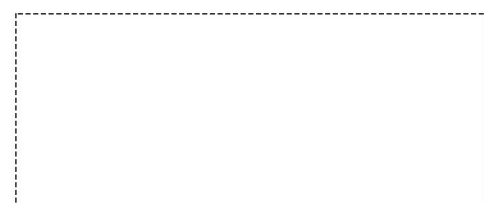


# DB-HMX2-E

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## 4K Hybrid Matrix Switcher



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# Introduction

HMX2-E is modular-designed hybrid matrix switcher, supports 4K/60Hz seamless switching, with wide products range up to 160x inputs and 160x outputs. Featured with video wall function and PIP, it can be used for various applications like control room, command center and conference room, etc.

## Spotlights

- Modular designed I/O cards, fans, PSUs, easy for maintenance and expansion.
- Ultra-scale up to 160x inputs and 160x outputs.
- Live preview of all sources.
- Up to 4K/60Hz seamless switching, 4:4:4 color sampling.
- Embedded and independent audio switching.
- Versatile interfaces with HDMI, DVI, DP, VGA, HDBaseT, Fiber, CVBS, YPbPr, SDI and IP stream.
- Integrated video wall function and matrix switching function.



# Application

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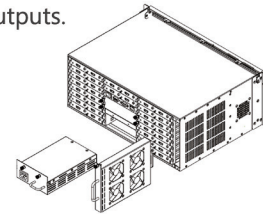
- Conference
- Information
- Command
- CCTV



# Features

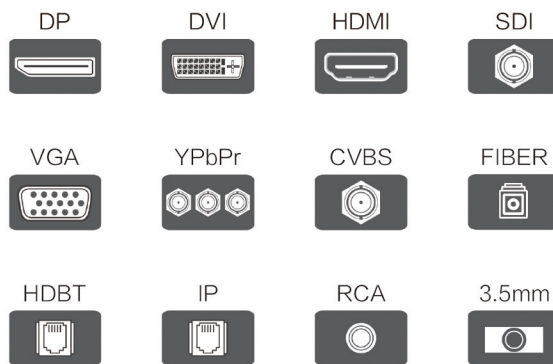
## Modular design

- Available chassis size from 2U – 34U, support up to 160x inputs and 160x outputs.
- Flexible configuration, easy for future expansion and maintenance.
- 19.5Gbps bandwidth, support up to 4k/60Hz, 4:4:4, backward compatible.
- Redundant PSUs



## Versatile interfaces

- Video: HDMI, DVI, DP, VGA, HDBaseT, Fiber, CVBS, YPbPr, SDI and IP stream.
- Audio: RCA, 3.5mm



## 4K seamless switching

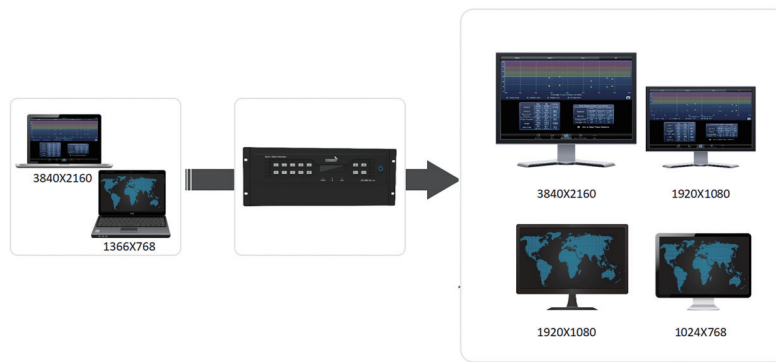
The HMX2-E is able to auto detect the input and output resolution once connected. There are no blank intervals during switching among resources up to 4K.



# Features

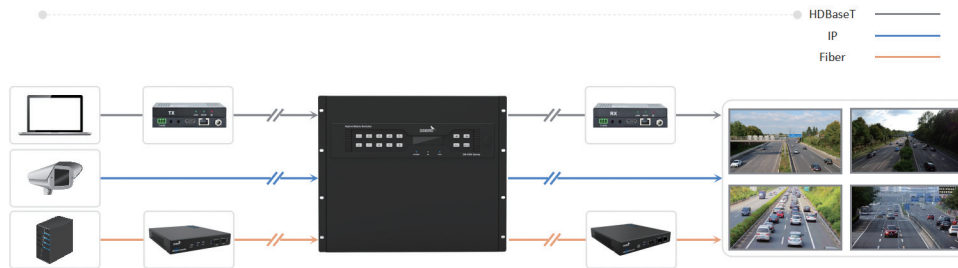
## Self-adjusted resolution

The HMX2-E will auto adjust the output to the best fit resolution of display device when switching difference sources. The feature offers the flexibility for projects require multiple display devices.



