

Alpha FX Core

IP-Enabled Video Processor

The Haivision MCS Alpha FX Core video processor integrated with the Command 360 visual collaboration platform delivers extraordinary performance in both networked and traditional video wall environments. The Alpha FX Core is ideal for a broad range of applications, including medium to large control rooms, data visualization centers, and more. Supporting native encoding and decoding as well as physical inputs and outputs, this processor enables users to display and share video wall content across their network in real-time.

The combined power of the Alpha FX Core and Command 360 delivers unmatched situational awareness and real-time decision-making capabilities for mission-critical environments around the world. The Alpha FX Core also integrates with our industry-leading CineNet video wall management platform.



HIGH-DENSITY HD & 4K

A single Alpha FX Core can power up to 48 HD displays (or 12 4K displays) and can capture content from up to 16 HD (or 16 4K) HDMI sources. The Core also supports IP video streaming, enabling it to capture and/or stream up to 64 HD (or 16 4K) IP video sources simultaneously.

DISPLAY VIRTUALLY ANY CONTENT

With the Core, you can display content in virtually any signal format – digital or analog, physical or IP – and from nearly any device, including workstations, laptops, tablets, cameras, media players, and more.

BUILT-IN DEVICE CONTROL & AUTOMATION

Control external devices, like audio systems, VTC, and media players, from the same interface you use to control your video wall.

DECODE AND DISPLAY STREAMED VIDEO

Open and display streamed content from any IP-enabled source on your network. Streams can simply be dragged and dropped onto your video wall.

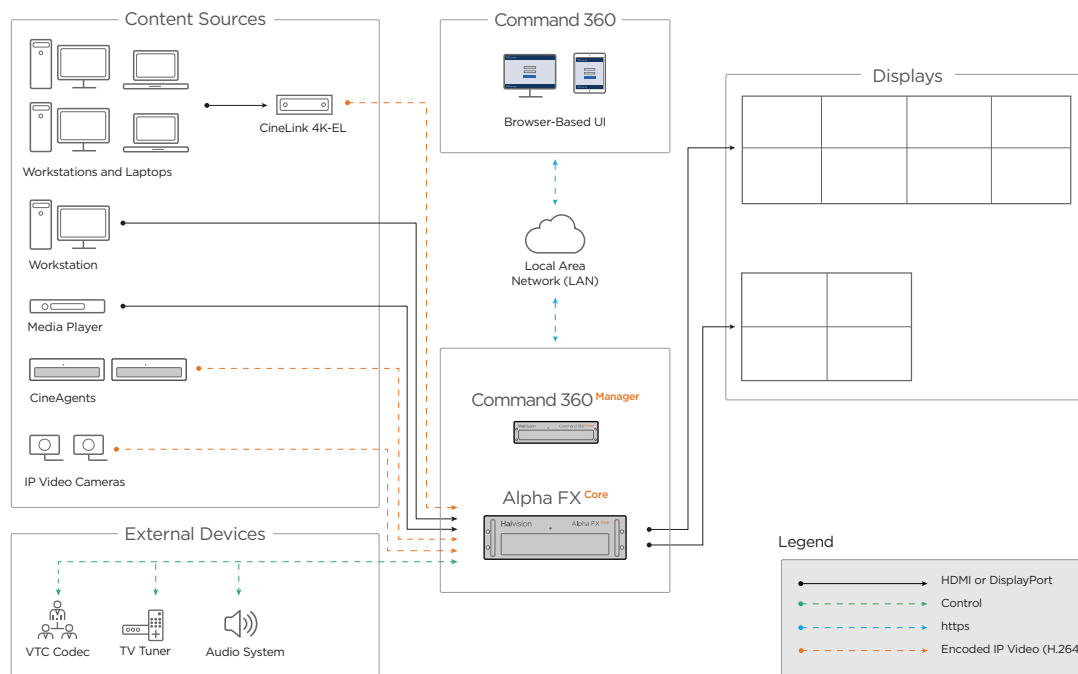
STREAM VIDEO WALL CONTENT ACROSS YOUR NETWORK

Instantly encode and stream a content source, or even your whole video wall, to specific users and display systems across your secure network.

MULTI-VIDEO WALL CONTROL

Drive multiple video walls, even systems with different display types or aspect ratios. Multiple video walls can be controlled as a single system or managed separately.

