BenQ DLP Projector   TK850i

Feature Highlight

* True 4K UHD (3840 x 2160) 8.3M Pixel resolution

* Vivid Colors and High Brightness Cut Through Living Room Ambient Light

* 98% Rec.709 coverage with optimized Color Wheel

* Sport Mode for Immersive Audiovisual Sport Game Experience

* HDR Pro - Hyper-Realistic Video Quality with projector-optimized HDR10 and HLG

* Short throw projection with vertical lens shift for hassle free installation

Display

Projection System	DLP
DMD type	0.47"
Native Resolution	4K UHD (3840 x 2160) Resolution
Brightness	3000 ANSI Lumens
Contrast Ratio**	30,000:1 (Dynamic Iris)
Display Color	30 Bits (1,07 billion colors)
Aspect Ratio	Native 16:9 (6 aspect ratio selectable)
Light Source	Lamp
Light Source life***	Normal 4000 hours Eco 10000 hours SmartEco 15000 hours

Optical

Throw Ratio	1.13 - 1.47 (100" @ 2.5 m)
Zoom Ratio	1.3X
Keystone Correction	1D, (Auto) Vertical ± 30 degrees
Projection Offset	100%
LenShift	Vertical +10%
Projection Size (Clear Focus / Maximum)	40"~200"/30"~300"

Audio

Built-in Speaker	5W x 2 (Chamber)

Picture

Picture Mode	Bright / Living Room / Cinema/ **Sports** / Silence / (3D)* / User 1 / HDR / HLG
Color Wheel Segment	4 segment (RGBW)
Color Wheel Speed	2D: 96Hz; 100Hz; 120Hz 3D: 120Hz

Special Feature

Security	Security Bar, Kensington lock
Feature	HDR10, HLG, 3D, CinemaMaster Video + (Motion Enhancer 4K, Pixel Enhancer 4K), CinemaMaster Audio + 2, Auto Keystone

Compatibility

Resolution Support	VGA (640 x 480) to 4K UHD (3840 x 2160)
Horizontal Frequency	15K-135KHz
Vertical Scan Rate	23-120Hz
HDTV Compatibility	720p 50/60Hz, 1080i 50/60Hz, 1080p 24/25/30/50/60Hz, 2160p 23/24/25/30/60Hz
Video Compatibility	N/A

Power

Power Comsumption(Max/Normal/Eco)	Max 350W, Normal 340W, Eco 280W
Standby Power Comsumption	0.5W Max. at 100 ~ 240VAC
Power Supply	VAC 100 ~ 240 (50/60Hz)

Dimension and Weight

Product Dimensions (WxHxD)	380 x 127 x 263 mm
Product Weight	4.2 kg

Operation Condition

Noise Level(Normal/Eco)	30/28dBA (Silence mode)
Operating Temperature	0~40 degrees (Celcius)

Accessories

Accessories (Standard)	Remote Control - RCV017 w/ Battery x 1 (5J.JKC06.001) Power Cord (by region) x 1(3m) User Manual CD (27L) Quick Start Guide (21L) Warranty Card (by region)
Accessories (Optional)	Spare Lamp Kit (5J.JKC05.001) 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 (28 Languages)

Environment Notice

*In 3D Mode: Resolution is 1920x1080 in 3D Mode.

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

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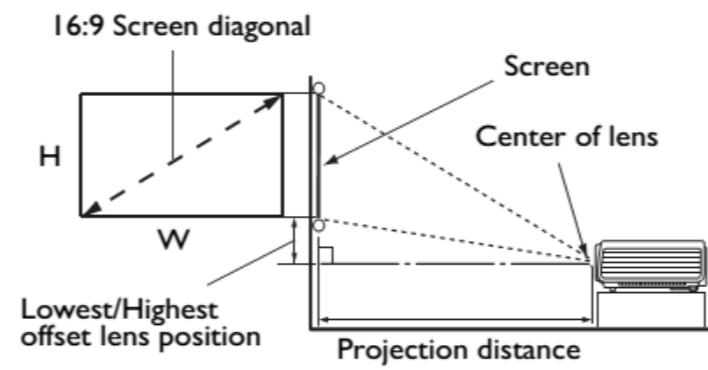
Connectivity

		Qty
1	HDMI (2.0b, HDCP2.2)	2
2	USB TypeA (5V/2.5A power)	1
3	USB TypeA (Media Reader, FW download)	1
4	USB Type min B (FW download, service)	1
6	Audio out (mini jack)	1
7	Audio out (S/PDIF) - (Only support 2-channel audio)	1
8	RS232 In (D-sub 9pin, male)	1
9	DC 12V Trigger (3.5mm Jack)	1
10	Kensington anti-theft lock slot	1
11	IR Receiver (Front+Top)	2

Installation

Screen size				Distance from screen (mm)		
Diagonal		H (mm)	W (mm)	Min length	Average	Max length
Inch	mm			(max. zoom)		(min. zoom)
30	762	374	664	750	863	976
40	1016	498	886	1001	1151	1302
50	1270	623	1107	1251	1439	1627
60	1524	747	1328	1501	1727	1953
70	1778	872	1550	1751	2015	2278
80	2032	996	1771	2001	2302	2603
90	2286	1121	1992	2251	2590	2929
100	2540	1245	2214	2502	2878	3254
110	2794	1370	2435	2752	3166	3580
120	3048	1494	2657	3002	3454	3905
130	3302	1619	2878	3252	3741	4231
140	3556	1743	3099	3502	4029	4556
150	3810	1868	3321	3752	4317	4881
160	4064	1992	3542	4003	4605	5207
170	4318	2117	3763	4253	4893	5532
180	4572	2241	3985	4503	5180	5858
190	4826	2366	4206	4753	5468	6183
200	5080	2491	4428	5003	5756	6509
210	5334	2615	4649	5253	6044	6834
220	5588	2740	4870	5504	6331	7159
230	5842	2864	5092	5754	6619	7485
240	6096	2989	5313	6004	6907	7810
250	6350	3113	5535	6254	7195	8136
260	6604	3238	5756	6504	7483	8461
270	6858	3362	5977	6754	7770	8787
280	7112	3487	6199	7004	8058	9112
290	7366	3611	6420	7255	8346	9437
300	7620	3736	6641	7505	8634	9763

263 mm

380 mm

127 mm

Color Depth

Display format (refresh rate)	Chroma subsampling	8 Bit	10 Bit	12 Bit
4K/60p (60 Hz)	04:04:04	Yes	No	No
	04:02:02	Yes	Yes	Yes
	04:02:00	Yes	Yes	Yes
4K/24p (24 Hz)	04:04:04	Yes	Yes	Yes
	04:02:02	Yes	Yes	Yes
	04:02:00	Yes	Yes	Yes

Feature icons