



# Introducing GDC Cinema Automation CA2.0

Reshaping the Future of Cinema Technology



# 1919

First Rotary Phone



# 1973

First Mobile Phone



# 2007

First Smart Phone

## Technology – From Evolution to Revolution

Since 2001, GDC's smart cinema solutions have continually evolved to save cinema operators' time, effort and cost. Now GDC takes another giant step into the future with **Cinema Automation CA2.0**, the first-ever integrated centralized solution to automatically manage content storage and playback, show scheduling, power supply and screening quality.



# 1895

First Celluloid Film Projector



# 1999

First Digital Cinema



A REVOLUTION IN  
CINEMA MANAGEMENT

# 2017

First Completely  
Automated Cinema

# 3 Revolutionary Breakthroughs in Cinema Automation CA2.0

Cinema Automation CA2.0 is a game-changer – the first-ever integrated solution that leverages machine intelligence to help exhibitors cut operating costs, increase revenues and improve screening quality.

As multiplexes comprise ever more screens, manpower requirements expand proportionately. Now the cutting-edge CA2.0 revolutionizes digital cinema management, with three powerful breakthroughs for improved efficiency, enhanced reliability and reduced human intervention:

**Breakthrough 1**      SCL Mk2 Series Centralized Storage Playback Solution

**Breakthrough 2**      Automatic Content Management and Show  
Playlist Generation

**Breakthrough 3**      Intelligent Cinema Equipment Management



BREAKTHROUGH 1

# SCL Mk2 Series Centralized Storage Playback Solution

CA2.0 is built around the SCL Mk2 Series Centralized Storage Playback Solution and is supported by the SCL-1000 Mk2, SCL-2000 Mk2, SCL-3000 Mk2 or SCL-4000 Mk2 Centralized Playback Server. It offers a range of significant improvements over traditional methods.

**>90%**

**CUT IN CONTENT  
INGESTION TIME**

Content ingestion performed only once, taking around 30 minutes <sup>1</sup>

**30x**

**PLAYBACK RELIABILITY**

Playback stability and reliability is substantially increased by 30 times <sup>2</sup>

**>100x**

**CONTENT STORAGE**

Colossal 204TB centralized storage serving up to 30 screens, eliminating local storage needs <sup>3</sup>

**2000**

**MOVIES IN 1  
STORAGE SERVER**

Wide selection of movies available to each auditorium from SCL-4000 Mk2 centralized server

**FAIL-SAFE  
DESIGN**

**BACKUP MECHANISM AVAILABLE  
TO ENSURE EVERY SCREENING  
CONTINUES AUTONOMOUSLY**

The comparisons above are based on the actual operation in a multiplex with 30 screens:

- 1 Between an approximate total of 900 minutes to ingest a movie to all 30 screens and a one-time ingest of around 30 minutes of a movie to a SCL-4000 Mk2 server.
- 2 Between the usage of traditional systems with up to 30 local storage devices and the usage of a SCL-4000 Mk2 server for all 30 screens.
- 3 Between a local storage device with 2TB capacity and a SCL-4000 Mk2 server with 204TB capacity.



BREAKTHROUGH 2

# Automatic Content Management and Show Playlist Generation

Automated Show Scheduling

Streamlined Content Management

Single-Point Show Programming through POS

CA2.0 allows automatic content management and show playlist (SPL) generation which provide rich support to the cinema automation process. CA2.0 seamlessly integrates with POS – the operator only needs to program the shows once via POS, and CA2.0 handles all subsequent complex procedures automatically. This eliminates the time and effort now required manually to prepare accurate SPLs and facilitates flexible and dynamic show programming.



# Intelligent Cinema Equipment Management

**Intelligent Power Supply Management** – According to the pre-set schedule, the wake-on LAN system intelligently turns power supply on or off for cinema equipment (including projectors, digital cinema servers, audio systems and luminance equipment), saving energy and time-consuming manual effort.

**Automated Quality Assurance of Screening** – CA2.0 manages screening quality by smart testing and analysis of luminance, chromaticity and sound pressure level. Screening check is performed automatically with results available instantaneously.

With smart playback content management and cinema operation, centralized cinema management becomes almost as simple as flicking a switch.



# Global Installations

Since June 2017, the installations of CA2.0 have reached over 110 locations and more than 1,000 screens globally.



**HUAYI BROTHERS CINEMA (BEIJING YANGQIAO)**  
Beijing, China



**BONA INTERNATIONAL CINEMA (BEIJING MIYUN)**  
Beijing, China



**NEW COLOURFUL CLOUDS CINEMAS**  
Beijing, China



**BESTAR CINEMAS (NANJING INJOY PLAZA)**  
Nanjing, China



**CHINA FILM CINEMA (NANJING BAIXIA DAGUANLU)**  
Nanjing, China



**RED STAR CINEMA WORLD (SHANGHAI WUZHONG ROAD)**  
Shanghai, China



**CHINA FILM CINEMA (SHENZHEN SHEN GUO TOU)**  
Shenzhen, China



**JINYI CINEMAS (SHENZHEN GONGMING JIAYU)**  
Shenzhen, China



**CINEMA CITY (CHAI WAN)**  
Hong Kong



**MCL CINEMA (SOUTH HORIZONS)**  
Hong Kong



**UA CINEMAS (MEGABOX)**  
Hong Kong



**GOLDEN SCREEN CINEMAS (IOI CITY MALL)**  
Putrajaya, Malaysia



**GOLDEN VILLAGE (GOLD CLASS SUNTEC CITY)**  
Singapore



**SHAW THEATRES (WATERWAY POINT)**  
Singapore



**IPIC THEATRES (WESTWOOD)**  
Los Angeles, USA



**PACIFIC THEATRES (SHERMAN OAKS)**  
Los Angeles, USA



**UPLINK KICHIJOJI**  
Tokyo, Japan



**GOLDEN APPLE CINEMA**  
Zlin, Czech Republic

\* This is a partial list only



## CINEMA AUTOMATION CA2.0

### TRANSFORMING DIGITAL CINEMA NOW

Contact us at [marketing@gdc-tech.com](mailto:marketing@gdc-tech.com) to learn more about the benefits of GDC Cinema Automation CA2.0



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