



Introducing Smart Classroom Solution

Prepared By

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SMART CLASSROOM

VS

TRADITIONAL CLASSROOM



Interactive Flat Panel / Smart Board
Touch, Write, Annotate, Multimedia Support



Digital & Engaging Learning
Videos, Animations, Simulations, Live Demonstrations



Hybrid & Online Learning
Live Streaming, Recordings, Video Conferencing



Advanced Audio-Video System
Auto Tracking Camera, Clear Sound, Multiple Mics



Better Student Engagement
Interactive Activities, Quizzes, Real-time Feedback



Content Sharing & Cloud Access
Share Files, Save Notes, Access Anytime Anywhere



Modern & Future Ready
Technology-driven Environment, 21st Century Skills



Traditional Whiteboard & Marker
Limited Writing Space, No Multimedia



Limited Teaching Methods
Only Chalk & Talk Method



No Online / Hybrid Support
Only Physical Presence, No Remote Access



Basic Audio (If Any)
Poor Sound Distribution, No Clarity



Low Student Engagement
Passive Learning, Less Interaction



No Easy Content Sharing
Notes Hard to Share, Not Accessible Anytime



Not Future Ready
Outdated Methods, Limited Skills Development

Smart Classroom



INTERACTIVE FLAT PANEL
86" 4K UHD



AI TRACKING CAMERA
Auto Focus & Tracking



PROFESSIONAL AUDIO
Clear Voice Coverage



STUDENT TABLETS
Digital Learning



SMART ATTENDANCE
Face Recognition



LIVE STREAMING
Recording & Broadcast



LMS & CONTENT
Cloud Based Learning

Classroom Solution Requirements

Interactive Flat Panel (IFP) Called as **"All-in-One"** Solution !!!

"Interactive Flat Panel" also
known as
IFP
Smart Board
Digital Board
Interactive Board



Classroom Solution Requirements

Interactive Flat Panel (IFP)
Called as “All-in-One” Solution
!!!

86" 4K Interactive Flat Panel

Premium Display. Powerful Performance.

4K
UHD

86"
INCH

DISPLAY

- Display Type**
Anti-Glare and Scratch Resistant with Tempered/ Toughened Protective Glass (Min. 3mm) or higher
- Display Technology**
Zero Bonding and DLED
- Display Size (Diagonal)**
86 Inch
- Glass**
Germ-resistant technology, antimicrobial screen, Zero Bonding, Anti-glare
- Glass Hardness**
9H tempered or Higher
- Germ-resistant Screen**

IMAGE QUALITY

- Minimum Contrast Ratio**
1200:1 or higher
- Display Brightness (In NITS)**
450 or higher
- Colour Depth**
1.07 billion colours or higher
- Panel Life**
50000 Hours or higher
- Minimum Display Resolution (Horizontal x Vertical) (in Pixels)**
4K UHD – 3840 x 2160 or higher

TOUCH EXPERIENCE

- Touch Interface**
Touch Sensitive as well as Pen Driven
- Touch Technology**
Infrared Optical
- No. of Touch Points**
50 for Windows; 50 for Android
- Touch Response Time**
< 5 ms

PERFORMANCE

<ul style="list-style-type: none"> CPU minimum Octa-Core or Higher Number of Cores 8 or higher GPU minimum Octa-Core or Higher 	<ul style="list-style-type: none"> RAM (Memory) 8 GB or higher NPU 6 TOPS or higher SSD Storage 128 GB or above
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POWER EFFICIENCY

Lower Power Consumption

Max. typical 110W

Crystal Clear Visuals

Smooth & Precise Touch

Powerful Performance

Reliable & Durable Design

Enhanced Learning & Collaboration

Future Ready Technology

Built for Education. Designed for the Future. | **BenQ**

Classroom Solution Requirements

BenQ

Android 14 or Higher
with **EDLA Certified**

Powered by

android 14

Built for Seamless, Secure & Future-Ready Learning

Enterprise Security
Enhanced privacy and data protection for a safer digital environment.

