

# VPL-BW120S

## Home Theater Projector

High Brightness (2600 lm) solution for casual big screen entertainment

## FEATURES

### **Short Throw Technology**

· Can be placed close to wall / screen, no need to mount the projector

#### **Picture Quality**

- High brightness (2600 lm) to enjoy in a variety of different environments
- · Ideal for sports, gaming and movies
- Rich color reproduction with higher contrast ratio and 12-Bit Gamma Correction for smoother color gradations

### **Easy To Use**

- Lightweight and portable
- Built in speakers for a simple one cable (HDMI™) connection

#### **Energy Efficient**

- Power Saving Mode turns the projector off after 10 minutes of inactivity
- Long-lasting lamp







# Short Throw Technology

#### • For simple installation and best viewing position



#### • For practical, unobtrusive use





Recommended lamp replacement time

#### **CONNECTOR PANEL**



#### **OPTIONAL ACCESSORY**



LMP-E211 Projector Lamp (for replacement)

#### DIMENSIONS









#### **SPECIFICATIONS**

Optical         UPUBLICS           Display system         3 LCD system           Display device         Size of effective display area           Display device         Size of effective display area           Projection lens         Focus           Manual         0.59° (15.0 mm) x 3. BrightEra, Aspect ratio: 16:10           Number of pixels         3.002 / 0500 (1280 x 800 x 3) pixels           Projection lens         Focus           Manual         0.62:1           Light source         Ultro High Pressure lamp 210 W type           Recommended lamp replacement time**         3000 H / 6000 H (1,0mp mode: High / Low)           Filter cleaning cycle (replacement)         Max. 6000 H*/ 50me time as the lamp replacement is recommended           Screen size         50° to 100°           Light output (Lamp mode: High / Low)         2.600 Im / 1500 Im           Contrast ratio (full while / full block)**         4000:1           Interface         Forein full connector: Mini Dsub 15-pin (female)           Addio input connector: Nini Dsub 15-pin (female)         Addio input connector: Nini Dsub 15-pin (female)           Addio input connector: Nini Dsub 15-pin (female)         ViDEO IN           ViDEO IN         Video input connector: Nini Dsub 15-pin (female)           Addio input connector: Nini Dsub 15-pin (female)			VPL-BW120S
Display system         3 LCD system           Display device         Size of effective display oreo         0.59° (15.0 mm) x 3. BrightEra. Aspect ratio: 16:10           Number of pixels         3.072.000 (1280 x 800 x 3) pixels           Projection lens         Focus         Manual           Ilght source         Uitro High Pressure lamp 210 W type           Recommended lamp replacement time*1         3000 H / 5000 H*1 / Same time as the lamp replacement is recommended           Screen size         50° to 100°         124ht output (Lamp mode: High / Low)           Calpht output (Lamp mode: High / Low)         2600 Im / 1500 Im         Contrast ratio (Hull white / Hull black)**           Contrast ratio (Hull white / Hull black)**         4000:1         Therace           Computer and video signal input/output         INPUT A         R68 /Y Ps Ps input connector: Mini D-sub 15-pin (female) Audio input connector: Pin jack (X2) (shared with S VIDEO IN)           Signal input/output         R88 /Y Ps Ps input connector: Pin jack (X2) (shared with S VIDEO IN)           Signal input/output         R88 /Y Ps Ps input connector: Pin jack (X2) (shared with S VIDEO IN)           Signal input/output         R88 /Y Ps Ps input connector: Pin jack (X2) (shared with S VIDEO IN)           Signal input/output         R82 /Y Ps Ps input connector: Pin jack (X2) (shared with S VIDEO IN)           Signal input/output         R82 /Y Ps Ps input connector: Pin jack (X	Optical		VFL-DW1205
Display device         Size of effective display area         0.59° (15.0 mm) x 3. BrightEn, Aspect ratio: 16:10           Projection lens         Focus         Manual           Projection lens         Focus         Manual           Light source         Uttre High Pressure lamp 210 W type           Recommended lamp replacement lime"         3000 H / 6000 H (Lamp mode: High / Law)           Filler cleaning cycle (replacement)         Max. 6000 H" / Same time as the lamp replacement is recommended           Screen size         50° to 100°           Light output (Lamp mode: High / Law)         2600 Im / 1500 Im           Color light output (Lamp mode: High / Law)         2600 Im / 1500 Im           Color light output (Lamp mode: High / Law)         2600 Im / 1500 Im           Contrast ratio (full while / full block)**         4000: 1           Interface         Computer and video           signal input/output         RGB / Y Bs input connector: Mini D-sub15-pin (female)           VIDEO IN         Video input connector: Mini DN 4-pin           Audio input connector: Pin jack (22) (shared with SVIDEO IN)         S video input connector: Pin jack (22) (shared with VIDEO IN)           Control signal input/output         RS-232C connector: Din jack (22) (shared with VIDEO IN)           Striptopyble scanning         Horizontal         19 kHz to 92 Hz           Displaynelyble sca			3 I CD system
