type: Octa-Core | Display: 10.9" | Main Camera: 8MP | Front Camera: 12MP | Memory: 8GB | Storage: 128GB | OS: Android | Sensor: Accelerometer, Fingerprint Sensor, Gyro Sensor, Geomagnetic Sensor, Hall Sensor, Light Sensor

#### INTERACTIVE VOTING FOR STUDENT

*Mythware*

Dirancang khusus untuk Papan Tulis Interaktif, Manajemen Kelas, Tes dan Survey, serta Self-checking

#### MEJA SISWA

*Intromax*

Material: MDF Finishing HPL + Decosheet | Edging PVC | Kaki Aluminium Finishing Powder Coating | Meja dapat dilipat | Modesty Metal Perforated | Dimensi: 1200 x 600 x 750mm





## KURSI SISWA

*Intromax*

Sandaran: Frame Polypropylene | Dudukan: Plywood ketebalan ± 15mm | Busa Dudukan: Injection Foam | Cover Sandaran & Dudukan: Mesh dan Fabric

## KELENGKAPAN RUANGAN



## CLASSROOM ACCESS POINT (AP)

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Built-in high-gain antenna, 2.4G/5G Dual-Band, supporting the smooth interaction of up to 60 terminals, providing stable and efficient support for classroom teaching, better meet the special requirement of wireless network for education

## KARPET PLUS PEMASANGAN

*Jawa*

Lebar dan panjang mengikuti ukuran ruangan (maks. 8x9m)



## IP CAM 4MP + POE

*Hikvision*

High quality imaging with 4 MP resolution | Support Human and Vehicle Detection | Smart Hybrid Light: advanced technology with long range | Built-in microphone for real-time audio security | Efficient H.265+ compression technology

## MIC CONDENSOR MODEL STICK

*Krez*

Type : Condensor Microphone | Frequency range : 50Hz – 16,000Hz | Impedance : 200 Ohms ± 30% | Sensitivity : -36dB ± 3dB | Weight : 200gr | Cable length : 3m



## WIRELESS MICROPHONE

*Shure*

Two rugged mics tuned to accentuate the clarity of lead and back up vocals and dual channel receiver.  
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## POWER MIXER

*Behringer*

Ultra-compact 2 x 250-Watt stereo powered mixer | Revolutionary Class-D amplifier technology: enormous power, incredible sonic performance and super-light weight | 12-channel mixer section features 4 mono and 4 stereo channels, 2 additional stereo inputs plus separate Aux input



## KONEKSI



## INSTALASI DAN SETTING

*MGLab*

Kabel HDMI, Kabel LAN, Kabel Listrik

## KELENGKAPAN TAMBAHAN



## MOUSE BLUETOOTH

*Microsoft*

Wireless Mouse  
Connectivity Technology: Bluetooth  
Ultra-slim and lightweight, Snaps flat and slips easily into a pocket or bag  
Batteries: 2 x AAA batteries required

## INTERACTIVE FLAT PANEL 75 INCH

*IQ Board*

OS Version: Android 11 | OPS: Intel Core i7 | Memory: 16GB | Storage: 256GB SSD | Touch Point: 40 point touch, 40 point writing under windows, 20 point writing under Android | Built-in Document Camera: 13MP (4K) (at the bottom of the frame) | Built-in AI Camera: 48MP (4K)



## APLIKASI ANDROID (For Teacher & Student)

*Mythware*

### SCREEN BROADCAST

Guru dapat mengambil berbagai sumber daya multimedia secara langsung dan menyiarkan kepada siswa untuk meningkatkan pembelajaran kelas



### STUDENT DEMONSTRATION

Guru dapat memilih satu siswa untuk dapat menampilkan layar ke siswa lain kapan saja, dan untuk menyalurkan demonstrasi pembelajaran

### INTERACTIVE WHITEBOARD

Guru mengundang semua atau siswa tertentu untuk menyelesaikan tugas belajar bersama. Siswa dapat menulis dengan tangan, atau mengirimkan jawaban dengan foto

### GROUP TEACHING

Guru dengan cepat membagi siswa menjadi kelompok yang berbeda dan mendistribusikan materi pengajaran dengan berbagai topik. Anggota kelompok dapat mendiskusikan dan menyelesaikan tugas pembelajaran mereka dalam teks, gambar, dan suara

### POWERFUL CLASSROOM MANAGEMENT

- Student Management: Impor daftar nama siswa dan lakukan sign-in. Bandingkan daftar masuk dengan daftar nama untuk mendapatkan data kehadiran
- Policy Management: Selama pengajaran, guru dapat membatasi siswa dalam menggunakan CD, disk USB, situs web, aplikasi, dan printer untuk mempertahankan urutan kelas
- Remote Control: Mengizinkan guru untuk memantau dan mengontrol perangkat siswa, mengarahkan siswa dalam situasi pembelajaran secara real-time
- Remote Settings: Manajemen perangkat siswa yang terpadu secara efektif menghemat waktu



# Smart CLASSROOM

## Experimental Lab



Dirancang sebagai Fasilitas khusus untuk praktikum dan eksperimen dengan peralatan lengkap dan teknologi mutakhir. Mendukung inovasi dan penemuan baru.

