

## Key Features

- WXGA 1280 x 800
- 3,500 ANSI Lumens Brightness
- High Lumen Density (HLD) LED
- 30,000:1 Contrast Ratio
- 20,000 Hour Long Life Light Source
- High Performance 1.7 zoom lens
- Multiple Digital Inputs: HDBase™, HDMI x 2, and MHL™
- 360° Installation
- Quiet Operation (min. 21 dB)
- Suitable for Heavy Usage, Digital Signage and 24/7 Applications
- Supports Crestron Roomview, AMX and is Extron XTP Certified
- 5 years or 20,000 hr. warranty



## Innovative Single-Chip DLP® Projector with LED Technology Delivers Bright, Sharp Images, with Long Running Time and Low Maintenance.

Dukane's 8964WSS LED light source projector is the new result of the company's extensive technical knowledge and experience, delivering bright, sharp images, with long running time and low maintenance. With long life LED and no mercury lamp, the 8964WSS is both eco-friendly and sustainable. Utilizing its innovative HLD technology, Dukane is able to achieve new levels of brightness, producing 3,500 ANSI lumens with long lasting, high picture quality. The 8964WSS features a dust resistant structure to the optical engine which prevents dust from being able to interfere with interior parts, providing you with approximately 20,000 hours maintenance free operation and allows the projector to be used in a wide range of environments. The quiet operation and long life light source of the 8964WSS makes it a perfect choice for heavy use such as digital signage and 24/7 operation.



### DUKANE CORP

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## UNIQUE FEATURES

### Dust Resistant Sealed Engine

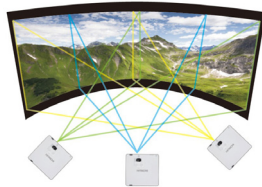


The air tight structure of the optical engine makes it possible to minimize dust particles entering which could eventually lead to a decrease in brightness. This construction gives the projector resistance to the effects of dust and enables the projector to be used in a wide variety of environments.

### Edge Blending

Projectors are equipped with the Edge Blending function that achieves the seamless projection of one image using multiple projectors. The 8964WSS comes with various blending functions that meet the level users are looking for.

**Instant blending:** Easily perform blending processing without the use of any special equipment.



### Geometric Correction (Warping)

Geometric correction is possible from your computer by using the specialized application. Projection is possible on spherical surfaces and surfaces with corners, as well as conventional flat screens.



### Maintenance Free Operation



Approximately 20,000 hours of maintenance free operation. There is no need to replace a lamp or air filter, providing a dramatic reduction in the total cost of ownership and time spent changing bulbs.

### 360° Rotation/Portrait Projection

Display rotation of 360° and portrait projection for creative applications and greater installation flexibility.



### Accentualizer

Dukane original technology makes pictures look more real by enhancing sharpness, gloss and shade to make pictures as clear as pictures on a flat-panel device. You can also adjust the effects by three levels according to your surroundings so that the colors of projected images are the actual colors of the objects they represent.



### HDCR (High Dynamic Contrast Range)

When average projectors are used in bright rooms, the darker colors of an image deteriorate and images become unclear. Using this function, blurred images caused by room lighting or outside light sources are corrected, and an effect similar to increasing contrast occurs. This results in clear images even in bright rooms.



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## UNIQUE FEATURES (cont'd)

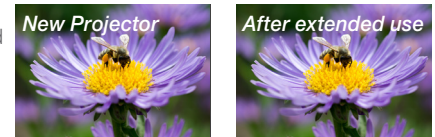
### Color Management



Allows you to change the HUE, SATURATION, LUMINANCE of each 6 colors (red, green, blue, cyan, magenta and yellow) without influencing each other. With this new technology, for example, you can change only bluish colors, such as the sky, while maintaining the other colors by adjusting the HUE of blue.

### Image Optimizer

The Image Optimizer automatically adjusts HDCR and Accentualizer to improve visibility as lamp brightness dims over time.



### High Performance Lens



Featuring a powerful 1.7 x zoom lens, the projector allows for a range of installation options. Users can manually shift the lens both horizontally and vertically in order to position an image on the screen without experiencing keystone distortion.

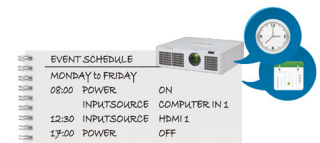
### Constant Bright Image



Constant Mode maintains fixed brightness and pictures through the use of an illumination sensor, meaning you can expect the same level of brightness even after 20,000 hours of operation.

