



# LH650

## BenQ Smart ECO Power Saving DLP Projector

- 4000 ANSI lumens laser new light source
- USB Type-C with ALT mode, saving space with no extra connectors
- SmartEco Mode saves power up to 70%
- Up to 20,000 hours of maintenance-free laser light source
- 2D keystone & corner fit



### Display

<b>Projection System</b>	DLP Single 0.65"
<b>DMD Type</b>	1080P
<b>Native Resolution</b>	1920 x 1080
<b>Brightness</b>	4000 ANSI Lumens
<b>Contrast Ratio*</b>	3,000,000 : 1
<b>Display Colour</b>	30 Bits (1.07 Billion Colours)
<b>Aspect Ratio</b>	Native 16:9 (5 Aspect Ratio Selectable)
<b>Light Source</b>	Laser
<b>Light Source Life** (Normal / Eco / SmartEco®)</b>	20,000 / 20,000 / 20,000 hours

### Optical

<b>Throw Ratio</b>	1.15 ~ 1.5 (100" ±3% @ 2.54m)
<b>Zoom Ratio</b>	1.3
<b>Keystone Correction</b>	2D Vertical & Horizontal ±30 degrees
<b>Projection Offset</b>	105% ± 3%
<b>Projection Size</b>	60"~150"

### Audio

<b>Built-In Speaker</b>	10W x1
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### Special Feature

<b>Security</b>	Security Bar, Kensington lock
<b>Features</b>	USB Type C, Optional Wi-Fi Display, Corner Fit, FW upgrade via USB, 24/7 operation

### Compatibility

<b>Resolution Support</b>	VGA (640 x 480) to 1080P (1920 x 1080)
<b>Horizontal Frequency</b>	15K~135KHz
<b>Vertical Scan Rate</b>	23~240Hz
<b>HDTV Compatibility</b>	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 2160p

### Power

<b>Power Consumption (Max / Normal / Eco)</b>	275W / 200W / 138W
<b>Standby Power Consumption</b>	Normal < 0.5W
<b>Power Supply</b>	100 ~ 240V AC

### Dimension and Weight

<b>Product Dimensions (WxHxD)</b>	303.5 x 112.4 x 224.7mm
<b>Product Weight</b>	2.9kg +/- 100g

### Operation Condition

<b>Noise Level</b>	34 / 28 dBA
<b>Operating Temperature</b>	0 ~ 40°C

### Accessories

<b>Accessories (Standard)</b>	QSG(4J.JS501.001), Remote Control (5J.JND06.001), 2x AAA Battery, VGA cable (1.5m), Warranty card (by Region)
<b>Accessories (Optional)</b>	Ceiling mount (5J.JAM10.001), Dongle(5J.JPT28.001)

### OSD

<b>On Screen Display Language</b>	Arabic/Bulgarian/ Croatian/ Czech/ Danish/ Dutch/ English/ Finnish/ French/ German/ Greek/ Hindi/ Hungarian/ Italian/ Indonesian/ Japanese/ Korean/ Norwegian/ Polish/ Portuguese/ Romanian/ Russian/ Simplified Chinese/Spanish/ Swedish/ Turkish/ Thai/ Traditional Chinese/ Farsi / Vietnamese/ (30 Languages)
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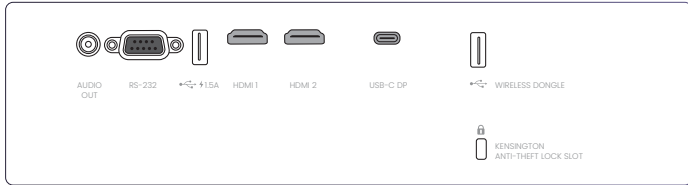
### Other

<b>Part Number</b>	9H.JS577.13E
<b>EAN Code</b>	471 8755 09213 8

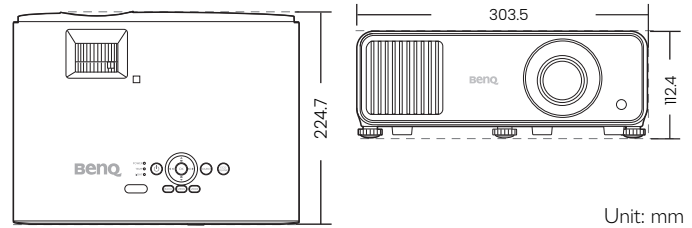
\* The Contrast is measured by Full On/Full Off standard.

