

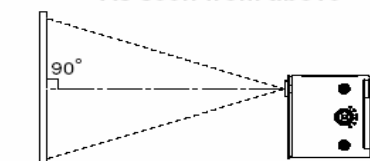
Toshiba TDP-T90U/T91U/TW90U Projector Specifications

Model		TDP-T90U	TDP-T91U	TDP-TW90U
Display Technology	Shape		0.7" DMD DLP	
Projection Lens	No. of Pixels		786,432 (1024 x 768)	
Light Source	Standard Lens		1.2x manual zoom/manual focus	
Brightness	F/f (mm)		F = 2.4 - 2.65, f = 28.04 - 35.59mm	
Native Resolution			200W (160W in low mode)	
Wireless Technology			2200 ANSI lumens	
Detachable Document Camera		N/A	N/A	IEEE 802.11b
Color Reproduction			Full 16.7 Million Colors	
Throw Ratio			2.0 - 2.4:1	
Contrast Ratio			2000:1	
Projection Screen Size (Diagonal)			24.6" - 246"	
Projection Distance			3.9 ft - 32.8 ft	
Compatible Scanning Frequency	Horizontal (kHz)		15 - 93kHz	
	Vertical (Hz)		50 - 85Hz	
Input Terminals	Video		1x RCA, 1x S-Video	
	Color Difference		1x mini D-sub 15, shared with RGB signal	
	Audio		1x stereo mini-jack, 2x RCA for Video, 2x RCA for S-video	
	RGB		2x RGB	
Input Signal Format	Video		NTSC, PAL, SECAM	
	Color Difference		HDTV/DTV (480i/480p/1080i/720p), DVD	
	RGB		VGA, SVGA, XGA, SXGA (compressed), UXGA (compressed), MAC	
Output Terminals	Audio		1x stereo mini-jack	
Automatic Keystone Correction	RGB		1x RGB	
Noise Level			Digital +/- 15°	
Internal Speaker			35dBA (32dBA in low mode)	
PC Interface			1.0W Monaural	
External Dimensions (WxDxH)		11.7" x 10.8" x 4.0"	15.1" x 10.8" x 4.0"	11.7" x 10.8" x 4.0"
Weight		6.2 lbs.	8.2 lbs.	6.4 lbs.
Power Source			100-240V, 50/60Hz	

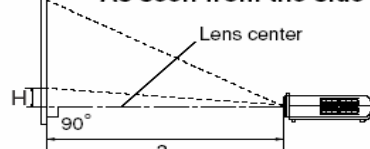
Projection Distance and Size

Use the figures, tables, and formulas below to determine the projection size and projection distance. (Projection sizes are approximate values for full-size picture with no keystone adjustment.)

Screen **As seen from above**



As seen from the side



a is the distance (m) between the lens and the screen, and corresponds to a range of 1.20 m to 10.00 m. **H** is the height from the image bottom to the center of the lens.

$$a \text{ (min length)} = \text{projection size (inches)} \times 4.064$$

$$a \text{ (max length)} = \text{projection size (inches)} \times 4.878$$

projection size (inches)	projection distance a (m)		height (H) (cm)
	min length (zooming max)	max length (zooming min)	
24.6	—	1.20	5.6
40	1.62	1.95	9.1
60	2.44	2.93	13.8
80	3.25	3.90	18.3
100	4.00	4.88	22.9
150	6.10	7.30	34.3
200	8.10	9.76	45.7
246	10.00	—	56.2

Box Contents	Remote Control, Power Cord, RGB Cable, CD-ROM, User's Manual, Soft Carrying Case
	Document Camera Cable* (*supplied with TDP-T91U model only) Wireless PC LAN Card* (*supplied with TDP-TW90U model only)
Document Camera	TDP-T91U
Image pick-up device	1/4.2-inch Honeycomb CCD
Pixels	629,856 (648H x 486V x 2)
Camera Lens	F=2.8, f= 2.8mm, two-step manual focus for "Far" or "Near" viewing, camera gain