### Easy Event Scheduling

Schedule routine and special projector events, including power on, power off, input selection and other settings



### Quick Start / Quick Off



The light source reaches its full brightness within 5 seconds of turning on. \*Set STANDBY MODE to QUICK START

## STANDARD FEATURES

### DICOM® Simulation Mode



Images in DICOM (Digital Imaging and Communications in Medicine) Mode are reproduced with an advanced grayscale level. This mode is ideal for viewing grayscale medical images such as X-rays, and for training and educational purposes. These projectors are not approved medical devices. They should not be used for actual medical diagnosis.

### Picture By Picture



Enables the content from two input sources to be displayed simultaneously, side by side on one screen. You can use two sources including 2 HDMI, with both images sharing equal screen size. The feature is ideal for teleconferencing applications.

### Picture In Picture



Enables you to display one image inside another image using two sources including 2 HDMI.

### Perfect Fit



Enables the user to adjust individual corners independent of one another. This feature helps correct geometric and complicated distortions. Perfect Fit allows the projected image to fit correctly to the screen quickly and easily.

### Wireless Presentation Compatible



Connect the projector to a computer or your network using the optional USB wireless adapter (part number USBWL11N). The adapter supports IEEE802.11b/g and 11n.



# 8964WSS DLP LED Projector



## New technology for high reliability and stability with a lower cost of ownership.

Dukane's innovative 8964WSS LED projector is truly a technology achievement with superior performance and reduced operating costs to save users time and money. Utilizing the new High Lumen Density (HLD) LED technology, the 8964WSS achieves new levels of brightness with an expected 20,000 hours maintenance free operation.



HLD works by channeling blue LED light into a phosphor rod, where it is discharged as a bright green light. Working in tandem with high brightness red and blue LED lights, it achieves an impressive 3,500 lumens and a 30,000:1 contrast ratio.

LED technology allows the projector to have a much longer life than traditional lamp based projectors, additionally, with no lamp or filter to replace LED projectors are a much more reliable and cost-effective choice with a lower total cost of ownership.



Front View



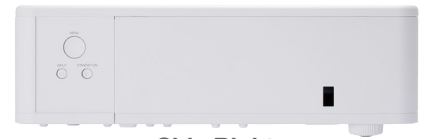
Rear View



Top View



Ceiling Mount

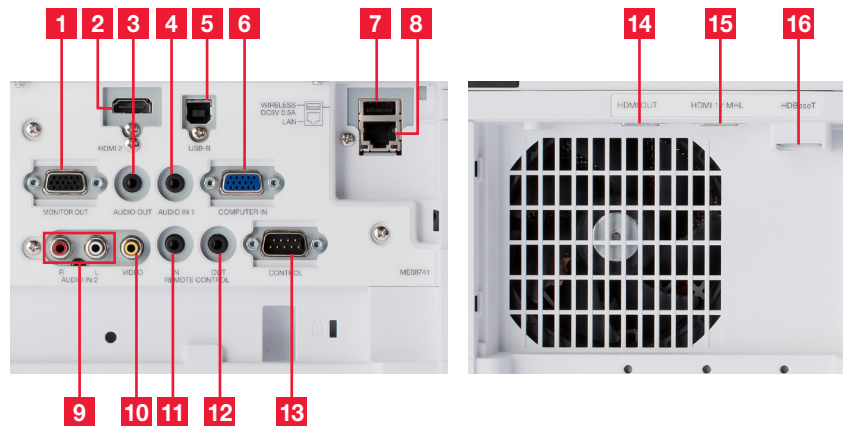


Side Right



Side Left (uncovered)

## Input/Outputs



- |                |                         |                        |
|----------------|-------------------------|------------------------|
| 1. Monitor Out | 6. Computer In          | 12. Remote Control Out |
| 2. HDMI 2      | 7. USB A (For Wireless) | 13. Control (RS-232C)  |
| 3. Audio Out   | 8. LAN                  | 14. HDMI Out           |
| 4. Audio In    | 9. Audio In 2 L/R       | 15. HDMI / MHL         |
| 5. USB Type B  | 10. Video               | 16. HDBaseT            |
|                | 11. Remote Control In   |                        |

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# 8964WSS

## Accessories and Lenses

<b>Supplied Accessories</b>	Remote control, power cord, AA batteries x 2, computer cable, lens cover, adapter cover, terminal cover A/B, security label, cable tie x 5, HDMI cable holder, HDMI cap x 2, HDBaseT cap
<b>Optional Accessories</b>	USBWL11N (USB wireless adapter) HL03131 (Wired remote control)
<b>Optional Lenses</b>	N/A
<b>Replacement Parts</b>	
<b>Remote Control</b>	HL03037

## Projection Throw Chart

Screen Size	16:10	Throw Distance			
		Diagonal	Width	Min	Max
30	25	34	60		
60	51	71	123		
80	68	95	164		
100	85	120	206		
200	170	241	414		
300	254	363	622		

Throw Ratio: 1.4 - 2.4 : 1 (distance : width)  
Screen size and throw distance are measured in inches.



