

Alpha FX Elite Quick Start Guide

Alpha FX Elite



This Quick Start Guide provides the steps required to install and connect your Alpha FX Elite video wall processor.

The Alpha FX Elite is a multi-4K, IP-enabled video wall processor for mission-critical applications and is managed with Haivision Command 360 software.

For Command 360 configuration and operation information, refer to the [User's Guide](#).

General Safety Guidelines

Use the following guidelines when unsafe conditions exist or when potentially hazardous voltages are present:

- Always use caution and common sense.
- To reduce the risk of electrical shock, do not operate equipment with the cover removed.
- Repairs must be performed by qualified service personnel only.

Improper handling and/or installation practices of sensitive equipment may VOID the warranty.

Warning

Only trained and qualified personnel should install, replace, or service this equipment.
ATTENTION Seul le personnel spécialisé et qualifié est habilité à effectuer l'installation, le remplacement et l'entretien de cet équipement.

 Warning

The Alpha FX should always be moved or lifted by two persons. The handles on the front of the chassis should be used for a solid grip. Failure to properly secure or support the Alpha FX may result in serious damage to the enclosure and/or its contents.

ATTENTION Le Alpha FX doit toujours être déplacé ou soulevé par deux personnes. Les poignées situées à l'avant du châssis doivent être utilisées pour une prise solide. Le fait de ne pas sécuriser ou soutenir correctement le Alpha FX peut entraîner de graves dommages au boîtier et/ou à son contenu.

 Warning

When mounting in a server rack, refer to your rack vendor's documentation as well as the included rack mount instructions in the rail kit provided with your system. Improper rack mounting could cause serious harm to equipment and/or people near the rack. Please be sure to properly and securely mount your hardware.

Ensure that the final location has proper airflow. Do not block or impede airflow to the vents.

ATTENTION Lors du montage dans un rack de serveur, reportez-vous à la documentation du fournisseur de votre rack ainsi qu'aux instructions de montage dans un rack incluses dans le kit de rails fourni avec votre système. Un montage incorrect en rack peut causer de graves dommages à l'équipement et/ou aux personnes à proximité du rack. Assurez-vous de monter correctement et en toute sécurité votre matériel. Assurez-vous que l'emplacement final dispose d'une bonne circulation d'air. Ne bloquez pas et n'empêchez pas le flux d'air vers les bouches d'aération.

 Warning

This product is intended for installation in a restricted area. Limited access areas are protected by a specific mechanism, lock and key or other security device.

ATTENTION Ce produit est destiné à être installé dans une zone d'accès restreint. Les zones d'accès limité sont protégées par un mécanisme spécifique, une serrure et une clé ou tout autre dispositif de sécurité.

 Warning

This unit may have several power connections. All connections must be removed to turn off the unit.

ATTENTION Cette unité peut comporter plusieurs connexions d'alimentation. Toutes les connexions doivent être retirées pour éteindre l'unité.

 Warning

The installation of the equipment must comply with local and national electrical regulations.

ATTENTION L'installation de l'équipement doit être conforme aux réglementations électriques locales et nationales en vigueur.

 Caution

If you remove a power supply or fan module, replace it immediately to prevent disruption of service.

ATTENTION Si vous retirez une alimentation ou un module de ventilateur, remplacez-le immédiatement pour éviter toute perturbation du service.

 Warning**Blank Faceplates and Cover Panels**

Blank faceplates and cover panels serve three important functions: They prevent exposure to hazardous voltages and currents inside the chassis; they contain electromagnetic interference (EMI) that might disrupt other equipment; and they direct the flow of cooling air through the chassis. Do not operate the system unless all cards, faceplates, front covers, and rear covers are in place.

