

Maximize the audience's attention.

Toshiba TDP-T90U/T91U/TW90U

Designed to meet the diverse needs of today's business professionals, the Toshiba TDP-T90U/T91U/TW90U Series delivers leading-edge features such as integrated wireless functionality, and special projection capabilities including a detachable document camera to enhance presentations, while maintaining flexibility for mobile users.



TDP-T91U pictured

TDP-T90U/T91U/TW90U

The high performance projection capabilities and advanced multimedia features combine to make the TDP-T90U/T91U/TW90U projector series ideal for presenters that demand quality, flexibility and versatility. With integrated wireless capabilities and detachable document camera options, Toshiba's new models provide users with powerful projectors that can meet any professional presentation need.

Sharp and Bright Display:

Toshiba's TDP-T90U/T91U/TW90 Series projectors are ideal for presenters who demand quality, versatility and performance. Packaged in a small form factor, the high-performance TDP-T90U/T91U/TW90 Series features DLP technology, 2,000 ANSI lumens, native XGA 1024 x 768 resolution, and 2000:1 contrast ratio to deliver bright, captivating images that can go anywhere, anytime.

Wireless Networking for Added Flexibility:

With integrated wireless functionality (IEEE 802.11b), the Toshiba TDP-TW90U delivers fast set-up time and presentation flexibility. Without the hassle of additional cables, a presenter can just turn the unit on and go without worrying about extra time needed to connect to a notebook or fumble with set up. The TDP-TW90U also offers on-the-go professionals the option to deliver a "PC-free" presentation by adding a type II storage card.

Add More Impact to Your Presentations:

The Toshiba TDP-T91U features a detachable document camera allowing users to create a comprehensive presentation without having to purchase a separate piece of equipment. Users can simply unclip the document camera from the projector, and position it almost anywhere to add photo samples, printed documents or just about anything else into their presentations.

Product Specifications

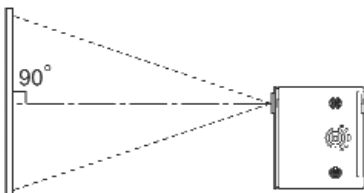
Toshiba TDP-T90U/T91U/TW90U



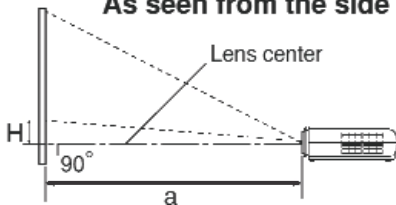
Projection Distance and Size

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

Display Technology

Shape
-0.7" DMD DLP
Number of Pixels
-786,432 (1024 x 768)

Projection Lens

Standard Lens
-1.2x manual zoom/manual focus
F/f (mm)
-F = 2.4 - 2.65, f = 28.04 - 35.59mm

Light Source

-200W (160W in low mode)

Brightness

-2000 ANSI lumens

Native Resolution

-XGA 1024 x 768

Wireless Technology

-IEEE 802.11b (TDP-TW90U)

Detachable Document Camera

-TDP-T91U

Color Reproduction

-Full 16.77 Million Colors

Contrast Ratio

-2000:1

Projection Screen Size (Diagonal)

-24.6" - 246"

Projection Distance

-3.9 ft - 32.8 ft

Throw Ratio

-2.0 - 2.4:1

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

RGB

-VGA, SVGA, XGA, SXGA (compressed), UXGA (compressed), MAC

Color Difference

-HDTV/DTV (480i/480p/1080i/720p), DVD

Output Terminal

RGB

-1x RGB

Audio

-1x stereo mini-jack

Automatic Keystone Correction

-Digital +/- 15°

Noise Level

-35dBA (32dBA in low mode)

Internal Speaker

-1.0W Monaural

PC Interface

-RS232 (mini DIN-8 pin), USB

External Dimensions (WxDxH)

-11.7" x 10.8" x 4.0" (TDP-T90U, TDP-TW90U)

-15.1" x 10.8" x 4.0" (TDP-T91U)

Weight (lbs)

-6.2 lbs. (TDP-T90U)

-8.2 lbs. (TDP-T91U)

-6.4 lbs. (TDP-TW90U)

Power Source

-100-240V, 50/60Hz

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

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