

## Key Features

- 3LCD Laser Projector
- WXGA 1280 x 800
- 6,000 ANSI Lumens Brightness
- 1,500,000 : 1 Contrast Ratio
- 50,000 Hours Light Source Life (Long life 2 mode)
- HDBaseT x 1, HDMI x 2 Inputs
- Lens Shift and Perfect Fit 2
- High Dynamic Contrast Range (HDCR2)
- 360° Installation



## Dukane expands solid state projector line with a 6,000 ANSI lumens, 3-chip LCD model delivering larger-than-life performance.

Dukane's solid state light source projector line now includes the laser light source 3LCD model 8960WSS with 6,000 ANSI lumens. The new laser phosphor light source offers approximately 20,000 hours (normal mode) of operation time and is virtually maintenance free, there is no lamp to replace providing a dramatic reduction in total cost of ownership. Ideal for digital signage applications, as well as a perfect choice for auditoriums, lecture halls, large classrooms, conference rooms and museums. Plus, 6,000 ANSI lumens brightness and 1,500,000 : 1 contrast ratio results in super bright display with outstanding image clarity and uniformity. Additionally a suite of advanced features includes High Dynamic Contrast Range (HDCR2), 2 HDMI ports, and Dukane's original technology Accentualizer. As with all Dukane projectors, you can expect vibrant image quality, cost-efficient operation, and long-lasting reliability. For added piece of mind, Dukane's 8960WSS is also backed by a generous 5-year warranty and our world-class service and support programs.



### DUKANE CORP.

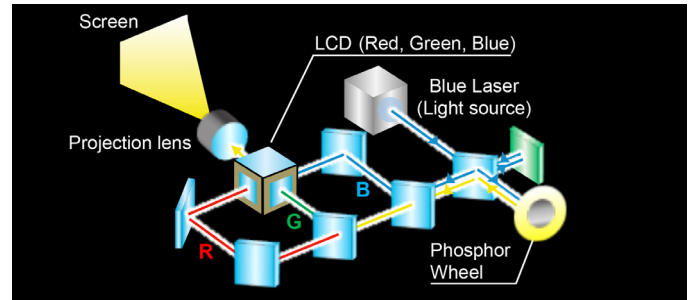
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## Long Life 20,000 Hours Laser Light Source

Light source combines blue laser diodes and phosphor which can achieve over 6,000 lumens. The projection image is bright and clear, with vivid colors. Since lamp replacement is unnecessary, maintenance cost is reduced and by not using mercury lamps, the projectors are eco-friendly.

Plus, Dukane's unique cooling system can achieve a low noise level of 27dB in whisper mode. The life of the light source is approximately 20,000 hours at normal mode but by using other modes which reduce the brightness or operation period, its life can be extended up to 50,000 hours. These mode settings can be used for different purposes depending on the application of the projector.



## UNIQUE FEATURES

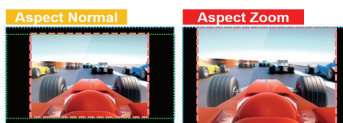
### Accentualizer

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.



### Aspect Zoom

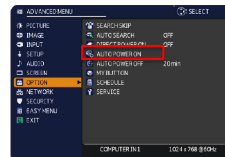
Aspect Zoom makes the maximum image size on the screen while keeping the aspect of the image.



### Auto Power On

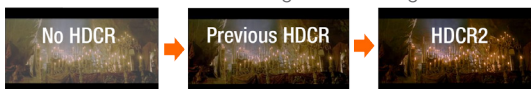
When the projector is in standby mode and detects the video signal input from an external device, this function starts up the projector to display the image automatically on the screen. This makes the time to start up the projector and begin presenting quicker and easier.

- This function is unavailable when STANDBY MODE is set to NETWORK(WOL) or SAVING.
- This function may work unintentionally by connected external device.



### HDCR2 (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. The recent enhancement to HDCR2 achieves not only auto tone enhancement but also auto color enhancement. This results in clear and vivid images even in bright rooms.



### Cloning Function

Copy setting data from one projector to others of the same model via the Projector Data Cloning Application. Cloning not only saves almost all PJ settings such as gamma and keystone, it saves countless hours in setup and installation.

### Perfect Fit 2

Enables the user to adjust individual corners and sides independent of one another. Perfect Fit 2 provides vertical and horizontal digital correction of either barrel or pin cushion distortions. This feature helps correct geometric and complicated distortions. Perfect Fit 2 allows the projected image to fit correctly to the screen quickly and easily.

