# Toshiba X100U Mobile Projector Specifications

| Model | | Toshiba TLP-X100U |
|---|---|---|
| Display Technology | Shape | 0.63" 3LCD |
| | No. of Pixels | 786,432 (1024 x 768) |
| Projection Lens | Standard Lens | 1.2x manual focus/manual zoom |
| | F | F = 1.7 - 1.87, f = 19.2 - 23.1mm |
| Aspect Ratio | | 4:3 |
| Light Source | | 180W (136W in low mode) |
| Brightness | | 2200 ANSI lumens |
| Native Resolution | | XGA 1024 x 768 |
| Color Reproduction | | Full 16.7 Million Colors |
| Contrast Ratio (full on/off) | | 600:1 |
| Projection Screen Size (diagonal) | | 30" - 300" |
| Projection Distance | | 2.9 ft - 35.9 ft |
| Throw Ratio | | 1.48 - 1.77:1 |
| Compatible Scanning Frequency | Horizontal (kHZ) | 15.63 - 106.25kHz |
| | Vertical (Hz) | 50 - 85Hz |
| Input Terminal | RGB input 1 | 1 x D-sub 15-pin (shared as Component Video) |
| | RGB input 2 | 1 x D-sub 15-pin (shared by mechanical switch from RGB output) |
| | Video | 1x S-video; 1x RCA for Composite Video |
| | RGB Audio | 1x stereo mini-jack |
| Input Signal Format | Video | NTSC, PAL, SECAM |
| | Color Difference | HDTV/DTV (480p/480i/576i/576p/720p/1080i) |
| | RGB | VGA, SVGA, XGA (native), SXGA/UXGA (compressed) |
| Output Terminal | Audio | 1x stereo mini-jack (variable output) |
| | RGB | 1x D-sub 15-pin (share by mechanical switch from RGB input 2) |
| Other Terminal | RS-232 | 1x RS-232 (D-sub 9-pin) |
| Keystone Correction | | Auto Vertical +/- 45 degrees |
| Noise Level | | 32dB (28dB in low mode) |
| Internal Speaker | | 1.0W Monaural |
| External Dimensions (W x H x D) | | 10.6" x 2.8" x 7.4" |
| Weight | | 4.0 lbs. |
| Power Source | | AC100-240V, 50/60Hz |
| Power Consumption | | 270W |
| Service Replacement Lamp | | TLP-LW21 |
| Lamp Life (Standard/Low) | | 2000 hours / 3000 hours |
| Special Features | | Closed caption |
| | | Blackboard function |
| | | Auto set |
| | | User logo personalization |
| | | Security: password protection and panel lock |
| | | Digital Zoom |
| | | Instant power shut down |
| | | Active monitor loop through |
| Warranty | | Three-year limited warranty on parts and labor.<br>One year warranty on the lamp or 500 hours use, whichever comes first. |
| Box Contents | | Remote control<br>Two size AAA batteries<br>Power cord<br>RGB cable<br>CD-ROM<br>User's Manual<br>Soft Carrying Bag |



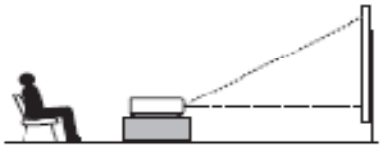
*RoHS.* This projector is compatible with European Union Directive 2002/95/EC, Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (RoHS), which restricts use of lead, cadmium, mercury, hexavalent chromium, PBB, and PBDE. Toshiba requires its projector component suppliers to meet RoHS requirements and verifies its suppliers' commitment to meeting RoHS requirements by conducting component sampling inspections during the product design approval process.

# Placement

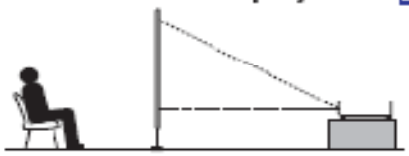
## Placement Styles

As shown in the figures below, this device can be placed in 4 different styles.
The factory setting is "floor-mounted front projection." Set the **[Projection mode]** in the **Default setting 2** menu p.40, in accordance with your needs.

