

# Specifications

## Model Information

Model: EC-1

Manufacturer: Lightwave Research  
2217 West Braker Lane  
Austin, TX 78758  
USA

Distributor: High End Systems, Inc.  
2217 West Braker Lane  
Austin, TX 78758  
USA

Product Number: EC-1

## Physical Specifications

Dimensions: 50.8 cm W x 33.6 cm D x 62.73 cm H  
(20" L x 13.2" W x 24.7" H)

Weight: 59.1 Kg (130 lbs)

Lamp type: Philips® M Series, GX 9.5 base, 575 watt, metal halide lamp only  
MSR 575/2 color temperature: 6200 Kelvin  
MSD 575 color temperature: 5600 Kelvin

## Electrical Specifications

Factory setting: 277VAC, 60 Hz

Voltage rating: 100V, 120V, 230V, 277V

Power consumption: 7.0 A @ 100V  
5.8 A @ 120V  
3.0 A @ 230V  
2.5 A @ 277V

Rated power: 700W

Rated frequency: 50/60 Hz

Power factor: 100V, 50 Hz: 0.85  
120V, 60 Hz: 0.96  
230V, 50 Hz: 0.87  
277V, 60 Hz: 0.94

Maximum winding temperature, Tw: 180° C (356° F)  
Maximum capacitor temperature, Tc: 85° C (185° F)

## Environmental Specifications

Ingress Protection:	IP 66
E.P.A. (Effective Projected Area):	3.2 sq. ft.
Maximum ambient temperature, Ta:	40° C (104° F)
Maximum exterior surface temperature:	140° C (284° F)
Minimum distance to lighted object:	1.0 meter (3.28 feet)
Minimum distance to flammable objects:	1.0 meter (3.28 feet)



**Warnings: 1) Class I equipment - For continued protection against electric shock connect this equipment to an earthed (grounded) power source only.**



**2) Do not mount on a flammable surface.**

## Cable and Connector Specifications

DMX data cables:

Belden® 9841 or equivalent (meets specifications for EIA RS-485 applications) with the following characteristics:

- 2-conductor twisted pair plus a shield
- maximum capacitance between conductors - 30 pF/ft.
- maximum capacitance between conductor and shield - 55 pF/ft.
- maximum resistance of 20  $\Omega$  / 1000 ft.
- nominal impedance 100-140  $\Omega$

DMX data connectors:

3-pin male and female XLR connectors

DMX data terminators:

Male XLR connector with 120 ohm terminator

## Safety Specifications

Safety standards: EN 60598-1 : 1993  
EN 60598-2-17 : 1989  
A1-A3 : 1993

EMC standards: EN 55022, Class A ITE  
IEC 801-2, 1991 Level 2 (4 / 8 kV)  
IEC 801-3, Draft 5 Level 2 (3 V/m)  
IEC 801-4, 1988 Level 2 (1 kV / 0.5 kV)



Conforms to

ANSI/UL-1572



67501

Certified to

CAN/CSA C22.2 No. 9