

**Designed for academic achievement in larger classrooms, corporate boardrooms and campus standard.**



## Key Features

- XGA 1024 x 768 resolution
- 5,800 ANSI lumens white/color output
- 10000:1 contrast ratio
- 4,000 hours lamp life (Standard mode); 6,000 hours lamp life (Eco mode)\*
- Edge Blending & Warping
- HDCR / Accentualizer / Image Optimizer
- Convenient Networking / Wireless Capability
- Smart Device Control
- HDMI-Out

### DUKANE CORP

Audio Visual Products  
2900 Dukane Drive, St. Charles, Illinois 60174  
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The 8963 combines XGA 1024 x 768 resolution with super-bright 5,800 ANSI lumens white/color light output for a stunning visual achievement. It can transform classrooms, lecture halls, and auditoriums into true learning centers. The 8963 is easily stackable which enables you to place one projector on top of another to project the same image from both onto a screen for added brightness. Incorporating Dukane's leading-edge technology, the 8963 features an image-enhancing combination of Accentualizer, High Dynamic Contrast Range (HDCR) and Image Optimizer, all of which contribute to the overall visual experience. Plus, Dukane's Intelligent Eco and Saver Modes with ImageCare combines optimal picture performance with maximum energy savings for a lower cost of ownership. For added peace of mind, Dukane's 8963 is also backed by a generous warranty and our world-class service and support programs.



# 8963



## UNIQUE FEATURES

### Accentualizer

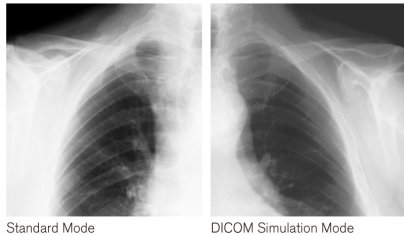
Dukane original technology makes pictures look more real by enhancing sharpness, gloss and shade to make pictures as clear as pictures on a flat-panel device. You can also adjust the effects by three levels according to your surroundings so that the colors of projected images are the actual colors of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



### DICOM® Simulation Mode

The DICOM (Digital Imaging and Communications in Medicine) Simulation Mode projects grayscale images which approximate DICOM Part 14 specifications. This mode is ideal for viewing grayscale medical images, such as X-rays, for training and educational purposes.

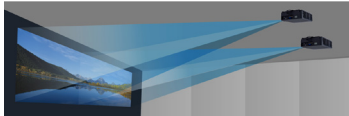
The projectors have a DICOM (Digital Imaging and Communications in Medicine) Simulation Mode. This mode simulates the DICOM standard, which is a standard applicable to digital communications in medicine, and is useful for displaying medical images such as X-rays. These projectors are not medical devices and are not compliant with the DICOM standard, and neither the projector nor the DICOM Simulation Mode should be used for medical diagnosis. Comparison photos are simulations.



### Edge Blending

Projectors are equipped with the Edge Blending function that achieves the seamless projection of one image using multiple projectors. The 5000 series comes with various blending functions that meet the level users are looking for.

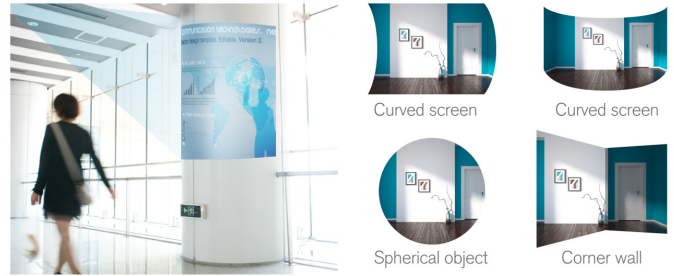
**Instant blending:** Easily perform blending processing without the use of any special equipment.



Instant Blending

### Warping

Warping 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.



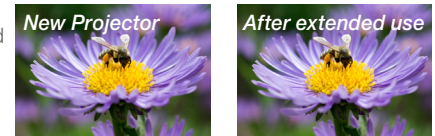
### HDCR (High Dynamic Contrast Range)

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.



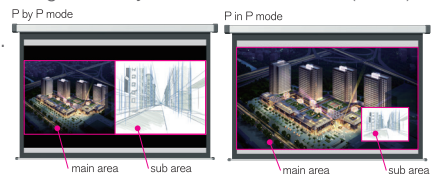
### Image Optimizer

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



### Picture by Picture and Picture in Picture

Images from two input signals at the same time. Picture by Picture (P by P) enables you to compare two images side by side. Picture in Picture (P in P) enables you to display one image within another image. These functions are handy when you need to compare two sets of data or other material.



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## STANDARD FEATURES

**Easily Stackable:** Using the lens shift and the perfect fit you can easily stack two units for two times the light output.

**H Lens Shift:** For ease of installation, H Lens Shift allows you to move the image without having to physically move the projector

**HDMI-Out:** When sharing content on multiple screens by multiple projectors, HDMI-Out is used to bring the content signal from one projector to another.

**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.

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

**Picture Shift:** Enables the user to fit or align contents to the screen by shifting the content area vertically.

**PJMessenger:** PJMessenger function allows you to send and display text messages and audio alerts on your networked projectors. It is an easy and efficient way to send announcements out to multiple units.