## Projector Quick Connection App For Mobile Devices



Our iOS and Android applications offers projector control and also provides the capability to display photos, document files and web site contents. Available for iPad®, iPhone® and Android devices. Works over your LAN via your RJ-45 port or via an optional USBWL5G wireless adapter.

## STANDARD FEATURES

### Input Source Naming



Users can name input sources in simple language instead of factory default names.

### Lens Shift

Lens shift can adjust the position of image on the screen by turning the adjusters manually. This adjustment is useful to fit the image to the position without causing keystone distortion.



### Network Control, Maintenance and Security



Embedded networking gives you the ability to manage and control multiple projectors over your LAN. Features include scheduling of events, centralized reporting, image transfer and e-mail alerts for reactive and routine maintenance.

### 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.

### PIN Lock / MyScreen / MyText



PIN lock protection can limit projector users. MyScreen PIN lock keeps captured images on the startup screen. Users can set any name logo to MyScreen, clearly identifying ownership. MyText provides the ability to write text on the startup screen such as model name, serial number or location.

### 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.

### Wireless Presentation Compatible



Connect the projector to a computer or your network using the optional USB wireless adapter (part number USBWL5G). The adapter supports IEEE802.11 a/b/g/n/ac.

### 360° Rotation/Portrait Projection



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

# 8960WSS LCD Laser Projector



## Enhance the experience with Dukane's 8960WSS.

The 8960WSS LCD Laser projector from Dukane is specifically designed to enhance the visual experience — from the audience to presenters. Vivid colors. Bold graphics. Crisp text. The 8960WSS does it all in environments of all sizes. With 6,000 ANSI lumens of brightness and WXGA 1280 x 800 resolution, the 8960WSS provides the perfect compatible solution.



It also features a high contrast ratio, long life, cloning function enabling you to copy settings data from one projector to others of the same model, and is wireless presentation ready. Plus, embedded networking gives you the ability to manage and control multiple projectors over your LAN (scheduling of events, centralized reporting, image transfer, and email alerts). Best of all, the high performance 8960WSS is exceptionally reliable and offers a very low cost of ownership.



Front View



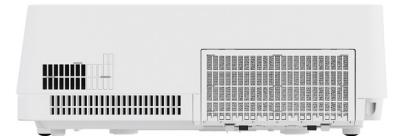
Top View



Rear View



Ceiling Mount

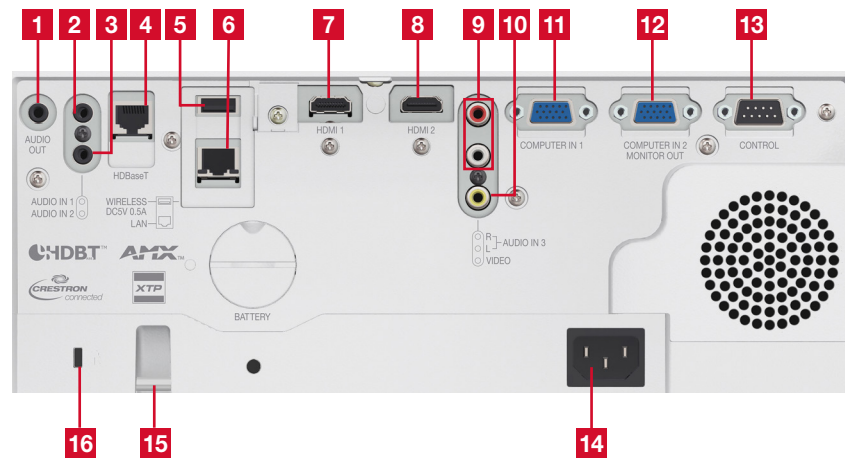


Side Left



Side Right

## Input/Outputs



- |               |                       |                                |                       |
|---------------|-----------------------|--------------------------------|-----------------------|
| 1. Audio Out  | 5. Wireless DC5V 0.5A | 9. Audio In 3 L/R              | 13. Control (RS-232C) |
| 2. Audio In 1 | 6. LAN                | 10. Video                      | 14. AC Power          |
| 3. Audio In 2 | 7. HDMI 1             | 11. Computer In 1              | 15. Security Bar      |
| 4. HDBaseT    | 8. HDMI 2             | 12. Computer In 2/ Monitor Out | 16. Kensington Lock   |

# 8960WSS

### DUKANE CORP.

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## Accessories and Lenses

<b>Supplied Accessories</b>	Remote control, power cord, computer cable, AA batteries x 2, security label, lens cover, Hook metal, HDMI cable holder, cable tie for HDMI x 2, cable tie for power x 1
<b>Optional Accessories</b>	USBWL5G wireless adapter
<b>Optional Lenses</b>	N/A
<b>Replacement Parts</b>	
<b>Lamp</b>	Lamp free
<b>Remote Control</b>	HL03037
<b>Filter</b>	UX43581

