

PDP-HDSDI Expansion Card



for Pioneer Professional Plasma Displays

User's Guide

**Alcorn
McBride
Inc.**

Every effort has been made to assure the accuracy of the information contained in this manual, and the reliability of the Alcorn McBride PDP-HDSDI Expansion Card hardware and software. Errors can sometimes go undetected, however. If you find one, please bring it to our attention so that we can correct it for others. Alcorn McBride welcomes comments and suggestions on the content and layout of its documentation.

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This publication was created using Microsoft Word 2000 for Windows XP, Version 9.0.4119 SR-1. Camera-ready art and illustrations were produced using Corel DRAW Version 8.0

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Document Number 110-101016.00 Rev B

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Welcome!

Thank you for purchasing the Alcorn McBride PDP-HDSDI Expansion Card™. The PDP-HDSDI is an expansion card for Pioneer's 4th generation line of professional plasma displays. It adds industry-standard SMPTE-292M or SMPTE-259M serial digital video input capability to your Pioneer Professional Plasma Display.

The PDP-HDSDI allows you to connect your Pioneer plasma display directly to professional quality broadcast equipment or any other device with serial digital video capability. (It's the perfect companion for your Alcorn McBride DVM/HD-Pro.)

The Alcorn McBride PDP-HDSDI card eliminates bulky, expensive, short-run DVI or HDMI cables and provides the optimum input for your plasma display.

Features

The PDP-HDSDI Expansion Card offers a wide range of features including:

- Compatibility with all Pioneer 4th Generation Professional Plasma Displays
- SMPTE-292M (HD-SDI) or SMPTE-259M (SD-SDI) Digital Video Input
- Buffered and re-clocked SMPTE-292M output.
- Analog Component or RGBHV input on DB15 connector.
- Status and Power LEDs

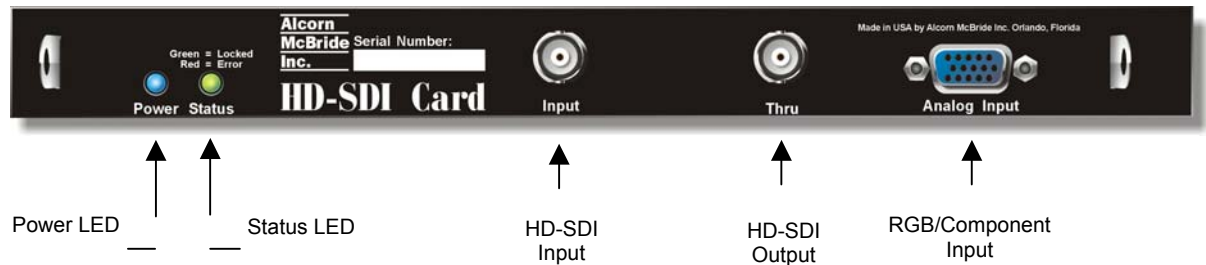
Technical Support

You can obtain information about specifying, installing, configuring, updating and programming your Alcorn McBride PDP-HDSDI Expansion Card from several sources:

For...	Contact...	When?...
Telephone Support	(407) 296-5800	M-F 9am-6pm (EST)
Fax Support	(407) 296-5801	M-F 9am-6pm (EST)
e-mail Support	support@alcorn.com	Any Time

Front Panel

The PDP-HDSDI Front Panel contains two LEDs, two BNC connectors, and one HD15 multi-pin 'D' connector.



Power LED

A Blue LED indicates that the power regulation circuitry on the card is functioning normally. It should be on anytime the Plasma display power is turned on.

Status LED

A dual-color status LED provides an indication of HD-SDI signal lock or error condition as shown below:

LED Behavior	LED Meaning
Steady green	Locked – no errors
Steady red	Signal Present – but not locked or data errors
Off	No Signal Present

HD-SDI Input

To enable this input, select Input 4 on the PDP.

The BNC connector labeled “Input” is the HD-SDI Input. This connector accepts a standard SMPTE-292M or SMPTE-259M serial digital video input signal and has a nominal 75-ohm input impedance.

HD-SDI Output

Important: This output will only be active when the PDP-HDSDI card is locked to a valid SMPTE-292M OR SMPTE-259M input signal.

The BNC connector labeled “Output” sources a re-clocked and buffered version of the HD-SDI Input signal. This can be used to daisy chain to other PDP-HDSDI cards in other Plasma displays for a multi-display installation, or connect to any other serial digital video input device.

Analog Input

To enable this input, select Input 3 on the PDP.

This HD15 connector is used to input a standard RGB or YPbPr analog signal to the display.

Installation

Be sure to ground yourself to the metal chassis of the PDP display before handling the PDP-HDSDI to discharge any static electricity.

To install the PDP-HDSDI Expansion Card into the Pioneer PDP, first make sure that the PDP display is unplugged.

Remove the two screws on the blank plate covering the expansion slot and remove the plate. Save the screws.

Carefully slide in the PDP-HDSDI Expansion Card into the slot and snap into place. There are two small handles on either side of the front panel that you can use to secure the card into place.

Reinstall the two screws to secure the Expansion Card.

Operation

Once you've installed your PDP-HDSDI card, apply power to the PDP display. Using the on-screen menu system, go through the following selections to enable the HD-SDI input:

- 1) Apply power to the PDP. Verify that the Blue power LED on the PDP-HDSDI card is active.
- 2) Input a valid SMPTE-292M OR SMPTE 259M signal to the PDP-HDSDI input BNC connector.
- 3) Verify that the Status LED is Green. If it is not Green, check the source to verify that it is outputting a valid SMPTE-292M signal.
- 4) Using the PDP remote control, select Input 4.

If you want to select the Analog Input, select Input 3.

Specifications

Inputs

Digital Video: SMPTE-292M OR SMPTE-259M (BNC connector)

Analog Video: RGBHV/YPbPr component (HDB-15) Tri-level or Bi-Level sync

Outputs

Buffered & Re-clocked SMPTE-292M SMPTE-259M through (BNC connector)

Indicators

Blue Power LED

Bi-Color SDI Locked/Error LED