

D-Cine Premiere range



2k Digital Cinema projectors



The Barco D-Cine Premiere range, the world's most advanced digital cinema projectors, combine the **highest resolution 2k DLP Cinema™** technology from Texas Instruments with a host of unique installation and operation benefits.

At the 2005 Cannes Film Festival, the Barco D-Cine Premiere projectors allowed millions of fans throughout Europe to experience "Star Wars: Episode III - Revenge of the Sith" as Lucasfilm created it: with **rich color, high contrast and incredible sharpness**.



Barco, Official Partner of the Cannes Film Festival

"Digital Cinema exhibition is a vital part of the moviemaking process, enabling us to reduce production time and consistently deliver our desired vision to the screen," states **Rick McCallum, producer of 'Star Wars: Episode III - Revenge of the Sith'**. "We have been avid supporters of digital cinema since the digital premiere of 'Star Wars: Episode I' in 1999. For 'Star Wars: Episode III', we shot and edited the movie entirely digitally, and encourage viewers to see a digital presentation."

BARCO

Visibly yours

D-Cine Premiere DP100 for large screens up to 20m (65.6ft)*

June 2005: already more than 200 installations worldwide!



Barco's D-Cine Premiere DP100
(two-piece construction with projector head on top of server rack containing the server and the power supply)

Recognized as the industry standard for Digital Cinema, Barco's D-Cine Premiere DP100 projector is based on Texas Instruments' DLP Cinema™ technology, which enables it to deliver the benefits of 2048x1080 display resolution, 18.000 Cinema lumens light output, a contrast ratio of 2000:1 as well as DLP Cinema™, CineBlack™, CinePalette™ and CineLink™ image control.

The DP100 is easy to maintain, among other things because of its hermetically sealed DMD™ engine and optical assembly, for increased longevity via dust-free operations.

The D-Cine Premiere DP100 meets or exceeds SMPTE screen brightness standards on screens up to 20m (65.6ft) wide*, and ensures optimum performance and reliability through its integrated light path and digital processing.

Being fully compatible with Barco's D-Cine Communicator, the industries' most advanced projector control and diagnostics software, the DP100 simply is the perfect tool to answer the demanding needs of the digital cinema industry.



Kinepolis, Brussels, Belgium



Hongxing Cinema, Nanning, China

SNMP agent

Thanks to the SNMP agent feature - optional for both the DP100 and DP90 - total and constant monitoring of the internal projection system is guaranteed. The SNMP agent software allows for flexible integration in existing networks, and monitors every action that takes place within the D-Cine Premiere projector. The SNMP agent allows for proactive intervention and maintenance if necessary, by activating standard network management software packages, such as *WhatsUp Professional / Gold* from Ipswitch, *SNMPC* from Castle Rock, *HP Open View* from HP,

* at 14 footlambert and screen gain of 1.8

D-Cine Premiere DP90 for screens up to 15m (49ft)*

The DP90 is a compact 2k digital cinema projector, based on the DLP Cinema™ technology of Texas Instruments. It meets or exceeds the SMPTE screen brightness standards - the modular power supply makes it perfectly possible to match the highest brightness requirements for every screen up to 15m (49ft)*.

The 'lamp power redundancy' system enables the DP90 to offer an extremely reliable projection solution. The DP90 includes a dual lamp power system: if one power supply should fail, operation is secured thanks to the redundant second module (2,2kW).

Next to the swappable lamp house, high-end monitoring and diagnostics proprietary logic, this key feature enables the ultimate goal: whatever happens, 'The show must go on'.

Furthermore: the ability of the DP90 to flexibly slide the power to economy modes, allows the extension of the lamp lifetime up to 200%. This - together with its sealed engine and a cost-efficient design - results in a **lower total cost of ownership**, and a higher return on investment, turning the DP90 into an



Barco's D-Cine Premiere DP90
(comes with separate powerbox)

excellent choice for exhibitors and post-production studios with smaller screens.

The D-Cine Premiere DP90 can easily be integrated in the design of any theatre or post production studio. It consists of a projector and stand-alone lamp power supply, for convenient installation and operation.

Easy access is guaranteed by **quick removable side panels**, and several **reference points** at the top and bottom of the projector and the **specially designed robust projection frame** guarantee stable and easy ceiling-mount installations.



Imagica, Japan

D-Cine Communicator software

All D-Cine Premiere projectors are fully compatible with Barco's D-Cine Communicator, the industries' most advanced **projector control & diagnostics software**, designed to answer the needs of both theatre owners and the post production community. For more information, refer to separate brochure.

