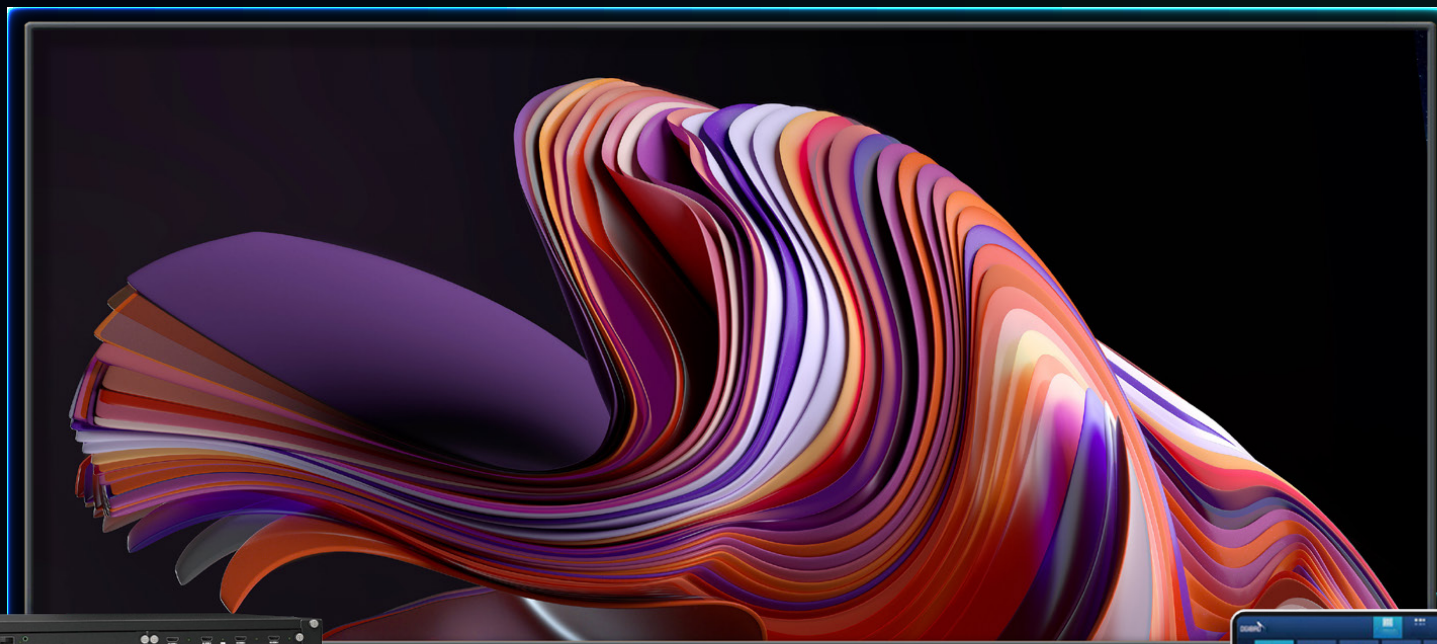


VWC2-TPRO Series

HDR 12BIT VIDEO WALL CONTROLLER





OVERVIEW

VWC2-TPRO is the most powerful video wall controller ever launched by DigiBird. Adopted 10G bps bandwidth, each channel can process 4K30 source without any compression. Working with LED output card, TPro can directly power LED wall without the need of 3rd party LED sending card.

