

# JS-TECH™ 624 ARCH

## 6 x 2.4kW Architectural Wall Mount Dimmer Rack



**JS-TECH™ Architectural Dimmers** represent performance and longevity at its finest! 16-bit high resolution fades provide smooth light control for the most demanding environment.

Suitable for virtually any application where centralized dimmers are required, this rugged hi-density design allows for adjacent side-by-side installation where additional dimming capacity is needed. Large power input terminals permit feeder power up to 40 Amps at 120/208 Volt three phase or 60 Amps at 120/240 Volt single phase.

Premium quality magnetic load breakers permit full loading of each circuit individually. Hinged control section access allows for ease of data and/or analog control termination. Quiet hi-performance chokes and “MagLev®” thermal management technology produces superior cooling that is virtually silent. All electronics are easily and remotely monitored with intuitive status LED’s. Wireless DMX receiver optional.

- ✦ Six 2400 Watt hi-performance dimmers.
- ✦ Dims standard or low-voltage incandescent quartz lamps.
- ✦ Superior 16-bit fade resolution for super smooth light control.
- ✦ Both DMX 512 and individual analog inputs. Optional wireless DMX receiver.
- ✦ Status LED’s for easy setup and remote troubleshooting.
- ✦ Premium magnetic breakers with high visibility “trip indicator”.
- ✦ Over-heat and over-current protected.
- ✦ Non-proprietary dimmer SCR’s are 200% rated.
- ✦ ‘MagLev®’ thermal management technology produces superior cooling that is virtually silent.
- ✦ Hinged SCR and data section for serviceability.
- ✦ Separate high voltage “contractor termination section”.



**JOHNSON SYSTEMS INC.**

*"PROGRESSIVE ALTERNATIVES IN LIGHTING CONTROL"*

1923 Highfield Crescent S.E.  
 Calgary, Alberta, Canada T2G 5M1  
 tel: 403.287.8003  
 fax: 403.287.9003  
 e-mail: info@johnsonsystems.com  
 website: www.johnsonsystems.com

**plasa**  
  
 member

## JS-ICON™ 624 ARCH CHARACTERISTICS

### Power Requirements

120/208 VAC 3Ø 5 wire up to 40A. Max. rating 14.4kW or 120/240 VAC 1Ø 4 wire up to 60A. Max. rating 14.4kW.

### Power Termination

Terminal block input and output.

### Environment

Temperature Range: 23°F (-5°C) to 113°F (45°C) ambient.  
Humidity Range: 0% to 90% non-condensing.

### Dimmer Capacity and Load Type

6 x 2.4kW incandescent quartz lamps and electronic (SCR dimmable) low voltage fixtures.

### Switch Type

200% rated, non-proprietary SCR solid state relay.

### Rise Time

300µs fully epoxy-encapsulated chokes are made from ultra low audible noise core material.

### Physical

16.2" H x 15" W x 6" D (41.2 cm x 38.1 cm x 15.2 cm).

### Weight

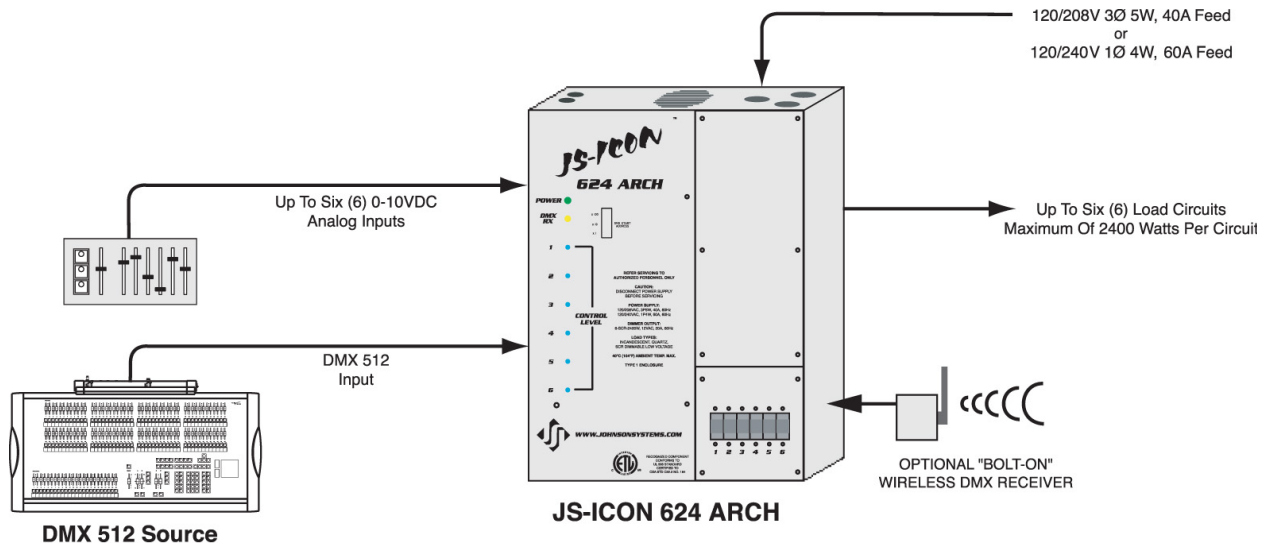
Approximately 35 lbs. (15.9 Kg).

