



BenQ Gaming Projector - TH690ST

Feature Highlight

- * 2300lm LED Light Source
- * 86% DCI-P3 Good Color
- * 5Wx2 treVolo Stereo Speakers
- * Preset Game Mode for Big Screen Party Games
- * 8.3ms@120hz Low Latency for Games
- * LED Long Lasting Life Time



Display

Projection System	DLP
DMD type	0.65"
Native Resolution	1080p (1920 x 1080)
Brightness	2300 ANSI Lumens
Contrast Ratio*	500,000:1 (Dynamic Black)
Display Color	30 Bits (1.07 billion colors)
Aspect Ratio	Native 16:9 (2 aspect ratio selectable)
Light Source	LED
Light Source life**	Normal 20,000 hours ECO 30,000 hours SmartEco 20,000 hours

Optical

Throw Ratio	0.69 - 0.83 (100" @ 1.5 m)
Zoom Ratio	1.2X
Lens	F / # = 2.6~2.78 , f = 10.2~12.24 mm
LenShift	NA
Keystone Adjustment	2D, Auto Vertical & Manual Horizontal ± 30 degree
Projection Offset	102.5%
Projection Size (Clear Focus / Maximum)	60"~120" / 30"~300"

Picture

Picture Mode	Bright / Living Room / Game / Sports / Cinema / (3D) / (HDR10) / (HDR Game) / (HLG) / User
DCI-P3 Coverage	86%

Audio

Built-in Speaker	5W x 2 (Chamber Speakers by treVolo)
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Special Feature

Security	Security Bar, Kensington lock
Input Lag***	1 frame (8.3ms)
Feature	Game mode, HDR10, HLG, 3D, Auto Keystone, 2*5W stereo speaker

Compatibility

Resolution Support	VGA (640 x 480) to 4K UHD (3840 x 2160)
Horizontal Frequency	15K-135KHz
Vertical Scan Rate	23-120Hz
HDTV Compatibility	480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 2160p
Video Compatibility	N/A
Console Game Compatibility	Playstation 5, Playstation 4 Pro, Playstation 4, Playstation Slim XBox Series X S, XBox One X, Xbox One S Nintendo Switch

Power

Power Supply	AC 100 ~ 240V (50/60Hz)
Power Consumption(Max/Normal/Eco)	Max 200W, Normal 140W, Eco 120W
Standby Power Consumption	< 0.5W

Dimension and Weight

Product Dimensions (WxHxD)	366 x 244 x 118mm (w/ adjustment feet)
Product Weight	3.6 kg / 7.9 lbs

Operation Condition

Noise Level(Normal/ECO)	33/28dBA
Operating Temperature	0~40 degrees (Celcius)

Accessories

Accessories (Standard)	Remote Control w/ Battery x 2 (RCV013 - 5JJGY06.002) Power Cord (by region) x 1 (1.8M) Quick Start Guide x 1 (21L) Warranty Card (by region)
Accessories (Optional)	Carry Bag (5JJ4N09.001) 3D Glasses

OSD

On Screen Display Language	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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Environment Notice

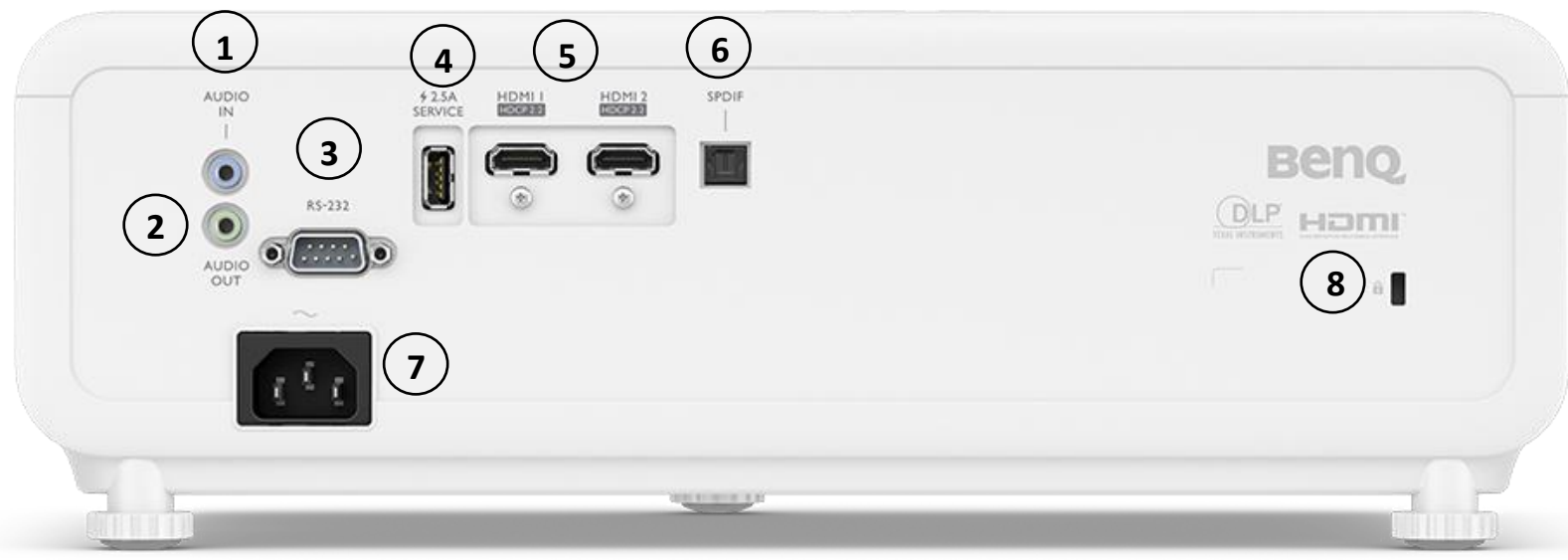
* The Contrast is measured by Full On Full Off standard.

