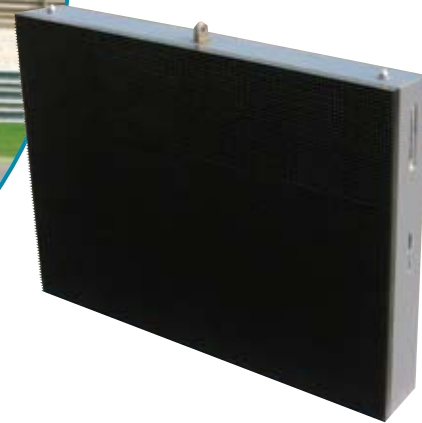


R7-ER

# outdoor LED panels

7mm Rental Outdoor Enhanced Resolution model



exhibitions



conferences



concerts



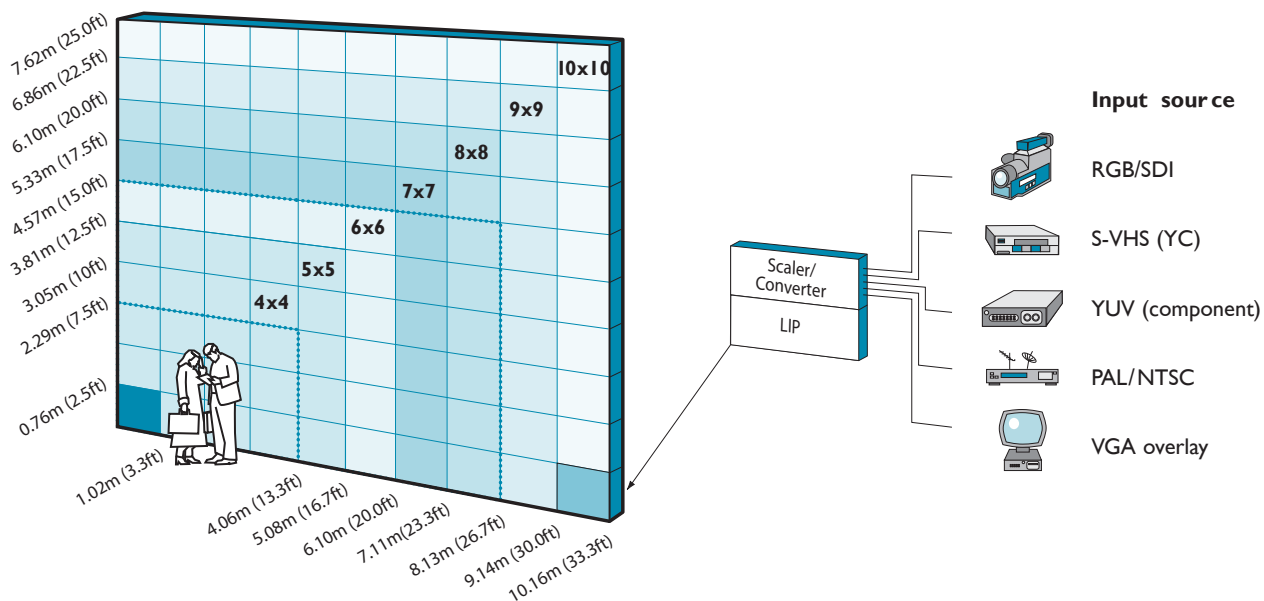
sports

With a 7mm visual pitch, Lighthouse's latest R7-ER LED screen offers a higher effective image resolution from the same size panel as its 16mm counterpart. Featuring 5000 nits brightness, Lighthouse's award winning M4 colour uniformity system and weatherproof design, R7-ER is particularly suitable for outdoor applications.

R7-ER's slim casing and modular design makes it by far the most easy to set up product to use for rental applications. The best and most economical choice for a multitude of events, including car shows, exhibitions and corporate promotions, its combination of image quality and installation simplicity is unsurpassed in the LED screen market.

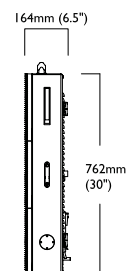
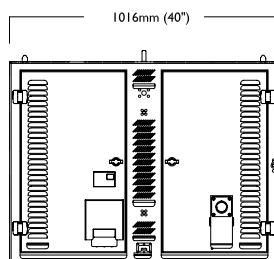
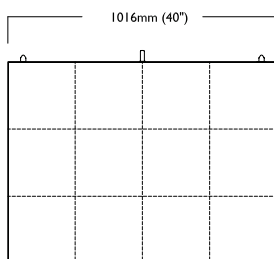
# R7 -ER outdoor LED panel