Access to Google Play
Seamless access to a wide range of trusted apps and services.

Seamless Experience
Optimized performance, reliability, and compatibility.

Android 14 or Higher
Latest Android OS for enhanced security, performance & compatibility.

EDLA Certified
Google certified for enterprise grade reliability and compliance.

Trusted & Secure
Meets strict Google standards for data protection and privacy.

Future Ready
Regular updates and long-term support for evolving needs.

For more information, please check [Google Play Help](https://support.google.com)

support.google.com

Crystal Clear Visuals

Seamless Touch & Pen

Powerful Performance

Reliable & Durable

Future Ready Technology

Classroom Solution Requirements

EZ Write 6 Software!

Key Whiteboard Software Features

- Advanced Writing Tools: Pen, Highlighter, Dual Pen, Eraser & Multi-Color Palette
- Smart AI Features: OCR, Text-to-Speech, Handwriting & Shape Recognition, AI Lens, AI Background Remover
- Math & Language Support: Math Formula Recognition & Translation in 20+ Languages
- Unlimited Collaboration: 900+ Whiteboard Pages & Cloud Whiteboarding with Remote Annotation
- Rich Teaching Tools: Scale, Protractor, Compass, Stopwatch, Timer, Scoreboard, Calculator & Spin Wheel
- Interactive Content Support: Insert Word, PPT, PDF, Web Links, YouTube, Images, Videos & Audio
- 2D/3D Learning Resources: 2D & 3D Shapes, Image Libraries, Sticky Notes & Mind Maps
- Smart Classroom Features: Team Post, Reveal Tool & Background Templates
- Easy Sharing & Recording: QR Code Save/Share & Whiteboard Recording
- Multi-Platform Compatibility: Available in Windows & Web Version
- USB & Document Camera Support for Live Teaching Integration



Classroom Solution Requirements

Instashare2 Software!

Wireless Presentation & Collaboration Features

- Wireless Screen Sharing from Android, iOS, Windows & Mac Devices
- Up to 9 Devices Can Share Simultaneously
- Reverse Casting & Webcasting Support
- Live Annotation with Pen, Eraser & Partial Screen Capture
- AI Lens for Plant & Insect Recognition
- BYOM (Bring Your Own Meeting) Support for Seamless Video Conferencing
- Direct Access to IFP Camera & Microphone from Laptop
- Compatible with Laptops, Smartphones & iPads for Interactive Collaboration

