

DCI-3000

Digital Cinema Integrated Projection System

A complete one-stop digital cinema solution with Barco DLP Cinema® projector



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“ GDC Technology (“GDC Tech”) took another major step forward in its D-Cinema technology by developing the **DCI-3000 Digital Cinema Integrated Projection System**. The DCI-3000 integrated projection system features a Barco DLP Cinema® projector and GDC Tech

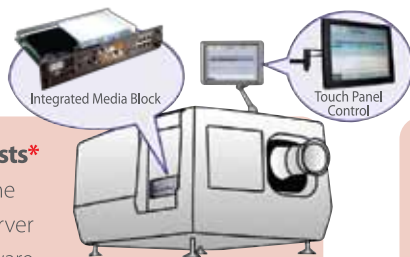
- SX-3000 Standalone Integrated Media Block™ or
- SX-2000AR/TR Digital Cinema Server with New Integrated Media Block

providing a complete one-stop solution for digital cinema. ”

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Key Benefits



1

Lower Maintenance Costs*

The DCI-3000 eliminates the need for an external file server and comes with SMS software.

2

High Frame Rate

The DCI-3000 supports high frame rate content in 2D and 3D (48 & 60fps per eye).

3

All Image Resolution

The DCI-3000 supports SD, HD, 2K and 4K (optional) resolution.

4

Comprehensive Support for Alternative Content

The DCI-3000 supports HDMI input, 3G-SDI input and network live streaming (optional). It also supports image scaling from HD to 4K (optional).

5

Live 3D Support (Optional)

The DCI-3000 comes integrated with 3D Demuxing (side-by-side) which makes receiving high-quality 3D broadcasts possible. It also provides a built-in integrated 3D decoder to seamlessly support 3D Live broadcast without requiring additional decoder.

6

Supports All Approved 3D Systems

The DCI-3000 seamlessly integrates with numerous studio-approved 3D systems such as RealD, MasterImage, Dolby 3D and active 3D systems.

7

Remote Access and Monitoring

Cinema operators can remotely access the DCI-3000 using the Theatre Management System (TMS) and Screen Management System (SMS) from a Windows® PC and/or smart phones.

8

One-stop Installation, Service and Maintenance

No messy and expensive wiring work. Rely on GDC Tech for one-stop service and maintenance without the need to make numerous calls to different vendors.

Technical Specifications

Server/IMB Specifications

Video Specifications

JPEG 2000	4K – 24 (2D) (optional) 2K – 24, 48, 60 (2D) 2K – 24, 48, 60 (3D) SD/HD
MPEG 2/MPEG 4 (optional) Packaging	SMPTE Digital Cinema Package (DCP), Interop DCP

Audio Output

Digital uncompressed audio	16/24-bit AES/EBU, 16 channels, 48/96 KHz 2 x RJ45
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System Interfaces

Ethernet	SX-3000 : 2 x RJ-45 (1000 BaseT) SX-2000AR/TR : 3 x RJ-45 (1000 BaseT)
eSATA	x 3 (external storage)
USB 2.0	2 x USB A-Type Female
LTC	In & Out (2 x BNC)
REF	Passive loop output/ Video sync input (2 x BNC)
HDMI	x 1 (alternative content input)
3G-SDI	x 2 (alternative content input)
8-port GPI/Os (optional)	4 x RJ45 (8 GPIs and 8 GPOs)
DVD-ROM drive*	Read speed 8x
CRU sled*	CRU-Dataport

Server Diagnostics

Via PC touch panel
Via SNMP agent

Security

AES 128-bit encrypted data storage
Civolution (NexGuard®) forensic
watermarking

Subtitles

Subtitle overlay
Projector Cinemascope support

User Interface

PC/ Mac/ VGA/ SX-2000 server control

Power

Power requirement*	100 to 240V, 60 to 50Hz, 6 to 3A
Max power consumption	SX-3000 : 75W SX-2000AR/TR : 395W
Redundant power supplies*	Redundant internal hot swappable x 2
Uninterrupted power supply (UPS) with surge protection (optional)*	3-way, meets IEEE STD 587 Cat. A 6KV test

