

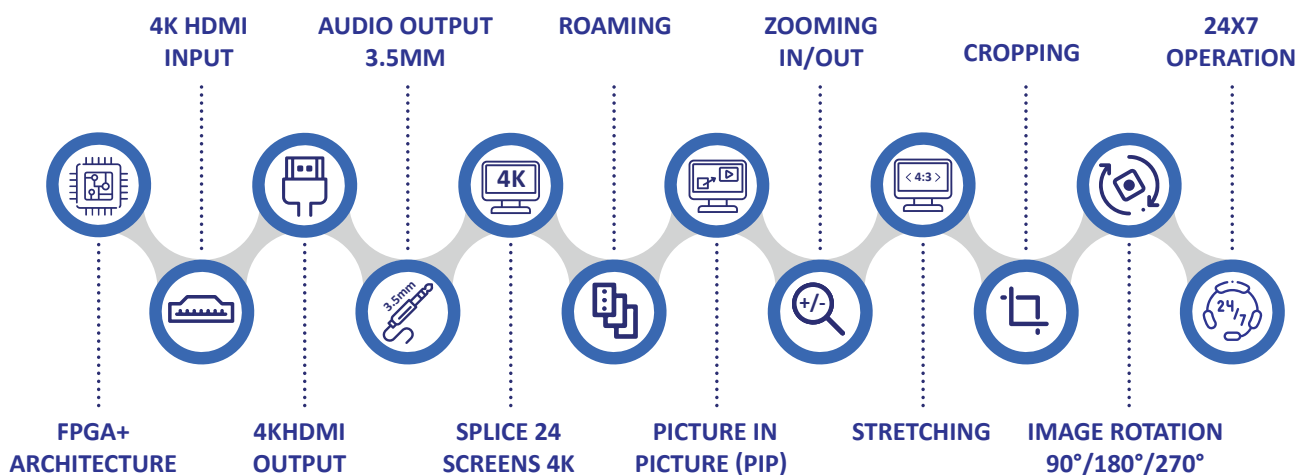


## Display Controller 8 Input & 24 Output

**Model  
ADCB-ALC03**

### FEATURES

- FPGA+ EMBEDDED ARCHITECTURE WHICH PROVIDES BETTER PERFORMANCE & 24X7 HOURS OF LONG-TERM OPERATION.
- SUPPORT PC, ANDROID BOX, GAME CONSOLES AND OTHER DEVICES AS INPUT SOURCES FOR VARIOUS APPLICATIONS
- SEAMLESS REAL TIME SWITCHING, AND MANUAL INPUT OF POSITIONS TO ACHIEVE PRECISE POSITIONING
- SUPPORT 16 HDMI OUTPUT INTERFACE WITH MAXIMUM RESOLUTION OF 1920X1080P@60HZ.
- SUPPORT 8 HDMI INPUT INTERFACE WITH MAXIMUM RESOLUTION OF 1920X1080@60HZ
- SUPPORT ARBITRARY SUPERIMPOSITION, ROAMING, MOVING, ZOOMING, CROPPING OF IMAGES.
- INPUT CAN BE ROTATED 90°, 180°, 270° AND FIRST LINE OF OUTPUT CAN BE ROTATED 180°.
- SUPPORTS IR REMOTE CONTROL, RS232, TCP/IP, WEB CONTROL FOR EASY CONFIGURATION.
- SCENE SWITCHING DELAY IS <30MS, SEAMLESS, NO LAG, NO BLUE SCREEN, AND NO FLICKER;
- SUPPORT POWER OFF MEMORY, HOST COMPUTER READ BACK, PLAN SAVE OPERATIONS.
- LOW POWER CONSUMPTION, ENERGY-SAVING & ENVIRONMENTALLY FRIENDLY DESIGN.
- IMAGE EFFECT COLOR, BRIGHTNESS AND SATURATION CAN BE ADJUSTED.



## DISPLAY CONTROLLER 8 INPUT & 24 OUTPUT

AVAIVI's Videowall Controller stands at the forefront of cutting-edge display technology, delivering a seamless and immersive visual experience. With support for 4K HDMI and DP inputs, as well as 1080p HDMI inputs, this controller ensures top-tier image quality for your videowall setup. The controller features a 1080p HDMI output, providing a crisp and clear display. With 4K HDMI output capability, it empowers your videowall with stunning visuals. The audio output through the 3.5mm port enhances the overall multimedia experience. For unparalleled versatility, the controller enables the splicing of up to 9 screens in 4K resolution. The ability to rotate images at 90°, 180°, and 270° offers flexible display options, catering to diverse content requirements. Multiple splicing modes further enhance customization possibilities. For seamless integration into your AV setup, the controller supports RS232 control, allowing for streamlined communication and control. Additionally, the web control feature provides a user-friendly interface for convenient and efficient management of your videowall. AVAIVI's Videowall Controller combines advanced features and user-friendly controls to deliver a powerful solution for creating captivatvvnng visual displays in various settings.