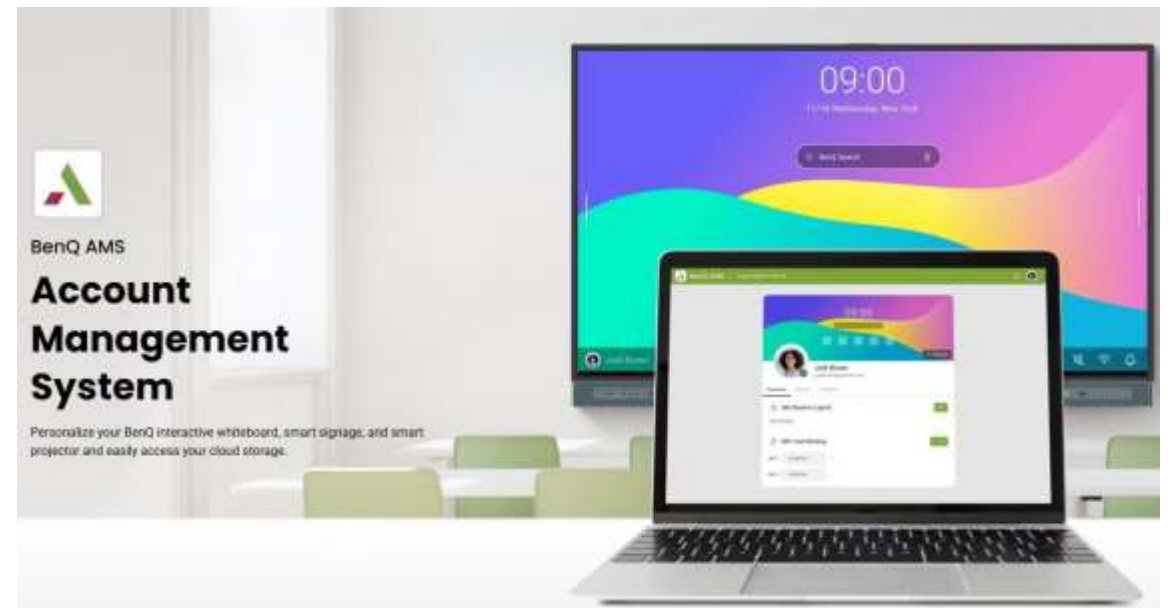


Classroom Solution Requirements

AMS Software!

Cloud & Account Management Features

- Pre-Installed Cloud Access App in IFP
- Secure Access to Google Drive, OneDrive, Dropbox & Nextcloud
- Two-Factor Authentication (2FA) Support for Enhanced Security
- Global Settings Synchronization Across Multiple Displays
- Easy Login via QR Code, Credentials & SSO Integration
- Personalized User Profiles Accessible Anywhere
- OEM-Developed AMS (Account Management System)
- Lifetime AMS Access Included

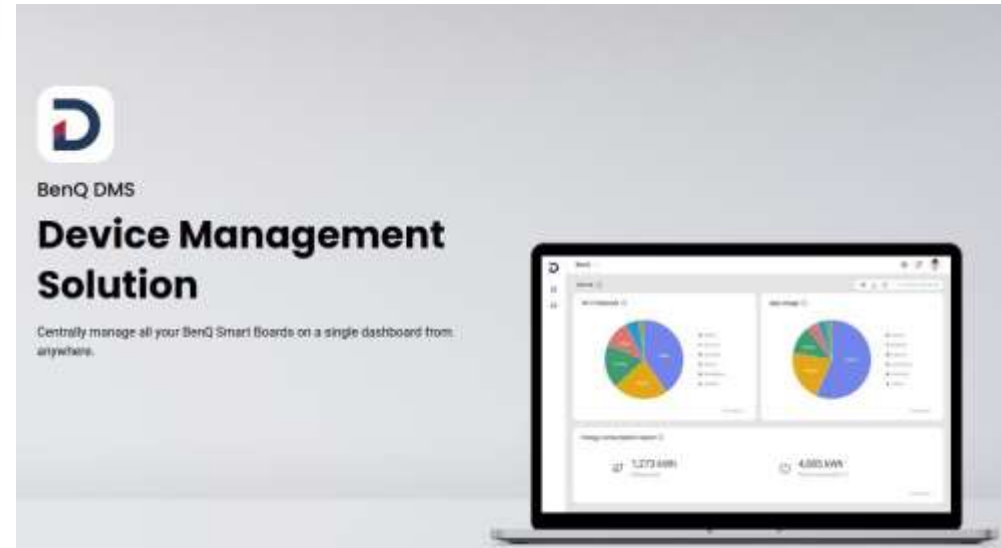


Classroom Solution Requirements

DMS Software!

Centralized Device Management Features

- Pre-Installed Centralized IFP Management Solution
- Real-Time Dashboard Monitoring for All Displays
- Remote Control & Display Settings Management
- User Policy Enforcement & Access Control
- App Blocking & Whitelisted App Management
- Multiple Authentication & User Settings Modes
- Guest Login Enable/Disable Control
- COPPA Compliant Security Standards
- OEM-Developed Management Platform
- Lifetime Access Included



Classroom Solution Requirements

X-Sign Broadcast Software !

Digital Broadcasting & Announcement Features

- Pre-Installed Digital Broadcasting Application
- Send Scheduled Messages & Instant Alerts to All IFPs
- Supports PPT, PDF, Videos & YouTube Content
- Display Announcements with Text & Images
- Centralized Content Broadcasting Across Network
- OEM-Developed Solution for Better Compatibility
- Lifetime Access Included



Classroom Solution Requirements

Data Security!