### MASTER SIDE

#### SMART CLASSROOM COMMANDER (MASTER)

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#### WIRELESS ROUTER

*Asus*

Antenna: External antenna x 6 | Processor: 2.0GHz quad-core processor | Memory: 256MB Flash 512MB RAM | Operating Frequency: 2.4GHz



#### MEJA MASTER

*Intromax*

Material: MDF Finishing HPL + Decosheet | Kaki & Connector Aluminium Finishing Powder Coating | Edging PVC | Dimensi: 1600 x 600 x 750mm



### KELENGKAPAN RUANGAN

#### KURSI MASTER

*Intromax*

Sandaran: Frame Polypropoline | Dudukan: Plywood ketebalan 15mm | Busa dudukan: Injection Foam | Adjustable Head Rest | One Locking



#### LAPTOP MASTER

*Acer*

Processor Core i7, RAM 16GB DDR4, Memori 512GB SSD, VGA: Intel Iris Xe Graphics Ukuran Layar: 14 Inch



#### iPAD

*Apple*

Ukuran layar: 10.2 inci, 1620 x 2160 pixels, Retina IPS LCD | Sistem operasi: iPadOS 15 | CPU: Apple A13 Bionic (7 nm+), Hexa-core | GPU: Apple GPU (4-core graphics) | Kamera: Single 8 MP, f/2.4, 31mm (standard), 1.12µm, AF. Depan 12 MP, f/2.4, 122° (ultrawide)



#### DOCUMENT CAMERA

*IQ View*

Resolution: 8MP | Sensor Pixel: 1/2.8" Sony CMOS | Frame Rate: 30fps | Zoom: 10x Optical Zoom, 10x Digital Zoom | HDMI Output: 4K 1080P | VGA Output: 1080P | Image Adjustment: Brightness, sharpness, contrast, saturation



#### EXPERIMENT TABLE (1 Table for 2 Student)

*Intromax*

Material: MDF Finishing HPL + Decosheet | Edging PVC | Aksesoris: Netbox, Wire Holder | Dimensi: 2400 x 1200 x 750 mm



#### STUDENT CHAIR

*Intromax*

Sandaran: Frame Polypropoline | Dudukan: Plywood ketebalan ±15mm | Busa dudukan: Busa Injection Foam | Mechanism: One Locking | Armrest: Fix Polypropoline | Cover Sandaran, dudukan: Mesh, Fabric



#### CLASSROOM ACCESS POINT (AP)

*Mythware*

Built-in high-gain antenna, 2.4G/5G Dual-Band, supporting the smooth interaction of up to 60 terminals, providing stable and efficient support for classroom teaching, better meet the special requirement of wireless network for education



#### SMART CLASSROOM COMMANDER (STUDENT)

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**LECTURE CAPTURE SYSTEM**

***IQVideo***

Highly Integrated Design for Powerful Performance | Easy Setup Your Hybrid Room | Record the Class As It Is | Up to 5 Video Sources Capturing | Premium Audio Effect

**WIRELESS MICROPHONE**

***Saramonic***

Frekuensi: 2.4GHz | Jenis Osilator: Gaussian Frequency-Shift Keying (GFSK) | Pita Frekuensi RF: 2400 hingga 2483.5 Mhz | Daya Output RF: 10 mW | Rasio S/N: ≥70dB | Jeda Suara: ≤6ms



**ROOM SPEAKER**

***Yamaha***

Speaker type 2-way, Bass-reflex | Components LF 8" Cone | Crossover 2.8kHz | Nominal impedance 8 | Frequency range (-10dB) 15Hz-20kHz | Nominal coverage H 100 V 100 | SPL Sensitivity 91dB



**POWER MIXER**

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**KONEKSI**

**INSTALASI DAN SETTING**

***MGLab***

Kabel HDMI, Kabel LAN, Kabel Listrik



**KELENGKAPAN TAMBAHAN**



**MOUSE BLUETOOTH**

***Microsoft***

Wireless Mouse  
Connectivity Technology: Bluetooth  
Ultra-slim and lightweight, Snaps flat and slips easily into a pocket or bag  
Batteries: 2 x AAA batteries required

