BE-CBVW Video Wall Control Box with Access rights

Control Manager of DV-9525/AV-9520/AV-9530 KVM over IP

The BE-CBVW control Box is the control manager of DV-9525/AV-9520/AV-9530 kvm over ip and it is an industrial control interfaces into a compact edge computing solution. Powered by a **quad-core ARM Cortex-A55 CPU (up to 1.7 GHz)** and a **Mali-G57 GPU**. For enhanced connectivity, the control box integrates **dual Gigabit Ethernet ports**. It also provides **RS232** and **RS485** interfaces for industrial device control.

With **2 GB DDR4 memory**, **16 GB eMMC storage**, and comprehensive I/O options (USB 3.0, HDMI), the BE-CBVW is ideal for **smart factory**, **industrial automation.** The BE-CBVW builds in the video wall function by web-based with Linux operating system.

The BE-CBVW can search for DV-9525/AV-9520/AV-9530 Tx and Rx, setting the information of Transmitters and Receivers , BE-CBVW can set the Multiview to preview the screens of transmitters in one screen ,it also can set the video wall to be 2x2…8x8,etc. , each screen can be up to 1080p(DV-9525),4k@30(AV-9520) or 4K@60(AV-9530) resolutions. There are layouts, templates and schedules settings in the video wall. The 4K Encoder/Decoder engine built with Scaling function, multiple RXs are flexible to be configured as Video-Wall displays with 180° , 270° Rotation. BE-CBVW allows user to set the access rights for the transmitters when receivers try to login transmitters ,there is auto-login function for the receivers of video wall.

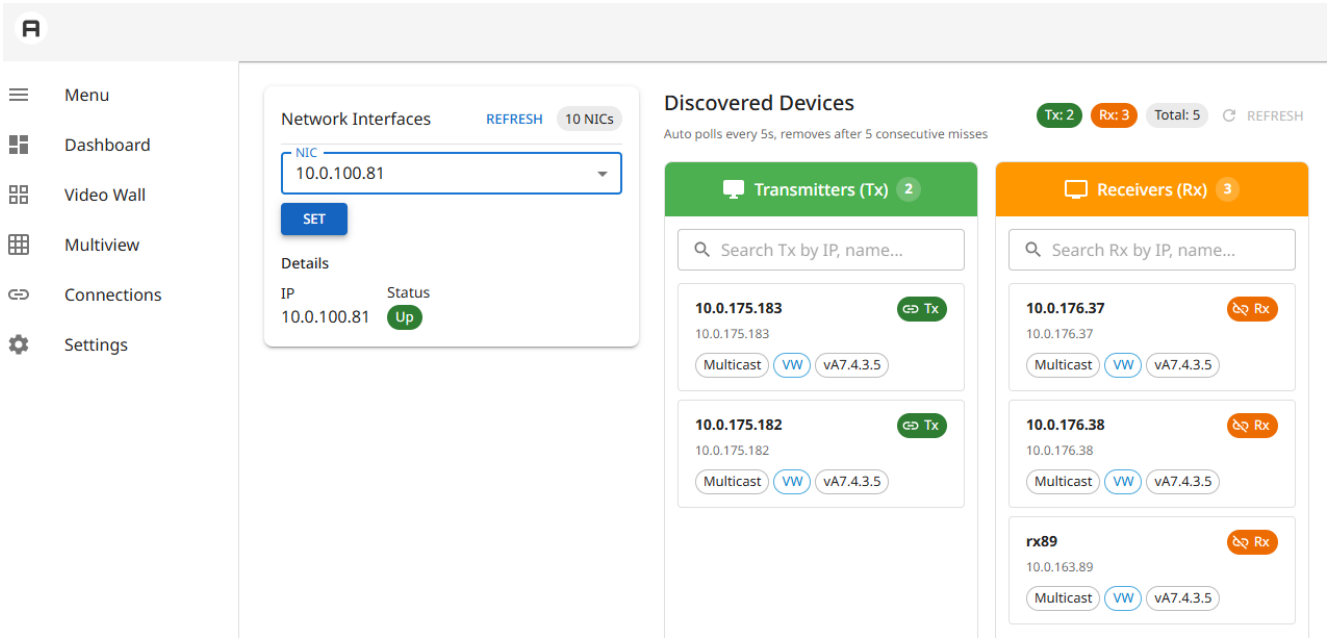
Features:

