

# TK850i

## BenQ DLP Projector



### Features

- 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



### Product Specifications

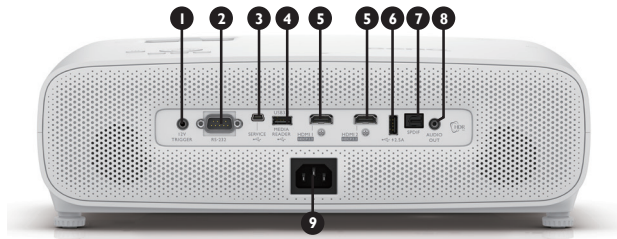
<b>Projection System</b>	DLP
<b>DMD type</b>	0.47"
<b>Native Resolution</b>	4K UHD (3840 x 2160) Resolution
<b>Brightness</b>	3,000 ANSI Lumens
<b>Contrast Ratio**</b>	30,000 : 1 (Dynamic Iris)
<b>Display Color</b>	30 Bits (1.07 billion colors)
<b>Aspect Ratio</b>	Native 16 : 9 (6 aspect ratio selectable)
<b>Light Source</b>	Lamp
<b>Light Source life***</b>	Normal 4,000 hours / Eco 10,000 hours / SmartEco 15,000 hours
<b>Throw Ratio</b>	1.13 - 1.47 (100" @ 2.5 m)
<b>Zoom Ratio</b>	1.3X
<b>Keystone Correction</b>	1D, (Auto) Vertical ± 30 degrees
<b>Projection Offset</b>	100%
<b>Lens Shift</b>	Vertical +10%
<b>Projection Size (Clear Focus / Maximum)</b>	40"~200" / 30"~300"
<b>Built-in Speaker</b>	5W x 2 (Chamber)
<b>Picture Mode</b>	Bright / Living Room / Cinema/ Sports / Silence / (3D)* / User 1 / HDR / HLG
<b>Color Wheel Segment</b>	4 segment (RGBW)
<b>Color Wheel Speed</b>	2D: 96Hz; 100Hz; 120Hz / 3D: 120Hz
<b>Security</b>	Security Bar; Kensington lock
<b>Feature</b>	HDR10, HLG, 3D, CinemaMaster Video + (Motion Enhancer 4K, Pixel Enhancer 4K), CinemaMaster Audio + 2, Auto Keystone
<b>Resolution Support</b>	VGA (640 x 480) to 4K UHD (3840 x 2160)
<b>Horizontal Frequency</b>	15K-135KHz
<b>Vertical Scan Rate</b>	23-120Hz
<b>HDTV Compatibility</b>	720p 50/60Hz, 1080i 50/60Hz, 1080p 24/25/30/50/60Hz, 2160p 23/24/25/30/60Hz
<b>Power Consumption (Max / Normal / Eco)</b>	Max 350W, Normal 340W, Eco 280W
<b>Standby Power Consumption</b>	0.5W Max. at 100 ~ 240VAC
<b>Power Supply</b>	VAC 100 ~ 240 (50/60Hz)
<b>Product Dimensions (W x H x D)</b>	380 x 127 x 263 mm
<b>Product Weight</b>	4.2 kg
<b>Noise Level (Normal / Eco)</b>	30 / 28dBA (Silence mode)
<b>Operating Temperature</b>	0~40 degrees (Celsius)
<b>Accessories (Standard)</b>	Remote Control - RCV017 with Battery x 1 (5JJKC06.001) Power Cord (by region) x 1 (3m) User Manual CD (27L) Quick Start Guide (21L) Warranty Card (by region)
<b>Accessories (Optional)</b>	Spare Lamp Kit (5JJKC05.001) 3D Glasses
<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 (28 Languages)

\* 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.

## Input and Output Terminals

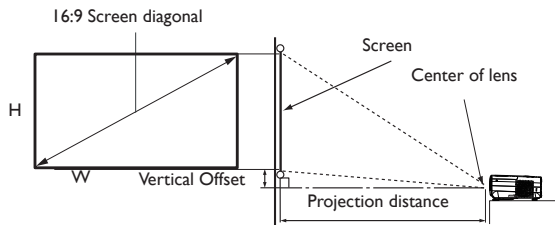


- 1 DC 12V Trigger (3.5 mm Jack)
- 2 RS232 input (D-sub 9pin, male)
- 3 USB Type min B (FW download, service)
- 4 USB Type A (Media Reader, FW download)
- 5 HDMI (HDCP2.2)
- 6 USB Type A (5V/2.5A power)
- 7 Audio output (S/PDIF)
- 8 Audio output (mini jack)
- 9 AC Power cable inlet

## Dimensions



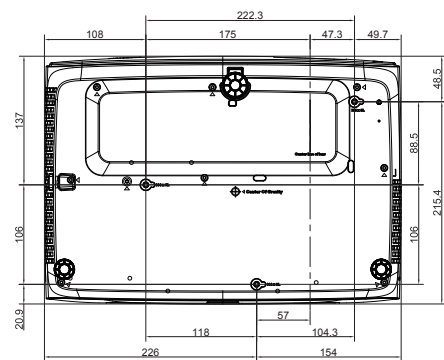
## Distance Chart



Screen Size				Distance from Screen		
Diagonal	Height	Width	Min length (max zoom)	Average	Max length (min zoom)	
inch	mm	mm	mm	mm	mm	
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	4002	4605	5207
170	4318	2117	3763	4252	4893	5532
180	4572	2241	3985	4502	5180	5858
190	4826	2366	4206	4752	5468	6183
200	5080	2491	4428	5002	5756	6509
210	5334	2615	4649	5252	6044	6834
220	5588	2740	4870	5502	6331	7159
230	5842	2864	5092	5752	6619	7485
240	6096	2989	5313	6002	6907	7810
250	6350	3113	5535	6252	7195	8136
260	6604	3238	5756	6502	7483	8461
270	6858	3362	5977	6752	7770	8787
280	7112	3487	6199	7002	8058	9112
290	7366	3611	6420	7252	8346	9437
300	7620	3736	6641	7502	8634	9763

## Ceiling Mount Chart

Ceiling/Wall mount screw: M4  
(Max L = 25 mm; Min L = 20 mm)



Unit: mm

## Color Depth

Displat 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

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# QS01

## BenQ HDMI Media Streaming

Powered by  
**androidtv**



### Features

- Official Legal apps from Google Play Market
- Amazon Prime Pre-Load
- Multiple Platform Streaming
- Securd and Safe Content with parental control kids channel
- Google Voice Search/Assistant
- Unify Remote Control for Projector and ATV
- Plug n Play

### Product Specifications

<b>Display</b>	CPU	Amlogic S905 Y2, Quad A55
	GPU	Mali-G31 MP2
	DDR RAM	2G
	ROM EMMC	16G
	WIFI Module	2.4G/5G , 802.11 a/b/g/n/ac
	Bluetooth	BT 4.2
	Input power	5V,1A
	<b>Input / Output</b>	HDMI Out
Micro USB		x 1
<b>System</b>	Google Android TV	ATV 9.0
	Pre-Load apps	Amazon Prime, Wireless Projection, FamiLand
	Dolby	Yes
	HDR/HLG	Yes
<b>Special Feature</b>	Amason Prime	Amazon Prime
	Wireless Display	IOS (AirPlay) /Android (Chromecast) /Chrome browser
	FamiLand	Securd and Safe Content with parental control kids channel
	Voice Search	Google Assistant (by Google Launch country)
	Voice Assistant	Google Assistant (by Google Launch country)
<b>Operation Condition</b>	Operating Temperature	0~40 degrees (Celcius)