**INTERACTIVE FLAT PANEL 75 INCH**

***IQ Board***

OS Version: Android 11 | OPS: Intel Core i7 | Memory: 16GB | Storage: 256GB SSD | Touch Point: 40 point touch, 40 point writing under windows, 20 point writing under Android | Built-in Document Camera: 13MP (4K) (at the bottom of the frame | Built-in AI Camera: 48MP (4K)



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**OPTIONAL**

**LAPTOP SISWA**

***Acer***

Processor Core i5, RAM 8GB DDR4, Memori 512GB SSD, Ukuran Layar: 14 Inch





# Smart CLASSROOM

## Ruang Aula

Dirancang untuk acara besar, seminar, atau presentasi dengan kapasitas besar dengan teknologi audio-visual berkualitas tinggi.

### MASTER SIDE

#### VIDEO WALL 49 INCH 4x4 (Include Hidrolik Bracket & Frame Minimalis)

*LG*

Screen Size: 49" | Bezel: 3.5mm | Panel Technology: IPS | Native Resolution: 1,920 x 1,080 (FHD) | Brightness: 500nit (Typ.) | Termasuk: Bracket Pop-Out Hydraulic | Frame Minimalis Simple: Bahan lapis HPL | Instalasi.

#### LAPTOP MASTER

*Acer*

Processor Core i7, RAM 16GB DDR4, Memori 512GB SSD, VGA: Intel Iris Xe Graphics Ukuran Layar: 14 Inch

#### SMART CLASSROOM COMMANDER (MASTER)

*Mythware*

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#### WIRELESS ROUTER

*Asus*

Antenna: External antenna x 6 | Processor: 2.0GHz quad-core processor | Memory: 256MB Flash 512MB RAM | Operating Frequency: 2.4GHz

#### KURSI SUSUN

*Intromax*

Papan: Plywood Ketebalan ± 12 mm | Busa: Busa Lembaran Vitafoam D.26 | Kaki: Pipa Besi Chrome | Cover: Fabric | Dimensi: Seat Width: 39 cm, Seat Depth: 40 cm, Height: 83 cm

### KONEKSI

#### INSTALASI DAN SETTING

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### KELENGKAPAN RUANGAN

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1 x SVX88 : Dual Diversity Receiver

#### MIC CONDENSOR MODEL STICK

*Kreza*

Type : Condensor Microphone | Frequency range : 50Hz – 16,000Hz | Impedance : 200 Ohms ± 30% | Sensitivity : -36dB ± 3dB | Weight : 200gr | Cable length : 3m

#### ROOM SPEAKER

*Yamaha*

Speaker type 2-way, Bass-reflex | Components LF 8" Cone | Crossover 2.8kHz | Nominal impedance 8 | Frequency range (-10dB) 15Hz-20kHz | Nominal coverage H 100 V 100 | SPL Sensitivity 91dB

#### POWER MIXER

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# Smart CLASSROOM

# Interactive Classroom



Dirancang untuk mengintegrasikan perangkat pintar dan layar interaktif untuk mendorong kolaborasi dan pembelajaran aktif. Memfasilitasi diskusi, analisis, dan evaluasi secara real-time, dengan dukungan teknologi untuk pembelajaran yang lebih dinamis.

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## STUDENT SIDE

### TABLET SISWA

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Finishing Powder Coating | Dimensi: 2400 x 1200 x 750mm

## KURSI SISWA

*Intromax*

Sandaran & Dudukan: Multi Plywood ketebalan ± 12mm |  
Busa: Injection Foam | Cover: Oscar



## KONEKSI



## INSTALASI DAN SETTING

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Kabel HDMI, Kabel LAN, Kabel Listrik

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## INTERACTIVE FLAT PANEL 65 & 75 INCH + FLOOR STAND BRACKET

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Storage: 256GB SSD | Touch Point: 40 point touch, 40 point writing under windows, 20 point writing under Android |  
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## CHARGING CART

*Ergotron*

Adjustable Dividers: Fit up to 40 tablets or 30 laptop | Built-in fans keep batteries cool | Quick release steel doors protect devices with optional bracket to lock the card in place



## KELENGKAPAN TAMBAHAN

## MOUSE BLUETOOTH

*Microsoft*

Wireless Mouse | Connectivity Technology: Bluetooth | Ultra-slim and lightweight, Snaps flat and slips easily into a pocket or bag | Batteries: 2 x AAA batteries required



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## APLIKASI ANDROID (For Teacher & Student)

*Mythware*

Screen Broadcast | Student Demonstration | Interactive Whiteboard | Group Teaching | Powerfull Classroom Management

