

## 3-1 Projection wall units

### RVP-411DS (NTSC/PAL/SECAM/NTSC4.43)

- 41-inch projection wall unit for various projection wall applications
- Lightweight (75 kg) and a short cabinet depth (1044 mm) for easier handling and stacking
- Input capability: double scan video signals and computer signals which conform to VGA mode 3 (31.469 kHz/59.94 Hz) standard
- Optional PWB-411D video input board available for composite, Y/C, component and 15 kHz RGB video signals
- Double scan capability for flicker free signal reproduction when used with the optional PWB-411D video input board
- Adopts optical coupling CRT for high contrast image display.
- Color temperature selection: 3200K/6500K/9300K/User preset (factory preset: 6500K)
- Two-part construction enables the CRT assembly, together with the electronic chassis, to be easily separated from the cabinet
- Wide viewing angle: horizontal 160 degrees, vertical 60 degrees
- Optional VPS-415RF/411RF screens with ultra-thin screen surround are available.
- Optional CHP-411D projection wall chassis available for system versatility
- Optional wired/wireless remote commander RM-PJ1292\*1 with address function for all projector control functions, including input selection, picture control, RGB size and shift and centering controls



Supplied Accessories:	AC power cord (1) Remote control cable (1.2 m × 1) Operation manual (1)
Optional Accessories:	VPS-415RF: Optional Screen with 0.2 mm screen surround VPS-411RF: Optional Screen with 1.7 mm screen surround PWK-411D: System Control Kit (Including RM-PJ1292 Remote Commander and installation manual) PWB-411D: Video Input Board PWR-B411A: Base Stand PWR-P412A: Position Beam for dual mount PWR-P413A: Position Beam for triple mount RM-PJ10: Remote Control Receiver RCC-1W2: 9-pin remote cable (D-sub 9-pin M to D-sub 9-pin M for RS-422)

### Specifications

#### Optical

Projection System:	3 picture tubes, 3 lenses, rear projection
Picture Tube:	7.7-inch (5.5-inch raster size) high-luminance monochrome optical coupled with sealed coolant
Projection Lens:	High performance lens, F1.1/77 mm
Screen:	Optional (See Optional Accessories)
Light Output:*2	ANSI:*3 280 cd/m <sup>2</sup> (fH: 31.5 kHz, fV: 60Hz) Color temperature: 6500°K Peak white: 2056 cd/m <sup>2</sup>

#### Electrical

Scan Frequency:	31.25 kHz/50 Hz/1:1, 31.25 kHz/100 Hz/2:1 31.5 kHz/60 Hz/1:1, 31.5 kHz/120 Hz/2:1 (Horizontal Frequency/Vertical Frequency/Interlace Ratio)
Resolution:	800 × 580 dots (measured at RGB 31.25 kHz input)
RGB Bandwidth:	30 MHz (-3 dB)
Test Signal:	Cross hair, Hatch (fine), Diagonal hatch, Circle hatch, Dot pattern, H pattern, ME, Window, All white (100 IRE), Black
Input:	RGB: BNC × 5
31 kHz:	R: 0.7 Vp-p ± 2 dB, 75 Ω G: 0.7 Vp-p ± 2 dB, 75 Ω G on sync: 1.0 Vp-p ± 2 dB, 75 Ω, sync negative B: 0.7 Vp-p ± 2 dB, 75 Ω H sync/C sync: 1.0 to 4.0 Vp-p, 75 Ω, positive/negative V sync: 1.0 to 4.0 Vp-p, 75 Ω, positive/negative

15 kHz:	*Available when an optional PWB-411D Video Input Board is inserted. See PWB-411D specifications.
Control-S: Mini Jack (mono)	
Remote: RS-422: D-sub 9-pin connector (female)	Linked ABL: Mini Jack (mono)
Output: Mini Jack (mono)	
Control-S: RS-422: D-sub 9-pin connector (female)	
Remote: Linked ABL: Mini Jack (mono)	

#### General

Power Supply:	AC 120 V, 50/60 Hz
Power Consumption:	100-120 W, 2.8 A, 300 W
Dimensions (max.):	830 (W) × 641 (H) × 1044 (D) mm (32 <sup>3</sup> / <sub>4</sub> × 25 <sup>1</sup> / <sub>4</sub> × 41 <sup>1</sup> / <sub>8</sub> inches)
Mass:	75 kg (165 lb 6 oz)

\*1 RM-PJ1292 is included in the system control kit PWK-411D.

