



Introducing GDC Cinema Automation CA2.0

Reshaping the Future of Cinema Technology



3 Revolutionary Breakthroughs in Cinema Automation CA2.0

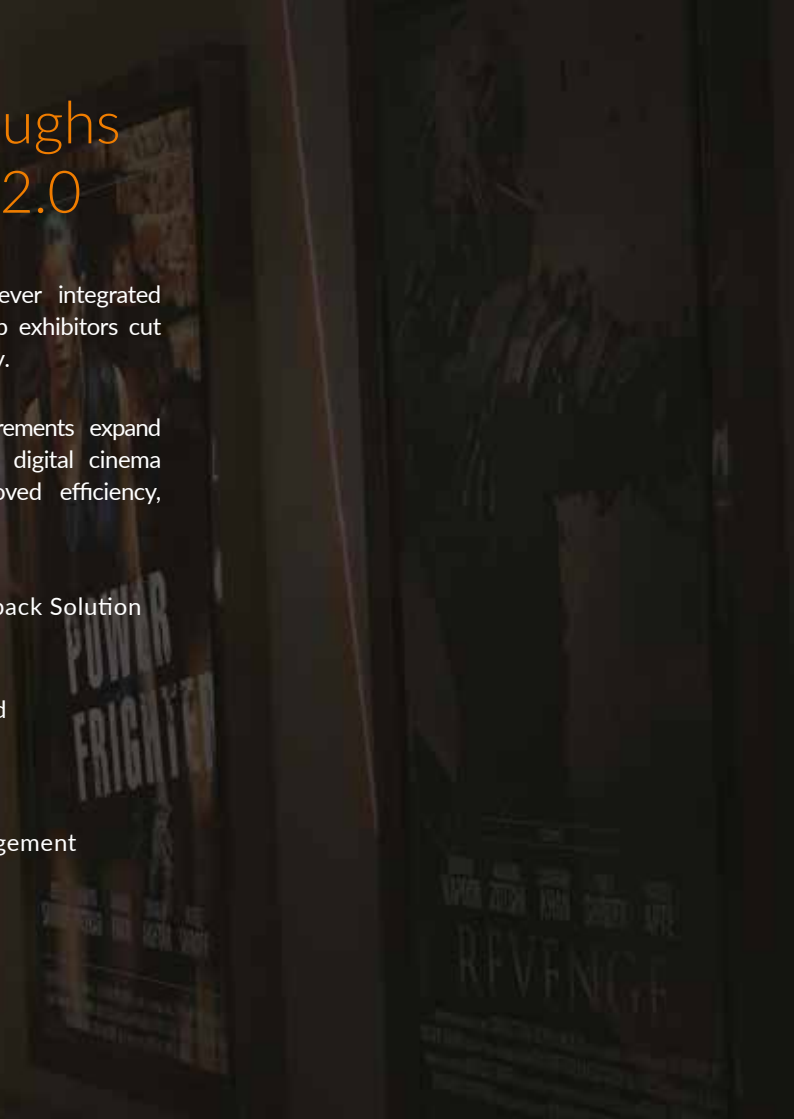
Cinema Automation CA2.0 is a game-changer – the first-ever integrated centralized solution that leverages machine intelligence to help exhibitors cut operating costs, increase revenues and improve screening quality.

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 Series Centralized Storage Playback Solution

Breakthrough 2 Automatic Content Management and
Show Playlist Generation

Breakthrough 3 Intelligent Cinema Equipment Management



BREAKTHROUGH 1

SCL Series Centralized Storage Playback Solution

CA2.0 is built around the SCL Series Centralized Storage Playback Solution and is supported by the SCL-1200 Series and SCL-2200 Series 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 minutes¹

30x

PLAYBACK RELIABILITY

Playback stability and reliability is substantially increased by 30 times²

>100x

CONTENT STORAGE

Colossal 204TB centralized storage serving up to 30 screens, eliminating local storage needs³

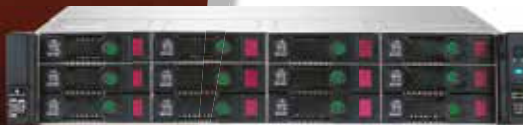
2000

**MOVIES IN 1
STORAGE SERVER**

Wide selection of movies available to each auditorium from SCL-2230 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-2230 server.

² Between the usage of traditional systems with up to 30 local storage devices and the usage of a SCL-2230 server for all 30 screens.

³ Between a local storage device with 2TB capacity and a SCL-2230 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.





BREAKTHROUGH 3

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.

TmsAware™ App

The TmsAware™ App is a cloud-based platform that allows real-time monitoring of cinema operations anywhere, anytime without boundary. With TmsAware™, users can remotely access Cinema Automation CA2.0 or GDC's TMS to keep track of operations inside a multiplex. Checking the schedule of each screen and the status of cinema equipment through mobile device on-the-go does not only increase efficiency for cinema operators, but also enables prevention of faulty situations. In the case of abnormality, user's mobile device will receive an alert and operators can take timely measures to attend to the occurrence.

Main Features of TmsAware™



CURRENT SCREENING

Quick view of the movies currently showing in each auditorium



EQUIPMENT MONITORING

Real-time monitoring the operating status of digital cinema equipment



MOVIE SHOWTIMES

Display scheduled shows in real-time



NOTIFICATION INFORMATION

Push fault or alarm messages allow timely attention to abnormalities



Global Installations

Since June 2017, the installations of CA2.0 have reached over 250 locations and more than 2,400 screens globally.



**LANDMARK CINEMAS
MARKET MALL**
Calgary, Canada



BONA CINEMA
Changsha, China



**GALAXY UNIVERSAL
STUDIOS (FUTIAN
CCP STORE)**
Shenzhen, China



BOYUEHUI CINEMA
Guiyang, China



**MCL CYBERPORT
(POKFULAM)**
Hong Kong



**MCL MOVIE TOWN
(SHATIN)**
Hong Kong



**GOLDEN APPLE
CINEMA**
Zlín, Czech Republic



MAISON PVR
Mumbai, India



**PVR VEGAS MALL
DWARKA**
New Delhi, India



UPLINK KICHIJOJI
Tokyo, Japan



**GRAND CINEMA
SUNSHINE**
Tokyo, Japan



GSC PARADIGM JB
Malaysia



**SHAW THEATRES
PLQ**
Singapore



FLIX BREWHOUSE
United States



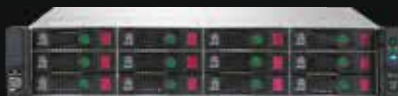
ARENA CINEMAS
Zurich, Switzerland

* This is a partial list only



CINEMA AUTOMATION CA2.0

TRANSFORMING DIGITAL CINEMA NOW



GDC Website



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