ATTENTION**Couvercles et panneaux vides**

Ne jamais faire fonctionner le système sans que l'intégralité des cartes, des plaques métalliques et des panneaux avant et arrière ne soient fixés à leur emplacement. Ceux-ci remplissent trois fonctions essentielles : ils évitent tout risque de contact avec des tensions et des courants dangereux à l'intérieur du châssis, ils évitent toute diffusion d'interférences électromagnétiques qui pourraient perturber le fonctionnement des autres équipements, et ils canalisent le flux d'air de refroidissement dans le châssis.

Antistatic Precautions

Electrostatic discharge (ESD) results from the buildup of static electricity and can cause computer components to fail. Electrostatic discharge occurs when a person whose body contains a static buildup touches a computer component.

The equipment contains static-sensitive devices that may be easily damaged, and proper handling and grounding is essential. Use ESD precautionary measures when installing systems or cards, and keep the parts and cards in antistatic packaging when not in use. If possible, use antistatic floor pads and workbench pads.

 Caution

When handling components, or when setting switch options, always use an antistatic wrist strap connected to a grounded equipment frame or chassis. *If a wrist strap is not available, periodically touch an unpainted metal surface on the equipment.* Never use a conductive tool, such as a screwdriver or a paper clip, to set switches.

ATTENTION Lors de la manipulation de composants ou lors du réglage des options de commutateur, utilisez toujours un bracelet antistatique connecté à un cadre ou un châssis d'équipement relié à la terre. *Si aucun bracelet n'est disponible, touchez périodiquement une surface métallique non peinte de l'équipement.* N'utilisez jamais d'outil conducteur, tel qu'un tournevis ou un trombone, pour régler les commutateurs ou interrupteurs.

EMC Warnings

Notice with respect to Class A (FCC)

Changes to equipment without the permission of Haivision may result in its failure to comply with the FCC requirements for Class A digital devices. If applicable, your rights to use the equipment may be limited by the FCC rules and you may be able to remedy, at your own expense, any interference with radio or television equipment. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference that may occur when the equipment is used in a

commercial environment. This equipment generates, uses and can radiate radio frequency energy. If not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Use of this equipment in residential areas may cause harmful interference. If necessary, users will have to resolve these issues at their own expense.

Avis relatif aux appareils de classe A (FCC)

Toute modification de l'équipement sans l'autorisation de Haivision peut entraîner sa nonconformité aux exigences de la FCC concernant les appareils numériques de classe A. Le cas échéant, vos droits d'utilisation de l'équipement seront susceptibles d'être limités par les règlements de la FCC et vous pourrez être amené à remédier, à vos frais, aux éventuelles interférences avec des dispositifs radiophoniques ou télévisuels. Cet équipement a été testé et jugé conforme aux limites d'un périphérique numérique de classe A en vertu de la partie 15 des règlements de la FCC. Ces limites ont pour but de fournir une protection raisonnable contre les interférences nuisibles susceptibles de se produire, lorsque l'équipement est utilisé dans un environnement commercial. Cet équipement génère, utilise et peut émettre de l'énergie radioélectrique. S'il n'est pas installé ni utilisé conformément au manuel d'instructions, il peut provoquer des interférences nuisibles aux communications radio. L'utilisation de cet équipement dans les zones résidentielles est susceptible de causer des interférences nuisibles. Le cas échéant, les utilisateurs devront résoudre ces problèmes à leurs frais.

Notification for Class A (Canada)

This Class A digital apparatus complies with Canadian ICES-003.

Notification pour les appareils de classe A (Canada)

Cet appareil numérique de Classe A est conforme à la norme NMB-003 du Canada.

Safety instructions for Class A for CISPR32

WARNING

This product is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may need to take appropriate measures.

Consigne de sécurité relative à la Classe A pour CISPR32

ATTENTION

Il s'agit d'un produit de Classe A. Dans un environnement domestique, ce produit peut entraîner des perturbations radioélectriques, auquel cas l'utilisateur devra éventuellement prendre des mesures adéquates.