## Projection Throw Chart (In inches)

Screen Size 16:10			
Diagonal	Width	Minimum	Maximum
30	25	27	47
60	51	60	101
80	68	83	137
100	85	105	173
200	170	217	354
300	254	328	534

Throw Ratio: (distance : width)  
1.3 - 2.1 : 1

## Specifications

Display	<b>Projection Technology</b>	3 LCD, 3 chip technology
	<b>Resolution</b>	WXGA 1280 x 800
	<b>Brightness</b>	6,000 ANSI lumens
	<b>Colors</b>	1.07 billion colors
	<b>Aspect Ratio</b>	Native 16:10, 4:3, 16:9, 14:9 and zoom compatible
	<b>Contrast Ratio</b>	1,500,000 : 1 (Dynamic Black on)
Operation	<b>Throw Ratio</b> (distance : width)	1.3 - 2.1 : 1
	<b>Focus Distance</b>	27" - 534"
	<b>Display Size</b>	30" - 300"
	<b>Lens</b>	f = 18.2 - 29.2 mm, x 1.6 manual zoom, focus and lens shift
	<b>Lens Shift</b>	Manual (V: 0 ~ 56.5%, H: +/- 4.6%)
	<b>Expected Light Source Life*</b>	Approx. 20,000 hours (Normal and whisper modes), 30,000 hours (Long life 1 mode), 50,000 hours (Long life 2 mode)
Compatibility	<b>Expected Filter Life**</b>	Approx. 20,000 hours
	<b>Speaker Output</b>	16W
	<b>Keystone</b>	H and V +/- 30°
	<b>Computer</b>	VGA/SVGA/XGA/WXGA/SXGA/WXGA/WXGA+/WXGA++/WSXGA+/HD/UXGA/Mac 16
	<b>H-Sync</b>	15 kHz - 106 kHz
	<b>V-Sync</b>	50 Hz - 120 Hz
Connectors	<b>Composite Video</b>	NTSC, NTSC4.43, PAL, PAL-M, -N, SECAM
	<b>Component Video</b>	480i, 480p, 576i, 576p, 720p, 1080i, 1080p
	<b>HDMI</b>	480i, 480p, 576i, 576p, 720p, 1080i, 1080p Computer signal TMDS clock 25 MHz - 162 MHz 4K (3840 x 2160p@24/25/30, 4096 x 2160p@24)* *HDMI1 and HDBaseT only
	<b>Digital Input</b>	HDBaseT x 1, HDMI x 2 (HDCP Compliant)
	<b>Computer Input 1</b>	15-pin mini D-sub x 1
	<b>Computer Input 2</b>	15-pin mini D-sub x 1
Ratings & Warranty	<b>Computer Monitor Output</b>	15-pin mini D-sub x 1 (shared with Computer In 2)
	<b>Video Input</b>	
	<b>Composite Video</b>	RCA jack x 1
	<b>Component Video</b>	15-pin mini D-sub x 2 (shared with computer in 1/2)
	<b>Audio Input</b>	3.5 mm stereo mini jack x 2, RCA 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 a/b/g/n/ac - optional wireless adapter required
	<b>HDBaseT</b>	RJ-45 port x 1
	<b>USB</b>	Type A x 1 (Wireless adapter), Type B x 1 (Service)
Ratings & Warranty	<b>Control Terminals</b>	9-pin D-sub x 1 (RS-232 control)
	<b>Power Supply</b>	AC100-120V / AC220-240V, 50/60Hz
	<b>Power Consumption</b>	360W/350W
	<b>Operating Temperature</b>	32° - 104° (0°C - 40°C) under 5,250 ft. 32° - 95° (0°C - 35°C) 5,250 ft. - 10,000 ft.
	<b>Dimensions (W x D x H)</b>	19.9" x 16.7" x 5.3" (excluding protrusions) Shipping 22.0" x 19.0" x 9.0" (estimated)
	<b>Weight</b>	Approximately 18.1 lbs. / Shipping 24.0 lbs. (estimated)
	<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>	605194007080



All specifications subject to change without notice.  
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\* Actual light source life will vary by individual light source based on environmental conditions, selected operating mode, user settings and usage. Hours of average 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.

\*\* Actual filter life will vary by individual filter based on environmental conditions, selected operating mode, user settings and usage. Hours of expected filter life specified are not guaranteed and do not constitute part of the product warranty.

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