\*\* Light Source Life results will vary depending on environmental conditions and usage. Actual product's features and specifications are subject to change without notice.

## INPUT AND OUTPUT TERMINALS

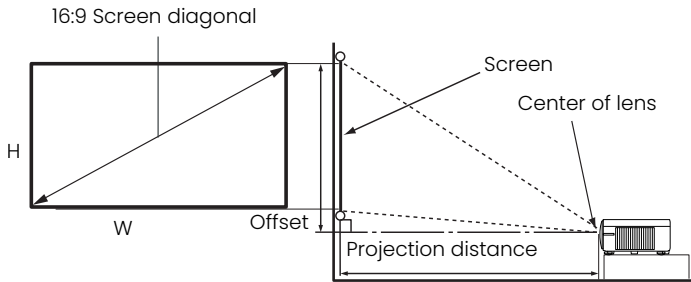


## DIMENSIONS



Unit: mm

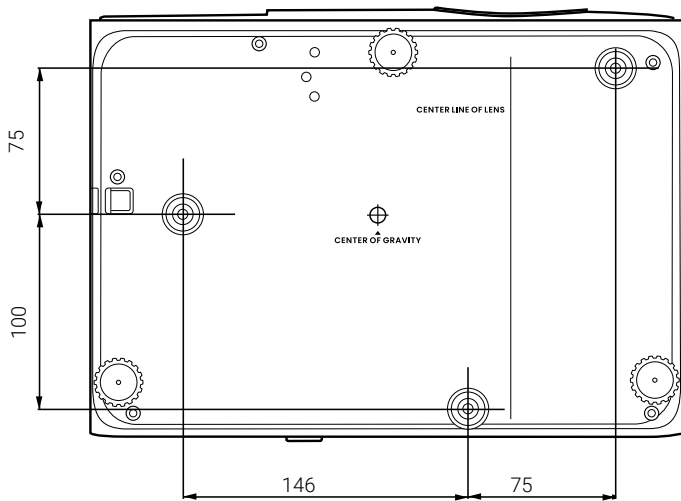
## PROJECTION DIMENSIONS



## CEILING / WALL MOUNT CHART

BenQ ceiling mount CMG3 (5JAM10.001)  
Ceiling mount screw: M4  
(Max. L = 25 mm; Min. L = 20 mm)

Unit: mm



## DISTANCE CHART

Screen Size				Projection Distance (mm)			Offset (mm)
Diagonal		H (mm)	W (mm)	Min distance (with max zoom)	Average	Max distance (with min zoom)	
Inch	mm						
30	762	374	664	764	880	996	21
40	1016	498	886	1018	1173	1328	27
50	1270	623	1107	1273	1467	1660	34
60	1524	747	1328	1528	1760	1992	41
70	1778	872	1550	1782	2053	2324	48
80	2032	996	1771	2037	2347	2657	55
90	2286	1121	1992	2291	2640	2989	62
100	2540	1245	2214	2546	2933	3321	68
110	2794	1370	2435	2800	3227	3653	75
115	2921	1432	2546	2928	3373	3819	79
120	3048	1494	2657	3055	3520	3985	82
130	3302	1619	2878	3310	3813	4317	89
140	3556	1743	3099	3564	4107	4649	96
150	3810	1868	3321	3819	4400	4981	103
160	4064	1992	3542	4073	4693	5313	110
170	4318	2117	3763	4328	4987	5645	116
180	4572	2241	3985	4583	5280	5977	123
190	4826	2366	4206	4837	5573	6309	130
200	5080	2491	4428	5092	5867	6641	137
210	5334	2615	4649	5346	6160	6973	144
220	5588	2740	4870	5601	6453	7306	151
230	5842	2864	5092	5856	6747	7638	158
240	6096	2989	5313	6110	7040	7970	164
250	6350	3113	5535	6365	7333	8302	171
260	6604	3238	5756	6619	7627	8634	178
270	6858	3362	5977	6874	7920	8966	185
280	7112	3487	6199	7128	8213	9298	192
290	7366	3611	6420	7383	8507	9630	199
300	7620	3736	6641	7638	8800	9962	205

To optimize the projection quality, we suggest to project images in an area without grayscale.



[benq.eu/en-eu/business/projector.html](https://benq.eu/en-eu/business/projector.html)

**BenQ**

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