- Quad-core ARM Cortex-A55 up to 1.7 GHz
- Large private & shared CPU Caches for enhanced performance
- Mali-G57 GPU, delivering 2× graphics performance over Mali-G31
- High-Speed Connectivity: Integrated Gigabit Ethernet MAC + PHY
- Smart Display: HDMI 2.1 output with up to 4K60 HDR
- Provide Connection Manager Software for Tx/Rx management of matrix connection
- Provide setting to set the Tx/Rx information as ip , device name ,multicast/unicast etc..
- Provide Video wall to set layouts , templates , schedules , and preview video wall.
- Provide Multiview to set multi transmitters and preview the transmitters in one screen simultaneously.
- Provide Username/password to login and manage the control manager.
- Provide the settings of access rights with username & password/user group/transmitter/transmitters group.
- Support auto-login function for the receivers of video wall.

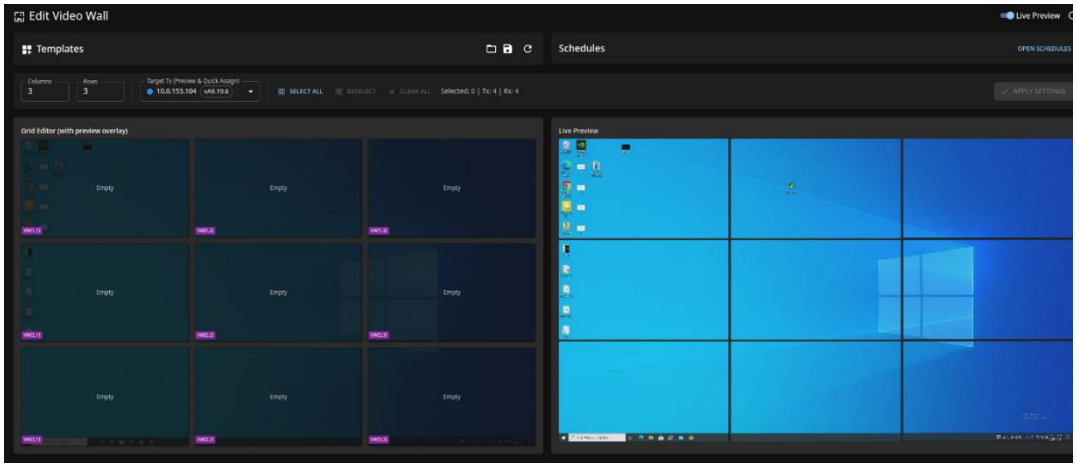
BE-CBVW Front & Rear view:



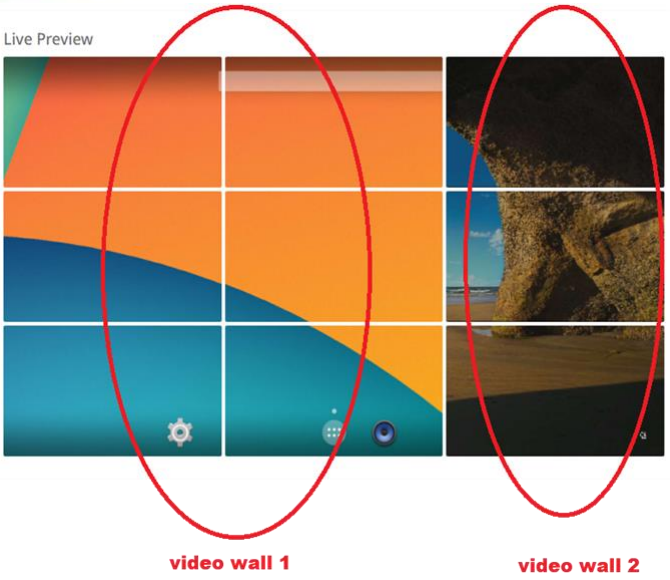
Screen view of control manager



Video Wall :

