TRICOLOR®
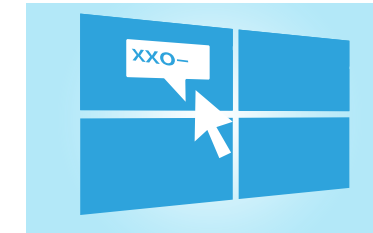
APOLLO™ Pro

Professional Video Wall Processor

INTRODUCING APOLLO PRO

Apollo Pro V4 professional video wall processor is Tricolor's newest and best performing equipment. It supports 4K @ 60 Hz ultra-high definition video signal acquisition and transmission with full 4:4:4 chromaticity sampling in the RGB gamut. Utilizing FPGA architecture as well as modular design, Apollo Pro V4 retains Tricolor's traditional stable and reliable operational ability, but at the same time supports various interfaces and business modules for flexible and personalized combination, along with the convenience for future upgrading. The new generation Apollo Pro supports signal preview and monitoring, audio-visual synchronized switching, scrolling caption, classification management, and RealControl (PC signal operation) function, a breakthrough technology which enables users to control output signals within the video wall with an OSD mouse. It is compatible with various types of control interfaces, which makes the system exceptionally user friendly. Apollo Pro is tailored for intelligent control centers and suitable for police stations, traffic controls, power stations, television and broadcastings, banks, exhibitions, education and scientific research, etc. Tricolor fills the gap between video control and display and brings a marvelous video wall processor with extraordinary management solution.

Multi-User and Authorization

Supports multi-user simultaneous operationand real-time synchronization. The user authorizationcan be detailed divided into screengroups, signals and di erent user-de nedgroups.

Labeling Function

Video Wall real-time labeling with OSDmouse. With Apollo Pro OSD mouse,user can easily mark onto Video wallwith text, labels, lines, etc. Simple operation,convenient display which makesinformation sharing easy and quick.

Video Wall Banner

Users can adjust the font, back-groundcolor, size and position of the videowall banner. Also suppor t TIME/-DATE/WEATHER display.

Features

4K Resolution

Supports 4K ultra high resolution inputand output video, with P2P (Pixel toPixel) displaying quality. The systemalso supports any LCD, DLP and LEDvideo display.

A/V Sync Switch

Apollo Pro supports any type of analog/em-bedaudio input and output. It can help user-sto manage audio and video signal to besynchronized.

4K@60 Transmission

It supports 4K @ 60Hz ultra-high definition video signal acquisition and transmission. Video image resolution can reach 4:4:4 chroma sampling in RGB gamut, and the image color reproduction is extremely realistic. The visual impact brings an even more immersive experience.

Multi-Function Slots

Selections of cards are provided up-onuser request. Input card, output cardand control card can be inserted andwork in any card slot, which makesmaintenance, repair and up-dateeortless.

On Screen Mouse Control

Video display can be operated within thevi-deo wall using mouse as if operating a giant-desktop. Users can open/close, resize, move all input signal window with on screen mouse instead of controlling software.
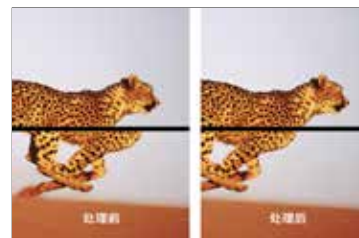
Ip Stream Media

The device supports H.264/AVC and H.265/HEVC hard decoding. It is able towork with various IPC brands and encoders.Audio de-embedding for high de-nition network video display on thescreen and audio synchroni-zationoutput is also supported.

RealControl ™

RealControl is a breakthrough tech-nologywhich allows users to control signalsdirectly within the video wall. Video wallmanagement has never been simpler. Itis also compatible with any OperatingSystem.

Syncronization Technology

With Tricolor patented video wall synchroni-zationand frame lock technology, Apollo Pro ensures all output signals are in perfect synchronization. No matter the display unit is LCD, LED, DLP or any other type, Apollo Pro can process the video signal with zero delay.

