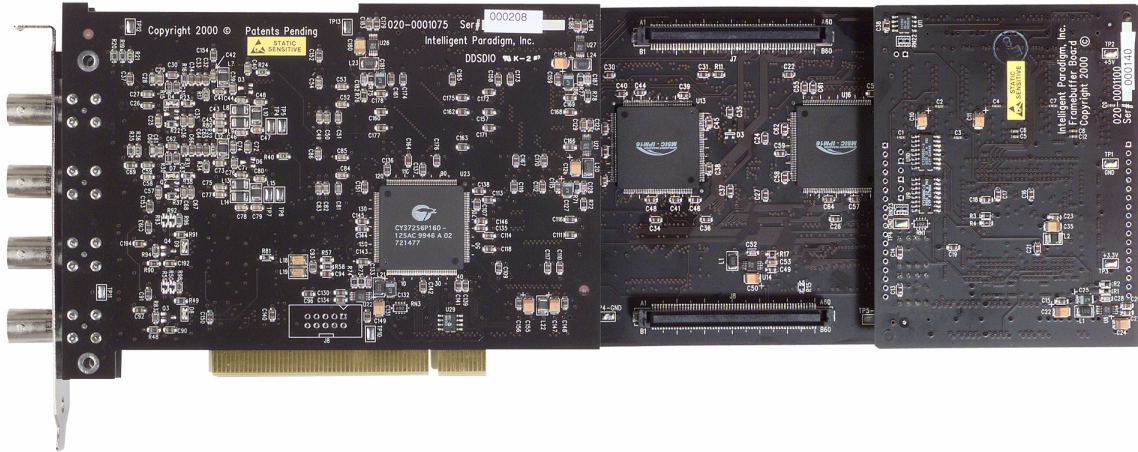**INTELLIGENT PARADIGM**

VIDEO EXPLORER 2 ™

Video Explorer™ 2
Frame Buffer & Processing Board

Features

- **Supported scan rates:**
  - PAL, NTSC, and HDTV (with appropriate I/O)

- **Genlock for synchronizing to input or reference signals**

- **Real-time systolic video processing**

- **Variable pixel clock up to 80 MHz**

- **Multi-frame framebuffer**

- **Swappable I/O Daughterboards**
  - Analog I/O
  - Serial Digital I/O
  - HD I/O (future)

- **Multiple Color Spaces:**
  - Component (RGB, YIQ, YUV, Ycc, Y/C)

- **Wide range of digital video effects powered by Intelligent Paradigm's patented MSIC™ technology. Effects include, but are not limited to:**
  - Fades   – Keys
  - Wipes   – Embossing
  - Blends   – Filtering

- **Pixel Aspect Ratio**
  - Variable (including ITU-601 and square pixel)

- **Cascadable for increased processing power**

- **QuickTime® compatible on systems supporting QuickTime**

Device Description

The Video Explorer 2 board is an advanced video-processing card for Mac OS, Windows NT, and Linux platforms. The board is designed with Intelligent Paradigm's custom processing chips, which allow a wide range of high quality video processing.

Support for a number of video formats, resolutions and data word sizes as well as timing, makes the Video Explorer 2 a flexible tool for today's video graphics professional.

The Intelligent Paradigm Video Explorer 2 product traces its roots in the Video Explorer (from Intelligent Resources) which established itself as the de-facto standard for high-end digital video production. The Video Explorer 2 is designed for exceptional performance. For professionals on the critical path, upgrading to the Video Explorer 2 is not a luxury, but a necessity.

INTELLIGENT PARADIGM

10050 N. Wolfe Road, SW2-152 • Cupertino, CA U.S.A. 95014-2528 • Tel: 408-725-3810 • Fax: 408-725-3819
www.IntelligentParadigm.com

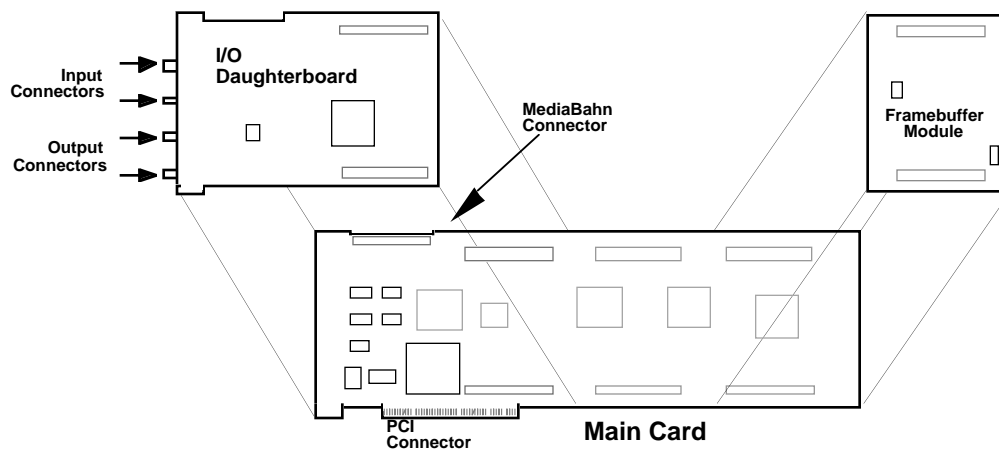# Video Explorer™ 2 Frame Buffer & Processing Board

EXPLORER 2

Overview

Video Explorer 2 is a high quality digital video engine which works with a variety of applications to support functions such as special effects generation, frame capture, character generation, image editing, animation, multimedia, and 2D or 3D modeling and rendering. The Video Explorer 2 is easily integrated into professional-level video systems to produce broadcast-quality video. The Video Explorer 2 is the ideal video card for graphics professionals who demand the highest video quality for their creations. It is also an ideal candidate for system designers looking for high quality I/O.

The Video Explorer 2 can perform a wide variety of video effects such as blends, fades, wipes, and dissolves in real time. The Video Explorer 2 can digitally combine live video sources, computer graphics, and computer animation in real time. For increased functionality, use the MediaBahn™ intercard interface to connect multiple Video Explorer 2's or to connect Video Explorer 2 to third party cards with MediaBahn interfaces.

General Specifications

Interface:	PCI 2.1 Compliant 5V/32 bit
Card Dimensions:	12.7" x 3.9"
On Board Memory:	32MB SDRAM
Video Ports:	2 Component Digital Inputs 2 Component Digital Outputs All Terminated to 75 Ω ± 1%
Video I/O Standards:	SMPTE 259M (270 Mbits/Sec)
Video I/O Types:	SMPTE 259M - CCIR 601

I/O Resolutions:

NTSC	720 x 486 (CCIR 601/525)
PAL	720 x 576 (CCIR 601/625)

Board Configuration

Ordering Information

Component	Part No.	Shipping
Base Card	BC	2nd Qtr. 2000
Input/Output Interfaces		
Serial Digital	DDSDIO	2nd Qtr. 2000
HDTV	HD	3rd Qtr. 2000
Analog	AIOD	3rd Qtr. 2000

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