



## BenQ DLP Projector W1800

#### Feature Highlight

- True 4K UHD 8.3M Pixel resolution
- \* Hyper-Realistic Video Quality with projector-optimized HDR10 / HLG
- \* BenQ CinematicColor™ Technology for supreme colors
- \* I 00% Rec.709 with optimized RGBRGB color wheel
- Took Real of Wish opanized Red Red Color Wi
- \* Short Throw: 100 inches at 2.5 meters
- \* 3D Keystone

3D compatibility

Light Source life\*

**Display**Projection System

Projection System DLP
DMD type 0.47"

Native Resolution 4K UHD (3840 x 2160)
Brightness 2000 ANSI Lumens

Contrast Ratio\* 10,000:1

Display Color 10 Bits (1,07 billion colors)

Aspect Ratio Native 16:9 (2 aspect ratio selectable)

Light Source Lamp

Lamp Save 15000 hours

Economic 10000 hours SmartEco 8000 hours Lamp Save 15000 hours

Normal 4000 hours

Optical

Throw Ratio 1.127 - 1.46 (100" @ 2.5 m)

Zoom Ratio 1.3x ±2%

Keystone Correction 2D, (Auto) Vertical, Horizontal Keystone, Picture Rotation +/- 30°

Projection Offset  $110\%\pm3\%$ Projection Size (Clear Focus / Maximum)  $60" \sim 200"$ 

Audio

Built-in Speaker 5W x I

Special Feature

Security Security Bar

Feature HDR10 / HLG, 3D, 3D Keystone Compatibility

Resolution Support VGA (640  $\times$  480) to 4K UHD (3840  $\times$  2160)

Horizontal Frequency 15K-135KHz

Vertical Scan Rate 23-240Hz

HDTV Compatibility 480i, 480p, 576i, 576p, 720p, 1080i, 1080p, 2160p

Video Compatibility N/A

Power Communication (May /Normal/Form

Power Comsumption(Max/Normal/Eco) 380W/310W/215W

Standby Power Comsumption < 0.5W Max. at 100 ~ 240VAC

Power Supply VAC 100 ~ 240 (50/60Hz)

Dimension and Weight

Product Dimensions (WxHxD) 312mm x 110mm x 246mm (w/ adjustment feet)

Product Weight 3.1 kg

**Operation Condition** 

Noise Level(Normal/Eco) 34/28 dBA

Operating Temperature 0~40 degrees (Celcius)

Accessories

Accessories (Standard) Remote Control w/ Battery x I (RCV017)

Power Cord (by region) x I(I.8m)

Quick Start Guide

Warranty Card (by region)

Accessories (Optional) BenQ HDMI Video Streaming (QS01) x 1 (5J.JH314.001)

Spare Lamp Kit (5J.JNL05.001)

Simplified Chinese/Spanish/ Swedish/ Turkish/ Thai/ Traditional Chinese (30 Languages)

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/

**Environment Notice** 

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

 $\ensuremath{^{**}}$  The Contrast is measure by Full On Full Off standard.

\*\*\*In 3D Mode: Resolution is 1920×1080 in 3D Mode.



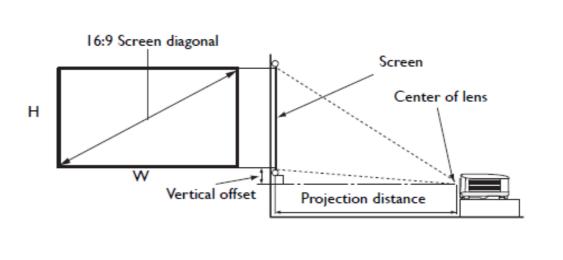
### Connectivity



No	I/O Name	Quantity	
I	HDMI (2.0b, HDCP2.2)	I	
2	HDMI (2.0b, HDCP2.2) - (support Audio R	I	
3	RS232 In (D-sub 9pin, male)	I	
4	Audio Out (mini jack)	I	
5	USB Type A(I.5A power)	I	
6	Hidden Space for ATV dongle		
	- HDMI (2.0b, HDCP2.2)	I	
	- micro USB cable (5V/1.5A power)	I	
7	Kensington anti-theft lock slot	I	
8	IR Receiver (Front & Top)	2	

