

# HIGHLIGHT Pro Series

HIGHLIGHT 10000Dsx+ • HIGHLIGHT 16000Dsx+ • HIGHLIGHT 14000HD



## PERFORMANCE SPECIFICATIONS

### Contrast Ratio (±10%; full-field)

10000Dsx+: 2000:1  
16000Dsx+: 1800:1  
14000HD: 1800:1

### Brightness (±10%)

10000Dsx+: 9,500 ANSI lumens  
16000Dsx+: 13,000 ANSI lumens  
14000HD: 14,000 ANSI lumens

### Display Type

sx+: DarkChip™ DMD  
HD: DarkChip™ DMD

### DMD Specification

sx+: 0.95" 1400 x 1050 pixels  
HD: 1.26" 2048 x 1080 pixels

### Sealed optics at DMD interface

Protects DMD's from optical contamination. Liquid cooled.

### Source Compatibility

4 x card slot  
Choice of four cards:  
-video (composite, S-video, component)  
included as standard  
-RGBHV included as standard  
-HD/SD-SDI optional  
-DVI-D optional

### PC Card

1 x PC card slots used for:  
- wireless LAN option

### Video Processing

10-Bit processing from video input to output (SDI, Analog) & 8-Bit (DVI)  
**DigiScale** - accurate image resizing for faithful reproduction of all displayed sources  
**DigiView** - optimized video processing, deinterlacing and 3:2 pull-down

### Edge Blending

**DigiBlend**  
Edge blending for tiling of multiple projected images for array applications

### Geometry

**DigiWarp** (optional) - User definable control over all image geometry.  
Horizontal / vertical and keystone warp correction for both cylindrical and spherical displays.

### Seamless Crossfade (Optional)

Provides true crossfade between first and second path sources using optional second path DigiView and DigiScale processing cards

### Control

Side panel mounted keypad / LCD, IR/hard-wired remote control, external control via RS232, USB or LAN

### Auto-brightness

Maintains constant brightness for extended period - user selectable

### Lens Shift (Maximum, dependent on lens)

sx+: vert. - ±0.45V HD: up - 0.5V  
horiz. - ±0.28V down - 0.1V  
right - 0.17H  
left - 0.14H

### Lens Options

|                      |                   |
|----------------------|-------------------|
| Dsx+: 0.73 :1 fixed+ | HD: 1.0 :1 fixed+ |
| 1.45-1.8:1 zoom*     | 1.25-1.45:1 zoom* |
| 1.8-2.5 :1 zoom*     | 1.45-1.8 :1 zoom* |
| 2.5-4.5 :1 zoom*     | 1.8-2.4 :1 zoom*  |
| 4.5-7.3 :1 zoom*     | 2.2-3.0 :1 zoom*  |
|                      | 3.0-4.3 :1 zoom*  |

+ no motorized position and no memory

\* motorized position and memory

### Lamp Type

2kW compact Xenon lamp

### Lamp Life (Typical)<sup>1</sup>

1,000 hours

### Mechanical Mounting

Floor or ceiling; integrated handles and rigging frame with pitch, roll and yaw adjustments, flexible stacking/rigging points (optional on 10000Dsx+, standard on 16000Dsx+ / 14000HD)

### Dimensions (includes feet)

With stacking frame-  
40.1in(L) x 27.2in(W) x 21.5in(H)  
1018mm(L) x 690mm(W) x 547mm(H)  
Without stacking frame-  
36.5in(L) x 26.4in(W) x 16.8in(H)  
926mm(L) x 670mm(W) x 425mm(H)

### Weight (excludes lens)

185lbs (84kg) with stacking frame  
150lbs (68kg) without stacking frame

## Overview

Digital Projection proudly introduces our second-generation HIGHLIGHT Pro Series projectors. Combining true large-venue performance in a easy-to-handle chassis, the new 10000Dsx+, 16000Dsx+ and 14000HD set a higher standard for staging and major venue system installations.

Providing up to 14,000 ANSI lumens and rich contrast of up to 2000:1, the HIGHLIGHT Professional series are extraordinary projectors for business, command and control, public displays, education, commercial entertainment, worship, broadcast and Home Cinema. Their superior imaging performance and native sx+ or 2K resolution render them ideal solutions for immersive visualization, simulation and multi-unit "blended" array applications.

Beyond their compelling imaging, the HIGHLIGHT Professional series are highly functional and user-friendly. They can support any analog, digital video, HD or computer source, include four-side soft-edge blend and can also be configured to incorporate advanced options such as seamless cross-fade between sources and user-definable geometric warp. When outfitted with Digital Projection's exclusive RapidRig™ flying / stacking system with integrated pitch, roll and yaw adjustments, deploying fleets of HIGHLIGHT 'Pro series' projectors is a straightforward and time saving task.

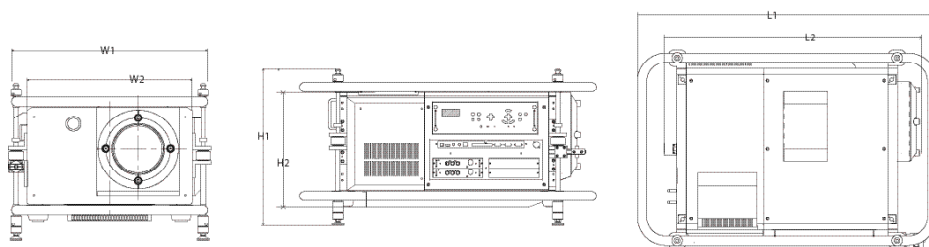
The HIGHLIGHT 10000Dsx+, 16000Dsx+ and 14000HD - powerful, adaptable and capable - bringing the precision of Digital Projection to every venue.

