DIGITAL PROJECTION CINEMA
Created with NEC Viewtechnology

# iS8-2K

integrated series

The iS8-2K is the world's smallest integrated digital cinema projector to employ Texas Instrument's new DC 2K DMD™ technology. DLP Cinema™ components, optics and illumination systems have all been expertly engineered into this rugged and streamlined built-for-purpose chassis.

User-adjustable lamp power delivers SMPTE brightness compliance on screens from 10 to 25-feet wide, making the iS8-2K perfect for screening rooms, postproduction facilities and a number of screens in commercial cinemas.

The integrated design enables this state-of-the-art digital cinema projector to be shared among multiple auditoriums within a multiplex. For new construction, the system can be installed either inside or outside a projection booth. The ingenious mechanical design, which includes a rugged external frame with integrated pitch and roll adjustments, supports every conceivable installation requirement.

When paired with Digital Projection's Multi-Media Switcher 1000 (MMS 1000), the cinema exhibitor can screen any content from live concerts and sporting events to PowerPoint® presentations and DVD-based material. The ability to show alternative content greatly enhances system flexibility and opens new revenue streams to the commercial exhibitor.

Most importantly, the iS8-2K is a product of Digital Projection International and NEC Viewtechnology - two powerhouses in the projection industry. Combining unequaled innovation, expertise, product quality and customer services, Digital Projection Cinema will inspire confidence in your digital cinema business.

## PERFORMANCE SPECIFICATIONS

**Display Type**
3 x 1.26" Dark Metal HPO DMD™

**DMD Specification**
2048 x 1080 pixels native, 12° tilt angle

**Brightness**
14-foot lamberts for cinema screens up to 26-feet (8M) wide

**Optical**
Contrast ratio, colorimetry, uniformity-exceeds Texas Instruments' DLP Cinema™ guidelines

**Lens Options**
1.45-1.8 :1 zoom
1.8-2.2 :1 zoom
2.2-3.0 :1 zoom
3.0-4.3 :1 zoom
Anamorphic: 1.25x (scope)

**Lens Mount**
Motorized and memory focus, zoom, horizontal and vertical shift.
Shift range varies depending on lens.

**Dowser**
Motorized light shutter

**Anamorphic Turret**
Automated two-position lens turret optional

**Lamp Module**
Module-type lamp house (built-in over temperature, end of life warnings and protection)
Dimensions:
166mm(W) x 220mm(D) x 260mm(H)

**Lamp Type**
Xenon arc bubble with auto brightness mode

**Mounting**
Front floor, rear floor
Front ceiling, rear ceiling

**Mechanical**
Integrated handle/stacking frame, pitch and roll adjustment - optional

**LCD Display**
Provides status and control information

**Menu Button**
Provides input selection, lens control, title selection, screen size selection flat and scope, etc.

**User Panel Buttons**
Provides lens control, input selection, title selection, screen size selection flat, scope, etc.

**AC Power Requirements**
100-240 VAC, single phase. Reduced power for 100-120V operation; tethered cable

**Dust Free**
DMD dust-free shielding

**Cooling and Thermal Characteristics**
Combined air and liquid cooling. Dust controlled replaceable electro-static filter.

**Thermal Dissipation**
Less than 6000 BTU

**Dimensions** (excluding frame)
29.6in(L) x 22.1in(W) x 13.3in(H)
751.5mm(L) x 562mm(W) x 340mm(H)

**Weight** (including handles)
165.3lbs (75kg)

**Fan Noise**
40dBA in low-power mode
45dBA in high-power mode

**Operating/Storage Temperature**
10 to 35° C - operating
-10 to 60° C - storage

**Humidity**
Up to 80% non-condensing

**Safety and Regulations**
CE marked, UL approved, FCC class A compliant

## ELECTRONIC INPUTS / OUTPUTS

| Type | Connector | Quantity |
|---|---|---|
| SMPTE 292M ports (DLP Cinema™ input ports) | BNC | 2 |
| DVI-D Port | DVI - Digital | 2 |
| Ethernet Port | Modular Jack (8-pin) | 1 |
| Serial Port (RS232) | D Sub (9-pin) | 1 |
| GPIO Port (Opto-isolated Switch Closures) | D Sub (37-pin)<br>General Input: 8 port<br>General Output: 7 port<br>Special Output (System Monitor): 1 port | 1 |