#### Installation

Diagonal   H (mm)   W (mm)   Min distance (with max zoom)   Average (min)   Min distance (with max zoom)   Min distance (with max zoom)   Min distance (with min zoom)   Min distance (with max zoom)   Min distance (with min zoom)   Min distance (w	Screen size			Projection distance (mm)			Vertical	
100   1016   498   886   998   1145   1293   50   1270   623   1107   1247   1432   1616   62   60   1524   747   1328   1497   1718   1939   75   70   1778   872   1550   1746   2004   2263   87   80   2032   998   1771   1998   2291   2588   100   90   2288   1121   1992   2245   2577   2909   112   100   2540   1245   2214   2485   2884   3232   125   110   2794   1370   2435   2744   3150   3555   137   120   3048   1494   2657   2994   3430   3879   149   130   3302   1619   2878   3243   3723   4202   162   140   3556   1743   3099   3493   4009   4525   174   180   4084   1992   3542   3992   4582   5171   199   170   4318   2117   3763   4241   4888   5495   212   180   4572   2241   3985   4491   5154   5818   224   100   4820   2300   4200   4740   5441   0141   237   220   5882   2399   5313   5988   68873   7757   299   250   6350   3113   5535   6237   7159   8080   311   280   6804   3238   5756   6487   7445   8404   324   270   6858   3302   5977   6730   7732   8727   336   280   7112   3487   6199   6986   8018   9050   349   200   7300   3011   6420   7235   8304   9373   301	Diagonal		H (mm)	W (mm)	Min distance		Max distance	
40         1016         498         886         998         1145         1293         50           50         1270         623         1107         1247         1432         1616         62           60         1524         747         1328         1497         1718         1939         75           70         1778         872         1550         1746         2004         2263         87           80         2032         998         1771         1998         2291         2588         100           90         2286         1121         1992         2245         2577         2009         112           100         2540         1245         2214         2496         2804         3232         125           110         2704         1370         2435         2744         3150         3656         137           120         3048         1494         2857         2994         3438         3879         149           130         3302         1619         2878         3243         3723         4202         162           140         3556         1743         3099         3493         4	Inch	mm	()	** ()	(with max zoom)	Average	(with min zoom)	(mm)
50         1270         623         1107         1247         1432         1816         62           60         1624         747         1328         1497         1718         1939         75           70         1778         872         1550         1746         2004         2283         87           80         2032         998         1771         1998         2291         2586         100           90         2288         1121         1992         2245         2577         2909         112           100         2540         1245         2214         2485         2864         3232         125           110         2794         1370         2435         2744         3150         3555         137           120         3048         1404         2067         2094         3430         3879         149           130         3302         1619         2878         3243         3723         4202         162           140         3566         1743         3099         3493         4009         4525         174           150         3810         1868         3321         3742	30	762	374	664	748	859	970	37
60         1524         747         1328         1497         1718         1939         75           70         1778         872         1550         1746         2004         2263         87           80         2032         996         1771         1996         2291         2586         100           90         2286         1121         1992         2245         2577         2909         112           100         2540         1245         2214         2495         2864         3232         125           110         2794         1370         2435         2744         3150         3555         137           120         3048         1494         2657         2994         3436         3879         149           130         3302         1619         2878         3243         3723         4202         162           140         3556         1743         3099         3493         4009         4525         174           150         3810         1808         3321         3742         4295         4848         187           180         4064         1992         3542         3992	40	1016	498	886	998	1145	1293	50
70         1778         872         1550         1746         2004         2263         87           80         2032         996         1771         1996         2291         2596         100           90         2288         1121         1992         2245         2677         2009         112           100         2540         1245         2214         2495         2884         3232         125           110         2794         1370         2435         2744         3150         3655         137           120         3048         1494         2657         2994         3430         3879         149           130         3302         1619         2878         3243         3723         4202         162           140         3556         1743         3099         3493         4009         4525         174           150         3810         1888         3321         3742         4295         4848         187           180         4084         1992         3542         3992         4582         5171         199           170         4318         2117         3763         4241	50	1270	623	1107	1247	1432	1616	62
80         2032         996         1771         1996         2291         2598         100           90         2286         1121         1992         2245         2577         2009         112           100         2540         1245         2214         2495         2884         3232         125           110         2794         1370         2435         2744         3150         3555         137           120         3048         1494         2657         2994         3436         3879         149           130         3302         1619         2878         3243         3723         4202         162           140         3556         1743         3099         3493         4009         4525         174           150         3810         1888         3321         3742         4295         4848         187           160         4064         1992         3542         3992         4592         5171         199           170         4318         2117         3763         4241         4808         5495         212           180         4572         2241         3985         4491	60	1524	747	1328	1497	1718	1939	75