Number of pixels         3.072,000 (1280 x 600 x 3) pixels           Projection lens         Focus         Manual           Throw ratio         0.62:1           Light source         Uttro High Pressure lamp 210 W type           Recommended lamp replacement time*1         3000 H*1 / Same time as the lamp replacement is recommended           Screen size         50° to 100°           Light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Color light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Contrast ratio (full white / full block)**         4000:1           Interface         Computer and vide           Signal input/output         RGB /Y Ps Pi input connector. Mini D-sub 15-pin (female)           Audio input connector: Pin jack         Audio input connector. Mini ID-sub 15-pin (female)           Audio input connector. Pin jack (x2) (shared with VIDEO IN)         Svideo input connector. Pin jack (x2) (shared with VIDEO IN)           StyDEO IN         Svideo input connector. Pin jack (x2) (shared with VIDEO IN)           Res232C connector. Desub 9-pin (female)           Jisplayable scannig         Forizontal           Displayable scannig         19 Hz to 92 Hz           Greecal         2W x 1 (monaurol)           Video signal input         Maximum input signal resolution: 1400 x 1050 (resizing display)		Size of effective display area	
Projection lens         Focus         Manual           Throw ratio         0.42:1           Light source         Uttro High Pressure lamp 210 W type           Recommended lamp replacement time*1         3000 H / 6000 H*1 / Same time as the lamp replacement is recommended           Screen size         50° to 100°           Light output (lamp mode: High / Low)         2600 Im / 1500 Im           Color light output (lamp mode: High / Low)         2600 Im / 1500 Im           Color light output (lamp mode: High / Low)         2600 Im / 1500 Im           Contrast ratio (full white / full block)*2         4000:1           Interface	Display acvice		
Throw ratio         0.42:1           Light source         Uitra High Pressure lamp 210 W type           Recommended lamp replacement time**         3000 H / 6000 H (Lamp mode: High / Low)           Filter cleaning cycle (replacement)         Max. 6000 H*/ 7 Same time as the lamp replacement is recommended           Screen size         50° to 100°           Light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Color light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Color light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Controts ratio (full white / full black)**         4000:1           Interface         Computer and vide           Signal input/output         RGB /Y Pa Pa input connector: Mini D-sub 15-pin (female)           Audio input connector: Pin jack         Audio input connector: Mini Di A-pin           Audio input connector: Pin jack (A2) (shared with VIDEO IN)         S video input connector: Mini Di A-pin           Audio input connector: Pin jack (A2) (shared with VIDEO IN)         S video input connector: Mini Di A-pin           Audio input connector: Pin jack (A2) (shared with VIDEO IN)         S video input connector: Mini Di A-pin           Speaker         2 W x 1 (monaural)         Pietx 100 × 1050 (resizing display)           Displayable scanning         Hoit (A2) (composite). Isk (480x60i, 1630x60), 1080x60), 575/50), DIV (480g/60), 575/50),	Projection lens		
Light source         Ultra High Pressure lamp 210 W type           Recommended lamp replacement time"         3000 H/ 6000 H (Lamp mode: High / Low)           Filter cleaning cycle (replacement)         Max. 6000 H*/ 5000 H           Screen size         50° to 100°           Light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Color tight output (Lamp mode: High / Low)         2600 Im / 1500 Im           Color tight output (Lamp mode: High / Low)         2600 Im / 1500 Im           Contrast ratio (full white / full black)*2         4000:1           Interface         Computer and video           Signal input/output         INPUT A         RGB / Y Ps Ps input connector: Stereo mini jack.           INPUT B         HDMI (HDCP-compatible)         VIDEO IN         Audio input connector: Pin jack (x2) (shared with S VIDEO IN)           S VIDEO IN         S video input connector: Pin jack (x2) (shared with VIDEO IN)         RS 232C connector: Disub ?pin (temale)           General			
Recommended lamp replacement time*1         3000 H / 6000 H (Lamp mode: High / Low)           Filler cleaning cycle (replacement)         Max. 6000 H* / Same time as the lamp replacement is recommended           Screen size         50° to 100°           Light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Coolor light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Contrast ratio (full white / full black)*2         4000:1           Interface         Computer and vide           Signal input/output         INPUT A           Audio input connector: Bin jack         (2) (shared with S VIDEO IN)           Signal input/output         SVIDEO IN           Video input connector: Pin jack (x2) (shared with S VIDEO IN)         SviDEO IN           SviDEO IN         Svideo input connector: Pin jack (x2) (shared with VIDEO IN)           Control signal input/output         RS 232C connector: D-sub 9-pin (female)           General         Vertical         44 Iz to 92 Hz           Speaker         2 W x 1 (monaural)           Disployable scanning         Horizontal         19 KHz to 92 Hz           Disploy resolution         Computer signal input         Maximum input signal resolution: 1400 x 1050 (resizing display)           Video signal input         Video conspatible, Ducto, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian,	Light source		
