

## LUMINEQ DISPLAY MODELS

MODEL SERIES	Matrix size	Size (1)	Pixel pitch (mm)	Brightness (typical)	Power (3)	Supply voltages	Operating temperature(4)	Storage temperature	Interface	Vibration IEC 680068-2-64	Altitude IEC 680068-2-13 operating	Other features
EL40S	40 segments	1" (2)	N/A	300 cd/m <sup>2</sup>	6.0 W	12 VDC	-60 to +85 °C	-60 to +85 °C	SPI	5 to 500 Hz, 0.20 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Extremely rugged, Locking connector, Dimming
EL160.80.50-ET	160 x 80	3.5"	0.50	107 cd/m <sup>2</sup>	4.4 W	5 & 12 VDC	-50 to +70 °C	-60 to +105 °C	4-bit	5 to 500 Hz, 0.10 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Locking connector, Dimming
EL160.80.50-ET SPI	160 x 80	3.5"	0.50	107 cd/m <sup>2</sup>	4.4 W	5 & 12 VDC	-50 to +70 °C	-60 to +105 °C	SPI	5 to 500 Hz, 0.10 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Locking connector, Dimming
EL160.120.39	160 x 120	3.1"	0.39	70 cd/m <sup>2</sup>	3.0 W	5 & 8...18 VDC	-50 to +85 °C	-60 to +105 °C	4-bit	5 to 500 Hz, 0.02 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Locking connector, Dimming, Broad input voltage range
EL160.120.39-SPI	160 x 120	3.1"	0.39	70 cd/m <sup>2</sup>	3.0 W	5 & 8...18 VDC	-50 to +85 °C	-60 to +105 °C	SPI	5 to 500 Hz, 0.02 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Locking connector, Dimming, Broad input voltage range
EL240.128.45	240 x 128	4.8"	0.45	130 cd/m <sup>2</sup>	5.8 W	5 & 8...18 VDC	-40 to +85 °C	-50 to +105 °C	8-bit µP	5 to 500 Hz, 0.02 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Locking connector, Dimming, Broad input voltage range, On-board display controller
EL320.240-FA3	320 x 240	4.9"	0.31	95 cd/m <sup>2</sup>	4.7 W	5 & 8...18 VDC	-50 to +85 °C	-50 to +105 °C	Parallel and 4-bit	5 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Multi-color: 16 colors, locking connector, dimming
EL320.240.36-ET	320 x 240	5.7"	0.36	50 cd/m <sup>2</sup>	7.0 W	5 & 12 VDC	-40 to +65 °C	-40 to +85 °C	4-bit	5 to 500 Hz, 0.02 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Locking connector, Dimming
EL320.240.36-HB	320 x 240	5.7"	0.36	150 cd/m <sup>2</sup>	5.5 W	5 & 8...18 VDC	-50 to +95 °C	-50 to +105 °C	4-bit	5 to 500 Hz, 0.02 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Sunlight readable, Locking connector, Dimming, Broad input voltage range
EL320.240.36-HB SPI	320 x 240	5.7"	0.36	150 cd/m <sup>2</sup>	5.5 W	5 & 8...18 VDC	-50 to +95 °C	-50 to +105 °C	SPI	5 to 500 Hz, 0.02 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Sunlight readable, Locking connector, Dimming, Broad input voltage range
EL320.256-FD6	320 x 256	4.8"	0.30	25 cd/m <sup>2</sup>	6.0 W	5 & 11...30 VDC	-25 to +70 °C	-40 to +85 °C	1-bit	20 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	15,000 m 49,000 ft	Broad input voltage range, Dimming
EL480.240-PR3	480 x 240	6.4"	0.305	50 cd/m <sup>2</sup>	6.5 W	5 & 12 VDC	-25 to +75 °C	-40 to +75 °C	4-bit	20 to 500 Hz, 0.02 g <sup>2</sup> /Hz random	-300 m to 4,900 m -1,000 to 16,000 ft	Tested over pressure operation
