

Excellent Connectivity
& Collaboration

AVCIT

DS.X

Intuitive Video Wall Processing over IP & Dynamic KVM over IP

All-in-one Command & Control Center Solutions by AVCIT



AI Gesture Video Wall Control



Simple Implementation

- No extra device required;
- Interaction with screen without physical touch.



Easy Control

- Face ID recognition & permission handover by AI tech;
- Layout/content switching only by waving hands or clicking fingers.



References

Government Emergency
Operations Center in Jakarta

Changi Air Operations Center,
Singapore



Network Operation
Center(NOC) for
National Bank of Kuwait

Indonesia Jakarta 3 Data
Center



IOC for Ipoh
City Council Malaysia

For more details
please contact the regional manager

AI Copilot 5K KVM



Exceptional Vision

4K Main Screen+2K OSD.



Comprehensive Functions

One-stop to experience refined interface including floating OSD,
facial detection, auto login/out, sharing desktop etc.



Customized Menu

Instant adjustment per user requirements.



4K@60 4:4:4



Remote O&M Command Platform

Large-scale on-site security | B/S architecture for remote access



Highlights & Benefits by KVM over IP Solution

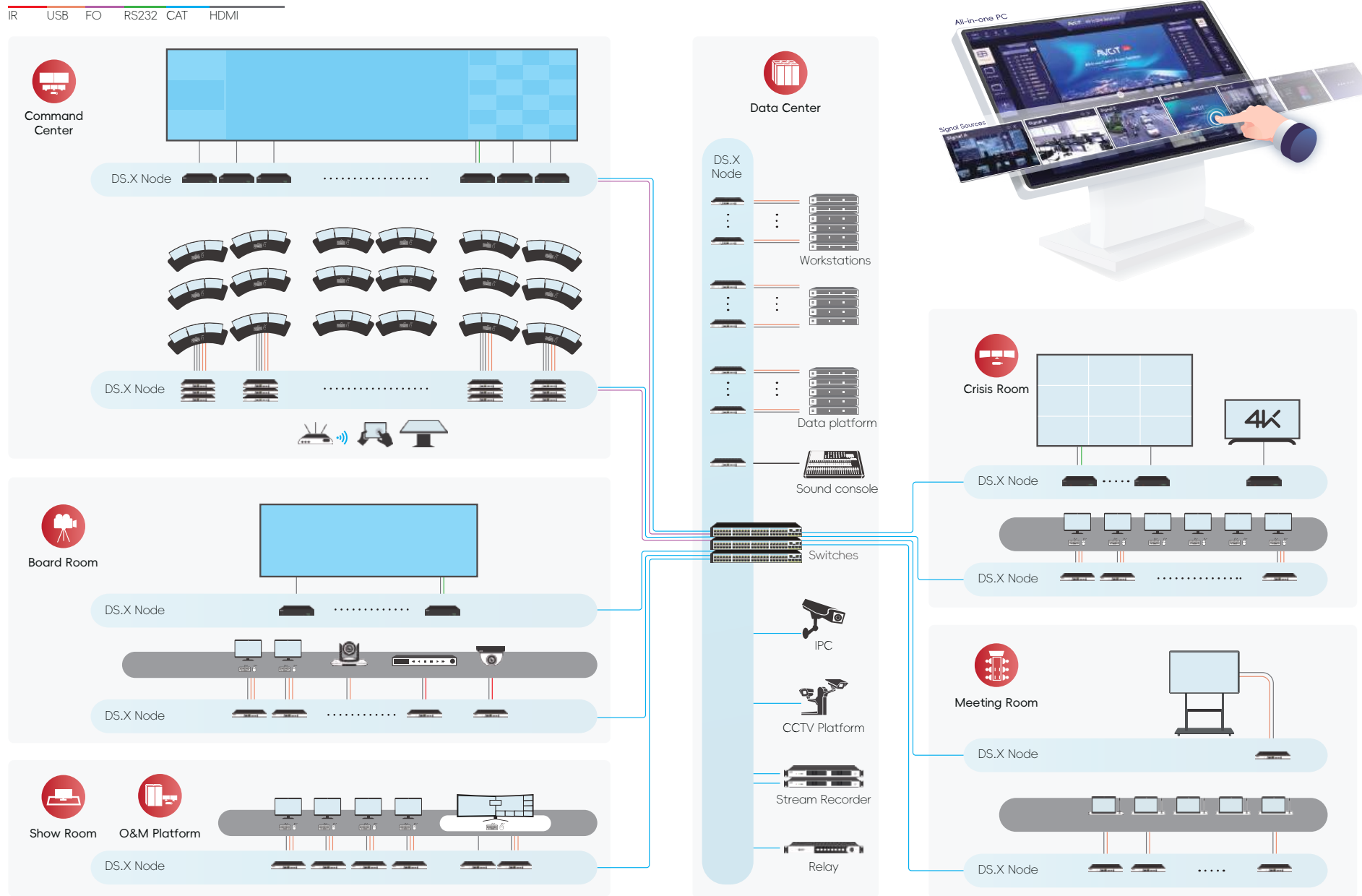
- No video wall matrix or LED/LCD wall controller or KVM server required;
- Decentralized architecture without central processing server, no single point of failure;
- Industry-leading ASE technologies with pixel-perfect image quality under ultra-low bandwidth;
- Natively compatible with 3rd party systems and advanced technology, i.e. CCTV, VMS, AI, 5G;
- Follow-me technology, no workspace limitation for each operator.