\*2 In the case of the RVP-411DS with the VPS-411RF optional screen.

\*3 ANSI lumen is a measuring method of the American National Standards Institute ANSI IT 7.215.

## 3-1 Projection wall units

### RVP-511DS (NTSC/PAL/SECAM/NTSC4.43)

- 50-inch projection wall unit for various projection wall applications
- Lightweight (88 kg) and a short cabinet depth (1236 mm) for easier handling and stacking
- Input capability: double scan video signals and computer signals which conform to VGA mode 3 (31.469 kHz/59.94 Hz) standard
- Optional PWB-411D video input board available for composite, Y/C, component and 15 kHz RGB video signals
- Double scan capability for flicker free signal reproduction when used with the optional PWB-411D video input board
- Adopts optical coupling CRT for high contrast image display.
- Color temperature selection: 3200K/6500K/9300K/User preset (factory preset: 6500K)
- Two-part construction enables the CRT assembly, together with the electronic chassis, to be easily separated from the cabinet
- Wide viewing angle: horizontal 150 degrees, vertical 70 degrees
- Optional VPS-515RF/511RF screens with ultra-thin screen surround are available.
- Optional CHP-411D projection wall chassis available for system versatility
- Optional wired/wireless remote commander RM-PJ1292\*1 with address function for all projector control functions, including input selection, picture control, RGB size and shift and centering controls



Supplied Accessories:	AC power cord (1) Remote control cable (1.2 m × 1) Operation manual (1)
Optional Accessories:	VPS-515RF: Optional Screen with 0.2 mm screen surround VPS-511RF: Optional Screen with 1.7 mm screen surround PWK-411D: System Control Kit (Including RM-PJ1292 Remote Commander and installation manual) PWB-411D: Video Input Board PWR-B511A: Base Stand PWR-P512A: Position Beam for dual mount PWR-P513A: Position Beam for triple mount RM-PJ10: Remote Control Receiver RCC-1W2: 9-pin remote cable (D-sub 9-pin M to D-sub 9-pin M for RS-422)

### Specifications

#### Optical

Projection System:	3 picture tubes, 3 lenses, rear projection
Picture Tube:	7.7-inch (5.5-inch raster size) high-luminance monochrome optical coupled with sealed coolant
Projection Lens:	High performance lens, F1.1/77 mm
Screen:	Optional (See Optional Accessories)
Light Output:*2	ANSI:*3 125 cd/m <sup>2</sup> (fH: 31.5 kHz, fV: 60 Hz) Color temperature: 6500°K Peak white: 977 cd/m <sup>2</sup>

#### Electrical

Scan Frequency:	31.25 kHz/50 Hz/1:1, 31.25 kHz/100 Hz/2:1 31.5 kHz/60 Hz/1:1, 31.5 kHz/120 Hz/2:1 (Horizontal Frequency/Vertical Frequency/Interlace Ratio)
Resolution:	1000 × 580 dots (measured at RGB 31.25 kHz input)
RGB Bandwidth:	30 MHz (-3 dB)
Test Signal:	Cross hair, Hatch (fine), Diagonal hatch, Circle hatch, Dot pattern, H pattern, ME, Window, All white (100 IRE), Black
Input:	RGB: BNC × 5
31 kHz:	R: 0.7 Vp-p ± 2 dB, 75 Ω G: 0.7 Vp-p ± 2 dB, 75 Ω G on sync: 1.0 Vp-p ± 2 dB, 75 Ω, sync negative B: 0.7 Vp-p ± 2 dB, 75 Ω H sync/C sync: 1.0 to 4.0 Vp-p, 75 Ω, positive/negative V sync: 1.0 to 4.0 Vp-p, 75 Ω, positive/negative

15 kHz:	*Available when an optional PWB-411D Video Input Board is inserted. See PWB-411D specifications.
Control-S:	Mini Jack (mono)
Remote:	RS-422: D-sub 9-pin connector (female) Linked ABL: Mini Jack (mono)
Output:	Mini Jack (mono)
Control-S:	RS-422: D-sub 9-pin connector (female)
Remote:	Linked ABL: Mini Jack (mono)
<b>General</b>	
Power Supply:	AC 120 V, 50/60 Hz
Power Consumption:	100-120 V, 2.8 A, 300 W
Dimensions (max.):	1018 (W) × 781 (H) × 1236 (D) mm (40 <sup>1</sup> / <sub>8</sub> × 30 <sup>3</sup> / <sub>4</sub> × 48 <sup>3</sup> / <sub>4</sub> inches)
Mass:	88 kg (194 lb)

\*1 RM-PJ1292 is included in the system control kit PWK-411D.

