IO64
Intelligent Input/Output Expander

The Alcorn McBride IO64 Input/Output Expander is a versatile, economical solution to your discrete input and output needs. It is also well suited to the stand alone control of small shows.

Offering 32 optically isolated inputs and 32 contact-closure outputs, this device is an ideal interface for many show control applications, including illuminated pushbuttons, limit/overtravel switches, lights, theatre doors, water valves, actuators and pneumatics. Rear mounted plug-on screw terminal strips make field interconnection fast and reliable.

The IO64 serves as an ideal expansion interface to give the Alcorn McBride family of show control products (or any computer equipped with an RS-232 port) enhanced I/O capability. It converts RS-232 serial messages to contact-closure outputs while simultaneously translating voltage inputs into RS-232 messages. Complex patterns of output closures can be pre-loaded into the IO64, and then run automatically upon powerup, or triggered remotely from any computer or show controller.

But the IO64 can do much more than simple translation. It also includes one user-programmable RS-232 port to control all major brands of Laserdisc players, or other serial devices. The IO64 can be programmed to respond intelligently to various input combinations, controlling its serial port and relay outputs independently of any other piece of equipment. In this mode of operation, the IO64 can control a complex show entirely by itself. A single IO64 may be all the show control you ever need.

- Expanded I/O or Stand Alone
- 32 Opto Inputs, 32 Relay Outputs
- Laser Disc Control Port
- Pioneer, Sony & Other Protocols
- 256 Multi-Tasking Sequences
- RS-232 and MIDI Interfaces

Alcorn McBride Inc.

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The Mission Status Center at Space Center Houston uses an Alcorn McBride V16 and I/O Expanders to interface to over 250 controls.

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IO64 SPECIFICATIONS

Size: Standard 1U rack mount (1.75" x 19" x 5")

Weight: 42 ounces

Power: 115/220 VAC, 50/60 Hz, 20 W maximum
UL listed Class 2 power adapter included with every unit

Environmental: 0 to 35 C (32 to 100 F)
0 to 90% relative humidity, non-condensing
Free air circulation

Front Panel: LED indicators for system power, status of 32 inputs, and status of 32 outputs.

Rear Panel: Power jack (female 5-pin DIN)
Programming port (male DB-9)
Remote port (male DB-9)
Input connections (4 male 16-pin Phoenix)
Output connections (4 male 16-pin Phoenix)
MIDI input (female 5-pin DIN)

Voltage Inputs: 24 VDC, 20 mA maximum
Reconfigurable for voltages down to 5 VDC

Relay Outputs: Contact closures limited internally to 0.9 A with self-restoring polymer fuses.

Show Memory: 8 KByte EEPROM, expandable to 24 KBytes.
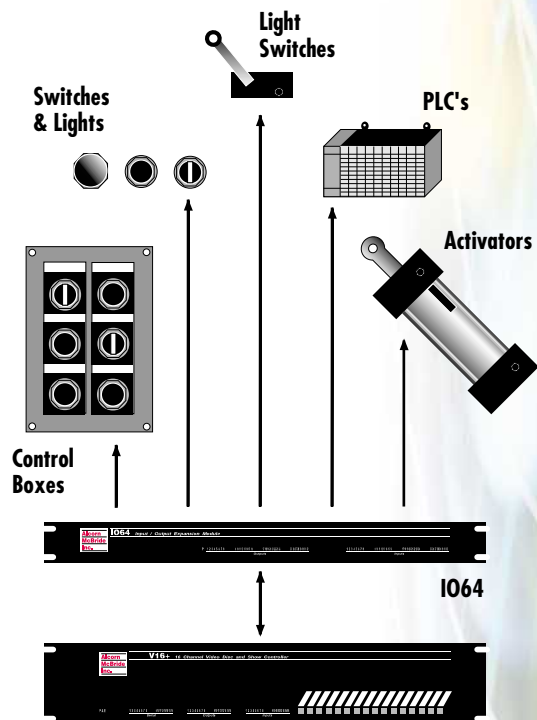Nonvolatile, robust memory retains show data permanently with no battery backup required.

Show Capacity: 256 simultaneous sequences.

Programming: Standard RS232-C serial connection

Documentation: Owner's Manual
Application Notes
Sample scripts on diskette

Specifications subject to change without notice

Applications:

I/O Expansion
Show Control
Games

Switches & Lights
Light Switches
PLC's
Activators
Control Boxes
IO64

Alcorn McBride Show Controller or Computer (Optional)

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