Filter cleaning cycle (replacement)         Max. 6000 H* / Same time as the lamp replacement is recommended           Screen size         50° to 100°           Light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Color tight output (Lamp mode: High / Low)         2600 Im / 1500 Im           Contrast ratio (full while / full black)*2         4000:1           Interface         RGB / Y Ps Ps input connector: Stereo mini jack           Computer and video signal input/output         RGB / Y Ps Ps input connector: Pin jack (x2) (shared with S VIDEO IN)           S VIDEO IN         S video input connector: Pin jack (x2) (shared with VIDEO IN)           Audio input connector: Din jack (x2) (shared with VIDEO IN)         S video input connector: Pin jack (x2) (shared with VIDEO IN)           Control signal input/output         Rs 232C connector: Din jack (x2) (shared with VIDEO IN)           Seaker         2 W x 1 (monaural)           Displayable scanning         Horizontal         19 kHz to 92 Hz           Display resolution         Computer signal input         Waker Computer, S5600, 720/600, 755/500, DV (480p/600, 575/500, DV (480p/600, 575/500, P20/600, 1506/50)           Color system         NTSC3.56, PAL SecAM, NTSC4.43, PAL-M, PAL-N, PAL-60           Keystone correction         Vertical         48 Hz to 92 Hz           Display resolution         Conguter signal input         Video (Composite), 15K (480/60i, 575/		eplacement time*1	
Screen size         recommended           Screen size         50° to 100°           Light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Color light output (Lamp mode: High / Low)         2600 Im / 1500 Im           Contrast ratio (full white / full black)°         4000:1           Interface			
Light output (Lamp mode: High / Low) 2600 lm / 1500 lm Color light output (Lamp mode: High / Low) 2600 lm / 1500 lm Contrast ratio (full white / full black)* <sup>2</sup> 4000:1 Interface Computer and video signal input/output INPUT A RGB / Y Pa Pa input connector: Mini D-sub15-pin (female) Audio input connector: Stereo mini jack INPUT B HDMI (HOCP-compatible) VIDEO IN Video input connector: Pin jack (x2) (shared with S VIDEO IN) S VIDEO IN S video input connector: Pin jack (x2) (shared with S VIDEO IN) S VIDEO IN S video input connector: Pin jack (x2) (shared with VIDEO IN) Control signal input/output Rs-232C connector: Deni jack (x2) (shared with VIDEO IN) Control signal input/output Rs-232C connector: Deni jack (x2) (shared with VIDEO IN) Control signal input/output Rs-232C connector: Deni jack (x2) (shared with VIDEO IN) Control signal input/output Rs-232C connector: Deni Jack (x2) (shared with VIDEO IN) Control signal input/output Rs-232C connector: Deni Jack (x2) (shared with VIDEO IN) Control signal input/output Rs-232C connector: Deni Jack (x2) (shared with VIDEO IN) Control signal input/output Rs-232C connector: Deni Jack (x2) (shared with VIDEO IN) Control signal input/output Rs-232C connector: Deni Jack (x2) (shared with VIDEO IN) Control signal input/output Rs-232C connector: Deni Jack (x2) (shared with VIDEO IN) Solvage Imperiation Computer signal input Miximum input signal resolution: 1400 x 1050 (resizing display) Video signal input Video (Composite), 15K (480/Gol), 575/500, 720/Gol), 575/500, 720/Gol),			
Color light output (Lamp mode: High / Low)         2600 lm / 1500 lm           Contrast ratio (full white / full black)**         4000:1           Interface         Addio input connector: Stereo mini jack           Computer and video signal input/output         INPUT A         RGB /Y Pa Pa input connector: Stereo mini jack           NUEDO IN         Video input connector: Pin jack (x2) (shared with S VIDEO IN)         Svideo input connector: Pin jack (x2) (shared with S VIDEO IN)           S VIDEO IN         Svideo input connector: Pin jack (x2) (shared with VIDEO IN)         Svideo input connector: Pin jack (x2) (shared with VIDEO IN)           Control signal input/output         RS-232C connector: D-sub 9-pin (female)         General           Speaker         2 W x 1 (nonaural)         Pi kHz to 92 kHz           Displayable scanning         Horizontal         19 kHz to 92 Hz           Display resolution         Computer signal input         Wideo (composite), 15K (480/60), 575/50), DIV (480p/60p, 575/50), 720/50p, 720/60p, 720/50p, 720/50p, 7080/60), 1080/50)           Color system         NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-M, PAL60           Keystone correction         Vertical: Max. +/ 15 degrees*3           OSD language         20-languages (English, Dutch, French, Italina, German, Spanish, Potra Languages (English, Dutch, French, Italina, German, Spanish, Potra Languages (English, Dutch, French, Italina, German, Spanish, Potra Languages (English, Dutch, French, Italina, German, Spanish, Potre	Screen size		50" to 100"