\*2 In the case of the RVP-511DS with the VPS-511RF optional screen.

\*3 ANSI is a measuring method of the American National Standards Institute ANSI IT 7.215.

## 3-2 Projection wall accessories

### VPS-515RF/415RF

- Screen with ultra-thin 0.2 mm screen surround for RVP-511DS/411DS
- Suitable for permanent applications

Dimensions:

VPS-515RF: 1011.4(W) × 84.2(D) × 760.4(H) mm  
(39<sup>7</sup>/<sub>8</sub> × 3<sup>3</sup>/<sub>8</sub> × 30 inches)

VPS-415RF: 823.4(W) × 84.2(D) × 620.4(H) mm  
(32<sup>1</sup>/<sub>2</sub> × 3<sup>3</sup>/<sub>8</sub> × 24<sup>1</sup>/<sub>2</sub> inches)

Mass:

VPS-515RF: 5.2 kg (11 lb 7 oz)

VPS-415RF: 3.7 kg (8 lb 3 oz)



VPS-515RF



VPS-415RF

### VPS-511RF/411RF

- Screen with durable 1.7 mm screen surround for RVP-511DS/411DS
- Suitable for general applications

Dimensions:

VPS-511RF: 1011 (W) × 87.1(D) × 760 (H) mm  
(39<sup>7</sup>/<sub>8</sub> × 3<sup>1</sup>/<sub>2</sub> × 30 inches)

VPS-411RF: 823 (W) × 87.1(D) × 620 (H) mm  
(32<sup>1</sup>/<sub>2</sub> × 3<sup>1</sup>/<sub>2</sub> × 24<sup>1</sup>/<sub>2</sub> inches)

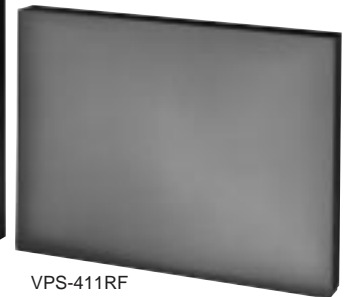
Mass:

VPS-511RF: 7.9 kg (17 lb 7 oz)

VPS-411RF: 6.2 kg (13 lb 11 oz)



VPS-511RF



VPS-411RF

### PWR-B511A/B411A

#### Installation Stand for RVP-511DS/411DS

- Base stand for the RVP-511DS/411DS with casters and height-adjuster
- For up to 8 (PWR-B511A for RVP-511DS) or 10 (PWR-B411A for RVP-411DS) vertical stacks\*

\*In some cases, reinforcement against earthquakes may be required

Dimension: PWR-B511A: 878 (W) × 587.7 (H) × 1126 (D) mm  
(34<sup>5</sup>/<sub>8</sub> × 23<sup>1</sup>/<sub>4</sub> × 44<sup>3</sup>/<sub>8</sub> inches)

PWR-B411A: 690 (W) × 587.7 (H) × 934 (D) mm  
(27<sup>1</sup>/<sub>4</sub> × 23<sup>1</sup>/<sub>4</sub> × 36<sup>7</sup>/<sub>8</sub> inches)

Mass: PWR-B511A: 50 kg (110 lb 4 oz)

PWR-B411A: 44 kg (97 lb)