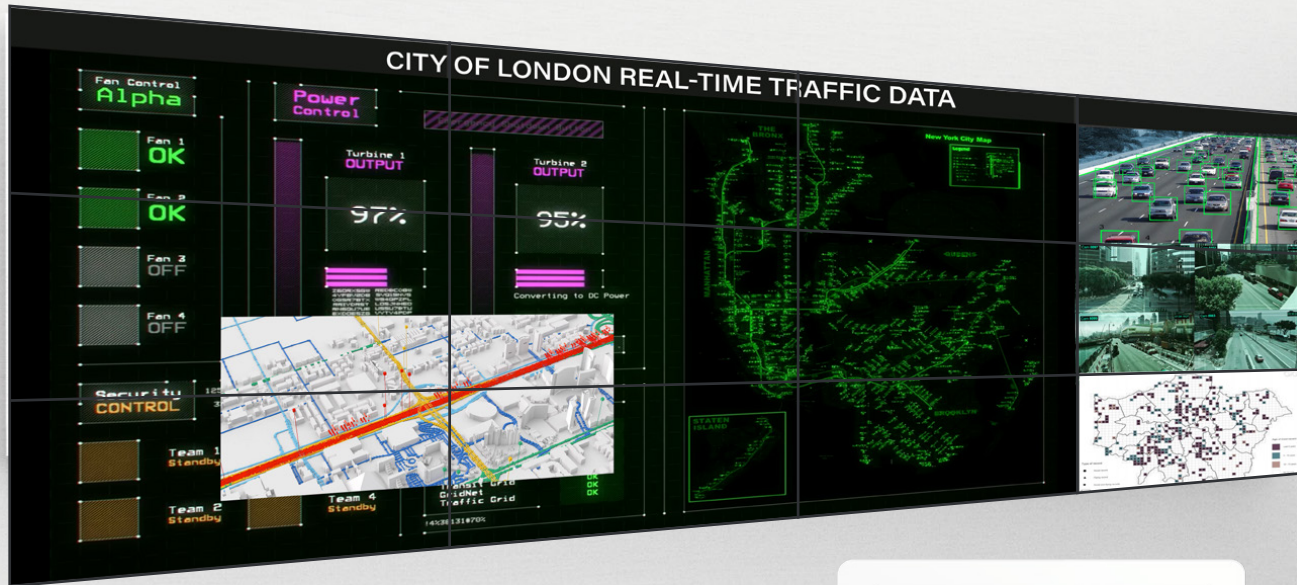
RELIABILITY IS ALWAYS MATTER

The controller has adopted a hardware-based design to avoid PC-based vulnerabilities, such as virus, system shut down, blue screen, etc.

FPGA chips are applied to deliver lightning speed processing, you will get real-time responses for any operations of video wall controller.



