BLACKlite 6000

Super High Contrast

3,500 ANSI Lumens
1200:1 on off contrast

1280 x 1024 pixels



BLACKlite 6000

Digital Cinema Technology...

Digital Projection is once again revolutionising the large screen projector market. In introducing the range of BLACKlite Displays it has integrated the technology only previously available for Digital Cinema to large screen projectors. This combines exceptional imaging capabilities with truly operational simplicity in a lightweight compact chassis.

Perfectly suited for cinema, home theatre, post-production, simulations, digital visualisation, command and control, and broadcast environments. No other light valve technology approaches the visual beauty and operational simplicity of a Digital Projection BLACKlite Display.

The BLACKlite range offers light output levels from 3000 to 7000 ANSI Lumens with cinema standard contrast level in a compact portable projector. This outstanding capability brings for the first time cinema quality images to any environment.

This Lumens and contrast capability is complemented by a palette of more than 1 billion colours, absolute greyscale tracking and luminance uniformity greater than 80%. The on-screen results are stunning video images, HDTV and computer projection with a real 'FILMLOOK' quality, drawing the viewer in with the beauty of the pictures. These light portable projectors bring cinema quality images to any environment.

Drawing expert technology together...

The miracle of the Dark Metal DMD by Texas Instruments combined with the technical expertise of Digital Projection brings the first 1200:1 contrast portable projector to the market.

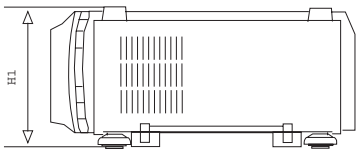
The BLACKlite Display utilizes the latest innovations from Texas Instruments with the development of the Dark Metal process in a Thunder Light engine to significantly enhance the contrast performance. This combined with the optical capabilities of Digital Projection takes the contrast performance beyond any product previously seen in this sector.

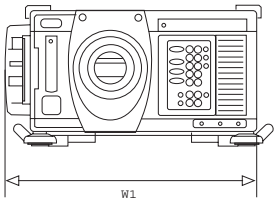
The BLACKlite 6000 incorporates a unique motion adaptive interpolation, video and film originated images are optimised and recreated in their truest form. Sampling of computer images is carried out with resizing, where necessary, allowing complete flexibility in displaying the widest range of computer input standards.

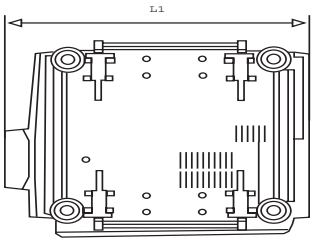
The BLACKlite 6000 delivers these outstanding performance benefits:

- 1200:1 Super High Contrast on to off produces deep blacks and rich detail.
- 3500 ANSI Lumens, bright enough for any application.
- Greater than 80% luminance uniformity for consistent imagery with no hot-spots.
- High native resolution of 1280 x 1024 for exceptional on-screen detail.
- 1600 x 1200 source compatibility.
- State-of-the-art composite video decoding technology.
- Advanced signal processing and image resizing.
- Solid state digital stability and factory preset convergence for fast and simple alignment.
- Motorised lens mount with horizontal and vertical shift for rapid set-up and easy stacking/ installation.
- Dynamic HDTV compatibility including 1080i, 720p and 480p for advanced standards display.
- Integrated light shutter.
- The BLACKlite 6000 is supplied with DVI (Digital Video Interface).
- Multilingual on-screen display.
- Keystone correction ±7.5º.
- This new BLACKlite model introduces the Texas Instruments Dark Metal DMD which doubles the contrast performance by minimising unwanted light from the DMD surface behind the micromirror.

DIGITAL PROJECTION







Projector dimensions (mm)

L1 682 H1 308 W1 575

BLACKlite 6000

BLACKlite 6000 | **3,500 ANSI Lumens** | **1280 x 1024 pixels** | **1200:1 contrast**

Technical Specification

Brightness
3,500 (±10%) ANSI Lumens

Brightness Linearity
80% edge to centre (±10%)

Colour Temperature
Adjustable

Contrast Ratio
1200:1 Full Field (±10%)

Display Type
3 x DMD (one per R, G & B)

DMD Specification
1280 x 1024 pixel
13µm x 13µm pixel size
13.8µm x 13.8µm pixel pitch
17.7mm x 14.1mm DMD size

Fill Factor
90% pixel fill factor

Source Compatibility
NTSC, PAL, SECAM, HDTV (1080i, 1035i, 720p, 480p), VGA, SVGA, XGA, SXGA, UXGA, MAC, DFP & DVI, (24p & 24sf)

Inputs
RGBH(HV)V, YCr/Pr, Cb/Pb (2) BNC
RGBH(HV)V (1) D-sub 15 pin
YPbPr/YCbCr (1) RCA
Composite Video (1) BNC
(1) RCA
S-Video (1) Mini DIN
Y/C (1) BNC

Digital I/O
RGB Digital (1) DVI-D 24 pin (Max resolution: SXGA) (1)
Process out 24 pin
Serial Digital Option Input SMPTE 259M Level C, 4:2:2 525/625
Component (1) BNC loop through (1) BNC
OR SMPTE 292M, 4:2:2
Component (1) BNC

PC Card
PCMCIA data back-up & software version upgrade

Video Processing
ASIC automatic resizing

Sync Formats
Separate Sync/Composite Sync/Sync on Green

Remote Control
Addressable remote control (wired/wireless)

Automation
Control In
RS232 9-pin (1) D-sub

Control Out
RS232 9-pin (1) D-sub for stacking
Contact Closure (1) 15-pin D-sub

Fan Noise
52dB

Operating Temperature
10 - 35C

Lamp Type
1.25kW Bubble, Short Arc Xenon

Mounting
Ceiling Mount Kit (Optional)

Motorised Lens Mount
Horizontal & Vertical Lens Shift, Motorised Zoom & Focus accessed via remote control/ rear control panel

Lens Options
1.5 - 2.5:1 Power Zoom/Focus
2.5 - 4.0:1 Power Zoom/Focus

Physical Dimensions
308mm (12.2") height
575mm (22.6") width
682mm (26.9") length

Weight
(Chassis only) 43 kg (95 lbs)

Power Requirements
100-120VAC 50/ 60Hz 1400W
200-240VAC 50/60Hz 1700W*
*High bright mode

Input Current
8.5A (200-240V) 12A (100-120V)

Design flexibility in, complexity out...

To allow maximum flexibility, whatever the application, Digital Projection developed a Motorised Lens Mount, capable of providing extensive vertical and horizontal lens shift. When combined with our broad and flexible range of lens options and system accessories, BLACKlite 6000 can be mechanically integrated into virtually any application.

Design simplicity is underlined by the remarkable alignment stability of BLACKlite Displays. Factory preset convergence, exacting and stable colour reproduction, digitally accurate image uniformity and user friendly on-screen menus ensure simple and confident setup and minimal maintenance, for even the most challenging large-screen applications.

Seeing is Believing...

Specifications and descriptions, however, cannot tell the full story. The only way to appreciate the marvellous image quality of a BLACKlite Display is to see one in action.

The only way to appreciate its flexibility, stability and ease of use is to experience one performing in your application.

Talk to us about your display requirements. By providing a combination of stunning imagery, installation flexibility and the highest levels of customer service, Digital Projection puts the power in your hands.

DIGITAL PROJECTION

DLP™ A TEXAS INSTRUMENTS TECHNOLOGY

MILLENNIUM PRODUCTS

1998 Emmy Award Outstanding Achievement in Engineering Development

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