DLP CINEMA™ A TEXAS INSTRUMENTS TECHNOLOGY

Specifications subject to change without notice

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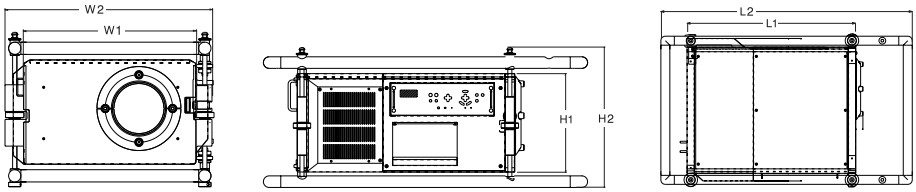

Projector dimensions (in)
**W1** 22.1 **H1** 13.3 **L1** 29.6

Frame dimensions (in)
**W2** 26 **H2** 18 **L2** 44.1

Projector dimensions (mm)
**W1** 562 **H1** 340 **L1** 751.5

Frame dimensions (mm)
**W2** 660 **H2** 456 **L2** 1120

## INPUT FORMATS AND ELECTRONIC CAPABILITY

| | Cinema | |
|---|---|---|
| PARAMETERS | SPECIFICATION | REMARKS |
| Signal Format | Dual SMPTE 292M -Bit serial Single SMTE 292M -Bit serial | -10 bits per component Dual format |
| Supported Sample Types | 4:4:4, 4:2:2 | |
| Supported Scan Types | Interlaced; Progressive Segmented Frame | Interlaced material must be source encoded with: -3:2 pull-down with time-code reference supplied. OR - 2:2 pull-down |
| Supported Input Colorimetry | ITU-R BT.709, SMPTE 240M, SMPTE C, DLP Cinema™ | Other colorimetry can be supported via external download as required |
| Number of Ports | 1-Dual or 2-Single | AB, A, or B; selectable |
| Examples of supported input source formats | -SMPTE 274M -SMPTE 260M -SMPTE 296M -SMPTE 295M | |
| Supported Vertical Rates | Cinema Processing: 23Hz min - 76Hz max | |

| | DVI Input | |
|---|---|---|
| PARAMETERS | SPECIFICATION | REMARKS |
| Signal Format | DDWG DVI | -8-bits per color (standard) -10-bits and 12-bits per color (encoded**). **TI format |
| Supported Sample Types | 4:4:4, 4:2:2 | |
| Supporting Scan Types | Progressive | |
| Supporting Input Colorimetry | ITU-R BT.709, SMPTE 240M, SMPTE C, DLP Cinema™ | |
| Number of Ports | Two | |
| Supporting Scan Rate (single link) | 1280*1024 / 23-61Hz 82.5Mhz | +DLPC process path 8 / 10-bit |
| | 1280*1024 / 23-61Hz 165Mhz | Standard DLP path 8 / 10-bit |
| | 2048, 1920*1080 / 23-48Hz | +DLPC process path 8 / 10-bit |
| | 1920 *1080 / 23-62Hz | Standard DLP path 10-bit |
| | 2048 * 1080 / 23-58Hz | Standard DLP path 10-bit |
| (Dual / Twin Link) | 2048, 1920*1080 / 23-48Hz | +DLPC process path 8 / 10-bit |
| | 1920*1080 / 23-77Hz | Standard DLP path 8 / 10-bit |
| | 2048*1080 / 23-72Hz | Standard DLP path 8 / 10-bit |

| Remote Control | |
|---|---|
| SPECIFICATION | REMARKS |
| Ethernet | RJ45 |
| USB | Host and slave Type B connection |
| Serial Port | RS232 D-sub 9-pin |
| GPIO | D-sub (37-pin) general input 8 port, general output 7 port, special output system monitor 1 port |
| Remote Control unit | Wired mini jack |

+DLPC = DLP Cinema™

## FUNCTIONALITY

CineLink™
-Security Management

CineCanvas™
-Image Management

CinePalette™
-Color Management

CineBlack™
-Extended Contrast Ratio

## ACCESSORIES

**STANDARD:**
-DVI-D signal cable
-Type 1 and 2 PC card
-Remote control unit with cable
-User manual

**OPTIONAL:**
-Lenses
-Multi-Media Switcher 1000 (MMS 1000)
Input cards:
- Composite / component / S-Video input module (MM-Video)
- RGB HV / component input module (MM-RGB)
- DVI-D input module (MM-DVI)
- SD-SDI / HD-SDI input module (MM-SDI)

-Anamorphic turret

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