



Video Processors for Video Walls

Alpha FX video processors capture and deliver multiple 4K UHD video sources to the Haivision Command 360 video wall solution. In addition to physical inputs and outputs, Alpha FX video processors offer native encoding and decoding, enabling users to display and share video wall content across their network in real time.

The power of Alpha FX video processors, along with the wider Command 360 ecosystem, delivers unmatched situational awareness and real-time decision-making capabilities for mission-critical environments worldwide.





BENEFITS OF ALPHA FX VIDEO PROCESSORS

► POWER MULTIPLE HD AND 4K UHD DISPLAYS

Handle the processing demands of high-density inputs and outputs efficiently with Alpha FX video processors. Use a single video processor to power multiple HD or 4K UHD displays at once without compromising image quality.

► DISPLAY CONTENT IN REAL-TIME

Capture and display content from any digital, analog, or IP source including computer workstations, laptops, tablets, IP cameras, and media players.

► ENSURE 24/7 RELIABILITY

Entrust your most important operations to a video wall processor designed for quality and reliability. Alpha FX video processors are built to handle round-the-clock workloads within the most mission-critical environments.

► SUPPLEMENTAL VIDEO WALL CONTROL

Support your entire operation center with a single Alpha FX video processor. Supplemental screens or auxiliary conference rooms can also be powered by the same processor, irrespective of their display layout, type, or aspect ratio.

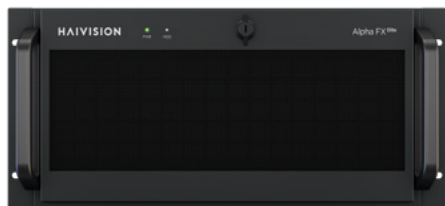
► FLEXIBLE AND SCALABLE MODULAR DESIGN

Protect your hardware investment as your organization grows through the modularity of the Alpha FX video wall solution. Add additional Alpha FX video processors to your deployment to scale your video wall operation and ensure complete situational awareness.

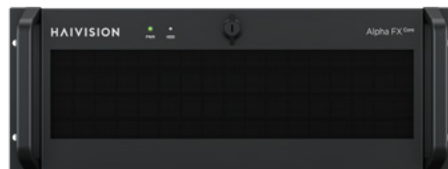
► COMPLETE PRODUCT SERIES

Alpha FX video processors are available in a variety of configurations designed to meet any sized operation center. With these configurations, you can choose a processor that matches your specific video wall requirements.