FLEXIBLE LAYOUT THROUGH GUI



Click-and-Work



Zooming



Drag-and-Drop

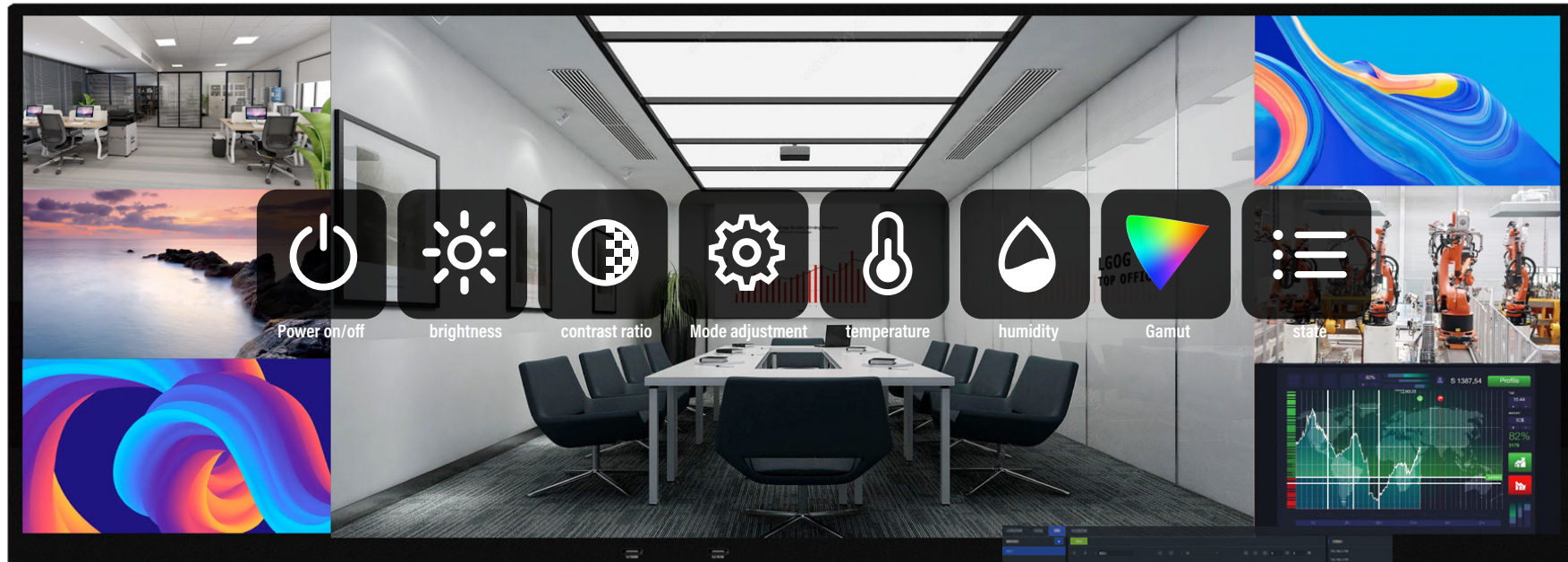


Layering

Video wall operations, such as PIP, overlay, resizing, and roaming, can be conducted easily through web interface of control-PC or installed APP.

The GUI allows operator to drag-and-drop to manage video wall display with a live preview function.

ALL-ROUND COMMANDER AND MONITOR

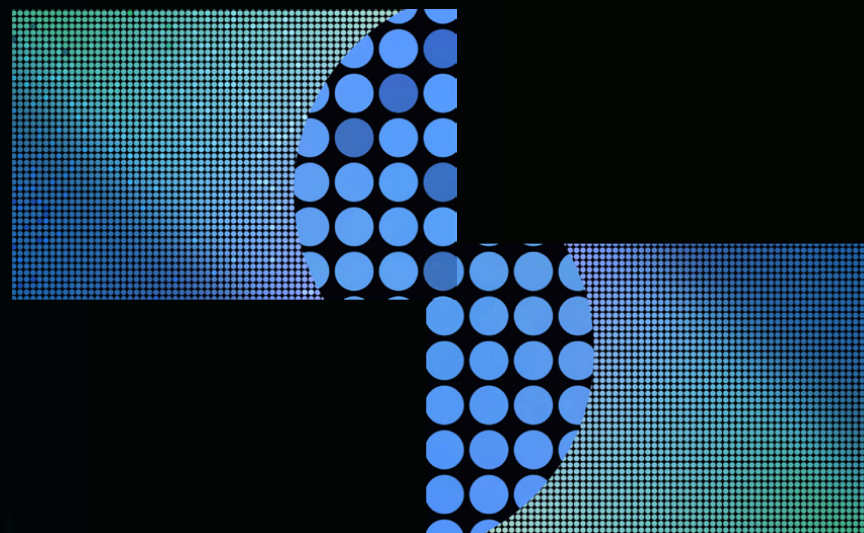
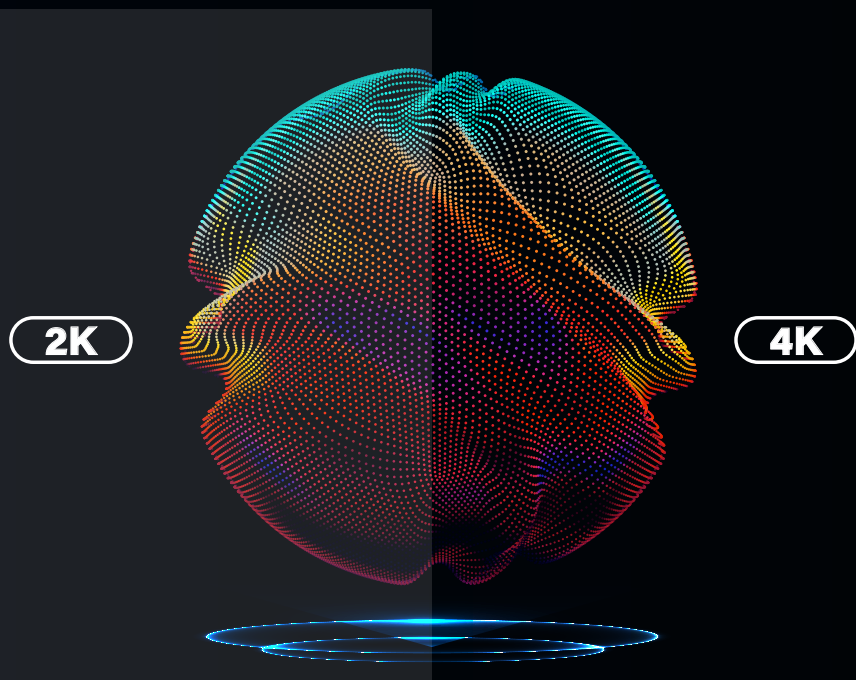