Security & Compliance Features

- USB Port, Screen & Application Lock Protection
- Restrict Unauthorized Access to Apps & Devices
- Built-In & Third-Party App Control Support
- Single Sign-On (SSO) Integration
- Advanced Cloud & Data Privacy Protection
- Certified for GDPR, GDPR-K & CCPA Compliance
- PSTI, CASA & COPPA Security Certified
- ISO/IEC 27001 Certified Security Standards
- Enterprise-Level Secure IFP & Cloud Ecosystem



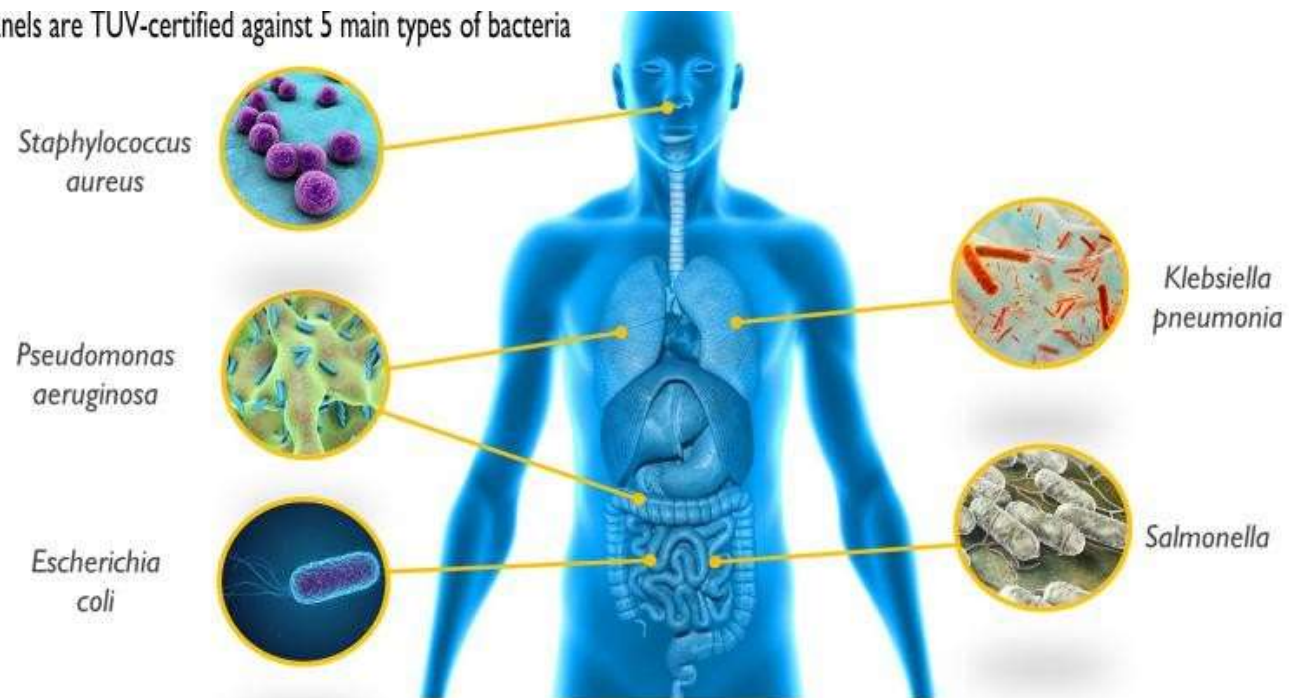
Better Security with BenQ

Display solutions designed with security in mind

Classroom Solution Requirements

How Germ Resistance Works !

