



SPEC FILE

PRODUCT NO.: PT-L720

PRODUCT NAME: Portable LCD Projector



MAJOR FEATURES

- Easy operation thanks to advanced auto setup
- Powerful 2,200 ANSI brightness and 3000-hour lamp life
- Extra-short throw lens—80-inch diagonal images from about 2.5 m away
- Two RGB inputs with loop-through monitoring capability
- True XGA, maximum UXGA resolution

Ultra-Portable LCD Projector

Specifications

Main Unit

Power supply:	100–240 V AC, 50/60 Hz
Power consumption:	300 W (during standby mode with fan stopped: Max. 1.5 W)
Colour system:	NTSC/M-NTSC/PAL/PAL-M/PAL-N/PAL-60/SECAM
LCD panel:	Panel size: 0.9" (diagonal)
	Display method: Transparent LCD panel (x 3, R/G/B)
	Drive method: Active matrix
	Pixels: 786,432 (1,024 x 768) x 3
	Pixel configuration: Stripe
Screen aspect ratio:	4:3
Lens:	Retractable power zoom/focus lens (1:1–1:1.3), F 1.7–2.2, f 28.7–36.0 mm
Lamp:	220 W UHM lamp
Colours:	Full colour (16,777,216 colours)
Brightness:	2200 ANSI lumens
Centre-to-corner uniformity ratio:	More than 90%
Contrast:	400:1 (all white/all black)
Resolution:	RGB: 1024 x 768 pixels, Video: 760 TV lines
Scanning frequency:	
	RGB: Horizontal: 31–91 kHz, Vertical: 56–87 Hz
	YPbPr: 480i/525i: Horizontal: 15.75 kHz, Vertical: 60 Hz
	625i: Horizontal: 15.63 kHz, Vertical: 50 Hz
	480p/525p: Horizontal: 31.5 kHz, Vertical: 60 Hz
	720p/750p: Horizontal: 45 kHz, Vertical: 60 Hz
	1080i/1125i: Horizontal: 33.75 kHz, Vertical: 60 Hz
	1080i/1125i: Horizontal: 28.125 kHz, Vertical: 50 Hz
	S-Video/Video: NTSC/NTSC4.43/PAL-M/PAL-60: Horizontal: 15.75 kHz, Vertical: 60 Hz
	PAL/SECAM/PAL-N: Horizontal: 15.63 kHz, Vertical: 50 Hz
Screen size:	1,016–7,620 mm (40–300 inches) diagonally
Optical axis shift:	9 : 1 (fixed)
Keystone correction angle:	Vertical: $\pm 30^\circ$
Installation:	Ceiling/desk, front/rear (menu selection)
Built-in speakers:	Size: 4 x 3 cm (x 1)
	Output power: 2.0 W
Terminals:	
	RGB1 IN: D-sub HD 15-pin x 2
	R, G, B: 0.7 Vp-p (1.0 Vp-p for Sync on G), 75 Ω
	HD/VD/SYNC: TTL, high impedance (positive/negative polarity)
	Y, PB, PR: Y: 1.0 p-p, 75 Ω , PB/PR: 0.7 Vp-p, 75 Ω
	AUDIO IN for RGB: M3 (L, R) x 1, 0.5 Vrms
	RGB2 IN/RGB1 OUT: D-sub HD 15-pin x 1
	G: 0.7 Vp-p (1.0 Vp-p for Sync on G), 75 Ω
	R, B: 0.7 Vp-p, 75 Ω
	HD/VD: TTL, high impedance (positive/negative polarity)
	Y, PB, PR: Y: 1.0 p-p, 75 Ω , PB/PR: 0.7 Vp-p, 75 Ω
	VIDEO IN: RCA x 1, 1.0 Vp-p, 75 Ω
	S-VIDEO IN: Mini DIN 4-pin x 1, Y: 1.0 Vp-p, C: 0.286 Vp-p, 75 Ω
	AUDIO IN for VIDEO: RCA (L, R), 0.5 Vrms
	AUDIO OUT: M3 (L, R) x 1, 0–2.0 Vrms (variable)
	SERIAL: D-sub 9-pin x 1 for external controller (RS-232C)
Power cord length:	3 m
Cabinet material:	ABS/PC
Dimensions (W x H x D):	245 x 118 x 341 mm
Weight:	3.9 kg