### FPGA+ ARCHITECTURE

AVAIVI's Videowall Controller features a cutting-edge FPGA+ architecture, combining the power of Field-Programmable Gate Arrays (FPGA) with advanced architectural design. This innovative approach enhances the controller's processing capabilities, enabling efficient and high-performance video processing for demanding videowall applications. The FPGA+ architecture ensures optimized signal processing, rapid data throughput, and real-time responsiveness, contributing to a seamless and visually stunning videowall experience. With this advanced technology, AVAIVI's Videowall Controller stands out for its ability to handle complex video processing tasks and deliver exceptional performance in creating dynamic and immersive videowall displays.

### 4K HDMI INPUT

AVAIVI's Videowall Controller is equipped with a 4K HDMI input, setting the stage for uncompromised visual excellence. This feature allows seamless integration with high-resolution sources, ensuring that your videowall displays content in stunning detail and clarity. Whether you're showcasing presentations, videos, or graphics, the 4K HDMI input ensures that your content is portrayed with precision and brilliance. Elevate your visual experience with this advanced input capability, designed to meet the demands of modern multimedia environments.



### 4K HDMI OUTPUT

AVAIVI's Videowall Controller boasts a powerful 4K HDMI output, delivering stunning visuals with exceptional clarity and detail. With support for 4K resolution, this feature ensures that your videowall displays content at the highest quality, making it ideal for applications that demand superior image precision. The 4K HDMI output enhances the overall visual experience, allowing you to showcase content in ultra-high definition. Elevate your videowall setups with AVAIVI's Videowall Controller, providing a cutting-edge 4K HDMI output for immersive and impactful displays.



### AUDIO OUTPUT 3.5MM

AVAIVI's Videowall Controller features a convenient Audio Output with a 3.5mm port. This allows for seamless integration of audio into your videowall setups, ensuring a comprehensive multimedia experience. Whether you're displaying videos, presentations, or other content, the Audio Output enables synchronized sound to accompany your visuals. This feature adds an extra layer of immersion and engagement to your videowall applications, enhancing the overall impact of your multimedia



presentations. With AVAIVI's Videowall Controller, bring audio-visual harmony to your display solutions through the versatile 3.5mm Audio Output.



### SPLICE 24 SCREENS 4K

AVAIVI's Videowall Controller empowers you to create a stunning and expansive visual canvas by seamlessly splicing and managing up to 24 screens with impressive 4K resolution. This advanced capability is perfect for large-scale installations, control rooms, and immersive digital environments where precision and clarity are paramount. With AVAIVI's Videowall Controller, you can achieve a truly immersive and impactful display that captivates your audience. Elevate your visual communication strategy and harness the full potential of your display infrastructure with the cutting-edge technology offered by AVAIVI.

### ROAMING



AVAIVI's Videowall Controller empowers users with unlimited content layout design possibilities, including the innovative Roaming feature. With Roaming, you can seamlessly navigate and explore across your video wall, dynamically shifting focus to different areas for enhanced viewer engagement. This feature adds a layer of interactivity to your displays, allowing you to highlight specific content, key information, or impactful visuals as needed. Experience the freedom to create captivating and dynamic presentations, making your video wall a versatile and attention-grabbing communication tool. Elevate your visual storytelling with AVAIVI's Videowall Controller and unleash the full potential of unlimited content layout design.



### PICTURE IN PICTURE (PIP)

AVAIVI's Videowall Controller offers the versatile Picture-in-Picture (PiP) feature, allowing users to display multiple video sources simultaneously on a single screen. With PiP, you can overlay a smaller window containing additional content (such as a secondary video feed or images) onto the main display. This feature enhances the flexibility of your video wall, enabling dynamic content combinations and providing a comprehensive view of multiple sources at once. Whether for surveillance, presentations, or content monitoring, PiP adds a layer of customization to your visual communication strategy. Experience the power of multi-source display with AVAIVI's Videowall Controller and elevate your content presentation capabilities.