Contrast ratio (full white / full black)**       4000:1         Interface       RGB /Y Pa Pa input connector: Mini D-sub15-pin (female)         Audio input connector: Stereo mini jack       Audio input connector: Pin jack (x2) (shared with S VIDEO IN)         S VIDEO IN       S video input connector: Pin jack (x2) (shared with S VIDEO IN)         S video input connector: Pin jack (x2) (shared with VIDEO IN)       S video input connector: Pin jack (x2) (shared with VIDEO IN)         Control signal input/output       RS-232C connector: Pin jack (x2) (shared with VIDEO IN)         Control signal input/output       RS-232C connector: Pin jack (x2) (shared with VIDEO IN)         Speaker       2 W x 1 (monaural)         Displayable scanning       Horizontal       19 kHz to 92 kHz         frequency       Vertical       48 Hz to 92 kHz         Displayable scanning       Computer signal input       Maximum input signal resolution: 1400 x 1050 (resizing display)         Video signal input       Video (Composite), 15k (480/60i, 575/50i), DTV (480p/60p, 575/50p, 720/60p, 720/50p, 1080/60i), 575/50i), DTV (480p/60p, 575/50p, 720/60p, 720/50p, 720/60p, 720/50p, 1080/60i), 675/50i), DTV (480p/60p, 575/50p, 720/60p, 720/50p, 720/60p, 720/50p, 1080/60i), 675/50i), DTV (480p/60p, 575/50p, 720/60p, 720/50p, 1080/60i), 675/50i), DTV (480p/60p, 575/50p, 720/60p, 720/50p, 720/60p, 720/50p, 1080/60i)         Color system       NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-M, PAL60         Keystone correction       Vertical:	Light output (Lamp mode: High / Low)		2600 lm / 1500 lm
Interface         RGB /Y PR input connector: Mini D-sub 15-pin (female)           Signal input/output         INPUT A         RGB /Y PR input connector: Stereo mini jack           INPUT B         HOM (HDCP-compatible)         Wideo input connector: Pin jack           VIDEO IN         Video input connector: Pin jack (x2) (shared with S VIDEO IN)           S VIDEO IN         S video input connector: Pin jack (x2) (shared with VIDEO IN)           Control signal input/output         RS-323C connector: D-sub 9-pin (female)           General         Speaker         2 W x 1 (monaural)           Displayable scanning         Horizontal         19 kHz to 92 kHz           frequency         Vertical         48 Hz to 92 Hz           Display resolution         Computer signal input         Moximum input signal resolution: 1400 x 1050 (resizing display)           Video signal input         Video (Composite), 15k (480/60i, 575/50i), DTV (480p/60p, 575/50i), 200/60p, 720/50p, 720/60p, 720/50p, 1080/60i, 1080/50i)           Color system         NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-M, PAL60           Keystone correction         Vertical: Max. +/- 15 degrees* <sup>3</sup> OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)           Operating temperature (Operating humidity)         -10°C to 40°C / 13			2600 lm / 1500 lm
Computer and video signal input/output         INPUT A Put B NUED IN         RGB /Y Ps Pa input connector: Mini D-sub15-pin (female) Audio input connector: Pin jack           NUED IN         HDMI (HDCP-compatible) VIDEO IN         Video input connector: Pin jack Audio input connector: Pin jack (x2) (shared with SVIDEO IN) S video input connector: Pin jack (x2) (shared with SVIDEO IN) Audio input connector: Pin jack (x2) (shared with VIDEO IN)           Control signal input/output         RS-232C connector: D-sub 9-pin (female)           General         2 W x 1 (monaural)           Speaker         2 W x 1 (monaural)           Disployable scanning frequency         Vertical         48 Hz to 92 Hz           Disploy resolution         Computer signal input         Maximum input signal resolution: 1400 x 1050 (resizing display)           Video signal input         Video (Composite). 15k (480/60i, 575/50i), DTV (480p/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i)           Color system         NTSC3.38, PAL, SECAM, NTSC4.43, PAL-M, PAL-0           Keystone correction         Vertical: Max. +/ 15 degrees* <sup>3</sup> OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)           Operating temperature (Operating humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Power consumption         AC 100 V to 120 V         290 W / 205 W			4000:1
signal input/output Audio input connector: Stereo mini jack INPUT B HDMI (HDCP-compatible) Video input connector: Pin jack Audio input connector: Pin jack (x2) (shared with SVIDEO IN) S VIDEO IN S VIDEO IN S Video input connector: Pin jack (x2) (shared with SVIDEO IN) S VIDEO IN S Video input connector: D in jack Audio input connector: Pin jack (x2) (shared with VIDEO IN) Audio input connector: D in jack (x2) (shared with VIDEO IN) S VIDEO IN S Video input connector: D in jack (x2) (shared with VIDEO IN) S VIDEO IN S Video input connector: D in jack (x2) (shared with VIDEO IN) Control signal input/output RS-232C connector: D-sub 9-pin (female) General Speaker Vertical 48 Hz to 92 Hz Display resolution Computer signal input Video (Composite). 15k (480/601, 575/50), DTV (480p/60p, 575/50, 720/60p, 720/50p, 720/50p, 720/50p, 720/60p, 720/50p, 720/50	Interface		
INPUT B         HDMI (HDCP-compatible)           VIDEO IN         Video input connector: Pin jack           S VIDEO IN         Audio input connector: Min jack (x2) (shared with S VIDEO IN)           S Video input connector: D in jack (x2) (shared with VIDEO IN)         S video input connector: D in jack (x2) (shared with VIDEO IN)           Control signal input/output         RS-232C connector: D in jack (x2) (shared with VIDEO IN)           Control signal input/output         RS-232C connector: D in jack (x2) (shared with VIDEO IN)           Control signal input/output         RS-232C connector: D in jack (x2) (shared with VIDEO IN)           Speaker         2 W x 1 (monaural)           Disployable scanning         Horizontal           frequency         Vertical           Vertical         48 Hz to 92 Hz           Disploy resolution         Computer signal input           Video (Composite), 15k (480/60i, 575/50i), DTV (480p/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i)           Color system         NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-M, PAL60           Keystone correction         Vertical: Max. +/ 15 degrees*3           OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Tarkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Korean, Thoi, Vietnamese, Arabic, Farsi)           Operating temperature (Operating humiditly)         -10°C to 40°C / 14°F to 140°F (20%	Computer and video	INPUT A	RGB / Y PB PR input connector: Mini D-sub15-pin (female)