All actions, such as LED On/Off, configuration, color temperature, brightness, and display mode, for LED screen management can be conducted through GUI interface.

Meanwhile, live status of screen, such as temperature and humidity, can be obtained in real time for the sake of sustainable maintenance.

4K60 & POINT-TO-POINT CALIBRATION

4k 60Hz processing at 4:4:4 to deliver 4K experience without any compromising on content quality.

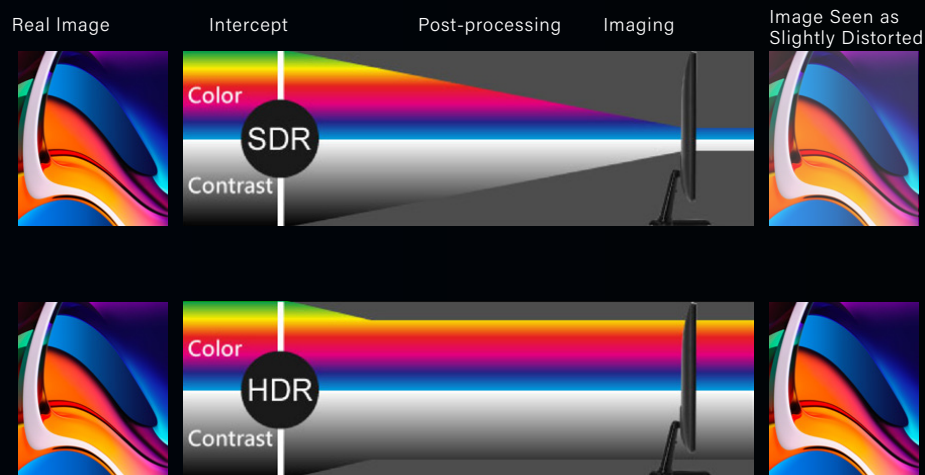


Applied 16-bit precise algorithm to eliminate chromatism and ensure unified display among entire LED screen.

12BIT HDR TO OFFER PERFECT IMAGE

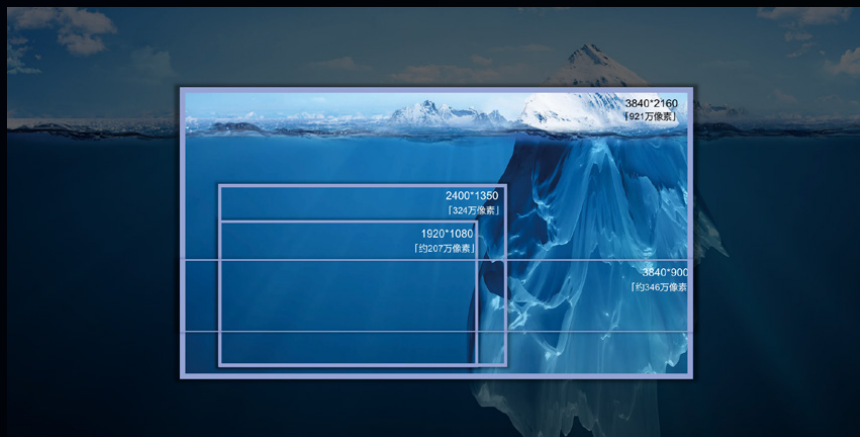
By enabling HDR features, video wall controller will deliver a more vivid and realistic image with brighter highlights and wider colors.