Panels are TUV-certified against 5 main types of bacteria



Classroom Solution Requirements

IFP Certification

RoHS, CB, CE, FCC, ISO 9001, ISO 14001, ISO 45001, Energy Star, TUV Low Blue Light Certification, TUV Flicker Free Certification, SIAA, ADA -CASA Certification for germ resistance, IP5X Certificate. (Please check TUV certificate from TUV website-Certipedia.com)



Smart Classroom



Smart Classroom Organization :



Solution- A
Modern Digital Classroom + Hybrid Training Room + Live Streaming Solution

Tracking Camera
Brand- Lumens
Warranty - 3 years
Country of Origin - Taiwan

- AI Auto Tracking Camera
- Teacher movement follow করে
- Professional lecture recording
- Online class support



Fixed Camera

Brand- GBL

Warranty - 1 year

Country of Origin - Spain

- Whole classroom view দেখায়
- Student monitoring
- Hybrid classroom support



Digital Podium -
Brand- GBL
Warranty - 2 year
Country of Origin - Spain

- Smart Teacher Desk
- Presentation control
- Mic & display management
- Central classroom control



Mixer Amplifier

Brand- Bosch

Warranty - 1 year

Country of Origin - Germany

- Audio control system
- Multiple mic support
- Clear sound distribution



Cabinet Speaker

Brand- Bosch

Warranty - 1 year

Country of Origin - Germany

- 4 pcs speaker setup
- Clear classroom audio
- Balanced sound coverage



Wireless Microphones

Brand - Electro Voice, Lapel Mic (Teacher)

Warranty - 1 year

Country of Origin : Germany

- Wireless mobility
- Professional voice quality



Wireless Microphones

Brand -Sennheiser , Hand Mic, (Student)
Warranty - 1 year
Country of Origin- Germany

- Wireless mobility
- Professional voice quality



Streaming Device
Brand- ATEM
Warranty - 1year
Country of Origin - USA

- Live streaming control
- Multi-camera switching
- Recording & webinar support



8 Channel Mixer
Brand- Yamaha
Warranty - 1 year
Country of Origin - Japan

- Advanced audio tuning
- Noise reduction
- Bass & treble control



Rack Cabinet

Brand- Toten

Warranty - 1 year

Country of Origin - China

- Device protection
- Organized installation
- Easy maintenance



BenQ Interactive Flat Panel 86"

Brand- BenQ

Warranty - 3 years

Country of Origin - Taiwan

- Smart Interactive Teaching
- Touch Writing
- Video & Internet Support
- OPS i5



BenQ Interactive Flat Panel 65"

Brand- BenQ

Warranty - 3 years

Country of Origin - Taiwan

- 65-inch secondary display
- Better classroom visibility
- Movable trolley support



Complete Smart Classroom Workflow

Teacher → Mic → Mixer → Speaker

Teacher → Camera → ATEM → Live Stream

Teacher → BenQ IFP → Interactive Learning

Solution- A + Tab



Educational Transformation

Traditional

Smart Tab Classroom

Paper Based

Digital Learning

Static Learning

Interactive Learning

Manual Exam

Online Exam

Limited Content

Unlimited Content

One-way Teaching

Two-way Interaction

Solution- A + Tab + Smart Student Attendance System



Smart Attendance Dashboard

Admin দেখতে পারবে:

- ✓ Daily Attendance
- ✓ Monthly Report
- ✓ Absent Student
- ✓ Late Entry
- ✓ Classroom Wise Report

HOW IT WORKS



KEY FEATURES

- ✓ Face Recognition Technology
- ✓ Real-time Attendance Marking
- ✓ Accurate & Error Free
- ✓ Attendance Reports
- ✓ SMS/Email Alerts to Parents
- ✓ Cloud Based Data Security
- ✓ Multi-classroom Support



ACCURATE

FAST

SECURE

PAPERLESS

SMART CAMPUS

 SMART CLASSROOM SOLUTION

THANK YOU

Transforming Traditional Learning
into a **Smart Digital Future**



INTERACTIVE
LEARNING



STUDENT
TABLETS



SMART
ATTENDANCE



CLOUD
LEARNING



REAL-TIME
ANALYTICS

ENGAGE • INTERACT • LEARN • EXCEL



Building Smarter Classrooms
for a Better Tomorrow



SMART TECHNOLOGY



DIGITAL CAMPUS



SECURE & RELIABLE



SCALABLE SOLUTION

