

# V16X™

Synchronized Show Controller



## SHOW CONTROL

As our top-of-the-line show controller, the V16X is uniquely suited to the complicated control needs and ease-of-maintenance demanded by themed attractions.

### FEATURES:

- ▶ Purpose-Built Embedded Design
- ▶ Seamless Control of Hundreds of Devices
- ▶ Precise Clock Sync via PTP, NTP, or GPS
- ▶ GenLock Input/Output
- ▶ SMPTE Timecode Generator/Reader
- ▶ 4 Ethernet Ports
- ▶ 16 Inputs/16 Outputs/16 Serial
- ▶ Integrated DMX Control
- ▶ 4.3" TFT Status Display

### APPLICATIONS:

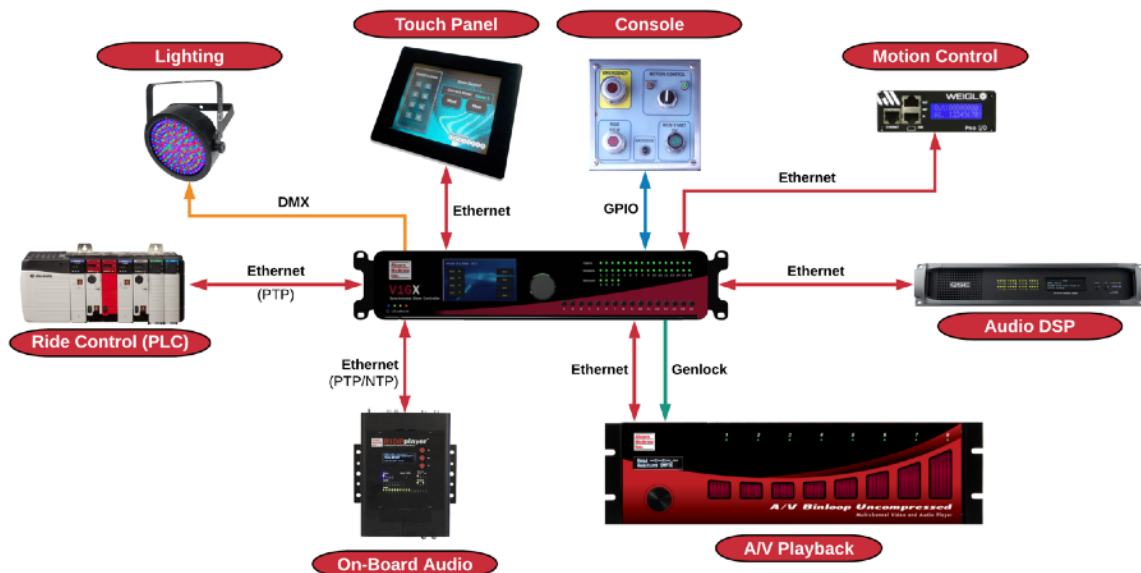
- ▶ Dark Rides
- ▶ Parades
- ▶ Area Development
- ▶ 3D/4D Theaters
- ▶ Museum Exhibits
- ▶ Brand Experiences

We believe that attraction designers should spend more time focusing on their vision than worrying about how to make it work. That's why we designed the V16X to use a script-like approach that makes it easy to translate creativity into functional control. It's purpose-built solid-state design ensures that the creative intent is delivered consistently throughout the life of the attraction.

This cutting-edge product features all of the interfaces commonly used within attraction systems including multiple Ethernet ports, serial, DMX, SMPTE timecode, digital IO, GPS, and a built-in LCD display. This allows the V16X to serve as the heart of the attraction and bridge the gap between functionality and guest experience!

The V16X incorporates our new SyncCore technology, which keeps perfect time using industry-standard methods like PTP, NTP, GPS, SMPTE timecode, and GenLock. This new technology makes this show controller the perfect device to coordinate perfect synchronization between ride control, audio, video, lighting, special effects, and all of the other entertainment systems that must work in unison to ensure top-notch show quality.

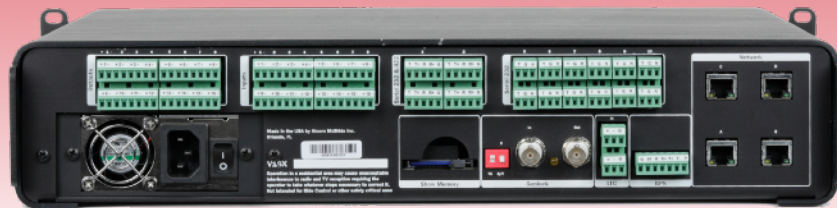
The V16X is not a computer. Its purpose-built design means it is capable of running your attraction with perfect consistency and absolutely no maintenance throughout the life of the attraction. With products like this, it's easy to understand why the best attractions in the world have been relying on Alcorn McBride to run their show every day for the past 30 years.



**Alcorn  
McBride  
Inc.**

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### PRODUCT SPECIFICATIONS

#### Control

<b>Show Control</b>	Advanced Scripted Control Timeline Programming ShowTouch Touch Panel Integration Intuitive Device Control (PLC, DSP, Animation, AV, etc.)
<b>Display</b>	4.3" TFT LCD
<b>LED Indicators</b>	Power, LTC, Sync, Live Mode, Ethernet, Inputs, Outputs
<b>Ethernet</b>	4 x 100/1000 BaseT Ethernet ports (RJ45) Isolated Networks - No internal switch/bridge Device Control Programming
<b>Serial</b>	4 x RS232/RS422 (5-pin Phoenix) 12 x RS232 (3-pin Phoenix)
<b>DMX</b>	1 x DMX512 Output (5-pin Phoenix - Port 1)
<b>Digital Inputs</b>	16 x Contact/Voltage Inputs (4 x 8-pin Phoenix) Software Configurable for Voltage (5-24VDC) or Contact Closure
<b>Relay Outputs</b>	16 x N.O. Dry-Contact Relay Outputs (4 x 8-pin Phoenix) Self-restoring Polymer Fuses (900mA)
<b>Show Memory</b>	Removable SD Card /w Captive Socket

#### Synchronization

<b>Sync Inputs</b>	PTP In - IEEE1588/CIP-Sync (RJ45 - Network A or B) NTP In - (RJ45 - Network A or B) GPS In - (7-pin Phoenix) SMPTE LTC In (3-pin Phoenix) Genlock In - Blackburst, C-Sync, Tri-level (BNC)
<b>Sync Outputs</b>	PTP Out - IEEE1588/CIP-Sync (RJ45 - Network A or B) NTP Out (RJ45 - Network A or B) SMPTE LTC Out (3-pin Phoenix) Genlock Out - C-Sync (BNC)
<b>Frame Rates</b>	23.976, 24, 25, 29.97, 30, 47.952, 48, 50, 59.94, 60
<b>GPS Type</b>	NMEA-0183 /w PPS Clock Input
<b>Clock Accuracy</b>	PTP - <1uS /w <1ppB Free-run accuracy NTP - <1mS /w <10ppB Free-run accuracy GPS - <1uS /w <1ppB Free-run accuracy

#### Physical

<b>Power</b>	V16X - 110-240VAC (50W Max) V16X-DC - 18-36VDC (3A Max)
<b>Dimensions</b>	19"W x 14"D x 3.5"H (483mm x 356mm x 89mm)
<b>Weight</b>	14lbs (6.4kg)
<b>Environment</b>	0°C (32°F) to 38°C (100°F) 0-90% Relative Humidity
<b>Mounting</b>	2U 19" Rack-Mount
<b>Compliance</b>	UL, CE, CB, WEEE, RoHS

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