

**Breakthrough classroom performance  
with incredible picture quality, high reliability,  
and lower cost of ownership.**



## Key Features

- XGA 1024 x 768 resolution
- 3,000 ANSI lumens brightness
- 10,000:1 contrast ratio
- 4,500 hours lamp life (Standard mode)  
6,000 hours lamp life (Eco mode)\*
- 3D Ready



Dukane's 8421A DLP® projector represents the new standard for classroom environments and versatility with high resolution XGA performance, an innovative feature set and overall value. The 8421A incorporates 3,000 ANSI lumens brightness and a 10,000:1 contrast ratio for vibrant, bold images with deeper black levels and razor-sharp text. Performance versatility is enhanced by HDMI terminals which accommodate many types of AV devices. Plus, Dukane's Intelligent Eco and Saver Modes with ImageCare combines optimal picture performance with energy savings for a lower cost of ownership. For added peace of mind, Dukane's 8421A is also backed by a generous warranty and our world-class service and support programs.



*The wireless remote control enables you to easily control a full complement of projector functions.*

## DUKANE CORP

Audio Visual Products  
2900 Dukane Drive, St. Charles, Illinois 60174  
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# 8421A



## SPECIFICATION HIGHLIGHTS

### 10,000:1 Contrast Ratio



Contrast can be automatically controlled through an active iris to add depth perspective during both bright and dark scenes.

### HDMI Input (HDCP)



Digital connectivity allows for highest image quality from your HD device. Compliancy with HDCP.

### 6,000 Hour Lamp Life (Eco mode)\*



Another key to low total cost of ownership is a long life lamp. The lamp is rated at 4,500 hours in standard mode and 6,000 hours in Eco mode.

### Power Saving Standby Mode



Power saving mode reduces the standby power consumption to less than 0.5W.

## UNIQUE FEATURES

### ImageCare Technology



ImageCare is a lamp power control function that combines optimal picture performance with maximum energy savings by decreasing energy usage, improving contrast ratio and lengthening lamp life. The result is a lower total cost of ownership and decreased maintenance cost.

### Intelligent Eco and Saver Modes



Automatically changes the brightness of the lamp according to the brightness level of the screen. Also, automatically changes the brightness of the lamp if there is no change in the screen image. Using ImageCare technology, these features give optimal picture performance with maximum energy savings.

## STANDARD FEATURES

### BrilliantColor™



BrilliantColor technology is setting a new standard in color performance. BrilliantColor offers color processing to enhance color performance for rich, vibrant and accurate colors.



### DLP® Technology



DLP technology was invented, developed and is owned by Texas Instruments. The DLP chip is a digital semiconductor that contains millions of microscopic mirrors. These projectors use DLP technology to project images with amazing quality.

### Easy Maintenance



Easy maintenance is another attractive function, as the lamp door is on top of the model.

### 3D Capable



Discover the teaching advantages of 3D! This DLP projector offers the latest trend for the classroom with 3D viewing. It will engage your students and can improve the learning process. 3D glasses and a special graphic card are required for 3D viewing and are not included with the projector.

### Wall Color Correction



This feature corrects the color of images projected on surfaces that are not white to prevent color differences between the source and projections. Five wall color modes include light yellow, light green, blue, black board and pink.

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# 8421A DLP Projector



## Enhance the educational experience with Dukane's 8421A.

The 8421A DLP® projector from Dukane is specifically designed to enhance the educational experience — for students and teachers. Leading edge DLP® projector technology helps stimulate the imagination of students of all ages and makes lessons become more interesting, compelling and memorable. Vivid colors. Deeper blacks. Bold graphics. Crisp



text. The 8421A does it all in classrooms of all sizes. With 3,000 ANSI lumens brightness, XGA 1024 x 768 resolution, the 8421A provides the perfect solution. It also features exceptional reliability, a high contrast ratio, HDMI terminals so you can connect many types of AV devices, and wall color correction which corrects the colors of images projected on surfaces that are not white. With Dukane's 8421A, learning has never been easier, more enjoyable or so engaging.



