



BLACKlite 4000

Super High Contrast

3,000 ANSI Lumens
1200:1 on off contrast

1280 x 1024 pixels



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.

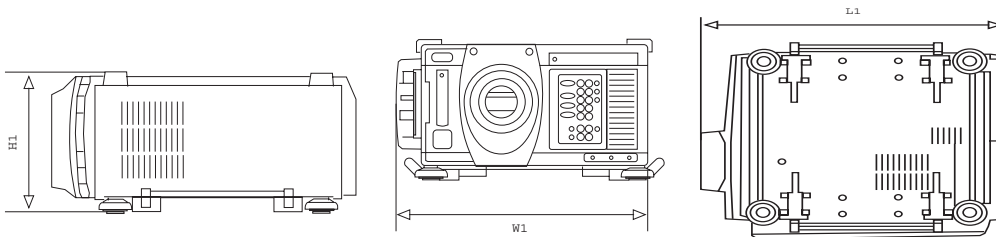
The BLACKlite 4000 incorporates a unique motion adaptive interpolation, video and film originated images are optimised and recreated in their truest form. Sampling of

computer images is carried out with resizing, where necessary, allowing complete flexibility in displaying the widest range of computer input standards.

The BLACKlite 4000 delivers these outstanding performance benefits:

- 1200:1 Super High Contrast on to off produces deep blacks and rich detail.
- 3000 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 4000 is also available with DVI (Digital Video Interface), optional.
- Multilingual on-screen display.
- Keystone correction $\pm 7.5^\circ$.
- 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.

BLACKlite 4000



Projector dimensions (mm)

L1 682 H1 308 W1 575

BLACKlite 4000

3,000 ANSI Lumens

1280 x 1024 pixels

1200:1 contrast

Technical Specification

Brightness

3,000 ($\pm 10\%$) ANSI Lumens

Brightness Linearity

80% edge to centre ($\pm 10\%$)

Colour Temperature

Adjustable

Contrast Ratio

1200:1 Full Field ($\pm 10\%$)

Display Type

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

DMD Specification

1280 x 1024 pixel

13 μ m x 13 μ m pixel size

13.8 μ m x 13.8 μ m 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 (Optional)

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

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 4000 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



Digital Projection Ltd.
Greenside Way, Middleton
Manchester UK
M24 1XX

T. +44 (0) 161 947 3300

F. +44 (0) 161 684 7674

E. enquiries@digitalprojection.co.uk

W. www.digitalprojection.co.uk

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