Technical Specifications

System Configuration	
System Architecture	SBC with backplane
CPU	Intel i9-10900E
Operating System	Windows 10 IoT Enterprise 2021 LTSC HighEnd
Card Architecture	17 slot processor chassis
System Memory	16 GB DDR4
Storage	500 GB capacity 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) @ 60Hz
	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 (4096 x 2160) @ 60Hz**
	Up to 48 x (4096 x 2160) @ 30Hz
	Up to 24 x (3840 x 2160) @ 60Hz**
	Up to 48 x (3840 x 2160) @ 30Hz
	Up to 48 x (2560 x 1600) @ 60Hz
	Up to 48 x (1920 x 1080) @ 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	120/220 Volts AC
Power Consumption	10 amps at @ 120V AC 5 amps at @ 220V AC

Operating Temperature	0 to 40 °C
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*Requires additional 4K UHD to HD signal processing hardware
**In YUV 4:2:0, 12 bits per pixel (8 bits per component)

Physical Installation

Note

It is strongly recommended professional setup unique to each customer be performed by a Haivision agent. Contact Haivision for additional information.

Required Components

- AC power cord
- PC or laptop connection
- Auxiliary video display screen
- Input cables
- Output cables

Optional Components

- Peripherals (keyboard, mouse)
- Non-wireless Internet connection

Procedure

To install the Alpha FX Elite:

1. Open the box, verify the contents, and visually inspect the items for any shipping damage. If necessary, contact Haivision for return instructions.
2. Unpack the box and position the hardware on a stable work surface. Optionally, mount the device in a server rack.

Note

The Alpha FX Elite is an indoor appliance and should be kept in a dry, dust free environment.

Caution

When mounting in a server rack, refer to your rack vendor's documentation as well as the included rack mount instructions in the rail kit provided with your system. Improper rack mounting could cause serious harm to equipment and/or people near the rack. Please be sure to properly and securely mount your hardware.
Ensure that the final location has proper airflow. Do not block or impede airflow to the vents.

3. On the device:
 - Connect a control screen and peripherals (keyboard/mouse) to the unit.
 - Connect local content sources to input ports via HDMI cables.
 - Connect external display wall outputs via DisplayPort.
 - Connect network cable to either of the dual network ports.

Note

Wireless connectivity is not supported on this system.

4. On the front of the unit, flip down the faceplate and press the **Power** button.

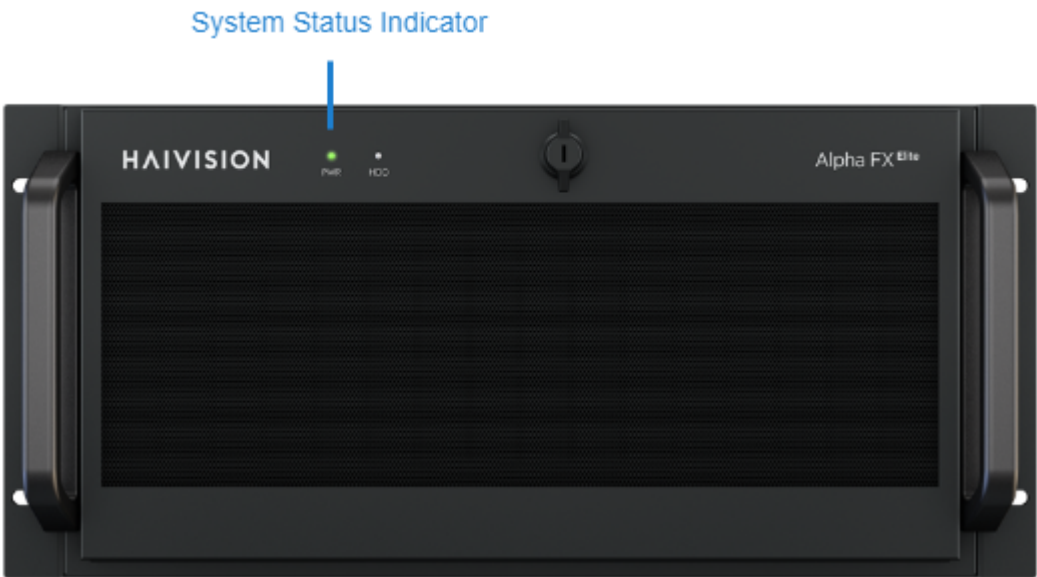
Once the Alpha FX Elite video wall processor is powered on and connected to the control point PC or laptop, Command 360 launches from the Chrome browser.