Front View



Rear View



Left Side Profile

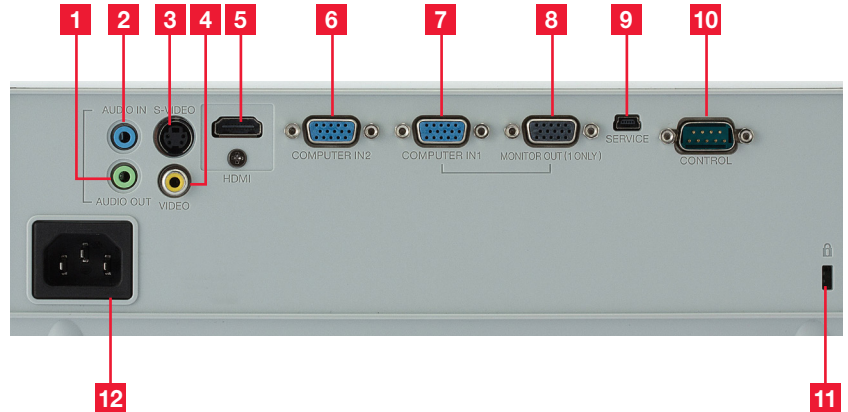


3/4 View



Right Side Profile

## Input/Outputs



- |              |                         |                       |
|--------------|-------------------------|-----------------------|
| 1. Audio Out | 5. HDMI                 | 9. Service            |
| 2. Audio In  | 6. Computer in 2        | 10. Control (RS-232C) |
| 3. S-Video   | 7. Computer in 1        | 11. Lock              |
| 4. Video     | 8. Monitor Out (1 only) | 12. AC In             |

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# 8421A



Accessories	
<b>Supplied Accessories</b>	Remote control, power cord, computer cable, lithium battery x 1
<b>Optional Accessories</b>	N/A
Replacement Parts	
<b>Lamp</b>	456-8421A
<b>Remote Control</b>	HL02961

**Projection Throw Chart (In inches)**

Diagonal	Screen Size 4:3		Throw Distance	
	Width	Min	Max	
60	48	94	103	
70	56	110	120	
80	64	125	138	
90	72	141	155	
100	80	156	172	
120	96	188	207	
150	120	235	258	
200	160	313	344	
250	200	391	430	

Throw Ratio: (distance : width)  
1.96 - 2.15 : 1

Specifications		
Display	<b>Projection Technology</b>	Single chip DLP
	<b>Resolution</b>	XGA 1024 x 768
	<b>Brightness</b>	3,000 ANSI lumens
	<b>Colors</b>	1.07 billion colors
	<b>Aspect Ratio</b>	Native 4:3 / 16:9 compatible
	<b>Contrast Ratio</b>	10,000 : 1
	<b>Throw Ratio (distance : width)</b>	1.96 - 2.15 : 1
Lens & Operation	<b>Focus Distance</b>	94" - 310"
	<b>Display Size</b>	60" - 250"
	<b>Lens</b>	f = 22 - 24.1 mm
	<b>Lamp Wattage</b>	196W
	<b>Expected Lamp Life*</b>	Approximately 4,500 hours (standard mode) 6,000 hours (Eco mode)
Compatibility	<b>Expected Filter Life</b>	N/A
	<b>Speaker Output</b>	2W x 1
	<b>Keystone</b>	+/- 30° vertical only
	<b>Computer</b>	VGA, SVGA, XGA, WXGA/WXGA+/SXGA/SXGA+/WSXGA+/UXGA/WUXGA (compressed), MAC 16"
	<b>H-Sync</b>	31.5 kHz - 102 kHz
Connectors	<b>V-Sync</b>	59.9 Hz - 120 Hz
	<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
	<b>Digital Input</b>	HDMI x 1 (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
	<b>Computer Monitor Output</b>	15-pin mini D-sub x 1
	<b>Video Input</b>	
	<b>S-Video</b>	Mini DIN 4-pin x 1
	<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 1
Ratings & Warranty	<b>Audio Output</b>	3.5 mm stereo mini jack x 1
	<b>Network LAN Wired</b>	N/A
	<b>Network LAN Wireless</b>	N/A
	<b>USB</b>	Type B x 1 (firmware update)
	<b>Control Terminals</b>	9-pin D-sub x 1 (RS-232 control)
	<b>Power Supply</b>	AC90-132V / AC198-264V, 50/60Hz
	<b>Power Consumption</b>	250W
	<b>Operating Temperature</b>	32°F - 95°F (0°C - 35°C)
	<b>Dimensions (W x D x H)</b>	12.4" x 8.2" x 3.5" (excluding protruding parts) Shipping 14.0" x 11.0" x 9.0"
	<b>Weight</b>	Approximately 5.1 lbs. / Shipping 11.0 lbs.
<b>Approvals</b>	UL 60950-1 / cUL FCC Part 15 subpart B class B	
<b>Warranty</b>	Five (5) year limited warranty plus Dukane's 1 year Peace of Mind Loaner Program	
<b>UPC</b>	605194005499	

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



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