VIDEO PROCESSOR OPTIONS



Elite



Core

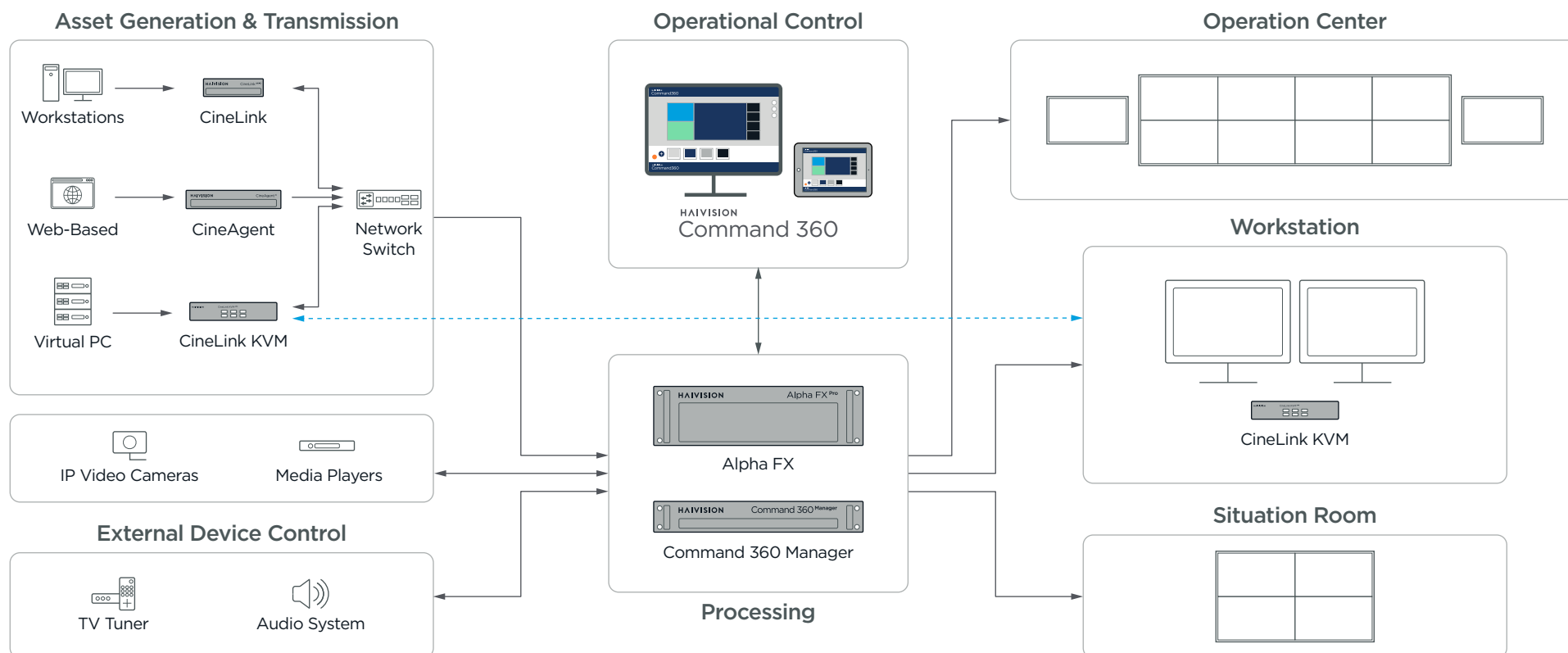


Pro



Edge

COMMAND 360 SYSTEM ARCHITECTURE



SYSTEM CONFIGURATION	
SYSTEM ARCHITECTURE	SBC with backplane
CPU	Intel i9-10900E
OPERATING SYSTEM	Windows 10 IoT Enterprise 2021 LTSC High End
CUSTOM CARD ARCHITECTURE	17 slot processor chassis
SYSTEM MEMORY	16 GB DDR4
STORAGE	500 GB solid state drive with backup drive
IP ENCODING/DECODING	
MAXIMUM CONCURRENT H.264 ENCODES AND DECODES	Up to 24 x 4K UHD (3840x2160) @60Hz
	Up to 48 x 4K UHD (3840x2160) @30Hz
	Up to 96 x HD (1920x1080) @60Hz
	Up to 192 x HD (1920x1080) @30Hz
OUTPUTS	
MAXIMUM OUTPUTS	Up to 18 x 4K UHD (3840x2160) @60Hz
	Up to 72 x HD (1920x1080) @60Hz*
STANDARD OUTPUT FORMAT	DisplayPort, Mini-DisplayPort
ADDITIONAL OUTPUT FORMATS SUPPORTED	DVI, HDMI
INPUTS	
MAXIMUM INPUTS	Up to 24 x (4096x2160) @60Hz**
	Up to 48 x (4096x2160) @30Hz
	Up to 24 x (3840x2160) @60Hz**
	Up to 48 x (3840x2160) @30Hz
	Up to 48 x (2560x1600) @60Hz
	Up to 48 x (1920x1080) @60Hz
STANDARD INPUT FORMAT	Mini HDMI
ADDITIONAL INPUT FORMATS SUPPORTED	HDMI, DisplayPort, DVI, 3G-SDI, 12G-SDI
PHYSICAL	
DIMENSIONS (W X H X D)	19.0 x 8.8 x 26.4 inches (5RU) 48.3 x 22.4 x 67.1 cm (5RU)
POWER SUPPLY	1780W max; redundant; hot-swappable
SUPPORTED VOLTAGE	110/220 Volts AC