SPEC FILE**Ultra-Portable LCD Projector****PT-L720****Operating environment:**

Temperature: 0° – 40°C (32°–104°F)

Humidity: 20% – 80% (no condensation)

Safety regulations:

UL1950, C-UL, FCC class B, EN60950/IEC60950, EN55024, N55022 (B), EN61000-3-2, EN61000-3-3, VDE, GOST, MIC, CB, C-tick

Remote Control Unit**Power supply:**

3 V DC (button battery x 1)

Operation range:

Approx. 7 m when operated from directly in front of the signal receptor)

Dimensions (W x H x D):

33 x 168 x 40 mm

Weight:

Approx. 108 g (including batteries)

Accessories**Supplied accessories:**

Remote control, battery for remote control, power cord, RGB cable, AV cable, carrying bag

Optional accessories:

Replacement lamp unit: ET-LA730

Ceiling mount bracket: ET-PK730

Wide conversion lens: ET-LEC701

Wireless mouse receiver: ET-RMRC1

ET-ADBNC: D-sub 15-pin/BNC adapter

Weights and dimensions shown are approximate.
Specifications subject to change without notice.

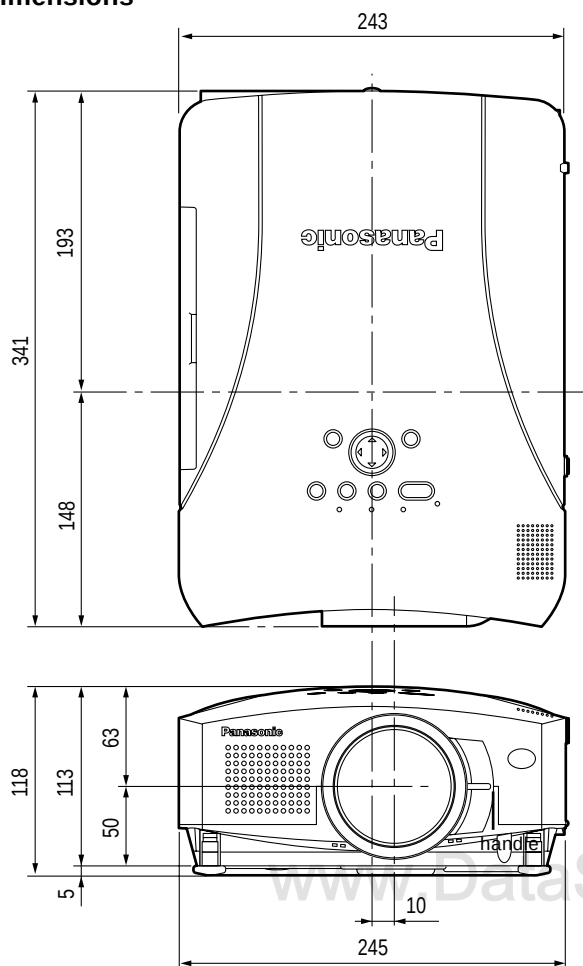
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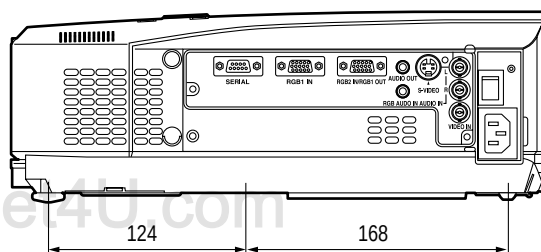
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Dimensions

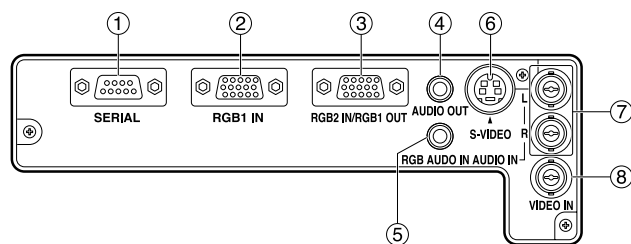


unit: mm



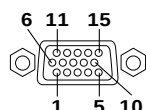
Note: This illustration is not drawn to scale.