### ZOOMING IN/OUT



AVAIVI's Videowall Controller introduces the advanced Zooming feature, providing users with the flexibility to magnify or shrink content seamlessly across the video wall display. With the ability to zoom in for a closer look or zoom out for a broader view, this feature ensures that every detail is accessible and visible. Whether you're monitoring surveillance footage, analyzing intricate visuals, or delivering impactful presentations, the Zooming feature enhances your control over content layout design. Experience precision and adaptability in content presentation with AVAIVI's Videowall Controller, empowering you to create immersive and dynamic displays tailored to your specific needs.



## STRETCHING

AVAIVI's Videowall Controller introduces the innovative Stretching feature, allowing users to dynamically resize and adapt content across the video wall display. Whether you need to emphasize specific visuals, create unique layouts, or achieve a uniform display, the Stretching feature offers unparalleled flexibility in content presentation. By seamlessly stretching content to fit various screen configurations, users can optimize their video wall for different applications, from surveillance monitoring to multimedia presentations. Experience enhanced creativity and control over content layout design with AVAIVI's Videowall Controller, ensuring your displays are tailored to meet diverse requirements with precision and ease.

## CROPPING



AVAIVI's Videowall Controller brings the power of unlimited content layout design with the innovative Cropping feature. This functionality allows users to selectively focus on specific regions of interest within source content, delivering a tailored and impactful visual experience. Whether you aim to highlight crucial details, eliminate unwanted elements, or create a unique composition, Cropping empowers you to customize the presentation on your video wall with precision. Enhance your display



## IMAGE ROTATION 90°/180°/270°

AVAIVI's Videowall Controller ensures flexible content presentation with Image Rotation capabilities. Offering three options—90°, 180°, and 270°—users can effortlessly adjust the orientation of displayed images. Whether you need to adapt content to match specific screen alignments, create visually dynamic displays, or simply enhance the overall viewing experience, AVAIVI's Videowall Controller provides the versatility you need. Elevate your videowall setup with the convenience of customizable image rotation, designed to meet your diverse display requirements.

## 24X7 OPERATION



AVAIVI's Videowall Controller is designed for 24x7 operation, ensuring continuous and reliable performance in demanding environments. Whether deployed in control rooms, command centers, or digital signage applications, this controller is built to withstand round-the-clock usage. The robust design and high-quality components contribute to long-term durability, making it a dependable choice for applications where uninterrupted operation is critical. Users can trust AVAIVI's Videowall Controller to deliver consistent and reliable performance, providing peace of mind for applications that require non-stop visual displays.

## DISPLAY CONTROLLER 8 INPUT & 24 OUTPUT

Specifications	
Input Interface Type	8x Interface: (HDMI 1.4) Max. Resolution: 3840x2160@60Hz
Input Video Pixel Frequency	600MHz
Maximum Resolution	3840x2160@60Hz
Input Color Depth	32bit, RGB444, YUV444
Output Interface Type	16x Interface: (HDMI 1.4) Max. Resolution: 3840x2160@60Hz
Loop Distance	(≤15m) Loop
Output Video Pixel Frequency	165MHz
Output Color Depth	24bit, RGB444
Audio Output	3.5 mm headphone jack
Rotation	90/180/270 degrees
Video Wall Splicing mode	All splicing modes within 24 screens
Multi-view Mode	4 modes (Left & Right/ Up & Down/One large and three small)
Roaming function	Supported
PIP Mode	Support window custom size
Control Method	serial port RS232
	RJ-45LAN for Web control via PC
Power Input	Single, AC 100~240V, 50/60 Hz
Power Consumption	150W
Operating Temperature	-20~ +55C°
Operating humidity	20% ~ 85% RH Non-Condensing.
Dimension	482x533x300
Weight	9kg

## ABOUT AVAIVI

AVAIVI is a dynamic and innovative DPIIT recognised Startup Company for its commitment to driving excellence, fostering innovation, and contributing to Bharat's burgeoning entrepreneurial landscape. AVAIVI specialises in providing cutting-edge Audio-Visual Solutions, AI-based Software and Security & Surveillance Technology.

**AV Technology:** AVAIVI's state-of-the-art audio-visual solutions redefine how information is presented and shared. Our innovative AV solutions include interactive displays, digital signage, audio systems, and immersive multimedia experiences.

**AI Software Suite:** From predictive analytics to process optimization, our AI-based software applications empower organizations to make informed decisions, streamline operations, and stay ahead in a rapidly evolving digital landscape.

**Video Surveillance:** AVAIVI's expertise in CCTV security surveillance technology goes beyond traditional monitoring. Our comprehensive solutions encompass advanced camera systems, intelligent video analytics, and remote monitoring capabilities.

Disclaimer: The information provided in this product datasheet is intended for general informational purposes only. While we strive to ensure the accuracy and reliability of the information presented. It is important to note that product specifications and features may change without prior notice.