GDC Technology ("GDC") took another major step forward in its D-Cinema technology to jointly develop the DCI-2200 Digital Cinema Integrated Projection System with Barco. The DCI-2200 integrated projection system features a Series 2 DLP Cinema® projector from Barco and a GDC SX Series Digital Cinema Server with

- SX-2001 Digital Cinema Server
- SX-2000 Digital Cinema Server with Integrated Media Block ("IMB"), both providing a complete one-stop solution for both 2K and 4K digital cinema.

Unique Features

Swapping of Data Drives for Immediate Content Playback
The DCI-2200 allows instant transfer of data drives (i.e. HDD) between systems, making it possible to move a film quickly from one screen to another.

Redundant Hot Swappable Up to 4TB Storage (Optional)
Up to 4TB of content storage. The DCI-2200 uses 3 redundant hot swappable drives which can be easily attached or detached. The DCI-2200 is able to remain operational in the event of a single drive failure therefore minimizing the downtime.

Instant Playback from TMS Library
The DCI-2200 allows for instant playback from the TMS content library to the server. This makes available a huge amount of content storage for playback, providing flexibility for show management.

Incorporation of RealD 3D EQ Technology
The availability of RealD’s 3D EQ ghostbusting technology in the DCI-2200 allows for superior 3D presentations and facilitates seamless integration with RealD 3D exhibition systems.

Secure
Content is protected with industry proven AES 128-bit encryption and conditional access. Enhanced security comes with the incorporation of the latest CineLink II™ link encryption and DCI approved forensic watermarking. In addition, DCI-2200 ships with a FIPS 140-2 Level 3 Certified Media Block providing the highest level of security recommended by DCI.

Multi-functional
The DCI-2200 supports both DCI JPEG2000 and MPEG2 MXF Interop playback. Besides playing D-Cinema contents, the same system also allows users to exhibit live-events, advertising, 3D and alternative contents in D-Cinema quality, providing new revenue stream opportunities without the need to add another piece of equipment in the projection booth.

Remote Access and Monitoring
Cinema operators can remotely access the DCI-2200 using the Theatre Management System (TMS) and Screen Management System (SMS) from a Windows® PC and/or Apple® iPhone™.

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

* Only available in SX-2001
# DCI-2200 Digital Cinema Integrated Projection System Technical Specifications

## Server Specifications

### Video Output
- Single link HD-SDI
- Dual link HD-SDI (optional)
- Quad link HD-SDI (optional)

### Video Performance
- Formats (MPEG)
  - SMPTE 292M (12-bit 4:2:2 RGB/Y'Y'Z', for 3D playback)
  - SMPTE 292M (12-bit 4:4:4 RGB/Y'Y'Z', for 3D or 2D playback)

### Audio Output
- Digital uncompressed audio: 16 channels (Y'PbPr, Y'PrPb)
- 48/96 kHz, 16-bit/24-bit
- SX-2000: Dsub-25 pin
- SX-2001: Dsub-26 pin
- Audio Offset: +/- 500 frames

### Storage
- Redundant hot swappable 2000GB (Upgradable to 4000GB)

### System Interfaces
- Ethernet: 2 x RJ-45 (1 x 10/100 BaseT, 1 x 1000 BaseT)
- USB 2.0: 6 x USB A-type male
- 16-port GPI/Os
- SX-2000: Dsub-25 pin
- SX-2001: Dsub-37 pin
- Read speed 8x
- HDV SxS
- CRU: Daptax CMS DX 115
- BNC: CENELEC
- EN 50083-9 standard

### Subtitles
- Instant subtitle overlay on server

### Server Diagnostics
- Via PC touch panel
- Via SNMP agent

### Security
- AES 128bit encrypted data storage
- GDC conditional access system
- CineLink II “link encryption”
- ExonGuard (Forensic watermarking)
- FIPS 140-2 Level 3

### Interface U/O
- Analog Gembick: Bi-Level, Tri-Level

### User Interface
- External panel control (optional)
  - Integrated Control of digital cinema servers and DLP Cinema Projectors
- Windows® PC network control
  - Remote access to the screen management system (SMS) and server user interface

### Power
- Power requirement: 100 to 240V, 60 to 50Hz, 1 to 3A
- Redundant power supplies
- Uninterrupted power supply (UPS) with surge protection (optional)

### Physical Dimensions
- Weight: 482 (W) x 610 (D) x 177 (H) mm
- 25kg (55lbs)

### Environmental
- Operating temperature: 5 °C to 40 °C
- Humidity: 20% to 90%, non-condensing
- Altitude: 10,000ft. above sea level

## Projector Specifications

### Digital Micro Mirror Devices
- DCI-2200XSC/SC/MC: 3 x 0.89” DC2K dark metal devices
- DCI-2200MB/LB: 3 x 1.2” DC2K dark metal devices

### Native Resolution
- 2,048 x 1,080 pixels

### Housing
- Hermetically sealed DMD® and optical assembly

### Screen Width
- DCI-2200XSC
  - SX-2000/SC: Screen width [screen gain 1:3] @ 14’’ = up to 12m (390’’)
  - DCI-2200MC: Screen width [screen gain 1:4] @ 14’’ = up to 15m (49’’)

### Max. Ambient Temperature
- 35°C / 95°F

### Lamp Power
- DCI-2200SC: 1.2kW - 2kW (Xenon lamp)
- DCI-2200SC/MC: 1.2kW - 2kW (Xenon lamp)
- DCI-2200MC/LB: 1.2kW - 4kW (Xenon lamp)
- DCI-2200LB: 1.5kW - 7kW (Xenon lamp)

### Weight
- SX-2000/SC: 100kg (220lbs)
- SX-2000/MB: 100kg (220lbs)
- SX-2000/LB: 133kg (293lbs)
- SX-2001/SC: 140kg (309lbs)

### Options
- ACS-2045
  - Auto lamp alignment
  - 3D add-ons

### Standard Features
- Touch panel
- CLO (Constant Light Output)
- Powerful SNMP agent
- Motorized/mechanized lens (focus, zoom & shift)
- HDP control
- Full 2K triple flash 3D

### Server Model Options in DCI-2200 Digital Cinema Integrated Projection System

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### Other Features
- Only available in SX-2001

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**Barco Series 2 DLP Cinema® projector with GDC SX-2000 Series Digital Cinema Server and Integrated Media Block**

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**Specifications are subject to change without notice due to ongoing product development and improvement.**

**GDC manufacturing facility is ISO 9001: 2008 certified.**