Panasonic
ideas for life

More Brightness, More Excitement

Full HD | **VIErA Link** | **HOLLYWOOD TUNING** | **3LCD**

The PT-AR100 lets friends and family enjoy Full-HD large screen entertainment from movies, sports to video games. Whether this projector is used for a house party filled with friends or for family movie night, the PT-AR100 will provide everybody with vivid, clear and stunning video content.

Large-Screen Entertainment for the Group

- 2,800 lumens of high brightness from newly developed 280W Red-Rich Lamp.
- Light Harmonizer 3 automatically adjusts the white balance, gamma curve and enhancer of the image to match the surrounding conditions with the built-in ambient light and color sensors.
- Seven picture modes for various viewing situations, including modes that are ideal for sports, games and movies. (Dynamic, Game, Sports, Rec. 709, Cinema 1, Vivid Cinema and Normal).
- Motion Effect adds smoothness and sharpness to fast-moving scenes.

Superb Picture Quality

- Outstanding 50,000:1 contrast ratio made possible via new high-precision optical system technology.
- Dynamic Iris Pro adds beauty to both dark and bright scenes.
- Pure Color Filter Pro for rich, vibrant colors.
- Detail Clarity Processor 3 for fine detail reproduction.
- 16-Bit digital processing produces smooth gradation.
- Split Adjust mode for easy picture adjustment.
- Waveform monitor for precise calibration makes sure full dynamic range is in use.

Installation Flexibility and Ease of Use

- 2x optical zoom/focus.
- V/H lens shift (vertical ±68%, horizontal ±26%).
- VIERA Link for easy control of multiple Panasonic devices.
- Eco Management function for smart power consumption control.
- Two HDMI™ inputs (supporting x.v.Color™ and Deep Color).
- Two programmable 12-volt trigger terminals.
- User-friendly ergonomic remote control featuring a Function button and Eco button.

Other Features

- Advanced Gamma Adjustment function allows precise calibration according to the signal source and environment.
- Cinema Color Management allows individual color correction.
- Progressive cinema scan (3/2 pulldown).
- 24p compatibility.
- Scene-adaptive MPEG noise reduction.
- Built-in test pattern.
- Screen memory.
- Up to sixteen sets of adjustment settings can be stored in memory with custom names that make them easy to remember.
- Easy lamp replacement from the top.
- A 3,000-hour[*1] lamp replacement cycle
- Easy filter replacement from the side.
- Quiet operation: 29 dB (lamp mode: eco).
- Made in Japan.

Ecology-Conscious Design

- No halogenated flame retardants are used in the cabinet.
- Non-coated cabinet for easy recycling.
- Lead-free glass for the lens.
- Standby power consumption of only 0.08 W (standby mode: eco).
- "ECO" button on the remote control.
- An off-timer that reduces wasteful power consumption.
- RoHS compliant.

[*1] Lamp mode: Eco

Specifications (Tentative)

Power supply	100–240 V AC, 50/60 Hz
Power consumption	350 W (0.08 W in standby mode with fan stopped.)
LCD*[1] panel	
Panel size	18.7 mm (0.74 in) diagonal (16:9 aspect ratio)
Display method	Transparent LCD panel (× 3, R/G/B)
Drive method	Active matrix
Pixels	2,073,600 (1,920 × 1,080) × 3, total of 6,220,800 pixels
Lamp*[2]	280 W UHM lamp
Lens	Manual zoom (1.33–2.69:1), manual focus, F 2.0–3.4, f 21.5–43.0 mm
Projection size (diagonal)	1.02–7.62 m (40–300 inches)
Colors	Full color (1,073,741,824 colors)
Brightness*[3]	2,800 lumens*[4]
Center-to-corner uniformity ratio*[3]	85%
Contrast ratio*[3]	50,000:1*[5] (full on/full off)
Resolution	1,920 × 1,080 pixels
Scanning frequency	
RGB	f_H: 15 kHz–74 kHz, f_V: 24 Hz–85 Hz, dot clock: 154 MHz or lower
YP$_B$P$_R$ (YC$_B$C$_R$)	525i (480i), 625i (576i), 525p (480p), 625p (576p), 750 (720)/60p, 750 (720)/50p, 1125 (1080)/60i, 1125 (1080)/50i, 1125 (1080)/24p, 1125 (1080)/60p, 1125 (1080)/50p
Video/S-Video	f_H: 15.75 kHz, f_V: 60 Hz [NTSC/NTSC4.43/PAL-M/PAL60] f_H: 15.63 kHz, f_V: 50 Hz [PAL/PAL-N/SECAM]
Optical axis shift*[6]	Vertical: ±68%, horizontal: ±26%
Keystone correction range	Vertical: approx. ±30°
Installation	Ceiling/desk, front/rear (menu selection)
On-screen menu languages	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Swedish, Danish, Norwegian, Polish, Czech, Hungarian, Portuguese, Thai, Japanese

