

R6-B

# indoor black-faced LED panels

6mm Rental model



rental



TV studios



exhibitions



conferences

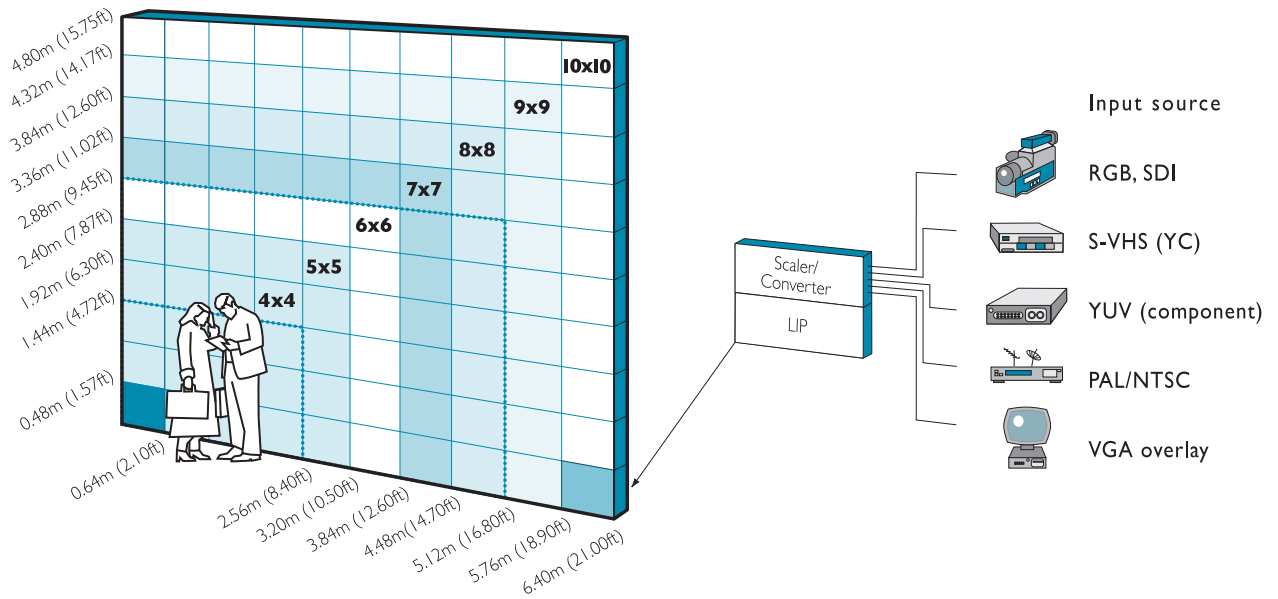
Created for the most demanding indoor rental applications, Lighthouse's R6-B 6mm LED panel delivers exceptional picture quality along with fast, flexible installation. Extending Lighthouse's best-selling 6mm format, it is the ideal visual media for world-class exhibitions, conferences, fashion shows and retail environments.

Combining superfine resolution with Lighthouse's revolutionary 3-in-1 black face SMD (surface-mount device) LEDs, the R6-B delivers a truer black level and an exceptionally high contrast ratio of 3,800:1. With extra grey scale and 14-bit processing, this screen delivers the finest image quality without sacrificing its unique colour uniformity advantage. Each panel has 2,000 nits of brightness for consistent image clarity even under bright ambient light, while a horizontal viewing angle of 140° and a vertical viewing angle of 90° ensures a superb viewing experience at a range of viewing distances.

The visual performance of the R6-B is complemented by its environmental strengths. It runs at a low temperature, setting a new benchmark for low power consumption, and has a fan-less design, ensuring absolutely silent operation. In addition, the R6-B can be easily set up and dismantled due to its lightweight slim profile and single king-pin design.

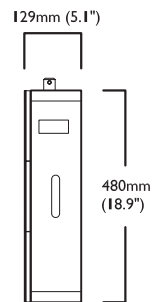
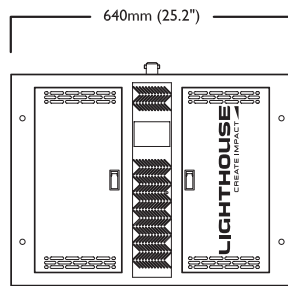
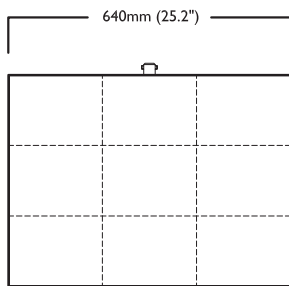
# R6-B indoor black-faced LED panel

## configurations



## quick reference guide

R6-B



**brightness** 2000 nits  
**viewing angle- horizontal** 140 (50% brightness)  
**viewing angle- vertical** 90 (50% brightness)  
**Contrast ratio (typical)** 3,800 : 1  
**pixel pitch** 6.67mm  
**pixel density** 22,500 per m<sup>2</sup>  
**pixel configuration** SMD 1, 1, 1  
**colours** 4.4 trillion  
**depth processing** 14 bit

**data refresh rate (typical)** 100,000 Hz  
**video frame rate** 50/60 Hz  
**display input (via Scaler & LIP)** SID, RGB HV, YUV, YC Composite  
**lifetime (50% brightness)** ≥100,000 hours  
**diagonal** 800mm (31.5")  
**operating temperature** 0 to 40°C  
**max. power consumption** 576 watts

Standard 4:3 aspect ratio							Panel		Max power consumption		
R6-B Panel	Panel total	Size (m <sup>2</sup> )	Size (ft <sup>2</sup> )	Dimensions w x h (m) w x h (ft)		Pixel resolution w x h	Total weight kg (lb)	Total (watts)	I Phase (amps)	I Phase (amps)	
								Europe (240 volts)	US (110 volts)		
1	1	0.31	3.31	0.64 x 0.48	2.10 x 1.57	96 x 72	19(41.8)	576	2.4	5.2	
4 x 4	16	4.92	52.89	2.56 x 1.92	8.40 x 6.30	384 x 288	304(66.9)	9216	38.4	83.8	
5 x 5	25	7.68	82.64	3.20 x 2.40	10.50 x 7.87	480 x 360	475(1045)	14400	60.0	130.9	
6 x 6	36	11.06	119.00	3.84 x 2.88	12.60 x 9.45	576 x 432	684(1504.8)	20736	86.4	188.5	
7 x 7	49	15.05	161.97	4.48 x 3.36	14.69 x 11.02	672 x 504	931(2048.2)	28224	117.6	256.6	
8 x 8	64	19.66	211.55	5.12 x 3.84	16.79 x 12.60	768 x 576	1216(2675.2)	36864	153.6	335.1	
9 x 9	81	24.88	267.74	5.76 x 4.32	18.89 x 14.17	864 x 648	1539(3385.8)	46656	194.4	424.1	
10 x 10	100	30.72	330.55	6.40 x 4.80	20.99 x 15.74	960 x 720	1900(4180)	57600	240.0	523.6	

\* Alternative processing systems are available for larger screen sizes.  
 Lighthouse reserves the right to change any specifications without notice.

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