## Specifications

Display	<b>Projection Technology</b>	Single Chip DLP
	<b>Resolution</b>	WXGA - 1280 x 800
	<b>Brightness</b>	3,500 ANSI lumens
	<b>Colors</b>	1.07 billion colors (frame lock on)
	<b>Aspect Ratio</b>	Native 16:10 and 4:3 / 14:9 / 16:9 zoom compatible
	<b>Contrast Ratio</b>	30,000:1
Operation	<b>Throw Ratio</b> (distance : width)	1.4 - 2.4 : 1
	<b>Focus Distance</b>	34" - 622"
	<b>Display Size</b>	30" - 300"
	<b>Lens</b>	Manual zoom x1.7, manual focus & lens shift
Compatibility	<b>Expected Light Source Life*</b>	Approximately 20,000 hours
	<b>Speaker Output</b>	16W
	<b>Keystone</b>	H and V: +/-30°
	<b>Computer</b>	VGA/SVGA/XGA/WXGA/SXGA/SXGA+/WSXGA+/HD/WUXGA/MAC 16"
	<b>H-Sync</b>	15.0 kHz - 106 kHz
	<b>V-Sync</b>	50 Hz - 120 Hz
	<b>Composite Video</b>	NTSC, NTSC4.43, PAL, PAL-M, -N, SECAM
	<b>Component Video</b>	480i, 480p, 576i, 576p, 720p@50/60, 1080i@50/60, 1080p@50/60
	<b>HDMI</b>	480i, 480p, 576i, 576p, 720p@50/60, 1080i@50/60, 1080p@24/50/60 Computer signal TMDS clock 25 MHz - 162 MHz
	<b>MHL</b>	480i, 480p, 576i, 576p, 720p@50/60, 1080i@50/60, 1080p@24/25/30/50/60 Computer signal TMDS clock 25 MHz - 75 MHz
Connectors	<b>Digital Input</b>	MHL x 1 (shared with HDMI), HDMI x 2 (one port is shared with MHL), HDBaseT x 1
	<b>Digital Output</b>	HDMI
	<b>Computer Input</b>	15-pin mini D-sub x 1
	<b>Computer Monitor Output</b>	15-pin mini D-sub x 1
	<b>Video Input</b>	
	<b>Composite Video</b>	RCA jack x 1
	<b>Component Video</b>	15-pin mini D-sub x 1 (shared with computer input)
	<b>Audio Input</b>	3.5 mm stereo mini jack x 1, 2RCA jack (L/R) x 1
	<b>Audio Output</b>	3.5 mm stereo mini jack x 1
	<b>Network (LAN) Wired</b>	RJ-45 port (10 base-T / 100 base-TX)
	<b>Network (LAN) Wireless</b>	USB-A, IEEE802.11 b/g/n - optional wireless adapter required
	<b>HDBaseT</b>	RJ-45 jack x 1
Ratings & Warranty	<b>USB</b>	Type A x 1 ( wireless adapter), Type B x 1 (mouse control)
	<b>Control Terminals</b>	9-pin D-sub x 1 (RS-232 control)
	<b>Remote Control IN</b>	3.5 mm stereo mini jack x 1
	<b>Remote Control OUT</b>	3.5 mm stereo mini jack x 1
	<b>Power Supply</b>	AC 100V - 120V (50/60Hz) , 5.6A AC 220V - 240V (50/60Hz) , 2.9A
	<b>Power Consumption</b>	AC 100V - 120V : 560W / AC 220V - 240V : 550W
	<b>Operating Temperature</b>	32°F - 104°F (0°C - 40°C)
	<b>Dimensions (W x D x H)</b>	18.6" x 17.9" x 5.2" (excluding protruding parts) Shipping 22.0" x 21.0" x 10.0"
	<b>Weight</b>	Approximately 32.0 lbs. / Shipping 38.0 lbs.
	<b>Approvals</b>	UL 60950-1 / cUL FCC Part 15 subpart B class A
<b>Warranty</b>	Five (5) year limited warranty plus Dukane's 1 year Peace of Mind Loaner Program	
<b>UPC</b>	605194006694	

\* Actual light source life will vary by individual light source based on environmental conditions, selected operating mode, user settings and usage. Hours of expected light source life specified are not guaranteed and do not constitute part of the product or light source warranty. Light source brightness decreases over time.

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