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Application Industries



SYSTEM SCHEMATIC



Command Center

Intuitive & Visualized Video Wall Control

- The visualized user interface allows to preview all content from source and on video walls, ensuring the correct source to be switched precisely and intuitively.

Support 8K, 16K, 32K Signals

- Support multiple-head GPU signals with 8K, 16K, 32K resolution;
- Fast content duplication among multi-sites benefit by low bit-rate technologies.

AI Guesture Video Wall Control

- Auto-face-recognition and AI gesture control only for registered individual;
- Easy source selection and deployment by finger-pointing;
- Signal zooming in/out by simple gestures.

Signal Searching & Collecting

- Efficient fuzzy searching;
- Simple singal collection and management.

Presets Save & Recall

- Multiple scenarios preset and recall smoothly;
- Re-naming or rotating preset list by user requirement anytime;
- Unlimited presets and foldable categorized list.

Excellent Collaboration

- Seamless access from workspace to sources;
- Quick desktop sharing among operators.

Visualized & Intuitive OSD

- Easy to preview any source in real-time;
- Free to relocate OSD by drag & drop;
- Build-in visualized VW control features.

Storing Computers in Data Center

- Source devices separated from workspace to reduce heat,noise and save space.

Smart Mouse

- One single set of mouse and keyboard required for multiple monitors;
- Unlimited capacity of cross-monitor-switching.

Dynamic Workspace with Multi-view mode

- Customized monitor layout & window-size for each operator;
- Up to 16 signal on one single monitor being shown at one time;
- Flexible switching from 16 channels on different multi-view mode;
- Audio output by mouse cursor or mixing at multi-view mode.

Natively Compatible with CCTV VMS

- Direct decoding IP Camera streaming;
- Compatible with most VMS platforms without additional stream converters.

3rd Party Device Control

- Easy adaption to and control of 3rd party devices e.g. AV equipment, lighting system, with different interface(RS232/RS485/IR/IO/Relay).

Meeting Room

Real-time interaction by one-touch

- Free preset scenarios switching;
- Instant annotation display from control end to video wall;
- Easy task/authorization dispatch and recall by high-level management.

Soft KVM Control

- Smart soft KVM control on source PC;
- Intuitive signal cropping from source PC and small signal segments pushing to video wall.

Operation & Maintenance Room (O&M Platform)

Operation & Maintenance Platform

- System and devices health management on user-friendly interface;
- Easy monitoring and maintenance for management via B/S-based structure regardless of distance.

Monitoring System Health

- System flow & bandwidth;
- User traffic.

Holistic Node Management

- Encoder/decoder status (online/offline);
- CPU & RAM utilization.

Data Center

Network Redundancy

- Both Ethernet and Fiber ports available for configuration to two independent systems(copper + fiber) and 24/7 operation.

Dynamic Feedback

- Status of 3rd-party devices displaying dynamically on control tablet.

User Logs (KVM)

- Records of all KVM operations stored in dedicated server.

Crisis Room

Permissions Configuration

- User accounts can be rapidly created by administrator with designated access permission on OSD;
- Permissions can be temporarily authorized and retrieved.

Follow Me

- Personal configuration follows the user wherever logging in,no workplace restriction.

Multi-location Video Collaboration

- Sources sharing among multiple locations (command centers, meeting rooms, board rooms);
- Dynamic information for fast decision-making reference.

Encryption & Security

- Video stream encrypted transmission to safeguard digital assets;
- Content review only for authenticated personnel.

Board Room

Video Call

- Instant collaboration between Chairman and distant operators via KVM OSD;
- High image quality with great user experience.

Video Wall Duplicate Displaying

- Simultaneous display on video wall in both board room and other rooms.

Offline Layout

- Layout preview by operator on control tablet before being pushed to video wall.

Showroom

Extraordinary 4K@60 image quality

- Realize 4:4:4 chroma to get pixel-perfect image quality by H.265 coding technology over low bandwidth (4-20 Mbps per streaming);
- Require 1 Gigabit Switch only, more flexible to build network.

Interactive Experience

- User-friendly and interactive interface;
- Free resize, re-position and overlap pictures by drag/drop control.

Video Auto Scheduling

- Flexible scheduling of signal sources and automatic switching on the video wall, with user-definable scheduling times.