EL512.256-H3	512 x 256	8.6"	0.25	65 cd/m <sup>2</sup>	6.0 W	5 & 11...30 VDC	-25 to +65 °C	-40 to +75 °C	1 or 2-bit	20 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	15,000 m 49,000 ft	Non ICE glass, Broad input voltage range, Dimming, Optional steel mounting frame.
EL640.400-C3	640 x 400	8.8"	0.305	52 cd/m <sup>2</sup>	11 W	5 & 11...30 VDC	-20 to +65 °C	-40 to +65 °C	1 or 2-bit	20 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	15,000 m 49,000 ft	Non-ICE glass. Dimming, 200 rows mode
EL640.400-CD3	640 x 400	8.8"	0.305	21 cd/m <sup>2</sup>	11 W	5 & 11...30 VDC	-20 to +65 °C	-40 to +65 °C	1 or 2-bit	20 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	15,000 m 49,000 ft	ICE glass. Dimming, 200 rows mode
EL640.480-AF1 ET	640 x 480	6.4"	0.202	65 cd/m <sup>2</sup>	4.5 W	12 VDC	-60 to +105 °C	-60 to +110 °C	8-bit Dual-panel	5 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Locking connector, Dimming, Single 12 VDC Power supply
EL640.480-AF LVDS	640 x 480	6.4"	0.202	60 cd/m <sup>2</sup>	4.7 W	12 VDC	-60 to +105 °C	-60 to +110 °C	LVDS	5 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Gray scale support, Locking connector, Dimming, Single 12 VDC Power supply
EL640.480-AG1 ET	640 x 480	8.1"	0.258	55 cd/m <sup>2</sup>	6.5 W	8-18 VDC	-60 to +105 °C	-60 to +110 °C	8-bit Dual-panel	5 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Locking connector, Dimming, Broad input voltage range, Power supply
EL640.480-AG LVDS	640 x 480	8.1"	0.258	60 cd/m <sup>2</sup>	6.7 W	12 VDC	-60 to +105 °C	-60 to +110 °C	LVDS	5 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Gray scale support (LVDS Model), Locking connector, Dimming, Single 12 VDC power supply
EL640.480-AM8	640 x 480	10.4"	0.33	49 cd/m <sup>2</sup>	11 W	12 or 24 VDC	-60 to +105 °C	-60 to +110 °C	8-bit Dual-panel	5 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Locking connector, Dimming, Single 12 VDC Power supply
EL640.480-AM LVDS	640 x 480	10.4"	0.33	55 cd/m <sup>2</sup>	11 W	12 VDC	-60 to +105 °C	-60 to +110 °C	LVDS	5 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Gray scale support (LVDS Model), Locking connector, Dimming, Single 12 VDC Power supply
EL640.480-AA1	640 x 480	10.4"	0.33	21 cd/m <sup>2</sup>	10 W	5 & 12 VDC	-25 to +65 °C	-40 to +85 °C	Parallel, 4-bit	20 to 500 Hz, 0.05 g <sup>2</sup> /Hz random	18,000 m 59,000 ft	Multi-color: 8 colors. Dimming

### AVAILABLE OPTIONS

- Conformal coating
- Anti-reflective coating
- Anti-glare film
- Tempered glass
- ITO glass – Conductive coated glass: 4 to 10 Ω/sq
- NVIS filter

### SPECIFICATIONS FOR ALL DISPLAYS

- Shock, IEC 680068-2-27, 100 g-force, 4 ms
- MTBF > 50,000 hours
- Relative Humidity, Operating 93% RH @ +40 °C, IEC 60068-2-78
- Damp Heat, Non-Operating, 95% RH max from +25 to +55 °C, IEC60068-2-30

### NOTES:

- (1) Diagonal size in inches
- (2) Digit height
- (3) Typical power with maximum luminance
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