Physical

Dimensions (Server)*	482(W) x 616(D) x 177(H) mm 4RU
Weight (Server)*	25kg (55lbs)
Dimensions (IMB)	320(W) x 240(D) x 63.7(H) mm
Weight (IMB)	1.5kg

Environmental

Operating temperature	35°C / 95°F
Operating humidity	20% to 90%, non-condensing
Operating altitude	10,000 ft. above sea level

Third-party Integration Options

TMS	GDC, Third-party*
3D System	RealD, Dolby 3D, MasterImage, active systems
4D System	D-Box Motion Code™, 4D plex
Closed Captioning Device	Support SMPTE430-10

Integrated 3D Live Specifications (Optional)

Video	MPEG 2/ MPEG 4
Audio	Dolby Digital (AC-3)*/ MPEG 2 audio
3D Demuxing	Side by side/ Third-party
Stream Format	UDP Multicast of MPEG 2 Transport Stream

Projector Specifications

Digital MicroMirror Device™	DCI-3000-S2K : 3 x 0.69" DC2K dark metal devices DCI-3000-12C/15C/20C : 3 x 0.98" DC2K dark metal devices DCI-3000-19B/23B/32B : 3 x 1.2" DC2K dark metal devices DCI-3000-4K2/4K3 : 3 x 1.38" DC4K dark metal devices	Power Requirements	DCI-3000-S2K/12C/15C/20C/19B/23B : 220V DCI-3000-32B 3x 400V + N or 3 x 220V 30,000 BTU/hr (with 6.5kW lamp) DCI-3000-4K2 200-240V 30A 50-60Hz 19,000 BTU/hr (with 4kW lamp) DCI-3000-4K3 3W+N+PE 230/400V 16A 50-60Hz or 3W+PE 208V 27A 50-60Hz 30,000 BTU/hr (with 6.5kW - 7kW lamp)
Native resolution	DCI-3000-S2K/12C/15C/20C/19B/23B/32B : 2,048 x 1,080 pixels DCI-3000-4K2/4K3 : 4,096 x 2,160 pixels	Dimensions	DCI-3000-S2K 325(H) x 625(W) x 910(D) mm 12.8(H) x 24.6(W) x 35.8(D) inch DCI-3000-12C/15C/20C 558(H) x 694(W) x 1034(D) mm 22.0(H) x 27.3(W) x 40.7(D) inch DCI-3000-19B/23B/32B/4K2/4K3 604(H) x 754(W) x 1129(D) mm 23.78(H) x 29.69(W) x 44.45(D) inch <i>NB.: min. 5cm of air inlet spacing required at the bottom of projector</i>
Housing	Hermetically sealed DMDs and optical assembly	Weight	DCI-3000-S2K Recessed handles for easy carrying lamp-house removed- 56.5 kg (125 lbs) for carrying total weight- 66.5 kg (147 lbs) DCI-3000-12C : 100kg (220lbs) DCI-3000-15C/20C : 102kg (225lbs) DCI-3000-19B/23B : 133 kg (293 lbs) DCI-3000-32B : 140 kg (309 lbs) DCI-3000-4K2 : 134 kg (295 lbs) DCI-3000-4K3 : 141 kg (311 lbs)
Screen Width	DCI-3000-S2K Screen width (screen gain 1:2) @ 14ftl*: up to 10m (33ft) DCI-3000-12C Screen width (screen gain 1:2) @ 14ftl*: up to 12m (39ft) DCI-3000-15C Screen width (screen gain 1:4) @ 14ftl*: up to 15m (49ft) DCI-3000-20C Screen width (screen gain 1:8) @ 14ftl*: up to 20m (65ft) DCI-3000-19B Screen width: 19m (62ft) DCI-3000-23B/4K2 Screen width: 23m (75ft) DCI-3000-32B/4K3 Screen width: 32m (105ft)	Options	DCI-3000-S2K 3D add-ons Touch screen monitor DCI-3000-12C/15C/20C/19B/23B/32B/4K2/4K3 ACS-2048 3D add-ons Touch panel
Pedestal	Universal pedestal (optional)	Standard Features	DCI-3000-S2K CLO (Constant Light Output) Powerful SNMP agent Full 2K triple flash 3D DCI-3000-12C/15C/20C/19B/23B/32B/4K2/4K3 CLO (Constant Light Output) Powerful SNMP agent HDCP support Full 2K triple flash 3D * Advanced patented DMD cooling
Max. Ambient Temperature	35°C / 95°F		
Lamp Power	DCI-3000-S2K : 2.2kW (short-arc Xenon lamp) DCI-3000-12C : 1.2kW - 2kW (Xenon lamp) DCI-3000-15C/19B : 1.2kW - 3kW (Xenon lamp) DCI-3000-20C/23B/4K2 : 1.2kW - 4kW (Xenon lamp) DCI-3000-32B/4K3 : 3kW - 7kW (Xenon lamp)		
Contrast	DCI-3000-S2K : 1850:1 DCI-3000-12C/15C/20C/19B/23B/32B/4K2/4K3 : 2000:1		
Digital Video Inputs	DCI-3000-12C/15C/20C/19B/23B/32B/4K2/4K3 Slot for 2 x SMPTE 292M inputs or 4K Integrated Media Block 2 x DVI input both selectable as single and dual link		
Prime Lenses	DCI-3000-S2K Fully motorized, 1.2 - 1.7, 1.34 - 1.9, 1.5 - 2.15, 1.7 - 2.55, 2.0 - 3.9 DCI-3000-12C/15C/20C 1.2 - 1.8, 1.4 - 2.05, 1.6 - 2.5, 1.95 - 3.2, 2.4 - 3.9 DCI-3000-19B/23B/32B 1.25 - 1.45, 1.4 - 2.05, 1.6 - 2.35, 1.8 - 2.8, 2.15 - 3.6, 2.8 - 5.5 DCI-3000-4K2/4K3 1.13-1.31, 1.27-1.86, 1.45-2.13, 1.63-2.53, 1.95-3.26, 2.53-4.98 equivalent throw ratios for 4K 1.38" DMD		
Projector Diagnostics	DCI-3000-S2K via PC touch panel via Communicator control software via Communicator LITE control software (web-based) via SNMP agent DCI-3000-12C/15C/20C/19B/23B/32B/4K2/4K3 via PC touch panel via Communicator control software via SNMP agent		