## INPUT CAPABILITIES

| Type                                                                   | Connector      | Quantity |
|------------------------------------------------------------------------|----------------|----------|
| Composite                                                              | BNC            | 1        |
| S-Video                                                                | 4-pin mini DIN | 1        |
| Component Interlaced/Std def Y, Cr/Pr, Cb/Pb, S                        | BNCx4          | 1        |
| Graphics Progressive RGB/Progressive Interlaced Hi def Y, Cr/Pr, Cb/PB | BNCx5          | 1        |
| RGBHV (Progressive)                                                    | D sub (15-pin) | 1        |
| Digital RGB                                                            | DVI            | 1        |
| Serial Digital SD/HD SDI (SMPTE 259M/292M)                             | BNC            | 1        |

Specifications subject to change without notice DP V2.0 06/07 ©2007 Digital Projection, Inc.

"DLP, Digital Light Processing and DMD are trademarks of Texas Instruments, Inc.



## Projector Dimensions

Projector dimensions with stacking frame (in)  
W1 27.2 H1 21.5 L1 40.1

Projector dimensions with stacking frame (mm)  
W1 690 H1 547 L1 1018

Projector dimensions without stacking frame (in)  
W2 26.4 H2 16.8 L2 36.5

Projector dimensions without stacking frame (mm)  
W2 670 H2 425 L2 926



HIGHlite 16000Dsx+ side panel

## ADVANCED TECHNICAL SPECIFICATIONS

| PARAMETERS                    |    |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Native Color Temperature      | 6500°K; nominal                                                                                                                                                                                                                                          |
| Scan Rates Supported          | Horizontal: 15kHz to 105kHz (RGB input: 31kHz to 105kHz)<br>Vertical: Dsx+: 24Hz to 96Hz with Synchronize Function "on", HD: 24Hz to 60Hz                                                                                                                |
| Remote Control                | Side panel keypad/LCD, remote control, external control via RS232 or LAN                                                                                                                                                                                 |
| Automation Control            | RS232 9-pin, LAN RJ45, contact closure (DSub 15-pin)                                                                                                                                                                                                     |
| Operating/Storage Temperature | Operating: -10 to 35°C / Storage: -10 to 50°C                                                                                                                                                                                                            |
| Operating Humidity            | 20 to 80% non-condensing                                                                                                                                                                                                                                 |
| Thermal Dissipation           | Dsx+: 9554 BTU/hr., HD: 10236 BTU/hr.                                                                                                                                                                                                                    |
| Fan Noise                     | 52dB                                                                                                                                                                                                                                                     |
| Power Requirements            | 200-240 VAC, 50/60Hz ±10%                                                                                                                                                                                                                                |
| Power Consumption             | Dsx+: 2800W, HD: 3000W                                                                                                                                                                                                                                   |
| Safety and EMC Regulations    | CE marked, UL approved, FCC class A compliant                                                                                                                                                                                                            |

### Projectors

HL 10000Dsx+  
HL 16000Dsx+  
HL 14000HD

### Part #

106-625  
106-260  
106-258

### Lenses

#### HD:

|           |          |         |
|-----------|----------|---------|
| 1.0       | :1 fixed | 103-350 |
| 1.25-1.45 | :1 zoom  | 104-700 |
| 1.45-1.8  | :1 zoom  | 104-701 |
| 1.8-2.4   | :1 zoom  | 104-702 |
| 2.2-3.0   | :1 zoom  | 104-703 |
| 3.0-4.3   | :1 zoom  | 104-704 |

### Lenses

#### Dsx+:

|          |          |
|----------|----------|
| 0.73     | :1 fixed |
| 1.45-1.8 | :1 zoom  |
| 1.8-2.5  | :1 zoom  |
| 2.5-4.5  | :1 zoom  |
| 4.5-7.3  | :1 zoom  |

### Part #

103-489  
103-490  
103-491  
103-492  
103-493

### Accessories

|                                                    |          |
|----------------------------------------------------|----------|
| Composite / component / S-video input module       | 001-726  |
| RGB HV / component input module                    | 001-722  |
| DVI-D input module                                 | 001-721  |
| SD-SDI / HD-SDI input module                       | 001-720  |
| Wireless LAN card                                  | 001-723  |
| Seamless switching (includes processor and scaler) | 001-729  |
| Geometry / warp board                              | 001-727  |
| Classic HIGHlite lens adapter                      | 104-020A |
| Infrared remote (replacement)                      | 102-190  |
| Ceiling mount (call for details)                   | 104-693  |
| Rapid Rig™ Frame (Option for 10000Dsx+)            | 105-194  |

<sup>1</sup> Based on 4-6 hour/day operational profile. Venue and application conditions may impact actual lamp life.  
See Digital Projection's Product Warranty Statement for details on lamp warranty.

