



# Technical Specifications





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These specifications list the current system specifications at the date of publication.  
Specifications can change at any time.

Customers seeking additional information not mentioned should contact Main Light.

### **Product Patents**

US: 10,708,915

PCT/US2005/009876

### **SERVICES FOR THE PROFESSIONAL ENTERTAINMENT INDUSTRY**



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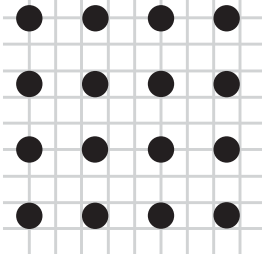
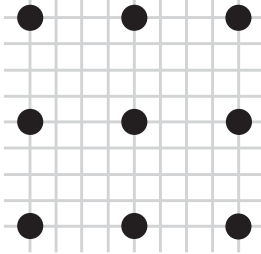
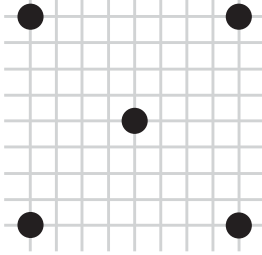
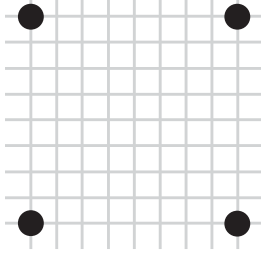


# Technical Specifications

## NODE INFORMATION

	<p>Mounting: Surface Mount LED          Color Range: 16 million additive RGB Colors          Intensity: Continuously variable          Rating: IP66 Outdoor Available          Options:</p> <ul style="list-style-type: none"> <li>• Frosted Lenses</li> <li>• Clear Lenses</li> </ul>
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## RESOLUTION INFORMATION

Standard Resolutions	
 <p>Soft-LED 2.5            2.5" x 2.5"            (64mm x 64mm)</p>	 <p>High Resolution            4" x 4"            (102mm x 102mm)</p>
 <p>Medium-X Resolution            8" x 4"            (204mm x 102mm)</p>	 <p>Medium Resolution            8" x 8"            (204mm x 204mm)</p>
<p>Custom Resolutions Available</p>	



# Technical Specifications

## STANDARD WEIGHTS (PER SQUARE FOOTAGE)

### Fabric Panels

Soft-LED 2.5: .93 lbs/ft<sup>2</sup> (4.5 kg/m<sup>2</sup>)  
 High Resolution: .50 lbs/ft<sup>2</sup> (2.4 kg/m<sup>2</sup>)  
 Medium-X Resolution: .35 lbs/ft<sup>2</sup> (1.7 kg/m<sup>2</sup>)  
 Medium Resolution: .21 lbs/ft<sup>2</sup> (1.0 kg/m<sup>2</sup>)

### Scrim Panels

High Resolution (with liner): .44 lbs/ft<sup>2</sup> (2.2 kg/m<sup>2</sup>)  
 High Resolution (without liner): .39 lbs/ft<sup>2</sup> (1.9 kg/m<sup>2</sup>)

## DRAPERY/PANEL MATERIALS

### Fabric Panels

Face Material: 22oz. Encore Synthetic IFR

A Velour fabric using 100% polyester in the warp and fill.				
	ASTM	Warp	Fill	Typical
Tensile Strength [Grab] (lbf)	D5034	60.0	147.0	-
Tensile Strength [Strip] (lbf)	D5055	23.0	100.0	-
Tear Strength [Tongue] (lbf)	D2261	5.0	12.0	-
Tear Strength [Trapezoidal] (lbf)	D5587	32.0	52.0	-

Liner Material: 8.5oz. Celtic Polyester IFR

### Scrim Panels

Face Material: Textilene

A heavy woven fabric using .025" diameter vinyl coated 1000 denier polyester core yarn in the warp and fill.				
	ASTM	Warp	Fill	Typical
Weight (oz/yd <sup>2</sup> )	D3776	-	-	8.8
Tensile Strength [Grab] (lbf)	D5034	224.8	175.3	-
Tensile Strength [Strip] (lbf)	D5035	184.7	142.7	-
Tear Strength [Trapezoidal] (lbf)	D1117-14	87.1	53.0	-
Abrasion Resistance	D3884	No exposure of core yarn		-
Weatherability (1200 hours)	G53	Trace Discoloration		-
Mildew Resistance	G21	No growth		-

Liner Material: 8.5oz. Celtic Polyester IFR





# Technical Specifications

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## STANDARD PANELS

### Fabric Panels

#### Soft-LED 2.5 (10' x 20')

Dimensions: 10'1" x 20'11" (3.1m x 6.4m)

Weight: 198 lbs. (90 kg)

Requires: Two High Density Power Supply Racks

Connections: Four Male Ramtech Ramlatch Connectors

Tail Length: -- ft (--m)

4800 Nodes

#### Soft-LED 2.5 (6' x 31')

Dimensions: 6'9" x 31'4" (2m x 9.5m)