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

***Support 8.3ms@120Hz of 1080p / 16.9ms@60Hz of 1080p. In order to minimize response time, we suggest to set digital adjustments (such as Keystone/Overscan...etc) to 0.

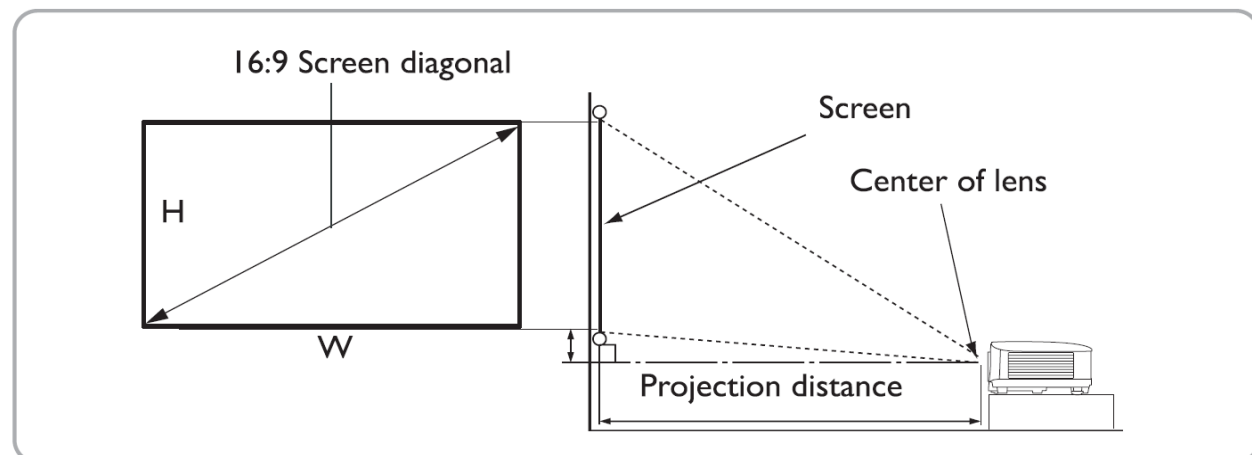


Connectivity

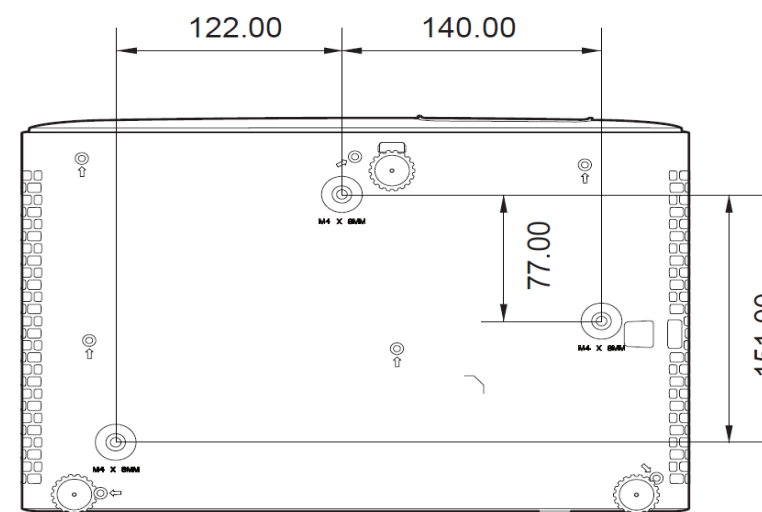


		Qty
1	Audio in (for service personnel only)	1
2	Audio out	2
3	RS232 In (D-sub 9pin, male)	1
4	USB Type-A (5V/2.5A power, FW upgrade)	1
5	HDMI (2.0b, HDCP2.2)	2
6	S/PDIF *support 2.0/5.1	1
7	AC power in	1
8	Kensington anti-theft lock slot	1
9	IR Receiver (Front+Top)	2

Installation



The screen aspect ratio is 16:9 and the projected picture is in a 16:9 aspect ratio



Screen size				Distance from screen (mm)			Vertical offset (Lowest/Highest lens position) (mm)
Diagonal Inch	mm	H (mm)	W (mm)	Min length (max. zoom)	Average	Max length (min. zoom)	
30	762	374	664	458	505	551	10
40	1016	498	886	611	673	735	13
50	1270	623	1107	764	841	919	16
60	1524	747	1328	917	1009	1102	20
70	1778	872	1550	1069	1178	1286	23
80	2032	996	1771	1222	1346	1470	26
90	2286	1121	1992	1375	1514	1654	30
100	2540	1245	2214	1528	1682	1837	33
110	2794	1370	2435	1680	1851	2021	36
120	3048	1494	2657	1833	2019	2205	40
130	3302	1619	2878	1986	2187	2389	43
140	3556	1743	3099	2139	2355	2572	46
150	3810	1868	3321	2291	2524	2756	49
160	4064	1992	3542	2444	2692	2940	53
170	4318	2117	3763	2597	2860	3124	56
180	4572	2241	3985	2750	3028	3307	59
190	4826	2366	4206	2902	3197	3491	63
200	5080	2491	4428	3055	3365	3675	66

Feature icons