Preset Function

Apollo Pro allows up to 128 presets stored within the system. These pre-setlayouts can be easily accessed by user management system which helps the video wall layout process to be quicker and smarter.

Scrolling Caption

Built-in HD scrolling caption function. Users can customize the content, direction, speed and style of the scrolling caption without installing any hardware or software.

Multi-Group Video Wall Management

Apollo Pro can manage up to four video wall groups with di erent selectable resolution at the same time. It helps users to control more display area with one single unit. All input signals can be shared and deployed.

Video Wall Monitoring

This function provides the operator with 60fps real-time high resolution video signal for previewing and monitoring of the video wall through HDMI or IP Stream, which brings a better video management experience.

SPECIFICATION

Specification	
Chassis	2U、4U、10U、16U、24U
Weight	According to size
Power	According to size，redundant power support
Shockproof	ISTA 1A
Cool	Fan
Install	19-inch cabinet with mounting accessories
Operating Temperature	0℃～40℃
Storage Temperature	-10℃～60℃

Input	
DVI	Single-link 1920x1200@60Hz，3.5mm audio jack
	Dual-link 3840x2400@30Hz, 2560x1600@60Hz，3.5mm audio jack
HDMI	Resolution of HDMI 1.3 up to 1920x1080@60Hz，Embed audio
	Resolution of HDMI 1.4 up to 3840x2160@30Hz，Embed audio
DisplayPort	3840x2400@30Hz, 2560x1600@60Hz，downward compatibility
VGA	Up to 1920x1200@60Hz，Audio interface 3.5mm
YPbPr	Up to 1920x1080@60Hz，Audio interface 3.5mm
SDI	Up to 1920x1080@60Hz，Support embed audio
IP	Up to 1920x1080@60Hz，Support embed audio
CVBS	PAL / NTSC，Audio interface 3.5mm
HDBT	Up to 1920x1200@60Hz，Support embed audio
Fiber	Up to 1920x1200@60Hz，Support embed audio

Output	
DVI	Single-link 1920x1200@60Hz，3.5mm audio jack
	Dual-link 3840x2400@30Hz, 2560x1600@60Hz，3.5mm audio jack
HDMI	Resolution of HDMI 1.3 up to 1920x1080@60Hz，Embed audio
	Resolution of HDMI 1.4 up to 3840x2160@30Hz，Embed audio
HDBT	Up to 1920x1200@60Hz，Support embed audio
Fiber	Up to 1920x1200@60Hz，Support embed audio

Function	
Multi-View	Standard
Video Processing	Lossless Zooming
Signal Preview	Standard
Video Wall Mirroring	Optional，Support HDMI / IP output; Up to 60fps;
OSD Mouse	Standard，Large mouse layout control on video wall
Input	Compatible with NVIDIA Mosaic and AMD Eyefinity Support "pixel to pixel"
Border Outline	Custom image border size and colors
Image cropping	Cropping images in any position
Frame Sync	Standard
Background image	Ultra-high resolution
Scenes/Preset	Up to 1000
Character superposition	Standard，Customizable
IP Streaming	Optional
EDID Customize	Support customization
Scrolling Text	Standard，Customizable
Front panel	Optional touch screen;
Multi-user	Standard multi-user control Run Log
Run Log	Standard
RealControl	Optional，Use OSD Mouse directly control input signal

Scale	
Input Scale	160 Ports 1080p Input
Output Scale	8（2U）；20（4U）；40（10U，16U）；80（24U）

Control	
Port	TCP/IP 10/100/1000 Base-T，RJ45 ×1
	RS 232/485 (RJ45 type), RJ45 ×2
Control protocol	TRICOLOR protocol
Operation System	Windows/iOS/Android

TRICOLOR® **Beijing Tricolor Technology Co.,Ltd.**

POWER YOUR PERFECTION

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2019.4