Weight: 198 lbs. (90 kg)

Requires: Two High Density Power Supply Racks

Connections: Four Male Ramtech Ramlatch Connectors

Tail Length: -- ft (--m)

4800 Nodes

#### High Resolution (Double Panel)

Dimensions: 16'1" x 33'5" (5m x 10m)

Weight: 256 lbs. (116 kg)

Requires: Two High Density Power Supply Racks

Connections: Four Male Ramtech Ramlatch Connectors

Tail Length: -- ft (--m)

4800 Nodes

#### High Resolution (Square)

Dimensions: 16'1" x 16'9" (5m x 5.1m)

Weight: 128 lbs. (58 kg)

Requires: One High Density Power Supply Rack

Connections: Two Male Ramtech Ramlatch Connectors

Tail Length: -- ft (--m)

2400 Nodes

#### High Resolution

Dimensions: 8'1" x 33'5" (2.5m x 10m)

Weight: 128 lbs. (58 kg)

Requires: One High Density Power Supply Rack

Connections: Two Male Ramtech Ramlatch Connectors

Tail Length: -- ft (--m)

2400 Nodes



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# Technical Specifications

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## STANDARD PANELS (CONTINUED)

### Fabric Panels (Continued)

#### High Resolution (8' x 16')

Dimensions: 8'1" x 16'9" (2.5m x 5.1m)

Weight: 64 lbs. (29 kg)

Requires: Half of One High Density Power Supply Rack

Connections: One Male Ramtech Ramlatch Connector

Tail Length: -- ft (--m)

1200 Nodes

#### Medium-X Resolution

Dimensions: 16'1" x 33'5" (5m x 10m)

Weight: 184 lbs. (84 kg)

Requires: One High Density Power Supply Rack

Connections: Two Male Ramtech Ramlatch Connectors

Tail Length: -- ft (--m)

2327 Nodes

#### Medium Resolution

Dimensions: 16'1" x 33'5" (5m x 10m)

Weight: 111 lbs. (50 kg)

Requires: Half of One High Density Power Supply Rack

Connections: One Male Ramtech Ramlatch Connector

Tail Length: -- ft (--m)

1200 Nodes



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# Technical Specifications

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## STANDARD PANELS (CONTINUED)

### Scrim Panels

#### High Resolution (Square)

Dimensions: 16'1" x 16'9" (5m x 5.1m)  
Weight (with liner): 120 lbs. (54.5 kg)  
Weight (without liner): 106 lbs. (48 kg)  
Requires: One High Density Power Supply Rack  
Connections: Two Male Ramtech Ramlatch Connectors  
Tail Length: -- ft (--m)  
2400 Nodes

#### High Resolution

Dimensions: 8'1" x 33'5" (2.5m x 10m)  
Weight (with liner): 120 lbs. (54.5 kg)  
Weight (without liner): 106 lbs. (48 kg)  
Requires: One High Density Power Supply Rack  
Connections: Two Male Ramtech Ramlatch Connectors  
Tail Length: -- ft (--m)  
2400 Nodes

#### High Resolution (8' x 16')

Dimensions: 8'1" x 16'9" (2.5m x 5.1m)  
Weight (with liner): 60 lbs. (27 kg)  
Weight (without liner): 53 lbs. (24 kg)  
Requires: Half of One High Density Power Supply Rack  
Connections: One Male Ramtech Ramlatch Connector  
Tail Length: -- ft (--m)  
1200 Nodes





# Technical Specifications

## POWER SUPPLY RACKS

### Broadway Box



#### Dimensions:

- Standard: 12" H x 6.5" D x 39" W  
(31cm H x 16.5cm D x 99cm W)

#### Weight:

- Standard: 37 lbs.  
(17 kg)

#### Power Input Requirements:

- Volts: 100V to 240V (Auto-Switching)
- Amps @ 120V: 3A
- Power Input Connection (US): L520
- Power Input Connection (International): Pin and Sleeve 16 Amp

#### Data/Control Input:

- RJ-45 Ethernet

#### Power/Data Output:

- Connectors: One Female Ramtech G3 Multi-Pin Connector
- Output Voltage (Power-Ground): ~7.5V
- Output Voltage (Power-Data): 2.0-2.5V

#### Components:

- One Linksys SD216 16 Port Ethernet Switch
- Six Color Kinetics PDS-60ca 7.5V Power Supplies