VIDEO IN         Video input connector: Pin jack Audio input connector: Pin jack (x2) (shared with S VIDEO IN)           S VIDEO IN         S video input connector: Mini DIN 4-pin Audio input connector: Mini DIN 4-pin           Control signal input/output         RS-232C connector: Din jack (x2) (shared with VIDEO IN)           Speaker         2 W x 1 (monaural)           Displayable scanning         Horizontal           Displayable scanning         Horizontal           frequency         Vertical           Vertical         48 Hz to 92 Hz           Displayable scanning         Computer signal input           Video (composite), 15k (480/60i, 575/50i), DTV (480p/60p, 575/50p, 720/60p, 720/50p, 720/50p, 1080/60i, 1080/50i)           Color system         NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60           Keystone correction         Vertical: Max. +/- 15 degrees*3           OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Iraditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)           Operating temperature (Operating humidity)         -0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)           Storage temperature (Storage humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Power consumption         AC 200 V to 120 V         290 W / 205 W           AC 200 V to 1	signal input/output		Audio input connector: Stereo mini jack
Audio input connector: Pin jack (x2) (shared with S VIDEO IN)           S VIDEO IN         S video input connector: Mini DIN 4-pin Audio input connector: Pin jack (x2) (shared with VIDEO IN)           Control signal input/output         RS-232C connector: D-sub 9-pin (female)           General         2 W x 1 (monaural)           Displayable scanning frequency         Vertical         48 Hz to 92 Hz           Display resolution         Computer signal input         Maximum input signal resolution: 1400 x 1050 (resizing display)           Video signal input         Video (Composite), 15k (480/60i, 575/50i), DTV (480p/60p, 575/50p, 720/60p, 720/60p, 708/60), 1080/50i)           Color system         NTSC3.58 PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60           Keystone correction         Vertical: Max. +/- 15 degrees*3           OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Forsi)           Operating temperature (Operating humidity)         0°C to 40°C / 32°F to 140°F (20% to 80%; no condensation)           Storage temperature (Storage humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Power requirements         AC 100 V to 120 V         290 W / 205 W           Power consumption         AC 220 V to 240 V         275 W / 190 W           Standby mode power <td< td=""><td></td><td>INPUT B</td><td></td></td<>		INPUT B	
S VIDEO IN         S video input connector: Mini DIN 4-pin Audio input connector: Pin jack (x2) (shared with VIDEO IN)           Control signal input/output         RS-232C connector: D-sub 9-pin (female)           General         Seaker           Speaker         2 W x 1 (monaural)           Displayable scanning frequency         Horizontal           Ower regulation         Computer signal input           Maximum input signal resolution: 1400 x 1050 (resizing display)           Video signal input         Video (Composite), 15k (480/60i, 575/50), DTV (480p/60p, 575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i)           Color system         NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL-60           Keystone correction         Vertical: Max.+/ 15 degrees*a           OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Forsi)           Operating temperature (Operating humidity)         0°C to 40°C / 14°F to 104°F (20% to 80%; no condensation)           Storage temperature (operating humidity)         -10°C to 60°C / 14°F to 104°F (20% to 80%; no condensation)           Power requirements         AC 100 V to 120 V         290 W / 205 W           Ac 220 V to 240 V         275 W / 190 W         Standby mode power           Standby mode power         AC 100 V to 120 V         3W /		VIDEO IN	
Audio input connector: Pin jack (x2) (shared with VIDEO IN)           Control signal input/output         RS-232C connector: D-sub 9-pin (female)           General			
Control signal input/output       RS-232C connector: D-sub 9-pin (female)         Speaker       2 W x 1 (monaural)         Displayable scanning       Horizontal       19 kHz to 92 kHz         frequency       Vertical       48 Hz to 92 Hz         Displayable scanning       Computer signal input       Maximum input signal resolution: 1400 x 1050 (resizing display)         Video signal input       Video (Composite), 15k (480/60i, 575/50i), DTV (480p/60p, 575/50i), 720/50p, 720/50p, 720/50p, 1080/60i, 1080/50i)         Color system       NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60         Keystone correction       Vertical: Max. +/ 15 degrees*3         OSD language       20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Iraditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)         Operating temperature (Operating humidity)       -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)         Power consumption       AC 100 V to 120 V       290 W / 205 W         AC 220 V to 240 V       275 W / 190 W       Standby mode power         Standby mode power       AC 100 V to 120 V       3 W / <0.5 W (Standby mode: Standard / Low)		S VIDEO IN	