SIGNAL FLOW DIAGRAM



SYSTEM CONFIGURATION

CPU	Intel i9-10900E
OPERATING SYSTEM	Windows 10 IoT Enterprise 2021 LTSC HighEnd and Windows 11 Ready
CARD ARCHITECTURE	7 slot processor chassis
SYSTEM MEMORY	16 GB DDR4
STORAGE	180 GB capacity solid state drive with backup drive

IP ENCODING/DECODING

MAXIMUM CONCURRENT H.264 ENCODES AND DECODES	Up to 24 x 4K (3840x2160) @60Hz
	Up to 48 x 4K (3840x2160) @30Hz
	Up to 96 x HD (1920x1080) @60Hz
	Up to 192 x HD (1920x1080) @30Hz
	Or numerous SD IP channels

OUTPUTS

MAXIMUM OUTPUTS	Up to 12 x 4K (3840x2160) @60Hz
	Up to 48 x HD (1920x1080) @60Hz*
STANDARD OUTPUT FORMAT	DisplayPort
ADDITIONAL OUTPUT FORMATS SUPPORTED	DVI, HDMI

INPUTS

MAXIMUM INPUTS	Up to 16 x (4096x2160) @60Hz**
	Up to 16 x (4096x2160) @30Hz
	Up to 16 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

PHYSICAL








DIMENSIONS (W X H X D)	19.0 x 7.0 x 26.4 inches (4RU)
POWER SUPPLY	800W max; redundant; hot-swappable
SUPPORTED VOLTAGE	110/220 Volts AC

*Requires additional 4K to HD signal processing hardware

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



Compare Video Processors

PROCESSOR	RUGGEDIZED	IDEAL FOR	MAX IP STREAMS	MAX INPUTS	MAX OUTPUTS	DIMENSIONS/MOUNTING
 ALPHA FX ELITE	–	Very large control rooms and visualization systems Networked AV environments	Up to 48 x 4K Up to 192 x HD or numerous SD	Up to 48 x 4K (Additional inputs available with expansion chassis)	Up to 20 x 4K Up to 80 x HD* (DisplayPort, Mini-Display Port, DVI, HDMI)	5RU (rack-mounted) 19 x 8.8 x 26.4 inches
 ALPHA FX CORE	–	Medium to large control rooms and visualization systems Networked AV environments	Up to 16 x 4K Up to 64 x HD or numerous SD	Up to 16x 4K (Additional inputs available with expansion chassis)	Up to 12 x 4K Up to 48 x HD* (DisplayPort, DVI, HDMI)	4RU (rack-mounted) 19 x 7.0 x 26.4 inches
 ALPHA FX PRO	–	Small to medium control rooms and visualization systems Networked AV environments	Up to 4 x 4K Up to 32 x HD or numerous SD	Up to 8 x 4K	4 x 4K plus 2 x HD (DisplayPort, DVI, HDMI)	2RU (rack-mounted) 18.84 x 3.39 x 19.44 inches
 ALPHA FX EDGE	–	Smaller control rooms and visualization systems Networked AV environments	Up to 4 x 4K Up to 16 x HD or numerous SD	Up to 4 x 4K	Up to 4 x 4K Up to 48 x HD* (DisplayPort, DVI, HDMI)	1RU (rack-mounted) 19 x 1.75 x 17.7 inches
 ALPHA FX LITE	–	Smaller control rooms and visualization systems Networked AV environments	Up to 4 x 4K Up to 16 x HD or numerous SD	Up to 4 x 4K	Up to 4 x 4K Up to 16 HD (Mini-DisplayPort, DisplayPort, DVI, HDMI)	2RU (rack-mounted or freestanding) 8.66 x 3.31 x 11.12 inches
 STRYKE EX	Ruggedized	Command centers in environments with extreme temperatures, shock, vibration, salt/fog, and/or humidity/dust.	Up to 32 x 4K Up to 128 x HD or numerous SD	Digital - Up to 32 Sources Analog - Up to 16 RGB, 16 VGA, DVI-I, or RGBHV, or 32 Composite Video Sources	Up to 8 x 4K Up to 8 x HD (DisplayPort)	4RU (rack-mounted) 19 x 7 x 18.1 inches
 STRYKE	Ultra-Ruggedized	Command centers in environments with extreme temperatures, shock, vibration, dust, and/or requiring portability Networked AV environments	Up to 4 x 4K Up to 16 x HD with additional fan attachment or numerous SD	Up to 4 x 4K	Up to 4 x 4K Up to 4 x HD (Mini-Display Port, Display Port, DVI, HDMI)	(free-standing) 10.4 x 3.9 x 6.7 inches



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GSA Schedule GS-35F-0537U