90         2296         1121         1992         2245         2577         2909         112           100         2540         1246         2214         2496         2864         3232         126           110         2794         1370         2436         2744         3150         3656         137           120         3048         1494         2657         2994         3436         3679         149           130         3302         1619         2978         3243         3723         4202         162           140         3556         1743         3099         3493         4009         4525         174           150         3810         1868         3321         3742         4296         4848         187           160         4084         1992         3542         3992         4582         5171         199           170         4318         2117         3763         4241         4888         5496         212           180         4572         2241         3985         4491         5154         5818         224           190         4826         2366         4206         4740 <td>70</td> <td>1778</td> <td>872</td> <td>1550</td> <td>1746</td> <td>2004</td> <td>2263</td> <td>87</td>	70	1778	872	1550	1746	2004	2263	87
100         2540         1245         2214         2495         2864         3232         125           110         2794         1370         2436         2744         3150         3555         137           120         3048         1494         2667         2994         3438         3879         149           130         3302         1619         2878         3243         3723         4202         162           140         3558         1743         3099         3493         4009         4525         174           150         3810         1888         3321         3742         4295         4848         187           160         4084         1992         3542         3892         4582         5171         199           170         4318         2117         3783         4241         4868         5495         212           180         4572         2241         3985         4491         5154         5818         224           190         4826         2366         4206         4740         5441         6141         237           200         5080         2491         4428         4990 </td <td>80</td> <td>2032</td> <td>996</td> <td>1771</td> <td>1996</td> <td>2291</td> <td>2586</td> <td>100</td>	80	2032	996	1771	1996	2291	2586	100
110         2794         1370         2435         2744         3150         3655         137           120         3048         1494         2657         2994         3436         3879         149           130         3302         1619         2878         3243         3723         4202         162           140         3558         1743         3099         3493         4009         4525         174           150         3810         1868         3321         3742         4295         4848         187           160         4064         1892         3542         3892         4582         5171         199           170         4318         2117         3763         4241         4868         5495         212           180         4572         2241         3985         4491         5154         5818         224           190         4926         2368         4206         4740         5441         6141         237           200         5080         2491         4428         4990         5727         0464         249           210         5334         2615         4649         5239 </td <td>90</td> <td>2286</td> <td>1121</td> <td>1992</td> <td>2245</td> <td>2577</td> <td>2909</td> <td>112</td>	90	2286	1121	1992	2245	2577	2909	112
120         3048         1494         2657         2994         3436         3879         149           130         3302         1619         2878         3243         3723         4202         182           140         3556         1743         3099         3493         4009         4525         174           150         3810         1868         3321         3742         4295         4848         187           160         4064         1992         3542         3992         4582         5171         199           170         4318         2117         3763         4241         4868         5495         212           180         4572         2241         3985         4491         5154         5818         224           190         4828         2366         4206         4740         5441         6141         237           200         5080         2491         4428         4990         5727         6464         249           210         5334         2615         4649         5239         6013         6788         282           220         5688         2740         4870         5489 </td <td>100</td> <td>2540</td> <td>1245</td> <td>2214</td> <td>2495</td> <td>2864</td> <td>3232</td> <td>125</td>	100	2540	1245	2214	2495	2864	3232	125
130         3302         1619         2878         3243         3723         4202         162           140         3556         1743         3099         3493         4009         4525         174           150         3810         1888         3321         3742         4295         4848         187           160         4064         1982         3542         3992         4582         5171         199           170         4318         2117         3763         4241         4888         5495         212           180         4572         2241         3985         4491         5154         5818         224           190         4826         2366         4206         4740         5441         6141         237           200         5080         2491         4428         4990         5727         6464         249           210         5334         2615         4649         5239         6013         6788         262           220         5588         2740         4870         5489         6300         7111         274           230         5842         2864         5092         5738 </td <td>110</td> <td>2794</td> <td>1370</td> <td>2435</td> <td>2744</td> <td>3150</td> <td>3555</td> <td>137</td>	110	2794	1370	2435	2744	3150	3555	137