## configurations



## quick reference guide

### R7-ER



<b>brightness</b>	5000 nits	<b>data refresh rate (typical)</b>	100,000 Hz
<b>viewing angle horizontal</b>	140° (50% brightness)	<b>video frame rate</b>	50/60 Hz
<b>viewing angle vertical</b>	45° (50% brightness)	<b>display input</b>	RGB HV, YUV, YC, SDI Composite (HD-SDI optional)
<b>contrast ratio (typical)</b>	2,000:1	<b>lifetime (50% brightness)</b>	≥75,000 hours
<b>visual resolution</b>	7mm	<b>diagonal</b>	1,269mm (50")
<b>visual density</b>	15876 dots per m <sup>2</sup>	<b>operating temperature</b>	-20 to 50°C
<b>pixel configuration</b>	RGB 1, 2, 1	<b>max. power consumption</b>	634 watts
<b>colours</b>	4.4 trillion		
<b>processing depth</b>	14 bit		

Standard 4:3 aspect ratio (16:9 aspect also possible)						Panel	Max power consumption			
R7-ER Panel	Panel total	Size (m <sup>2</sup> )	Size (ft <sup>2</sup> )	Dimensions w x h (m) w x h (ft)		Dot resolution w x h	Total weight kg (lb)	Total (watts)	I Phase (amps)	I Phase (amps)
							Europe (240 volts)		US (110 volts)	
1	1	0.77	8.33	1.02 x 0.76	3.3 x 2.5	128 x 96	48 (105.6)	634	2.6	5.8
4 x 4	16	12.4	133.33	4.06 x 3.05	13.3 x 10.0	512 x 384	768 (1689.6)	10144	42.3	92.2
5 x 5	25	19.4	208.33	5.08 x 3.81	16.7 x 12.5	640 x 480	1200 (2640)	15850	66.0	144.1
6 x 6	36	27.9	300.00	6.10 x 4.57	20.0 x 15.0	768 x 576	1728 (3801.6)	22824	95.1	207.5
7 x 7	49	37.9	408.33	7.11 x 5.33	23.3 x 17.5	896 x 672	2352 (5174.4)	31066	129.4	282.4
8 x 8	64	49.6	533.33	8.13 x 6.10	26.7 x 20.0	1024 x 768	3072 (6758.4)	40576	169.1	368.9
9 x 9	81	62.7	675.00	9.14 x 6.86	30.0 x 22.5	1152 x 864	3888 (8553.6)	51354	214.0	466.9
10 x 10	100	77.4	833.33	10.16 x 7.62	33.3 x 25.0	1280 x 960	4800 (10560)	63400	264.2	576.4

Flightcase available upon request.

Alternative processing systems are available for larger screen sizes.

Lighthouse reserves the right to change any specifications without notice.

## R7-ER SPECIFICATIONS

### 7mm Rental Outdoor Enhanced Resolution Oval LED Panel

Parameter	Unit	Value
Brightness	nits	5,000
Colour temperature	deg. K	6,500
Viewing angle - Horizontal (50% brightness)	deg.	140 (+70/-70)
Viewing angle - Vertical (50% brightness)	deg.	45(+15/-30)
Panel weight	kg	48kg
Panel diagonal	mm	1,269
Panel width	mm	1,016
Panel height	mm	762
Panel depth	mm	180
Panel area	sq. m.	0.774
Panel material		Epoxy paint coated Aluminum
Aspect ratio		4:3
Ingress protection (front/rear)	IP	IP65/IP21
Operating temperature range	deg. C	-20 to +50
Pixel type and configuration	R/G/B	1,2,1
Visual resolution	mm	7.94
Dot matrix per panel		128 x 96
Dot per panel		12,288
Dot Lines per meter		126
Dot per sq. meter		15,876
LED per sq. meter		15,876
Recommended minimum viewing distance	m	8
Colours		4.4 trillion
Grey scale (linear)	Levels	16,384 levels per colour
Brightness control	Levels	95
Contrast ratio		2,000:1
Processing depth	bit	14
System type		M4
Video frame rate	Hertz	50/60
Display refresh rate	Hertz	100,000
Input voltage (nominal)	VAC	110 to 240
Input power frequency	Hertz	50 to 60
Input power (max)	Watts	634
Lifetime (50% brightness)	Hours	≥75,000
Red wavelength (dominant)	nm	615
Green wavelength (dominant)	nm	540
Blue wavelength (dominant)	nm	470
Panel input format		Proprietary SDI, RGBHV, YUV, YC, Composite
Data interconnection		BNC
Mounting system		king pin Fast rig

\* Specification subjected to change without prior notice



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