HDR



ULTRA SIZE & LIGHTNING-SPEED TRANSMISSION

Single LED sending card can deliver up to 13 million pixels load capacity, which makes it easy to present 4K60 experience.

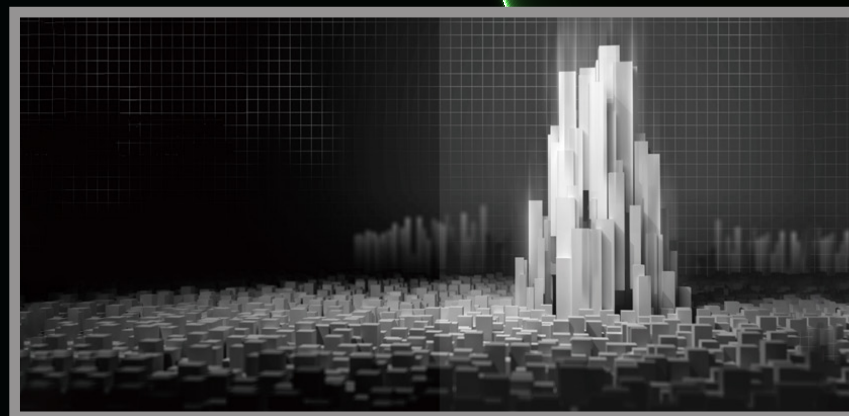


Less than 1ms latency from video source to LED display, to guarantee all splendid content will be presented in real time smoothly.

