



## D-CINE DP70

### BARCO Digital Cinema™ Projector

Incorporating Texas Instruments State-of-the-Art 'Dark Metal' Digital Micromirror device - exclusively approved by Hollywood for feature film display - D-CINE now combines the compact, sturdy features of the Strong DPC digital projection console with Barco's world leading optical expertise to provide a Digital Cinema projector of truly exceptional performance.

Stunning 'Premier' quality film-like images without jitter, weave, scratches, flicker or "shutter ghosting". Images that are consistently bright, clear and even. First time, every time... Just as the Cinematographer intended.

#### Features

- Based on the Strong DPC 7000 lamp console; no need to make modification to the projection booth or port glass
- 24p frame per second display for a natural film look
- Meets or exceeds SMPTE screen brightness standards up to 15m / 50ft wide
- Integrated design for simple installation and the most reliable operation
- Dust proof construction to guarantee consistently clean, high contrast images
- Twin anamorphic lens attachment for fast changeover between 1.85 and 2.39 format displays
- Liquid cooled Digital MicroMirror Devices™
- Provided with local projector control and LED status indication
- Temperature alarm and auto shutdown protection
- Optional touch screen D-CINE control and automation interface



innovators in image processing

# Specifications D-CINE DP70

## Digital Micromirror Device™

3 x high resolution S-XGA  
DLP Cinema™ DMD

## 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

12fL up to 15m (50ft) wide (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

XLR. Required for 60 frame HD projection only

## Graphics Input

DFP (Digital Flat Panel) interface, 24 bit RGB, 1280 x 1024, 50 and 60 fps mode only.

Optional: Standard 50 / 60Hz video and graphics inputs can be displayed via the ACSAR alternative content router and switcher.

## Control Interface

DB9 connector. RS232 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: 25% of screen height in all directions.

## 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 or side angle



Unique, dust-proof digital head with twin anamorphic lens attachment

## Lamp Housing

Strong DPC 7000 lamp console

## Illumination

Optional 2kW, 3kW, 5kW, and 7kW Xenon Arc lamp depending on screen size

## Reflector

Standard f2.0 dichroic metal type

## Projector Inputs

There are two SMPTE 292M input ports, individually selectable, which support:

Source Standard	Source Format	Vertical Rate	Scan Type	Display Format
SMPTE 274M	1920 x 1080	60 Hz	Interlaced <sup>(1)</sup>	1280 x 1024; 24 Hz; Progressive
	1920 x 1080	59.94 Hz	Interlaced <sup>(1)</sup>	1280 x 1024; 24 Hz; Progressive
	1920 x 1080	24 Hz	Progressive	1280 x 1024; 24 Hz; Progressive
	1920 x 1080	23.98 Hz	Progressive	1280 x 1024; 24 Hz; Progressive
	1920 x 1080	24 Hz	Segmented Frame	1280 x 1024; 24 Hz; Progressive
	1920 x 1080	23.98 Hz	Segmented Frame	1280 x 1024; 24 Hz; Progressive
SMPTE 260M	1920 x 1035	60 Hz	Interlaced <sup>(1)</sup>	1280 x 1024; 24 Hz; Progressive
	1920 x 1035	59.94 Hz	Interlaced <sup>(1)</sup>	1280 x 1024; 24 Hz; Progressive
SMPTE 296M	1280 x 720	60 Hz	Progressive	1280 x 720; 60 Hz; Progressive <sup>(2)</sup>

Note 1: Requires source to be encoded with 3:2 Pull-Down

Note 2: Image centered vertically on DMD, non-anamorphic only

# Options

## Power Supply

### US Version

Lamp Power Supply: 3 Phase 208V+N / 60hz

Digital head, cooling pump and touchscreen: Auto-ranging 80 - 240V

Lamp console: 110V

### EUR version

Lamp Power Supply: 3 Phase 400V+N / 50hz

Digital head, cooling pump and touchscreen: Auto-ranging 80 - 240V

Lamp console: 220V

## 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 lamp house or automation controls
- 4 x general purpose relays

## Weight

Digital head and anamorphic lens holder (without lenses): 33 Kg / 72.7 lb.