General       2 W x 1 (monaural)         Displayoble scanning       Horizontal       19 kHz to 92 kHz         Display resolution       Computer signal input       Maximum input signal resolution: 1400 x 1050 (resizing display)         Video signal input       Video (Composite), 15k (480/60i, 575/50i), DTV (480p/60p, 575/50p, 720/50p, 720/50p, 1080/60i, 1080/50i)         Color system       NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL-60         Keystone correction       Vertical: Max.+/- 15 degrees*3         OSD language       20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)         Operating temperature (Operating humidity)       -10° C to 60°C / 14°F to 140°F (20% to 80%; no condensation)         Storage temperature (operating humidity)       -10° C to 60°C / 14°F to 140°F (20% to 80%; no condensation)         Power requirements       AC 100 V to 120 V       290 W / 205 W         AC 220 V to 240 V       275 W / 190 W       Standby mode power       AC 100 V to 120 V       3W / <0.5 W (Standby mode: Standard / Low)			
Speaker     2 W x 1 (monaural)       Displayable scanning frequency     Horizontal     19 kHz to 92 kHz       Display resolution     Computer signal input     Maximum input signal resolution: 1400 x 1050 (resizing display) Video signal input       Display resolution     Computer signal input     Maximum input signal resolution: 1400 x 1050 (resizing display) Video signal input       Color system     NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL-60       Keystone correction     Vertical: Max. +/ 15 degrees* <sup>3</sup> OSD language     20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Forsi)       Operating temperature (Operating humidity)     -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)       Storage temperature (Storage humidity)     -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)       Power consumption     AC 100 V to 120 V     290 W / 205 W       AC 200 V to 240 V     275 W / 190 W       Standby mode power     AC 100 V to 120 V     3 W / <0.5 W (Standby mode: Standard / Low)	•		RS-232C connector: D-sub 9-pin (female)
Displayable scanning         Horizontal         19 kHz to 92 kHz           frequency         Vertical         48 Hz to 92 Hz           Display resolution         Computer signal input         Maximum input signal resolution: 1400 x 1050 (resizing display)           Video signal input         Video (Composite), 15k (480/60i, 575/50i), DTV (480p/60p, 575/50p, 720/50p, 720/50p, 1080/60i, 1080/50i)           Color system         NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL-60           Keystone correction         Vertical: Max. +/- 15 degrees*3           OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)           Operating temperature (Operating humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Storage temperature (Storage humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Power consumption         AC 100 V to 120 V         290 W / 205 W           AC 220 V to 240 V         275 W / 190 W         275 W / 190 W           Standby mode power         AC 100 V to 120 V         290 W / 205 W           AC 200 V to 240 V         3 W / <0.5 W (Standby mode: Standard / Low)			
frequency         Vertical         48 Hz to 92 Hz           Display resolution         Computer signal input         Maximum input signal resolution: 1400 x 1050 (resizing display)           Video signal input         Video (Composite), 15k (480/60i, 575/50i), DTV (480/60p, 575/50p, 720/50p, 1080/60i, 1080/50i)           Color system         NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60           Keystone correction         Vertical: Max. +/- 15 degrees*3           OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Iraditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)           Operating temperature (Operating humidity)         0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)           Storage temperature (Storage humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Power consumption         AC 100 V to 120 V         290 W / 205 W           AC 200 V to 240 V         275 W / 190 W         Standby mode power           Standby mode power         AC 100 V to 120 V         3 W / <0.5 W (Standby mode: Standard / Low)			
Display resolution         Computer signal input         Maximum input signal resolution: 1400 x 1050 (resizing display)           Video signal input         Video (Composite), 15k (480/60i, 575/50i), DTV (480p/60p, 575/50i), DTV (480p/60p, 575/50i), 720/50p, 720/50p, 1080/50i)           Color system         NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60           Keystone correction         Vertical: Max. +/ 15 degrees*3           OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)           Operating temperature (Operating humidity)         0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)           Storage temperature (Storage humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Power consumption         AC 100 V to 120 V         290 W / 205 W           AC 220 V to 240 V         275 W / 190 W         Standby mode power           Standby mode power         AC 100 V to 120 V         3 W / <0.5 W (Standby mode: Standard / Low)			