*Requires additional 4K UHD to HD signal processing hardware

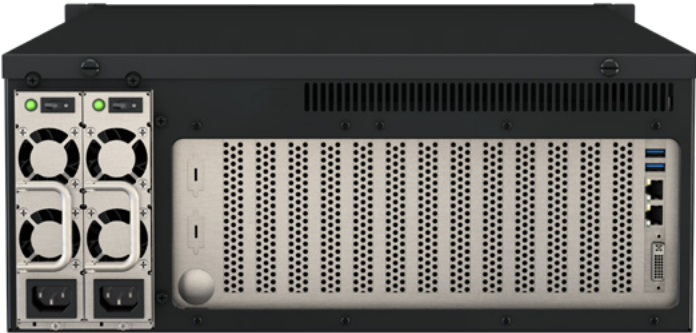
**In YUV 4:2:0, 12 bits per pixel (8 bits per component)



SYSTEM CONFIGURATION	
SYSTEM ARCHITECTURE	SBC with backplane
CPU	Intel i9-10900E
OPERATING SYSTEM	Windows 10 IoT Enterprise 2021 LTSC High End
CUSTOM CARD ARCHITECTURE	7 slot processor chassis
SYSTEM MEMORY	16 GB DDR4
STORAGE	500 GB solid state drive with backup drive
IP ENCODING/DECODING	
MAXIMUM CONCURRENT H.264 ENCODES AND DECODES	Up to 24 x 4K UHD (3840x2160) @60Hz
	Up to 48 x 4K UHD (3840x2160) @30Hz
	Up to 96 x HD (1920x1080) @60Hz
	Up to 192 x HD (1920x1080) @30Hz
OUTPUTS	
MAXIMUM OUTPUTS	Up to 12 x 4K UHD (3840x2160) @60Hz
	Up to 48 x HD (1920x1080) @60Hz*
STANDARD OUTPUT FORMAT	DisplayPort
ADDITIONAL OUTPUT FORMATS SUPPORTED	DVI, HDMI
INPUTS	
MAXIMUM INPUTS	Up to 8 x (4096x2160) @60Hz**
	Up to 16 x (4096x2160) @30Hz
	Up to 8 x (3840x2160) @60Hz**
	Up to 16 x (3840x2160) @30Hz
	Up to 16 x (2560x1600) @60Hz
	Up to 16 x (1920x1080) @60Hz
STANDARD INPUT FORMAT	Mini HDMI
ADDITIONAL INPUT FORMATS SUPPORTED	HDMI, DisplayPort, DVI, 3G-SDI, 12G-SDI
PHYSICAL	
DIMENSIONS (W X H X D)	19.0 x 7.0 x 26.4 inches (4RU) 48.3 x 17.8 x 67.1 cm (4RU)
POWER SUPPLY	800W max; redundant; hot-swappable
SUPPORTED VOLTAGE	110/220 Volts AC

*Requires additional 4K UHD to HD signal processing hardware

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SYSTEM CONFIGURATION	
CPU	Intel i9-10900E
OPERATING SYSTEM	Windows 10 IoT Enterprise 2021 LTSC High End
SYSTEM MEMORY	16 GB DDR4
STORAGE	500 GB solid state drive with backup drive
IP ENCODING/DECODING	
MAXIMUM CONCURRENT H.264 ENCODES AND DECODES	Up to 4 x 4K UHD (3840x2160) @60Hz
	Up to 8 x 4K UHD (3840x2160) @30Hz
	Up to 16 x HD (1920x1080) @60Hz
	Up to 32 x HD (1920x1080) @30Hz
OUTPUTS	
MAXIMUM OUTPUTS	Up to 4 x 4K UHD (3840x2160) @60Hz
	Up to 16 x HD (1920x1080) @60Hz*
STANDARD OUTPUT FORMAT	DisplayPort
ADDITIONAL OUTPUT FORMATS SUPPORTED	DVI, HDMI
INPUTS	
MAXIMUM INPUTS	Up to 4 x (4096x2160) @60Hz**
	Up to 8 x (4096x2160) @30Hz
	Up to 4 x (3840x2160) @60Hz**
	Up to 8 x (3840x2160) @30Hz
	Up to 8 x (2560x1600) @60Hz
	Up to 8 x (1920x1080) @60Hz
STANDARD INPUT FORMAT	Mini HDMI
PHYSICAL	
DIMENSIONS (W X H X D)	18.84 x 3.39 x 19.44 inches (2RU)
	47.9 x 8.6 x 49.4 cm (2RU)
POWER SUPPLY	400W max; redundant; hot-swappable
SUPPORTED VOLTAGE	110/220 Volts AC