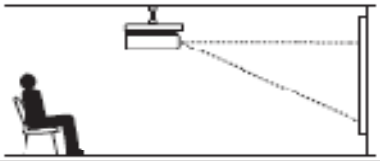
**Floor-mounted front projection**



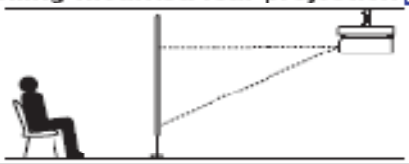
**Floor-mounted rear projection**



**Ceiling-mounted front projection**



**Ceiling-mounted rear projection**

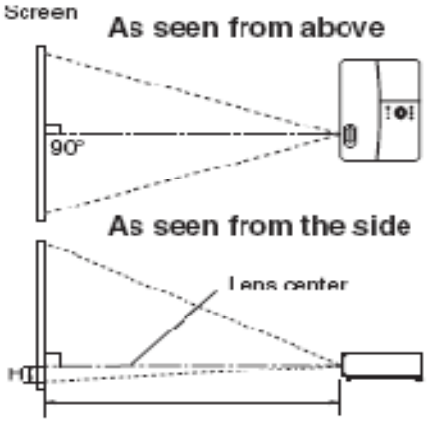


### ⚠ WARNING

- **Always obey the instructions listed in IMPORTANT SAFETY INSTRUCTIONS when placing the unit.** Attempting to clean and replace the lamp in a high location by yourself may cause you to fall, resulting in injury.
- **If you wish to mount the projector on the ceiling, be sure to ask your dealer to do so.** Mounting the projector on a ceiling requires special ceiling brackets (sold separately) and specialized knowledge. Improper mounting could cause the projector to fall, resulting in an accident.
- **If the projector is ceiling-mounted, install the breaker for turning off the power in case of anomaly.** Let everyone involved with the use of the projector know that fact.

### 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)




a is the distance (m, feet) between the lens and the screen, and corresponds to a range of 0.89 m (2.92 ft.) to 10.93 m (35.86 ft.).
H is the height from the image bottom to the center of the lens.

$$a\ (\text{min length}) = \frac{\text{Projection size (inches)} - 0.795}{32.516}$$

$$a\ (\text{max length}) = \frac{\text{Projection size (inches)} - 0.673}{27.090}$$

| Projection size | Projection distance a | | Height (H) |
|---|---|---|---|
| | min length (zooming max) | max length (zooming min) | |
| 30 inches | 0.89 m (2.92 ft.) | 1.07 m (3.51 ft.) | 6.50 cm (0.21 ft.) |
| 40 inches | 1.19 m (3.90 ft.) | 1.44 m (4.72 ft.) | 8.70 cm (0.29 ft.) |
| 50 inches | 1.50 m (4.92 ft.) | 1.80 m (5.91 ft.) | 10.90 cm (0.36 ft.) |
| 60 inches | 1.80 m (5.91 ft.) | 2.17 m (7.12 ft.) | 13.10 cm (0.43 ft.) |
| 70 inches | 2.10 m (6.89 ft.) | 2.53 m (8.30 ft.) | 15.20 cm (0.50 ft.) |
| 80 inches | 2.41 m (7.91 ft.) | 2.90 m (9.51 ft.) | 17.40 cm (0.57 ft.) |
| 90 inches | 2.71 m (8.89 ft.) | 3.26 m (10.70 ft.) | 19.60 cm (0.64 ft.) |
| 100 inches | 3.02 m (9.91 ft.) | 3.63 m (11.91 ft.) | 21.80 cm (0.72 ft.) |
| 120 inches | 3.63 m (11.91 ft.) | 4.36 m (14.30 ft.) | 26.10 cm (0.86 ft.) |
| 150 inches | 4.54 m (14.90 ft.) | 5.45 m (17.88 ft.) | 32.70 cm (1.07 ft.) |
| 200 inches | 6.06 m (19.88 ft.) | 7.28 m (23.88 ft.) | 43.50 cm (1.43 ft.) |
| 250 inches | 7.58 m (24.87 ft.) | 9.10 m (29.86 ft.) | 54.40 cm (1.78 ft.) |
| 300 inches | 9.10 m (29.86 ft.) | 10.93 m (35.86 ft.) | 65.30 cm (2.14 ft.) |