Terminals	
HDMI IN	HDMI connector × 2, HDMI™ (Deep Color, x.v.Color™*[7], CEC*[8]), HDCP compliant, supports HDAVI Control Version 5
COMPUTER (RGB) IN	D-sub HD 15-pin (female) × 1 (RGB/YP$_B$P$_R$ × 1)
COMPONENT IN	RCA pin × 3 (YP$_B$P$_R$/YC$_B$C$_R$)
TRIGGER IN/OUT	M3 × 2, 12 V, max. 100 mA (input/output selectable using on-screen menu)
VIDEO IN	RCA pin × 1
S-VIDEO IN	Mini DIN 4-pin × 1
SERIAL IN	D-sub 9-pin (female) × 1 for external control (RS-232C compliant)
Power cord length	3.0 m (9 ft 10 in)
Cabinet materials	Molded plastic (PC+ABS)
Dimensions (W × H × D)	470 mm × 137 mm × 380 mm*[9] (18-1/2″ × 5-13/32″ × 14-31/32″)*[9]
Weight*[10]	Approx. 8.6 kg (19.0 lbs)
Operation noise*[3]	29 dB (lamp mode: eco)
Operating temperature	0°–40°C (32°–104°F)
Operating humidly	20%–80% (no condensation)
Remote control unit	
Power supply	3 V DC (R6/AA type battery × 2)
Operation range*[11]	Approx. 7 m (23 ft) when operated from directly in front of the signal receptor
Dimensions (W × H × D)	48 × 138 × 28.3 mm (1-7/8″ × 5-7/16″ × 1-1/8″)
Weight	Approx. 125 g (4.4 oz) (including batteries)
Supplied accessories	Power cord (× 1) Wireless remote control unit (× 1) Batteries for remote control (R6/AA type × 2) Lens cover (× 1)
Optional accessories	
Replacement lamp unit	ET-LAA110
Ceiling mount bracket for high ceilings	ET-PKA110H
Ceiling mount bracket for low ceilings	ET-PKA110S

*1 The projector uses a type of liquid crystal panel that typically consists of millions of pixels. This panel is built with very high-precision technology to provide the finest possible image. Occasionally, a few pixels may remain turned on (bright) or turned off (dark). Please note that this is an intrinsic characteristic of the manufacturing technology that affects all products using LCD technology.

*2 The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a large sound, or fail to illuminate, due to impact or extended use. The length of time that it takes for the lamp to break or fail to illuminate varies greatly depending on individual lamp characteristics and usage conditions.

*3 Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.

*4 In dynamic mode, with dynamic iris on.
*5 In cinema 1 mode, with dynamic iris on.
*6 Shift range is limited during simultaneous horizontal and vertical shifting.
*7 Effective in Rec. 709 picture mode.
*8 CEC is an abbreviation for Consumer Electronics Control. Operation may not be possible with some connected equipment or settings.
*9 Lens and legs not included.
*10 Average value. May differ depending on models.
*11 Operation range differs depending on environments.

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ISO 9001 JQA-QMA14392

ISO 14001 JACO EC98J2010

UKAS MANAGEMENT SYSTEMS 051

Factories of Business Solutions Business Group have received ISO 14001:2004—the Environmental Management System certification (except for third parties' peripherals).

All information included here is valid as of August 2011.

PT-AR100PRE1 Printed in Japan.