GAMMA CORRECTION & GRAYSCALE ADJUSTMENT

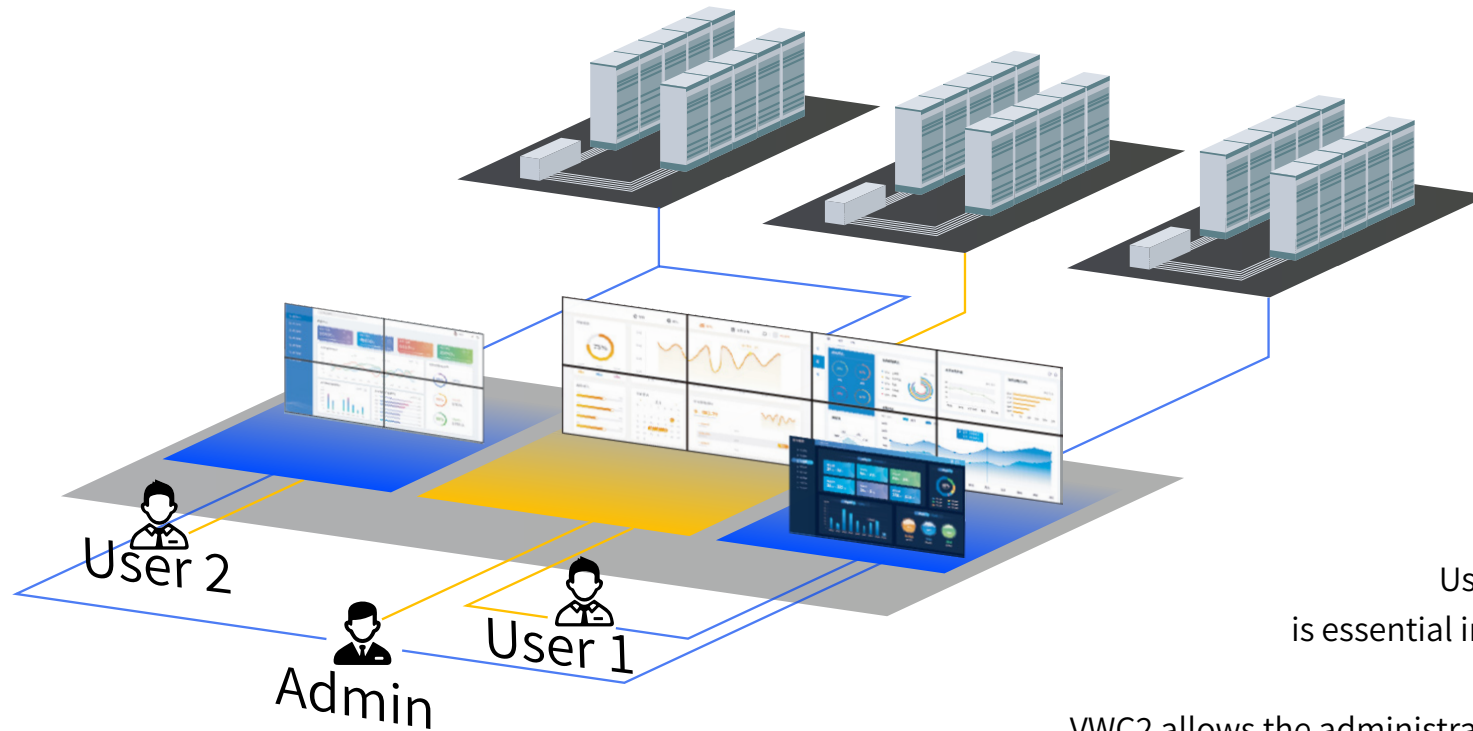


Gamma correction is available to individual R, G, B channel to obtain perfect brightness.



Adopted DigiBird self-owned PWM algorithm, from low to high grayscale, every level can be presented on LED screen precisely and smoothly.