140         3556         1743         3099         3493         4009         4525         174           150         3810         1868         3321         3742         4295         4848         187           180         4064         1992         3542         3992         4582         5171         199           170         4318         2117         3763         4241         4868         5495         212           180         4572         2241         3985         4491         5154         5818         224           190         4828         2366         4208         4740         5441         6141         237           200         5080         2491         4428         4990         5727         6464         249           210         5334         2615         4649         5239         6013         6788         262           220         5588         2740         4870         5489         6300         7111         274           230         5842         2864         5092         5738         6586         7434         286           240         6098         2989         5313         5988 </td <td>120</td> <td>3048</td> <td>1494</td> <td>2657</td> <td>2994</td> <td>3436</td> <td>3879</td> <td>149</td>	120	3048	1494	2657	2994	3436	3879	149
150         3810         1868         3321         3742         4295         4848         187           160         4064         1992         3542         3992         4582         5171         199           170         4318         2117         3763         4241         4868         5495         212           180         4572         2241         3985         4491         5154         5818         224           190         4826         2366         4206         4740         5441         6141         237           200         5080         2491         4428         4990         5727         6464         249           210         5334         2615         4649         5239         6013         6788         262           220         5588         2740         4870         5489         6300         7111         274           230         5842         2864         5092         5738         6586         7434         286           240         6096         2989         5313         5988         6873         7757         299           250         6350         3113         5535         6237 </td <td>130</td> <td>3302</td> <td>1619</td> <td>2878</td> <td>3243</td> <td>3723</td> <td>4202</td> <td>162</td>	130	3302	1619	2878	3243	3723	4202	162
180         4064         1992         3542         3992         4582         5171         199           170         4318         2117         3763         4241         4868         5495         212           180         4572         2241         3985         4491         5154         5818         224           190         4826         2366         4206         4740         5441         6141         237           200         5080         2491         4428         4990         5727         6464         249           210         5334         2615         4649         5239         6013         6788         262           220         5588         2740         4870         5489         6300         7111         274           230         5842         2864         5092         6738         6586         7434         286           240         6098         2989         5313         5988         6873         7757         299           250         6350         3113         5535         6237         7159         8080         311           280         6604         3238         5756         6487 </td <td>140</td> <td>3556</td> <td>1743</td> <td>3099</td> <td>3493</td> <td>4009</td> <td>4525</td> <td>174</td>	140	3556	1743	3099	3493	4009	4525	174
170         4318         2117         3763         4241         4868         5495         212           180         4572         2241         3985         4491         5154         5818         224           190         4826         2366         4208         4740         5441         6141         237           200         5080         2491         4428         4990         5727         6484         249           210         5334         2615         4649         5239         6013         6788         262           220         5588         2740         4870         5489         6300         7111         274           230         5842         2864         5092         5738         6586         7434         286           240         6096         2989         5313         5988         6873         7757         299           250         6350         3113         5535         6237         7159         8080         311           280         6044         3238         5756         6487         7445         8404         324           270         8858         3362         5977         6736 </td <td>150</td> <td>3810</td> <td>1868</td> <td>3321</td> <td>3742</td> <td>4295</td> <td>4848</td> <td>187</td>	150	3810	1868	3321	3742	4295	4848	187
180         4572         2241         3985         4491         5154         5818         224           190         4826         2366         4206         4740         5441         6141         237           200         5080         2491         4428         4990         5727         6464         249           210         5334         2615         4649         5239         6013         6788         262           220         5588         2740         4870         5489         6300         7111         274           230         5842         2864         5092         5738         6586         7434         286           240         6098         2989         5313         5988         6873         7757         299           250         6350         3113         5535         6237         7159         8080         311           260         6604         3238         5756         6487         7445         8404         324           270         6858         3362         5977         6736         7732         8727         336           280         7112         3487         6199         6986 </td <td>160</td> <td>4064</td> <td>1992</td> <td>3542</td> <td>3992</td> <td>4582</td> <td>5171</td> <td>199</td>	160	4064	1992	3542	3992	4582	5171	199