## Long distance transmission

Offering options for long distance transmission based on demand, including HDBaseT, ethernet and fiber optical.



## Optional control methods

Several control methods as options upon demand.

- Over control software on PC, communicate with HMX2-E via IP or serial.
- Over APP on mobile devices
- Push button on front panel
- Open API for third party system



# Features

## Live preview

With optional preview card, able to preview input and output source in real time. The feature servers to avoid confusion and malfunction when there are plenty resources in the system.

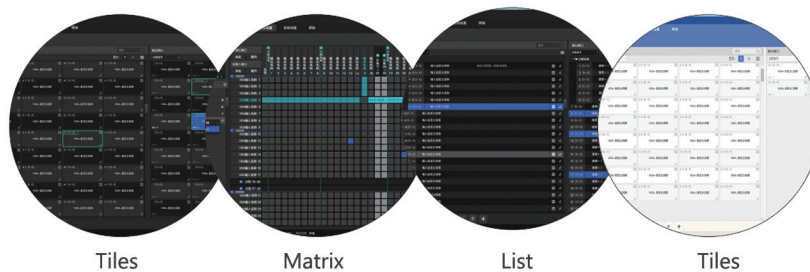
## Video wall function

Integrated video wall and matrix switching function, support picture-in-picture as well. The feature only supports 2x2 video wall at current stage.

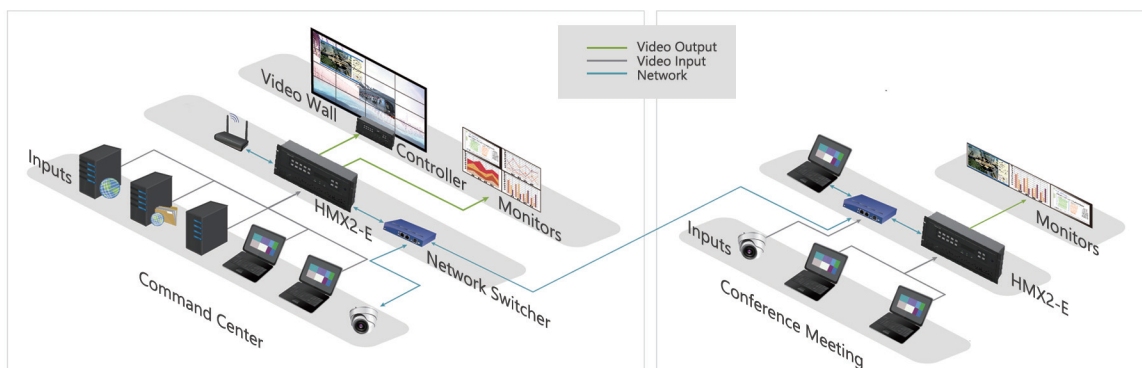


## Multiple control interface

HMX2-E provides 3x styles of control interfaces and 2x background as options to meet the demand.



# Diagram



# Specifications

## Chassis

Order Code:	Size:	Description:	Input Cards:	Output Cards:	Control Cards:	PSUs (Default+ Redundant):
DB-HMX2-E-FR2	2U	2U Chassis, up to 4x input cards, 4x output cards.	4	4	1	1+1
DB-HMX2-E-FR4	4U	4U Chassis, up to 9x input cards, 9x output cards.	9	9	1	1+1
DB-HMX2-E-FR9	9U	9U Chassis, up to 18x input cards, 18x output cards.	18	18	1	1+1
DB-HMX2-E-FR34	34U	34U Chassis, up to 80x input cards, 80x output cards.	80	80	1	1+3