*Requires additional 4K UHD to HD signal processing hardware

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SYSTEM CONFIGURATION	
CPU	Intel i9-10900E
OPERATING SYSTEM	Windows 10 IoT Enterprise 2021 LTSC High End
SYSTEM MEMORY	16 GB DDR4
STORAGE	500 GB solid state drive with backup drive
IP ENCODING/DECODING	
MAXIMUM CONCURRENT H.264 ENCODES AND DECODES	Up to 2 x 4K UHD (3840x2160) @60Hz
	Up to 4 x 4K UHD (3840x2160) @30Hz
	Up to 8 x HD (1920x1080) @60Hz
	Up to 16 x HD (1920x1080) @30Hz
OUTPUTS	
MAXIMUM OUTPUTS	Up to 4 x 4K UHD (3840x2160) @60Hz
	Up to 16 x HD (1920x1080) @60Hz*
STANDARD OUTPUT FORMAT	DisplayPort
ADDITIONAL OUTPUT FORMATS SUPPORTED	HDMI
INPUTS	
MAXIMUM INPUTS	Up to 2 x (4096x2160) @60Hz**
	Up to 4 x (4096x2160) @30Hz
	Up to 2 x (3840x2160) @60Hz**
	Up to 4 x (3840x2160) @30Hz
	Up to 4 x (2560x1600) @60Hz
	Up to 4 x (1920x1080) @60Hz
STANDARD INPUT FORMAT	Mini HDMI
PHYSICAL	
DIMENSIONS (W X H X D)	19 x 1.75 x 17.7 inches (1RU) 48.3 x 4.4 x 45.0 cm (1RU)
POWER SUPPLY	200W max; redundant; hot-swappable
SUPPORTED VOLTAGE	110/220 Volts AC

*Requires additional 4K UHD to HD signal processing hardware

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Compare Command 360 Video Processors

PROCESSOR	IDEAL FOR	MAX OUTPUTS	MAX PHYSICAL INPUTS	DIMENSIONS/MOUNTING
 ALPHA FX ELITE	Large-scale control rooms	Up to 18 x 4K UHD @60Hz Up to 72 x HD @60Hz DisplayPort Mini-Display Port DVI HDMI	Up to 48 x 4K UHD @30Hz Additional inputs available with expansion chassis	Rack-mounted: 5RU 19 x 8.8 x 26.4 inches 8.3 x 22.4 x 67.1 cm
 ALPHA FX CORE	Medium to large control rooms	Up to 12 x 4K UHD @60Hz Up to 48 x HD @60Hz DisplayPort DVI HDMI	Up to 16 x 4K UHD @30Hz Additional inputs available with expansion chassis	Rack-mounted: 4RU 19 x 7 x 26.4 inches 48.3 x 17.8 x 67.1 cm
 ALPHA FX PRO	Small to medium control rooms	Up to 4 x 4K UHD @60Hz Up to 16 x HD @60Hz DisplayPort DVI HDMI	Up to 8 x 4K UHD @30Hz	Rack-mounted: 2RU 18.84 x 3.39 x 19.44 inches 47.9 x 8.6 x 49.4 cm
 ALPHA FX EDGE	Small control rooms and briefing rooms	Up to 4 x 4K UHD @60Hz Up to 16 x HD @60Hz DisplayPort HDMI	Up to 4 x 4K UHD @30Hz	Rack-mounted: 1RU 19 x 1.75 x 17.7 inches 48.3 x 4.4 x 45.0 cm



READY TO GET STARTED?

Speak to one of our experts.

CONSULT WITH AN EXPERT

HAIVISION IS TRUSTED BY ORGANIZATIONS WORLDWIDE



SCHEDULE A LIVE DEMO

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