### Material

18-gauge steel CRS.

### Finish

Textured white powdercoat.



## JS-ICON™ 624 ARCH SPECIFICATIONS

1. The **JS-ICON™ 624 ARCH** shall be capable of dimming standard incandescent, quartz and SCR (silicon controlled rectifier) dimmable electronic low voltage fixtures.
2. The **JS-ICON™ 624 ARCH** enclosure shall contain six (6) dimmers each capable of controlling up to 2.4kW.
3. The **JS-ICON™ 624 ARCH** shall be powered by a 120/208 VAC 3Ø or 120/240 VAC 1Ø supply of up to 100 Amps respectively. Individual 20 Amp magnetic load breakers shall permit full rated operation in performance environments.
4. The system SCR's shall be dual encapsulated units with a minimum of a 200% rating. The system SCR's will provide symmetrical AC output to the load throughout the entire control range of off to full intensity. The system SCR's will have a minimum of 2500 Volt isolation between the low and high voltage side of the component thereby ensuring data and DC isolation.
5. The **JS-ICON™ 624 ARCH** shall utilize "MagLev®" thermal management technology to produce superior cooling that is virtually silent. Fan noise shall not exceed 26dBA.
6. The **JS-ICON™ 624 ARCH** shall employ thermal shutdown circuitry that is redundant from electronic operation.
7. Each dimmer shall be capable of a high resolution 16-bit output control of the load thereby permitting precise and smooth control of incandescent loads from full rating to as small as 5 Watts.
8. The **JS-ICON™ 624 ARCH** shall be controlled with DMX 512-A protocol via internal "breakaway" terminal connectors. A "Wireless" DMX option shall permit wireless control up to a distance of 400 ft. (122m).
9. Each dimmer shall contain a high performance, copper wound, hybrid core toroidal magnetic filter (choke). Each choke shall be rated at 300µs and epoxy-encapsulated for maximum harmonic noise reduction. The choke will have a maximum temperature rise of 156°F (69°C) at full load.
10. Heat loss for each 2.4kW dimmer shall not exceed 48 Watts or 100 BTU's per hour per connected kW of load. Dimmers shall be capable of sustained operation at full loading with an ambient temperature of 113°F (45°C).
11. Each **JS-ICON™ 624 ARCH** shall accept both DMX 512-A data and analog 0-10VDC input. Data and analog inputs shall overlap in a "highest takes precedence" (H.T.P.) fashion.
12. Control wire to each **JS-ICON™ 624 ARCH** shall be standard DMX control cable (Belden 9829 or equiv.) or CAT-5E.
13. All electronics shall be fully digital and microprocessor based. Such electronic circuitry shall permit real time signal monitoring and status LED indication to allow easy setup and remote troubleshooting.
14. All printed circuit boards (PCB's) shall be FR4/G10 with U.L. 94V-0 Flame Class Rating.
15. A dedicated and hinged access area shall contain all electronic circuitry. All PCB's shall employ "breakaway" style connectors to facilitate ease of service.
16. The entire assembly shall be ETL Listed and comply fully with UL508 and CSA 22.2 safety approval standards.

*Specifications subject to change without notice.*



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