Video signal input       Video (Composite), 15k (480/60i, 575/50i), DTV (480p/60p, 575/50p, 720/50p, 180/60i, 575/50i), DTV (480p/60p, 575/50p, 720/50p, 180/60i, 575/50i)         Color system       NTSC3.58, PAL, SECAM, NTSC4.43, PAL-N, PAL-N, PAL-00         Keystone correction       Vertical: Max.+/-15 degrees*3         OSD language       20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)         Operating temperature (Operating humidity)       0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)         Storage temperature (Storage humidity)       -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)         Power requirements       AC 100 V to 120 V       290 W / 205 W         Ross AC 220 V to 240 V       275 W / 190 W       Standby mode power         Standby mode power       AC 100 V to 120 V       3 W / <0.5 W (Standby mode: Standard / Low)			
575/50p, 720/60p, 720/50p, 1080/60i, 1080/50i)       Color system     NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60       Keystone correction     Vertical: Max. +/ 15 degrees*3       OSD language     20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)       Operating temperature (Operating humidity)     0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)       Storage temperature (Storage humidity)     -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)       Power requirements     AC 100 V to 120 V       290 W / 205 W     AC 200 V to 240 V       Standby mode power     AC 100 V to 120 V       200 W / 205 W     3 W / -0.5 W (Standby mode: Standard / Low)       consumption     AC 100 V to 120 V       AC 100 V to 120 V     940 BTU       Qutside dimensions     W 313.4 x H 144.9 x D 349.3 mm (W 12 11/32 x H 5 7/10 x D 13 3/4 in) (without protrusion)       Mass     3.7 kg (8 lb 3 oz)       Supplied accessories     RM-PJ7 Remote Commander (1), Lithium battery: CR2025 (1),	Display resolution		
Color system         NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL-60           Keystone correction         Vertical: Max. +/- 15 degrees*3           OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Kraditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)           Operating temperature (Operating humidity)         0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)           Storage temperature (Storage humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Power requirements         AC 100 V to 120 V         290 W / 205 W           AC 220 V to 240 V         275 W / 190 W         275 W / 190 W           Standby mode power         AC 100 V to 120 V         290 W / 205 W           AC 200 V to 240 V         3 W / <0.5 W (Standby mode: Standard / Low)		Video signal input	
Keystone correction         Vertical: Max. +/- 15 degrees*3           OSD language         20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)           Operating temperature (Operating humidity)         0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)           Storage temperature (Storage humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Power requirements         AC 100 V to 120 V         290 W / 205 W           AC 220 V to 240 V         275 W / 190 W         25           Standby mode power         AC 100 V to 120 V         3 W / <0.5 W (Standby mode: Standard / Low)	0.1		5/5/50p, /20/60p, /20/50p, 1080/60i, 1080/50i)
OSD language       20-languages (English, Dutch, French, Italian, German, Spanish, Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Forsi)         Operating temperature (Operating humidity)       0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)         Storage temperature (Storage humidity)       -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)         Power requirements       AC 100 V to 120 V         Power consumption       AC 200 V to 240 V         AC 200 V to 240 V       275 W / 190 W         Standby mode power       AC 100 V to 120 V         AC 200 V to 240 V       275 W / 190 W         Standby mode power       AC 100 V to 120 V         AC 220 V to 240 V       275 W / 190 W         Standby mode power       AC 100 V to 120 V         AC 220 V to 240 V       3 W / <0.5 W (Standby mode: Standard / Low)			
Portuguese, Turkish, Polish, Russian, Swedish, Norwegian, Japanese, Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)         Operating temperature (Operating humidity)       0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)         Storage temperature (Storage humidity)       -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)         Power requirements       AC 100 V to 240 V       290 W / 205 W         Power consumption       AC 100 V to 120 V       290 W / 205 W         AC 220 V to 240 V       275 W / 190 W         Standby mode power       AC 100 V to 120 V       3 W / <0.5 W (Standby mode: Standard / Low)	,		
Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese, Arabic, Farsi)         Operating temperature (Operating humidity)       0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)         Storage temperature (Storage humidity)       -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)         Power requirements       AC 100 V to 240 V, 3.0 A to 1.3 A, 50 Hz /60 Hz         Power consumption       AC 100 V to 120 V       290 W / 205 W         AC 220 V to 240 V       275 W / 190 W         Standby mode power       AC 100 V to 120 V       3 W / <0.5 W (Standby mode: Standard / Low)	OSD language		
