

# BenQ TH685I Specs

## Image Display

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Display System	DMD DLP
Native Chip Resolution	1920 x 1080 (Full HD)
Supported Resolutions	Maximum: WUXGA - 1920 x 1200
Maximum Brightness	3500 Lumens (ANSI)
Offset	105%
Aspect Ratio	Native: 16:9
Dynamic Contrast Ratio	10,000:1
DLP Link 3D	Yes
Supported 3D Formats	Frame Sequential (up to 720p) Frame Packing (up to 1080p) Side by Side (up to 1080p) Top Bottom (up to 1080p)
Color Wheel	6-Segment (RGBWYC)
Color Depth	10-Bit (1.07 Billion Colors)
Scan	Horizontal: 15 to 102 kHz

Vertical: 23 to 120 Hz

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## Lens

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Focus	Manual
Lens	f/1.94 - 2.07 (f = 11.9 - 15.5 mm)
Lens Shift	Vertical: $\pm 5\%$
Optical Zoom	Manual: 1.3x
Throw Distance	29.449 - 381.732" / 74.8 - 969.6 cm
Throw Ratio	1.13 to 1.46:1 (100" Screen Size @ / 2.4 m)
Projection Size	30 - 300" / 76.20 - 762.00 cm

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## Features

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Keystone Correction	Auto-Vertical: $\pm 30^\circ$
Supported HDR Input Formats	HDR10, Hybrid Log Gamma
Ceiling Mountable	Yes
Rear Screen Projection	Yes
Built-In Speaker	Yes (Mono)

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Speaker Power	5W
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## Input/Output Connectors

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Inputs/Outputs	<b>2 x</b> HDMI (HDMI Type-A) Audio, Video Input <b>1 x</b> VGA (DE-15/DB-15) Video Input <b>1 x</b> VGA (DE-15/DB-15) Video Output <b>1 x</b> 1/8" / 3.5 mm Mini Audio Input <b>1 x</b> 1/8" / 3.5 mm Mini Audio Output <b>1 x</b> USB 2.0 (USB Type-A) Power Output <b>1 x</b> RS-232 (DE-9/DB-9) Control
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HDCP Support	Version 2.2
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## Hardware

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Wireless LAN / Wi-Fi	Yes, with Included Adapter
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## General

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Light Source	Lamp
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Lamp Power	245 W
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Expected Lamp Life	Full Brightness: 4000 Hours Medium Brightness: 10,000 Hours Low Brightness: 15,000 Hours
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Fan Noise	Full Brightness: 35 dB
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Low Brightness: 29 dB

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Security

Cable Lock Slot  
Security Bar

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Supported Languages

Arabic  
Bulgarian  
Croatian  
Czech  
Danish  
Dutch  
English  
Finnish  
French  
German  
Greek  
Hindi  
Hungarian  
Indonesian  
Italian  
Japanese  
Korean  
Norwegian  
Persian  
Polish  
Portuguese  
Romanian  
Russian  
Simplified Chinese  
Spanish  
Swedish  
Thai  
Traditional Chinese  
Turkish  
Vietnamese

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AC Input Power

100 to 240 VAC, 50 / 60 Hz at 3.8 A

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Power Consumption

Full Brightness: 340 W  
Medium Brightness: 297 W

Low Brightness: 206 W  
Standby Mode (Lamp Off): < 0.5 W

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Operating Altitude 0.00 to 9842' / 0 to 3000 m

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Operating Temperature 32 to 104°F / 0 to 40°C

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Storage Temperature -4 to 140°F / -20 to 60°C

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Operating Humidity 10 to 90%

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Storage Humidity 10 to 90%

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Dimensions (W x H x D) 12.3 x 4.3 x 8.9" / 312.0 x 110.0 x 225.0 mm

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Weight 6.2 lb / 2.8 kg

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