Robert L. Eicholz, Vice President Corporate Development of EFILM states: "EFILM takes pride in providing the best and most accurate color images in the Digital Intermediate business. We have invested years in developing state-of-the-art software, procedures and techniques to accomplish this goal. Only the best 2K projection can take full advantage of our investment in color science. Our Barco D-cine Premiere projectors at EFILM fit the bill perfectly, for the Barco projector itself is a great technical design, featuring modular design for all key components. Barco's D-Cine projectors offer excellent brightness, color and contrast at 2K resolution. They are used as part of EFILM's Digital Intermediate process, so Directors of Photography (DPs) and Directors and Producers of films can view their movie projected digitally as they collaborate with a colorist to digitally color grade films. The DI process allows DPs to refine the color and other aspects of their images. In contrast with traditional lab timing, they can now see the results of their work displayed on theater-size screens, with great color, resolution and contrast using the Barco D-Cine projectors," continues Eicholz. "In fact, these projectors display about 70% more pixels on our screens, and provide about 65% better contrast. That translates to crystal clear, beautiful images on the screen."

D-Cine Premiere specifications

	D-Cine Premiere DP100	D-Cine Premiere DP90
Digital Micro Mirror Device™	3 x 1.2" dark metal type Advanced DLP Cinema™ signal processing: CineCanvas™ image management; CinePalette™ color management, CineBlack™ contrast management and CineLink™ security management	
Native resolution	2048 x 1080	
Housing	Hermetically sealed DMD™ and optical assembly	
Mounting	Standing on pedestal Up to 15 degrees tilt on pedestal	Standing or ceiling mounted Up to 15 degrees tilt on pedestal
Lamp	3k to 7k Xenon arc lamp sizes Compatible with standard and high performance lamp types	1.5k to 4.0k Xenon arc lamp sizes
Brightness (at 14ftL and gain = 1.8)	Meets or exceeds SMPTE screen brightness standards up to 20m (65.6ft) wide up to 15m (49ft) wide adjustable light output CLO software	
Contrast ratio	2000:1	
Digital Video Inputs	2 x SMPTE 292M inputs, selectable as single or as dual link	
Prime lenses	M25 1.25 - 1.45:1 / M25 1.45 - 1.8:1 / M25 1.8 - 2.4:1 / M25 2.2 - 3.0:1 zoom and M25 3.0 - 4.3:1	
Projector diagnostics	Via touch screen Via D-Cine Communicator control software Via SNMP agent	
Power requirements	3 x 400V + N or 3 x 220V version available max. 27,000 BTU/hr (with 6kW lamp)	1 x 220V max. 17,000 BTU/hr (with 4kW lamp)
Dimensions	<i>projector head:</i> 640(H) x 730(W) x 1170(D) mm / 24.2(H) x 28.7(W) x 46.1(D) inch <i>projector head + pedestal:</i> 1466(H) x 730(W) x 1170(D) mm / 57.7(H) x 28.7(W) x 46.1(D) inch	<i>projector:</i> 640(H) x 730(W) x 1170(D) mm / 24.2(H) x 28.7(W) x 46.1(D) inch <i>powerbox:</i> 295.3(H) x 329.5(W) x 473.7(D) mm / 14.6(H) x 13.0(W) x 18.6(D) inch
Weight	<i>projector head + pedestal:</i> approx. 205kg (452lb)	<i>projector:</i> approx. 120kg (265lb) <i>powerbox:</i> approx. 20kg (44lb)
Options	<ul style="list-style-type: none"> • CLO - Constant Light Output control • Anamorphic lens fitting for 1.25:1 scope lens • Acsar 2 Alternative Content Input Processor • SNMP agent • Post production package <ul style="list-style-type: none"> - CLO - Higher contrast (2400:1) - Motorised lens holder - Post production communicator software 	
Order information	EU: R9010110 • US: R9010119	R9004440



Digital Light Processing, DLP, Digital Micromirror Device, DMD and DLP Cinema are trademarks of Texas Instruments Incorporated.

Ref.no. R599856 - June 2005

The information and data given are typical for the equipment described. However any individual item is subject to change without any notice. The latest version of this product sheet can be found on www.barco.com.

Barco Digital Cinema - WW Headquarters
Noordlaan 5, 8520 Kuurne - Belgium
Tel: +32-56-36 84 93 Fax: +32-56-36 83 86
e-mail: info.bdc.bps@barco.com

BARCO

Visibly yours