Arabic, Farsi)         Operating temperature (Operating humidity)       0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)         Storage temperature (Storage humidity)       -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)         Power requirements       AC 100 V to 240 V, 3.0 A to 1.3 A, 50 Hz /60 Hz         Power consumption       AC 100 V to 120 V       290 W / 205 W         AC 220 V to 240 V       275 W / 190 W         Standby mode power       AC 100 V to 120 V       3 W / <0.5 W (Standby mode: Standard / Low)			
Operating temperature (Operating humidity)         0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)           Storage temperature (Storage humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Power requirements         AC 100 V to 120 V         290 W / 205 W           Power consumption         AC 100 V to 120 V         290 W / 205 W           Standby mode power         AC 100 V to 120 V         290 W / 205 W           Consumption         AC 220 V to 240 V         3 W / <0.5 W (Standby mode: Standard / Low)			Simplified Chinese, Traditional Chinese, Korean, Thai, Vietnamese,
Storage temperature (Storage humidity)         -10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)           Power requirements         AC 100 V to 240 V, 3.0 A to 1.3 A, 50 Hz /60 Hz           Power consumption         AC 100 V to 120 V         290 W / 205 W           AC 220 V to 240 V         275 W / 190 W         Standby mode: Standard / Low)           Standby mode power         AC 100 V to 120 V         3 W / <0.5 W (Standby mode: Standard / Low)			Arabic, Farsi)
Power requirements         AC 100 V to 240 V, 3.0 A to 1.3 Å, 50 Hz /60 Hz           Power consumption         AC 100 V to 120 V         290 W / 205 W           AC 200 V to 240 V         275 W / 190 W           Standby mode power         AC 100 V to 120 V         3 W / <0.5 W (Standby mode: Standard / Low)	Operating temperature (Operating humidity)		0°C to 40°C / 32°F to 104°F (20% to 80%; no condensation)
Power consumption         AC 100 V to 120 V         290 W / 205 W           AC 220 V to 240 V         275 W / 190 W         200 W / 205 W           Standby mode power         AC 100 V to 120 V         3 W / <0.5 W (Standby mode: Standard / Low)	Storage temperature (Storage humidity)		-10°C to 60°C / 14°F to 140°F (20% to 80%; no condensation)
AC 220 V to 240 V         275 W / 190 W           Standby mode power         AC 100 V to 120 V         3 W / <0.5 W (Standby mode: Standard / Low)           consumption         AC 220 V to 240 V         3 W / <0.5 W (Standby mode: Standard / Low)           Heat dissipation         AC 100 V to 120 V         990 BTU           AC 220 V to 240 V         940 BTU           Outside dimensions         W 313.4 x H 144.9 x D 349.3 mm (W 12 11/32 x H 5 7/10 x D 13 3/4 in) (without protrusion)           Mass         3.7 kg (8 lb 3 oz)           Supplied accessories         RM-PJ7 Remote Commander (1), Lithium battery: CR2025 (1),	Power requirements		AC 100 V to 240 V, 3.0 A to 1.3 A, 50 Hz /60 Hz
Standby mode power         AC 100 V to 120 V         3 W / <0.5 W (Standby mode: Standard / Low)           consumption         AC 220 V to 240 V         3 W / <0.5 W (Standby mode: Standard / Low)	Power consumption	AC 100 V to 120 V	290 W / 205 W
consumption         AC 220 V to 240 V         3 W / <0.5 W (Standby mode: Standard / Low)           Heat dissipation         AC 100 V to 120 V         990 BTU           AC 220 V to 240 V         940 BTU           Outside dimensions         W 313.4 x H 144.9 x D 349.3 mm (W 12 11/32 x H 5 7/10 x D 13 3/4 in) (without protrusion)           Mass         3.7 kg (8 lb 3 oz)           Supplied accessories         RM-PJ7 Remote Commander (1), Lithium battery: CR2025 (1),		AC 220 V to 240 V	
Heat dissipation         AC 100 V to 120 V         990 BTU           AC 220 V to 240 V         940 BTU           Outside dimensions         W 313.4 x H 144.9 x D 349.3 mm (W 12 11/32 x H 5 7/10 x D 13 3/4 in) (without protrusion)           Mass         3.7 kg (8 lb 3 oz)           Supplied accessories         RM-PJ7 Remote Commander (1), Lithium battery: CR2025 (1),	Standby mode power	AC 100 V to 120 V	3 W / <0.5 W (Standby mode: Standard / Low)
AC 220 V to 240 V         940 BTU           Outside dimensions         W 313.4 x H 144.9 x D 349.3 mm (W 12 11/32 x H 5 7/10 x D 13 3/4 in) (without protrusion)           Mass         3.7 kg (8 lb 3 oz)           Supplied accessories         RM-PJ7 Remote Commander (1), Lithium battery: CR2025 (1),	consumption	AC 220 V to 240 V	3 W / <0.5 W (Standby mode: Standard / Low)
Outside dimensions         W 313.4 x H 144.9 x D 349.3 mm (W 12 11/32 x H 5 7/10 x D 13 3/4 in) (without protrusion)           Mass         3.7 kg (8 lb 3 oz)           Supplied accessories         RM-PJ7 Remote Commander (1), Lithium battery: CR2025 (1),	Heat dissipation		
Mass         3.7 kg (8 lb 3 oz)           Supplied accessories         RM-PJ7 Remote Commander (1), Lithium battery: CR2025 (1),		AC 220 V to 240 V	940 BTU
Mass         3.7 kg (8 lb 3 oz)           Supplied accessories         RM-PJ7 Remote Commander (1), Lithium battery: CR2025 (1),	Outside dimensions		
Mass         3.7 kg (8 lb 3 oz)           Supplied accessories         RM-PJ7 Remote Commander (1), Lithium battery: CR2025 (1),			
			3.7 kg (8 lb 3 oz)
Signal cable (1), Operating Instructions (1), AC Power Cord (1)	Supplied accessories		RM-PJ7 Remote Commander (1), Lithium battery: CR2025 (1),
			Signal cable (1), Operating Instructions (1), AC Power Cord (1)

\*1 Expected maintenance times not guaranteed. Lamp and filter performance vary based on operating environment and use.

\*2 The value is average.

\*3 Depends on resolution.

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