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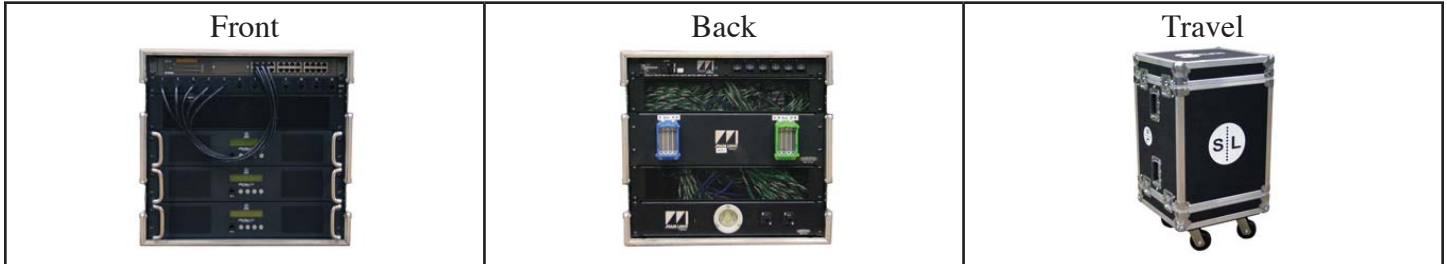
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# Technical Specifications

## POWER SUPPLY RACKS

### High Density Touring Rack



#### Dimensions:

- Without Lids: 20" H x 21" W x 24" D  
(51cm H x 54cm W x 61cm D)
- With Lids: 38" H x 21" W x 20" D  
(97cm H x 54cm W x 51cm D)

#### Weight:

- Without Lids: --- lbs.  
(-- kg)
- With Lids: 188 lbs.  
(85 kg)

#### Power Input Requirements:

- Volts: 100V to 240V (Auto-Switching)
- Amps @ 120V: 12A
- Power Input Connection (US): L520
- Power Input Connection (International): Pin and Sleeve 16 Amp

#### Data/Control Input:

- RJ-45 Ethernet

#### Power/Data Output:

- Connectors: Two Female Ramtech Ramlatch Multi-Pin Connector
- Output Voltage (Power-Ground): ~7.5V
- Output Voltage (Power-Data): 2.0-2.5V

#### Components:

- One Main Light 6 IEC Output Power Switch w/ Main Breaker and Individual Switches
- One D-Link DSS-24+ 24 Port Ethernet Switch
- Three Color Kinetics sPDS-480ca 7.5V Multi-Output Power Supplies



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# Technical Specifications

## POWER BACKUP RACKS

### UPS/Power Backup Rack



#### Dimensions:

- Without Lids: 9" H x 21" W x 24" D  
(23cm H x 54cm W x 61cm D)
- With Lids: 9" H x 21" W x 32" D  
(23cm H x 54cm W x 81cm D)

#### Weight:

- Without Lids: --- lbs.  
(-- kg)
- With Lids: 110 lbs.  
(45 kg)

#### Power Input Requirements:

- Volts: 85V to 150V @ 47Hz to 63Hz
- Amps (Max): 15A
- Power Input Connection (US): Edison

#### Power Output:

- 1500VA/950 Watts using 6 Power Outlets
- All Outlets - Battery, Surge, & AVR Protected
- All Outlets - 120V

#### Components:

- One D-Link DSS-24+ 24 Port Ethernet Switch
- One Cyberpower PR1500 1500VA UPS



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## VIDEO RACKS

### Single Unit Video Rack



#### Dimensions:

- Without Lids: 21" H x 25" W x 24" D  
(54cm H x 64cm W x 61cm D)
- With Lids: 38" H x 25" W x 21" D  
(97cm H x 64cm W x 54cm D)

#### Weight:

- Without Lids: --- lbs.  
(-- kg)
- With Lids: 164 lbs.  
(75 kg)

#### Power Input Requirements:

- Volts: 100V to 240V (Auto-Switching)
- Amps @ 120V: 3A
- Power Input Connection (US): L520
- Power Input Connection (International): Pin and Sleeve 16 Amp

#### Data/Control Input:

- RGBHV (15-Pin VGA), Composite
- (Optional) SDI
- RJ-45 Ethernet

#### Data/Control Output:

- RJ-45 Ethernet

#### Components:

- One Color Kinetics Video Light System Engine
- One Canopus Twin Pact 100
- One D-Link DSS-24+ 24 Port Ethernet Switch
- One 7" LCD Reference Monitor
- One DVD Player

## VIDEO RACKS

### Deluxe/Double Unit Video Rack



#### Dimensions:

- Without Lids: 28" H x 25" W x 24" D  
(71cm H x 64cm W x 61cm D)
- With Lids: 38" H x 25" W x 21" D  
(97cm H x 64cm W x 54cm D)

#### Weight:

- Without Lids: --- lbs.  
(-- kg)
- With Lids: 205 lbs.  
(94 kg)

#### Power Input Requirements:

- Volts: 100V to 240V (Auto-Switching)
- Amps @ 120V: 6A
- Power Input Connection (US): L520
- Power Input Connection (International): Pin and Sleeve 16 Amp

#### Data/Control Input:

- RGBHV (15-Pin VGA), Composite
- (Optional) SDI
- RJ-45 Ethernet

#### Data/Control Output:

- RJ-45 Ethernet

#### Components:

- Two Color Kinetics Video Light System Engines
- Two Canopus Twin Pact 100
- Two D-Link DSS-24+ 24 Port Ethernet Switches
- Two 7" LCD Reference Monitors
- One DVD Player