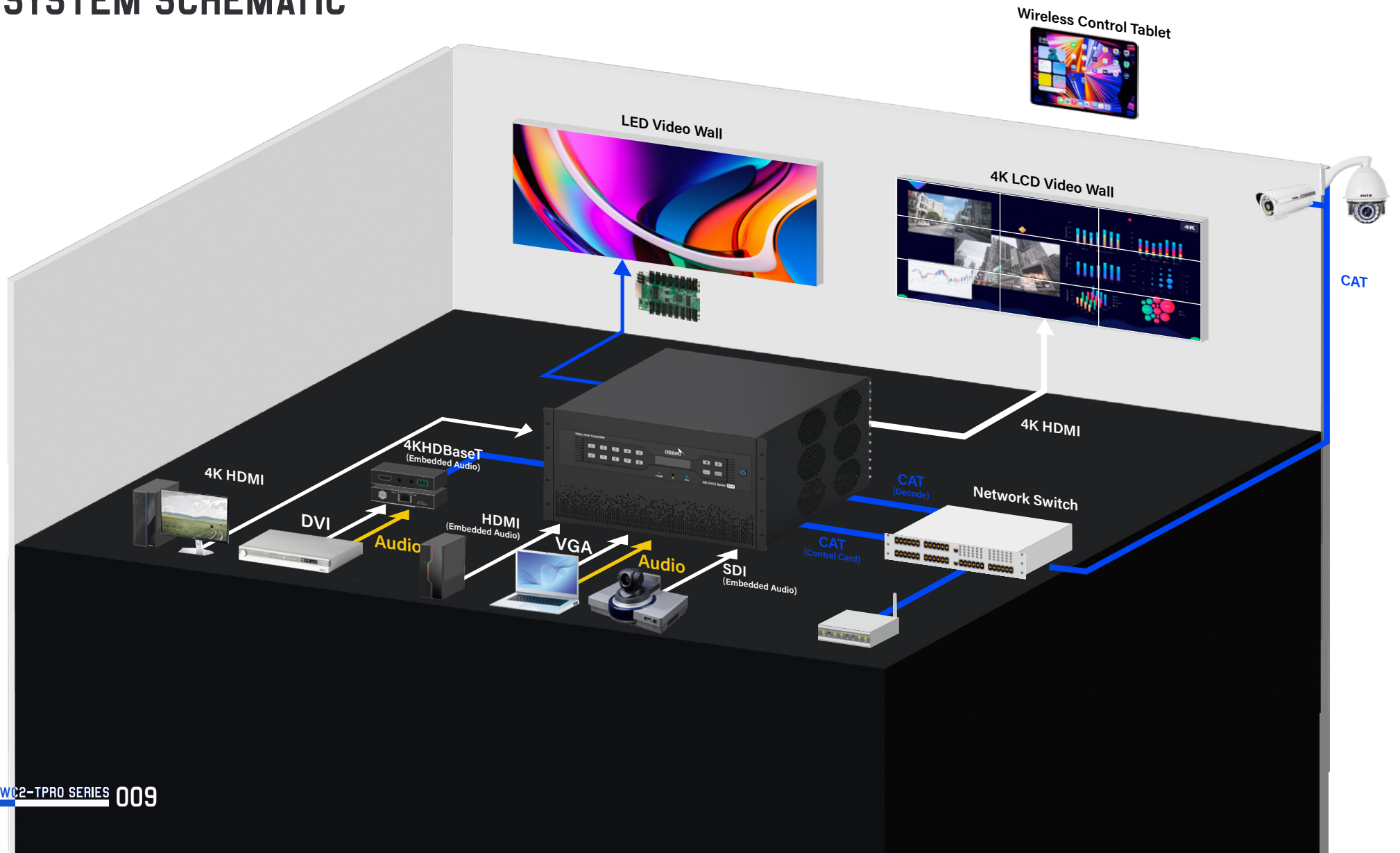
SPECIFIED USER ACCESS MANAGEMENT



User access management is essential in mission critical cases.

VWC2 allows the administrator to authorize certain users access for video wall management based on user role and business, i.e., authorities for specific input, displays, and functions, etc.

SYSTEM SCHEMATIC



COMPARISON CHART

CHASSIS

Order Code:	Size:	Description:	Input Cards:	Output Cards:	Control Cards (Default+ Redundant):	CMC*:	PSUs (Default+ Redundant):
DB-VWC2-TP-FR4K	4U	4U Chassis, up to 8x input cards, 3x output cards.	8	3	1+1	1	1+1
DB-VWC2-TP-FR6K	6U	6U Chassis, up to 14x input cards, 5x output cards.	14	5	1+1	1	1+1
DB-VWC2-TP-FR8K	8U	8U Chassis, up to 15x input cards, 10x output cards.	15	10	1+1	1	1+1
DB-VWC2-TP-FR14K	14U	14U Chassis, up to 29x input cards, 10x output cards.	29	10	1+1	1	1+1
DB-VWC2-TP-FR19K	19U	19U Chassis, up to 37x input cards, 20x output cards.	37	20	1+1	1	1+1

