



PRELIMINARY

D-CINE DP40

Barco Digital Cinema Projector

Incorporating Texas Instruments state-of-the-art 'Dark Chip' Digital Micromirror device™ - exclusively approved by Hollywood for feature film display-the D-Cine DP40 combines the superb quality of the reference Kinoton DSP 10 lamphouse with Barco's world leading optical expertise to provide a Digital Cinema projector of truly exceptional performance. Enjoy stunning 'Premier' quality film-like images delivered to your cinema without jitter, weave, scratches, flicker or "shutter ghosting". First time, every time...

The highly integrated Barco DP40 combines the benefits of convenient and flexible lamp-house installation with the exceptional performance of D-Cine, the world's most advanced Digital Cinema projector head

D-Cine Digital Head

- 3 high contrast, liquid cooled Digital Micromirror Devices(tm)
- Twin anamorphic lens design for fast changeover between 1.85 and 2.39 format displays
- Dust proof design for consistently clean, high contrast images
- 24p frame per second display

Kinoton Lamphouse

- Modular construction for convenient installation and the most stable picture display.
- 8u high 19" rack for control panel and ACSAR alternative content input switcher
- Supplied with push button control panel and LED status indication as standard
- Sturdy, space saving design



BARCO

innovators in image processing

Specifications D-Cine DP40

Digital Micromirror Device™

3 x high resolution S-XGA
DLP Cinema™ DMDs

Cooling

Integrated 3 chip liquid cooling
system and heat exchanger

Resolution

1280 x 1024 per Red, Green and
Blue channels - equivalent to 3.9
million pixels

Light Output

Meet and exceeds SMPTE
standards up to 12fL
(equivalent to 16fL open
gate in a film projector)
Uniformity: within 90% over
the entire screen area

Contrast Ratio

1000:1 (full white / full black)

Color Processing

- Bit depth: 42 bit
- Color Shades: 4.4 trillion
- Color Gamut: 40% better than
HDTV

Time Code Input

LTC. Required for 60 Hz HD

Graphics Input

DFP (Digital Flat Panel) interface,
24 bit RGB, 1280 x 1024, 50 and 60
Hz mode only.
Optional:
Digital, analogue,
video and graphics sources can be
displayed via the ACSAR
alternative content router and
switcher.

Control Interface

RS232 (DB9 connector) for RC567
D-Cine controller and PC set-up
software.

Prime Lenses

All focal lengths covered by a
wide range of fixed focal length
and zoom lenses.
Prime lens shift range: 50%
horizontal plus vertical.

Anamorphic Lenses

Optional 1.5 (flat) and 1.9 (scope)
lenses

Masking

Electronic masking left, right, top
and bottom. Independent left and
right keystone correction.
Correction of keystone distortion
in up to 15% down angle

Tilt Angle

10° down and 5° up

Illumination

Optional 2 kW, 3 kW, 5 kW and
7 kW standard xenon arc lamp
depending on screen size
Optional 3 kW xenon short arc
lamp

Reflector

Standard f2.0 dichroic glass type
(340 mm)

Base

Incorporating
8u available 19" rack space
2 floor fixing rails

Power Supply

US Version
Kinoton Lamphouse: 3 Phase
208V+N / 60hz
Digital head, cooling pump and
touchscreen: Auto-ranging 80 -
240V
EUR version
Kinoton Lamphouse: 3 Phase
400V+N / 50hz
Digital head, cooling pump and
touchscreen: Auto-ranging 80 -
240V

Local control

- 4 x LED status indication: OK,
Touch Panel ready, Projector
Head ready and Projector Error
- 4 x push button control of
digital head modes
- 4 x user definable lamphouse
or automation controls
- 4 x general purpose relays

Options

19", wall or table mounting
Touch Screen Remote Control
ACSAR, 19" rack mount
alternative input content
formatter, switcher and router

Weight

Digital head and anamorphic lens
holder (without lenses):
33 Kg / 72.7 lb.
Lamphouse (without user
interface, ACSAR and water
cooling): 198 kg / 436.2 lb.

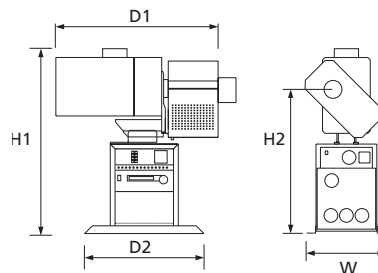
Order Reference

D-Cine Digital Head	R9006010
DP40 (3N400V LPS)	R9006070
DP40 (3x220V LPS)	R9006079
Cooling Pump	R9806120

Options:

Automation Card	R9806050
Local Touch Screen	R9806042
Remote Touch Screen	R9806040

Dimensions	mm	inch
D1	1360	53.5
D2	890	35
W	670	26.4
H1	1549	61
H2	1216	47.9



BARCO Projection
Systems is an ISO 9001
registered company.

The information and data given are typical for the
equipment described. However any individual item
is subject to change without any notice.

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