Setup of the Alpha FX Elite is now complete.

System Interfaces

See the sections below to view LED indicators and system interfaces on the front and back of the Alpha FX Elite.

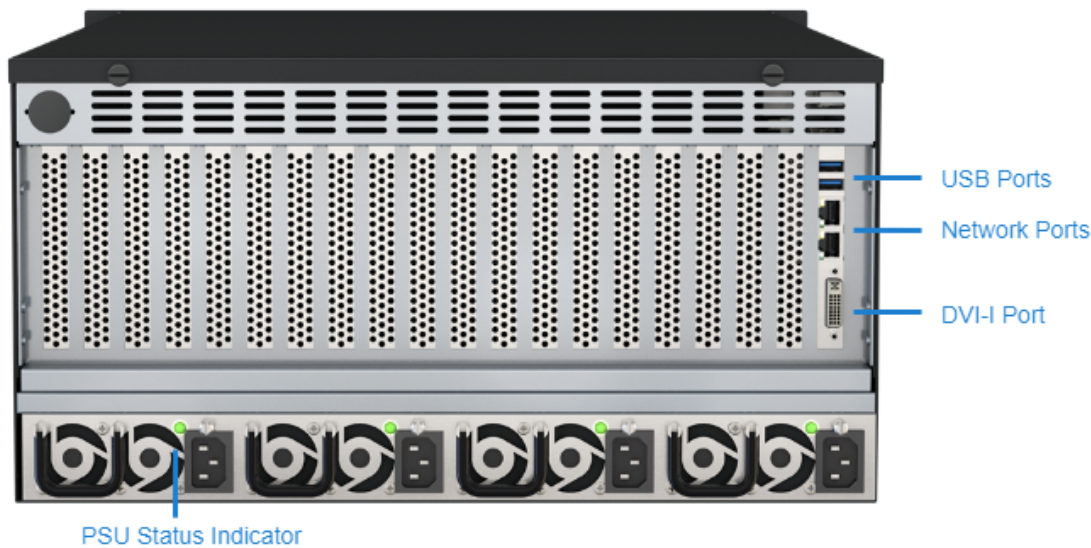
Front



The following LED indicators are located on the front of the unit:

LED Indicator	Description
PWR	The PWR indicator lights solid green when the system is on.
HDD	The HDD indicator blinks red during disk activity.

Back



The following LED indicator is located on the back of the unit:

LED Indicator	Description
Power supply	The power supply indicators light when an AC power cord is plugged into the unit and connected to a power source.

WEEE Compliance

Waste Electrical and Electronic Equipment (WEEE) Disposal



In accordance with the European Union (EU) WEEE Directive, Haivision products that fall within the scope of the WEEE, are labeled with the above symbol, and customers are encouraged to responsibly recycle their equipment at the time of disposal. Haivision also offers its customers the option of returning Haivision equipment to facilitate its environmentally sound disposal.



For more information, please visit our website at: <https://www.haivision.com/environment>.

Obtaining Documentation

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General Support	North America (Toll-Free) 1 (877) 224-5445 International 1 (514) 334-5445 <i>and choose from the following:</i> Sales - 1, Cloud Services - 3, Support - 4
Managed Services	U.S. and International 1 (512) 220-3463
Fax	1 (514) 334-0088
Support Portal	https://support.haivision.com
Product Information	info@haivision.com