**Projector Quick Connection App For Mobile Devices:** Our iOS application offers full 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 USBWL11N wireless adapter.

**Wired and Wireless Switcher Solutions:** Multifunctional switcher operates in conjunction with the receiver to provide expanded source selection and switching options for connected devices. The switcher is sold as an optional accessory that can provide 1080p 30 fps wireless via WHDI for both video and audio.

**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 the latest 11n.



Front View



Top View



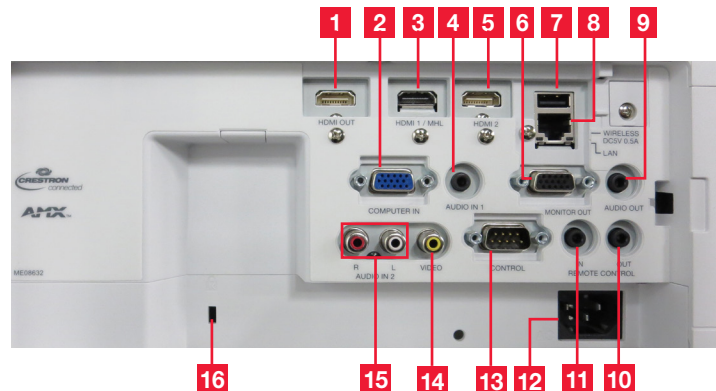
Stackable



Left Side Profile



Right Side Profile



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

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# 8963



## Accessories and Lenses

<b>Supplied Accessories</b>	Remote control, power cord, computer cable, AA batteries x2, security label, user's manual CD, user's manual, application CD
<b>Optional Accessories</b>	Wireless adapter (USBWL11N), HAS-9110 bracket, HAS-204L standard adapter, HAS-304H long adapter, wired remote HL03131
<b>Replacement Parts</b>	
<b>Lamp</b>	456-8960W
<b>Remote Control</b>	HL03037
<b>Filter</b>	UX41161

## Projection Throw Chart (In inches)

Screen Size 4:3		Throw Distance	
Diagonal	Width	Min	Max
30	24	31	52
60	48	65	107
80	64	88	144
100	80	111	180
200	160	224	364
300	240	338	548

Throw Ratio: 1.4 - 2.3 :1 (distance : width)

## Specifications

Display	<b>Projection Technology</b>	3LCD, 3 chip technology
	<b>Resolution</b>	XGA 1024 x 768
	<b>White Light Output</b>	5,800 ANSI lumens
	<b>Color Light Output</b>	5,800 ANSI lumens
	<b>Colors</b>	16.7 million colors
	<b>Aspect Ratio</b>	Native 4:3/14:9, 16:9 and 16:10 compatible
	<b>Contrast Ratio</b>	10000 : 1 (using active IRIS)
Lens & Operation	<b>Throw Ratio</b> (distance : width)	1.4 - 2.3 : 1
	<b>Focus Distance</b>	114" - 181"
	<b>Display Size</b>	31" - 548"
	<b>Lens</b>	f = 18.2 - 29.4, x 1.6 manual zoom, focus & lens shift
	<b>Lamp Wattage</b>	300W
	<b>Expected Lamp Life*</b>	Approximately 4,000 hours (standard mode) 6,000 hours (Eco mode)
	<b>Expected Filter Life**</b>	Approximately 10,000 hours
Compatibility	<b>Speaker Output</b>	16W
	<b>Keystone</b>	H and V: +/- 30°
	<b>Computer</b>	VGA, SVGA, XGA, WXGA, WXGA+/SXGA/SXGA+/WSXGA+/UXGA/WUXGA, MAC 16"
	<b>H-Sync</b>	15 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, 720p, 1080i, 1080p
Connectors	<b>HDMI</b>	480i, 480p, 576i, 720p, 1080i, 1080p, Computer signal TMDS clock 27 MHz - 150 MHz
	<b>Digital Input</b>	HDMI x 2
	<b>Computer Input</b>	15-pin mini D-sub x 1
	<b>Computer Monitor Output</b>	15-pin mini D-sub x 1, HDMI x 1
	<b>Video Input</b>	
	S-Video	N/A
	Composite Video	RCA jack x 1
Component Video	15-pin mini D-sub x 1 (shared with computer In)	
<b>Audio Input</b>	3.5 mm stereo mini jack x 1, 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 b/g/n - optional wireless adapter required	
<b>HDBaseT</b>	N/A	
<b>USB</b>	Type A x 1 (wireless network)	
<b>Control Terminals</b>	9-pin D-sub x 1 (RS-232 control)	
Ratings & Warranty	<b>Power Supply</b>	AC100-120V / AC220-240V, 50/60Hz
	<b>Power Consumption</b>	440W / 420W
	<b>Operating Temperature</b>	32°F - 95°F (0°C-35°C) (Standard) 32°F - 104°F (0°C-40°C) (Eco Mode)
	<b>Dimensions (W x D x H)</b>	18.1" x 13.1" x 5.4" (excluding protruding parts) Shipping 23" x 19" x 10"
	<b>Weight</b>	Approximately 14 lbs. / Shipping 19 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>	605194005369	

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

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



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