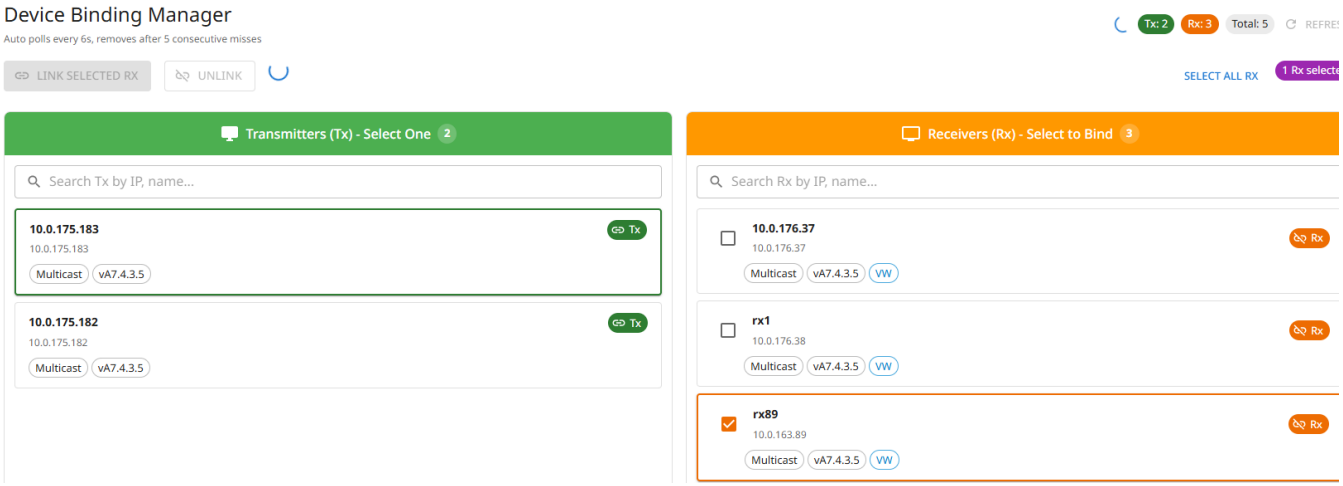


Multiple video wall:

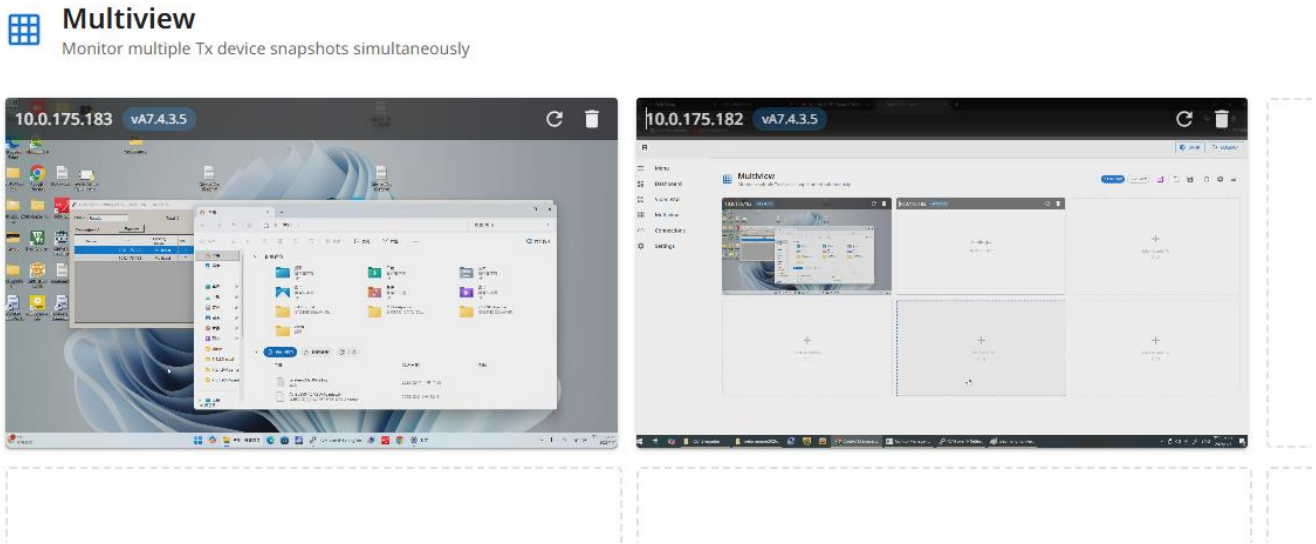


Connection manager:

Tx and Rx matrix connections



Multiview: (The preview of multi transmitters)



Hardware specification:

Processor	OS	Linux
	SoC	CPU : Quad core ARM Cortex A55 CPU 1.7GHz
		GPU : ARM Mali G57
	DDR4	2GB
	EMMC FLASH	16GB
Ethernet	Ethernet_1	RJ45, 10/100/1000M
	Ethernet_2	RJ45, 10/100/1000M bps
I/O Interface	HDMI Out	*1
	USB 3.0	*2
	USB 2.0	*2
Control	RS232	DB9 (9pin)
	RS485	TX/RX/GND (3 pin)
Power	DC 12V / 1.5A	
Dimensions	170*100 mm (PCBA)	Chassis undecided

Diagram