## Input Cards

Order Code:	Port Type:	Description:	Ports Qty.	Signal Type:	Resolution:
DB-HMX2-E-IC-HDMI2	HDMI	2 channels HDMI input card.	2	HDMI	Up to 1920x1200/60Hz
DB-HMX2-E-IC-4KHDMI2	HDMI	2 channels HDMI 4K input card.	2	HDMI	Up to 4088x4088/15Hz
DB-HMX2-E-IC-4KDP2	DP 1.1	2 channels DP 4K input card.	2	4K DP	Up to 4088x4088/15Hz
DB-HMX2-E-IC-DVI2	DVI	2 channels DVI input card.	2	DVI	Up to 1920x1200/60Hz
DB-HMX2-E-IC-VGA2	VGA	2 channels VGA input card.	2	VGA	Up to 1920x1200/60Hz
DB-HMX2-E-IC-OPTS2	Fiber	2 channels Fiber input card.	2	Fiber	Up to 1920x1200/60Hz
DB-HMX2-E-IC-RCA4	RCA	4 channels Audio input card.	4	Audio	/
DB-HMX2-E-IC-IP1	RI45	1 channel IP input card.	1	IP	Up to 1920x1080/60Hz
DB-HMX2-E-IC-4KHDBaseT2	RI45	2 channels HDBT 4K input card.	2	HDBaseT	Up to 3840x2160/30Hz
DB-HMX2-E-IC-HDBaseT2	RI45	2 channels HDBT HD input card.	2	HDBaseT	Up to 1920x1200/60Hz
DB-HMX2-E-IC-SDI2	SDI	2 channels SDI input card.	2	SDI	Up to 1920x1080/60Hz
DB-HMX2-E-IC-VCVBS2	VGA	2 channels CVBS input card.	2	CVBS	Up to 1920x1200/60Hz
DB-HMX2-E-IC-VYPbPr2	VGA	2 channels YPbPr input card.	2	YPbPr	Up to 1920x1200/60Hz

## Output Cards

Order Code:	Port Type:	Description:	Ports Qty.	Signal Type:	Resolution:	Video Wall & PIP
DB-HMX2-E-OC-EDVI2	DVI	2 channels DVI output card.	2	EDVI	Up to 1920x1080/60Hz	Yes
DB-HMX2-E-OC-4KOPTS2	Fiber	2 channel Fiber 4K output card.	2	Fiber	Up to 3840x2160/30Hz	Yes
DB-HMX2-E-OC-RCA4	RCA	4 channels Audio output card.	4	Audio	/	No
DB-HMX2-E-OC-IP1	RI45	1 channel IP output card.	1	IP	Up to 1920x1080/60Hz	No
DB-HMX2-E-OC-DVI2	DVI	2 channel DVI output card.	2	DVI	Up to 1920x1080/60Hz	No
DB-HMX2-E-OC-VGA2	VGA	2 channels VGA output card.	2	VGA	Up to 1920x1080/60Hz	No
DB-HMX2-E-OC-HDMI2	HDMI	2 channels HDMI output card.	2	HDMI	Up to 1920x1080/60Hz	No
DB-HMX2-E-OC-4KHDBaseT2	RI45	2 channel HDBT 4K output card	2	HDBaseT	Up to 3840x2160/30Hz	Yes
DB-HMX2-E-OC-ESDI2	SDI	2 channels SDI output card.	2	SDI	Up to 1920x1080/60Hz	Yes
DB-HMX2-E-OC-4KHDMI2	HDMI	2 channels HDMI 4K output card.	2	HDMI	Up to 4088x4088/15Hz	Yes
DB-HMX2-E-OC-PV	RI45	1 channel IP Network Preview Card.	1	IP	/	

## Control Card

Order Code:	Port Type:	Description:	Signal Type:	Available chassis:
DB-HMX2-E-CC	RI45, RS232	Control Card.	Control	2U, 4U, 9U, 34U

## PSU

Order Code:	Power In:	Description:	Power Out:	Rate:	Available chassis:
DB-ACM-PSU-460W	AC 200-240V	PSU (Power Supply Unit.)	DC 12V	460 W	2U, 4U, 9U, 34U

## Note:

1. NPC: means Network Preview Card, serves to preview input source content and video wall display via control interface.
2. Control Card: all chassis are populated with 1x default control card, redundant control card is optional for purchase.
3. PSU: All chassis are populated with 1x default PSU, redundant PSU is optional for purchase.

The specifications may subject to change without prior notification.