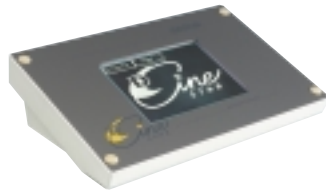
## D-CINE order Reference

D-CINE Projector	
DP60 (3N400V LPS)	R9006040
DP60 (3x220V LPS)	R9006049
D-CINE Digital Head	
F2.0	R9006010

## Touch Screen Remote Control

A convenient, easy to use wall or desk mount touch screen remote control that provides all of the operations of the D-CINE, ACSAR and CLO (Constant Light Output) control plus protection of the digital projection head.

One of the Barco RC567 control range available in several forms for configuration to suit almost any installation requirement.



- Compatible with the Barco D-CINE DP50, DP60 and DP70 Digital Cinema Projectors

## ACSAR

A powerful, yet simple to operate, scaler and router designed to convert any incoming signal to the DVI digital input of the D-CINE projection head.



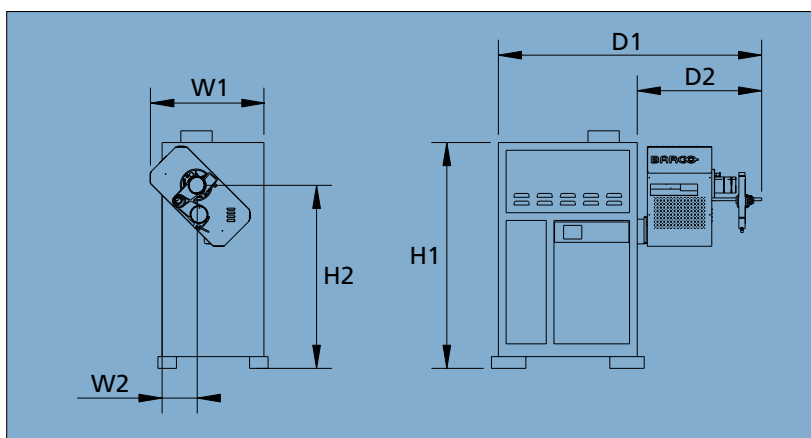
With ACSAR you can now take advantage of the full potential of Digital Cinema for the first time ...to screen any standard of digital advertising plus the wide range of 'alternative content' applications - live broadcast sports, news and current affairs, business presentations, HDTV and art-house movies.

- Quick and easy configuration - For the connection of any combination of fixed or temporary inputs .

- Advanced Barco pixel map processing (PMP) for the scaling and reformatting of any standard or HD video or PC input to the native resolution of the D-CINE digital head.

- Simple front panel or remote control via the D-CINE Touch Screen LCD panel or Barco RC5 infra-red controller.

Dimensions	mm	inch
W1	678	26.7
W2	326	12.8
H1	1575	62.0
H2	1128	44.4
D1	1653	65.1
D2	941	37.0



**Founded in 1934, BARCO is based in Kortrijk, Belgium, and leads in five major global markets as suppliers of Projection Systems for a wide range of professional applications; Communications Systems for the Broadcast industry; Graphics equipment for packaging and special printing requirements; High grade monitor displays used in television, medical and avionics applications; and in Broadcast network control and cable, satellite equipment.**

**The BARCO group has a network of subsidiaries, distributors and agents in 97 countries worldwide.**

**Barco Digital Cinema is a Business Unit of Barco Projection Systems, a registered ISO 9001 company, and world leader in developing and manufacturing large screen projection systems for Presentation, Rental and Staging, Control room, Simulation and Advertising displays in addition to Digital Cinema.**

**Established in 1999 the Barco Digital Cinema Division (BDC) is one of only three appointed licensees of the Texas Instruments DLP Cinema™ Digital Micromirror Displays and has quickly established a commanding lead in the supply of innovative solutions for Post-Production, Lobby, Feature Film, Digital Poster and Marquee displays.**

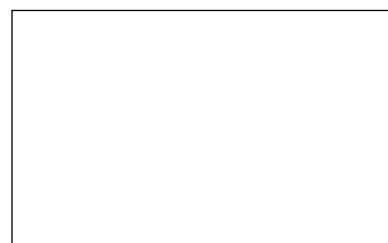
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BARCO Projection Systems is an ISO 9001 registered company.

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



Ref. no: R599542(9) - June '01 - Printed in Belgium