Product sheet
Art #:350
DIGITAL PROJECTION
TITAN Super Quad
20000 lumens, WUXGA three-chip DLP projector

Technical Information
20,000 ANSI Lumens (+/- 10%) | Contrast Ratio: 2,000:1
Colour System:
3-chip DLP®
Display Type:
3 x 0.95" DarkChip™ DMD™
DMD specification:
1920 x 1080 pixels native, +/- 12° tilt angle
Fast transit pixels for smooth greyscale and improved contrast.
Aspect Ratio: 16:9
Fill Factor 87%

Key Features
Standard Inputs (1-8):
Front End Video Capabilities

Video & Graphics Processing
•High bandwidth digital & analog receiver with 10 bit A-D.
•Automatic detection of interlaced video and implementation of 3:2 or 2:2 extraction as appropriate, with pixel based, motion adaptive interpolation and auto cadence correction.
•Displayed image frame locked to input with as low as 1 frame total latency.
•24p and 1080p native display.
•Image enhancement for MPEG, Mosquito noise & color transients in composite sources.

Geometry Correction
•Cornerstone, Vertical & Horizontal Keystone, Pincushion & Barrel, and Image Rotation.
•Non-linear Warp adjustment by moving points on an interpolated grid.

Edge Blending
•Semi-automated multi projector tiling
•Correction for non-active pixels at the edge of the display.

Super Image Clarity
•Geometry correction and Edge Blending implemented in single stage process, retaining maximum image resolution.

Picture in Picture
•Two sources can be displayed either one within the other (PIP), or side by side, with original aspect ratios maintained.

ColorMax™
•Accurate matching of projectors in tiled or lended applications.
•User selection and storage of primary and secondary color targets.

High Bandwidth Inputs (9-11):
Bypassing Front End for Minimal Latency
•Pixel mapped to the display.
•Dual Link DVI accepts frame rates up to 160Hz with latency as low as 1 frame.
•HDMI 1.4 for Side by Side, Frame Packing & Top Bottom formats.
•Dual Flash Processing can be used to multiply the displayed frame rate for 3D sources (example 144Hz display).
•FastFrame™ Smear Reduction.
•Dual Pipe processing: two sources in parallel for left and right eyes.
•Synchronisation of active glasses or polarising switcher.

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Technical Information

Projector Controller Software
•Intuitive user interface for network control
•Simultaneous control of user-defined groups of projectors
•At-a-glance monitoring of projector status

*Source Compat*ibility:
3GSDI is SMPTE 292M, SMPTE 259M-C and SMPTE 424M compliant.
HDMI and DVI include Deep Color™ processing up to 36 bit.
DVI inputs are HDMI compatible.
Digital Audio Extraction via SPDIF for HDMI sources.
Graphics standards up to 1920 x 1200 at 60Hz via DVI or VGA.
Component Video (SD and HD) via YPrPb, RGB or RGBS.
S-Video (PAL, NTSC & SECAM)
Composite Video (PAL, NTSC & SECAM)

High Bandwidth, Pixel Mapped Path:
Dual DVI accepts graphics standards up to 1920 x 1200 at 120Hz.
HDMI 1.4 including 3D Standards
Dual Pipe (2 x DVI)

Inputs/Outputs:
Video & Computer
DVI-D / DVI-A
HDMI 1.3
3G-SDI
VGA / Analog RGB
Component Video
S-Video
Composite Video

High Bandwidth Ports
Main - Dual Link DVI-D
Sub - HDMI 1.4

Audio
SPDIF Digital Output

Communication & Control
3D Sync Out
3D Sync In
LAN
RS232
Wired Remote In
Wired Remote Out
Update Port
Service Port

3D Formats Supported
Frame Packing
Dual Pipe
Frame Sequential
Side By Side (half)
Top and Bottom

HDTV Formats Supported
1080p (23.98Hz, 24Hz, 25Hz, 29.97Hz, 30Hz, 50Hz, 59.94Hz, 60Hz), 1080i (50Hz, 59.94Hz, 60Hz), 1080sf (23.98Hz, 24Hz), 720p (50Hz, 59.94Hz, 60Hz)

Computer Compatibility
Up to 1920 x 1200

Bandwidth
170 MHz on analog RGB
165 Megapixels per second on HDMI and DVI
297 Megapixels per second on Dual Link DVI

Remote Control
Addressable IR remote control, wireless and wired with loop-through.
On-Board invertable keypad

Automation Control
RS232
LAN

Colour Temperature
User selectable from 3200 to 9000K

Lamp Type
4 x 465W High Intensity Discharge
Typical Lamp Life
Full Power: 1500 hours (up to 6000 hours in lamp sequential mode)
Eco Mode : 2000 hours (up to 8000 hours in lamp sequential mode)

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