INPUT CARDS

Order Code:	Port Type:	Description:	Ports Qty.	Signal Type:	Resolution:
DB-VWC2-TP-IC-DVI4	DVI-I	4 channels DVI input card.	4	DVI-D	Up to 1920x1200/60Hz
DB-VWC2-TP-IC-SDI4	BNC	4 channels SDI input card.	4	SDI	Up to 1920x1080/60Hz
DB-VWC2-TP-IC-VGA4	VGA	4 channels VGA input card.	4	VGA	Up to 1920x1200/60Hz
DB-VWC2-TP-IC-HDMI4-HDR	HDMI	4 channels HDMI input card, 12bit HDR supported	4	HDMI1.3	Up to 1920x1200/60Hz
DB-VWC2-TP-IC-3DHDMI4	HDMI	4 channels 3D HDMI input card	4	HDMI 3D	Up to 1920x1080/120Hz
DB-VWC2-TP-IC-3D4KHDMI2	4K HDMI	4 channels 4K 3D HDMI input card	2	HDMI 3D	Up to 3840x2160/60Hz
DB-VWC2-TP-IC-4KHDMI4	4K HDMI	4 channels 4K HDMI input card.	4	HDMI1.4	Up to 3840x2160/30Hz
DB-VWC2-TP-IC-4KDP4	4K DP	4 channels 4K DP input card.	4	DP1.1	Up to 3840x2160/30Hz
DB-VWC2-TP-IC-IPH2*	RJ45	2 ports IP decoding card.	2	IP	Up to 3840x2160/30Hz/ 4000x3000/25Hz
DB-VWC2-TP-IC-4KIPH2*	RJ45	2 ports IP decoding card.	2	IP	Up to 3840x2160/30Hz/ 4000x3000/25Hz
DB-VWC2-TP-IC-4K60HDMI/DP2	4K60DP/HDMI	2 channels 4K60 DP or HDMI input card, customization supported	2	DP1.2/HDMI2.0	Up to 3840x2160/60Hz
DB-VWC2-TP-IC-4KHDBT4	RJ45	4 channels 4K HDBaseT input card.	4	HDBT	Up to 3840x2160/30Hz
DB-VWC2-TP-IC-4K60HDMI1-HDR	4K60 HDMI	1 channel HDMI 4K60 input card, 12bit HDR supported	1	HDMI2.0	Up to 3840x2160/60Hz
DB-VWC2-TP-IC-4KHDMI2-HDR	4K HDMI	2 channels 4K HDMI input card, 12bit HDR supported	2	HDMI 1.4	Up to 3840x2160/30Hz

COMPARISON CHART

OUTPUT CARDS

Order Code:	Port Type:	Description:	Ports Qty.	Signal Type:	Resolution:
DB-VWC2-TP-OC-4KHDMI4-HDR	4K HDMI	4 channels 4K HDMI output card, 12bit HDR supported	4	HDMI 1.4	Up to 3840x2160/30Hz
DB-VWC2-TP-OC-J4KHDMI4	4K HDMI	4 channels J-series 4K30 HDMI output card.	4	HDMI 1.4	Up to 3840x2160/30Hz
DB-VWC2-TP-OC-JHDMI4	HDMI	4 channels J-series HDMI output card.	4	HDMI 1.3	Up to 1920x1200/60Hz
DB-VWC2-TP-OC-JHDBT4	RJ45	4 channels J-series HDBaseT output card.	4	HDBT	Up to 1920x1200/60Hz
DB-VWC2-TP-OC-J4KHDBT4	RJ45	4 channels J-series 4K30 HDBaseT output card.	4	HDBT	Up to 3840x2160/30Hz
DB-VWC2-TP-OC-J4K60HDMI2	4K60 HDMI	2 channels J-series 4K60 HDMI output card.	2	HDMI2.0	Up to 3840x2160/70Hz
DB-VWC2-TP-OC-JDVI4	DVI	4 channels J-series DVI output card.	4	DVI	Up to 1920x1200/60Hz
DB-VWC2-TP-OC-4K60HDMI2-HDR	4K60 HDMI	2 channels 4K60 HDMI output card.	2	HDMI 2.0	Up to 3840x2160/60Hz
DB-VWC2-TP-OC-NPC	RJ45	1 channel IP Network Preview card.	1	IP	/

CONTROL CARD

Control Card :	Port Type:	Description:	Signal Type:	Available chassis:
DB-VWC2-TP-CC	RJ45, RS232	Control Card.	Control	4U, 6U, 8U, 14U, 19U

FUNCTIONAL CARD

Control Card :	Port Type:	Description:	Signal Type:	Available chassis:
DB-VWC2-TP-FC-CB	DVI	4 channels DVI Confidence Monitoring Card	DVI	4U, 6U, 8U, 14U, 19U

Control Card :	Power In:	Description:	Power Out:	Rate:	Available chassis:
DB-ACM-PSU-550W	AC 100-240V	PSU (Power Supply Unit.)	DC 12V	550W	4U, 6U, 8U, 14U, 19U



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