190         4826         2366         4206         4740         5441         6141         237           200         5080         2491         4428         4990         5727         6464         249           210         5334         2615         4649         5239         6013         6788         262           220         5588         2740         4870         5489         6300         7111         274           230         5842         2864         5092         5738         6586         7434         286           240         6096         2989         5313         5988         6873         7757         299           250         6350         3113         5535         6237         7159         8080         311           260         6604         3238         5756         6487         7445         8404         324           270         6858         3362         5977         6736         7732         8727         336           280         7112         3487         6199         6986         8018         9050         349           290         7366         3611         6420         7235 </td <td>170</td> <td>4318</td> <td>2117</td> <td>3763</td> <td>4241</td> <td>4868</td> <td>5495</td> <td>212</td>	170	4318	2117	3763	4241	4868	5495	212
200         5080         2491         4428         4990         5727         6464         249           210         5334         2615         4649         5239         6013         6788         262           220         5588         2740         4870         5489         6300         7111         274           230         5842         2864         5092         5738         6586         7434         286           240         6096         2989         5313         5988         6873         7757         299           250         6350         3113         5535         6237         7159         8080         311           260         6604         3238         5756         6487         7445         8404         324           270         6858         3362         5977         6736         7732         8727         336           280         7112         3487         6199         6986         8018         9050         349           290         7366         3611         6420         7235         8304         9373         361	180	4572	2241	3985	4491	5154	5818	224
210         5334         2615         4649         5239         6013         6788         262           220         5588         2740         4870         5489         6300         7111         274           230         5842         2864         5092         5738         6586         7434         286           240         6096         2989         5313         5988         6873         7757         299           250         6350         3113         5535         6237         7159         8080         311           260         6604         3238         5756         6487         7445         8404         324           270         6858         3362         5977         6736         7732         8727         336           280         7112         3487         6199         6986         8018         9050         349           290         7366         3611         6420         7235         8304         9373         361	190	4826	2366	4206	4740	5441	6141	237
220         5588         2740         4870         5489         6300         7111         274           230         5842         2864         5092         5738         6586         7434         286           240         6096         2989         5313         5988         6873         7757         299           250         6350         3113         5535         6237         7159         8080         311           260         6604         3238         5756         6487         7445         8404         324           270         6858         3362         5977         6736         7732         8727         336           280         7112         3487         6199         6986         8018         9050         349           290         7366         3611         6420         7235         8304         9373         361	200	5080	2491	4428	4990	5727	6464	249
230         5842         2864         5092         5738         6586         7434         286           240         6096         2989         5313         5988         6873         7757         299           250         6350         3113         5535         6237         7159         8080         311           260         6604         3238         5756         6487         7445         8404         324           270         6858         3362         5977         6736         7732         8727         336           280         7112         3487         6199         6986         8018         9050         349           290         7366         3611         6420         7235         8304         9373         361	210	5334	2615	4649	5239	6013	6788	262
240         6096         2989         5313         5988         6873         7757         299           250         6350         3113         5535         6237         7159         8080         311           260         6604         3238         5756         6487         7445         8404         324           270         6858         3362         5977         6736         7732         8727         336           280         7112         3487         6199         6986         8018         9050         349           290         7366         3611         6420         7235         8304         9373         361	220	5588	2740	4870	5489	6300	7111	274
250         6350         3113         5535         6237         7159         8080         311           260         6604         3238         5756         6487         7445         8404         324           270         6858         3362         5977         6736         7732         8727         336           280         7112         3487         6199         6986         8018         9050         349           290         7366         3611         6420         7235         8304         9373         361	230	5842	2864	5092	5738	6586	7434	286
260     6604     3238     5756     6487     7445     8404     324       270     6858     3362     5977     6736     7732     8727     336       280     7112     3487     6199     6986     8018     9050     349       290     7366     3611     6420     7235     8304     9373     361	240	6096	2989	5313	5988	6873	7757	299
270     6858     3362     5977     6736     7732     8727     336       280     7112     3487     6199     6986     8018     9050     349       290     7366     3611     6420     7235     8304     9373     361	250	6350	3113	5535	6237	7159	8080	311
280     7112     3487     6199     6986     8018     9050     349       290     7366     3611     6420     7235     8304     9373     361	260	6604	3238	5756	6487	7445	8404	324
290 7366 3611 6420 7235 8304 9373 361	270	6858	3362	5977	6736	7732	8727	336
	280	7112	3487	6199	6986	8018	9050	349
300 7620 3736 6641 7485 8591 9696 374	290	7366	3611	6420	7235	8304	9373	361
	300	7620	3736	6641	7485	8591	9696	374







# **Feature icons**