Terminals



- | | |
|--------------------------|-------------------------------------|
| 1 USB connector | 7 S-Video input |
| 2 Serial (RS-232C) | 8 Audio input for S-Video and video |
| 3 RGB1 input | 9 Video input |
| 4 RGB2 input/RGB 1output | |
| 5 Audio output | |
| 6 Audio input for RGB | |

RGB IN connector pin assignment



no.	signal	no.	signal	no.	signal
1	R/PR	6	GND	11	NC
2	G/Y	7	GND	12	SDA*
3	B/PB	8	GND	13	HD/SYNC
4	GND	9	NC	14	VD
5	GND	10	GND	15	SCL*

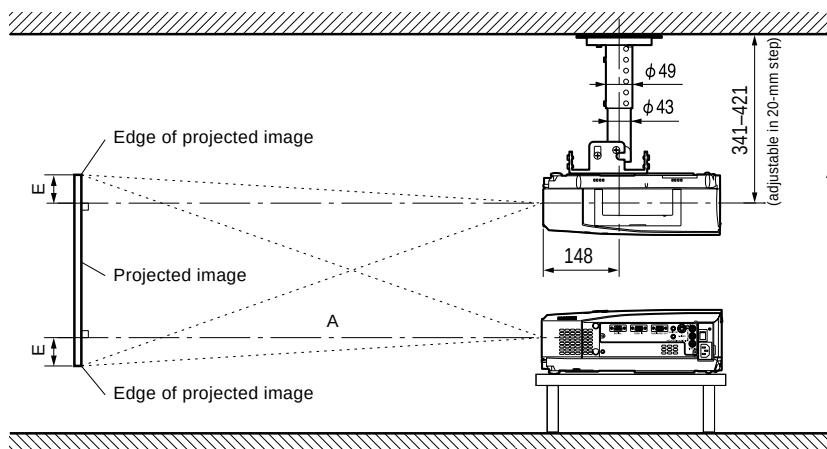
* Effective when connected to a PC having proper functions.

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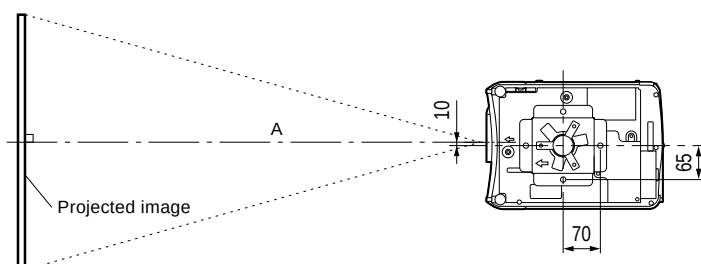
Standard setting-up positions

unit: mm



A: Projection distance between the screen and the surface of the lens

E: Height from the edge of screen to centre of lens



NOTE:

Illustrations show the projector installed using optional ceiling bracket ET-PK730.

Note: This illustration is not drawn to scale.

Screen size (diagonal) 4:3 aspect ratio	A (m)			E (cm)
	min.	recommended	max.	
40	1.2	1.5	1.5	6
50	1.6	1.9	1.9	8
60	1.9	2.3	2.3	9
70	2.2	2.7	2.7	11
80	2.5	3.1	3.1	12
90	2.8	3.5	3.5	14
100	3.1	3.9	3.9	15
120	3.7	4.7	4.7	18
150	4.7	5.8	5.8	23
200	6.2	7.8	7.8	30
250	7.8	9.8	9.8	38
300	9.4	11	11.8	46

Calculation of the projection distance

For a screen size different from the above, use the equation below to calculate the projection distance.

Aspect ratio 4 : 3

minimum L (m) = (diagonal screen size in inches) x 0.0310 - 0.068

maximum L (m) = (diagonal screen size in inches) x 0.0393 - 0.066

Aspect ratio 16 : 9

minimum L (m) = (diagonal screen size in inches) x 0.0340 - 0.068

maximum L (m) = (diagonal screen size in inches) x 0.0430 - 0.066

RGB signal compatibility

This projector accepts up to 91 kHz horizontal scanning frequency and 100 MHz dot clock.

NOTE:

The display resolution of this projector is 1024 x 768 pixels. If the display resolution indicated in the above data does not match this resolution, the input signal will be converted to 1024 x 768 pixels.

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