- * Only available in SX-3000
- * Only available in SX-2000AR/TR
- * Please check with your TMS provider
- * Supports Dolby Digital (AC-3) in pass-through mode only, which requires external AC-3 decoder or sound processor for integration
- * Only available in DCI-3000-4K2/4K3

DCI-3000 Model Options

The DCI-3000 Digital Cinema Integrated Projection System is available in various configurations to suit your differing needs.

Server/ IMB Model	Projector Model	DCI-3000 Model No.
SX-3000	DP2K-10S	DCI-3000-S2K
SX-3000	DP2K-12C	DCI-3000-12C
SX-3000	DP2K-15C	DCI-3000-15C
SX-3000	DP2K-20C	DCI-3000-20C
SX-3000	DP2K-19B	DCI-3000-19B
SX-3000	DP2K-23B	DCI-3000-23B
SX-3000	DP2K-32B	DCI-3000-32B
SX-3000	DP4K-23B	DCI-3000-4K2
SX-3000	DP4K-32B	DCI-3000-4K3

Server/ IMB Model	Projector Model	DCI-3000 Model No.
SX-2000AR/TR	DP2K-10S	DCI-3000AR/TR-S2K
SX-2000AR/TR	DP2K-12C	DCI-3000AR/TR-12C
SX-2000AR/TR	DP2K-15C	DCI-3000AR/TR-15C
SX-2000AR/TR	DP2K-20C	DCI-3000AR/TR-20C
SX-2000AR/TR	DP2K-19B	DCI-3000AR/TR-19B
SX-2000AR/TR	DP2K-23B	DCI-3000AR/TR-23B
SX-2000AR/TR	DP2K-32B	DCI-3000AR/TR-32B
SX-2000AR/TR	DP4K-23B	DCI-3000AR/TR-4K2
SX-2000AR/TR	DP4K-32B	DCI-3000AR/TR-4K3

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GDC Tech manufacturing facility is ISO 9001 : 2008 certified.

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