PWR-B511A



PWR-B411A

### PWR-P512A/P513A/P412A/P413A

#### Position Beams for RVP-511DS/411DS

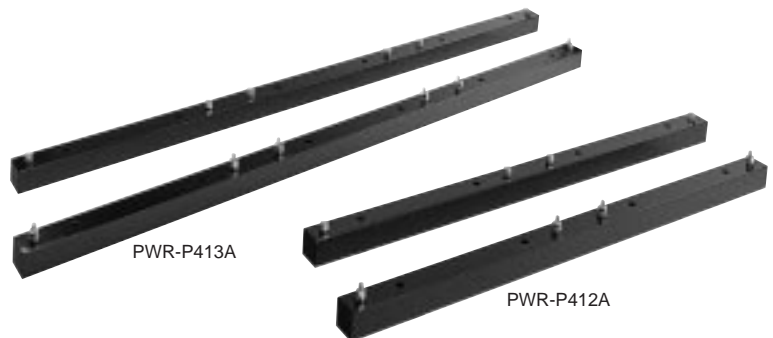
- A pair of position beams for dual or double mount horizontally of RVP-511DS/ 411DS
- Can be utilized in combination with other PWR-P513A/P512A/P412A/ P413A beams for more than triple mount.
- PWR-P512A for dual mount of the RVP-511DS
- PWR-P513A for triple mount of the RVP-511DS
- PWR-P412A for dual mount of the RVP-411DS
- PWR-P413A for triple mount of the RVP-411DMS

Dimension: PWR-P512A: 1940(W) × 80(H) × 80(D) mm  
(76<sup>1</sup>/<sub>2</sub> × 3<sup>1</sup>/<sub>4</sub> × 3<sup>1</sup>/<sub>4</sub> inches)

PWR-P513A: 2952(W) × 80(H) × 80(D) mm  
(116<sup>1</sup>/<sub>4</sub> × 3<sup>1</sup>/<sub>4</sub> × 3<sup>1</sup>/<sub>4</sub> inches)

PWR-P412A: 1564(W) × 80(H) × 80(D) mm  
(61<sup>5</sup>/<sub>8</sub> × 3<sup>1</sup>/<sub>4</sub> × 3<sup>1</sup>/<sub>4</sub> inches)

PWR-P413A: 2388(W) × 80(H) × 80(D) mm  
(94<sup>1</sup>/<sub>8</sub> × 3<sup>1</sup>/<sub>4</sub> × 3<sup>1</sup>/<sub>4</sub> inches)



PWR-P413A

PWR-P412A

Mass: PWR-P512A: 24 kg (52 lb 15 oz)

PWR-P513A: 36 kg (79 lb 6 oz)

PWR-P412A: 20 kg (44 lb 1 oz)

PWR-P413A: 30 kg (66 lb 2 oz)

## 3-2 Projection wall accessories

### PWB-411D

#### Composite Video Input Board for RVP-511DS/411DS

- Accepts composite, Y/C, component and 15 kHz RGB video signals
- Compatible with NTSC/PAL/SECAM/NTSC<sub>4.43</sub>
- Includes field doubling circuit

#### Inputs

Composite video:

BNC × 1

1 Vp-p, sync negative, 75Ω

Y/C:

BNC × 2

Y(luminance): 1 Vp-p ± 2 dB, sync negative, 75Ω

C(chrominance): 0.286 Vp-p ± 2 dB, 75Ω (NTSC)

0.3 Vp-p ± 2 dB, 75Ω (PAL)

RGB/component:

BNC x5

R/R-Y: 0.7 Vp-p ± 2 dB, 75Ω

G: 0.7 Vp-p ± 2 dB, 75Ω

G on sync/Y: 1 Vp-p ± 2 dB, sync negative, 75Ω

B/B-Y: 0.7 Vp-p ± 2 dB, 75Ω

H sync/C sync: 1 to 4 Vp-p, 75Ω, positive/negative

V sync: 1 to 4 Vp-p, 75Ω, positive/negative



### PWK-411D

#### System Control Kit for RVP-511DS/411DS

Includes accessories for system control:

- Infrared remote commander RM-PJ1292
  - Wired/wireless remote control unit
  - Full remote operation
  - Function keys can be illuminated for operation in dark rooms
- SIRCS cable (10m)
- Batteries (AA size × 3)
- System manual



RM-PJ1292

DISPLAY PRODUCTS

### CHP-411D

#### Projection Wall Chassis for RVP-511DS/411DS

- Provides flexibility in various applications
- For added flexibility, can be combined with the RVP-511DS/411DS cabinet
- Can be used as a back-up chassis unit for RVP-511DS/411DS

Mass: 48kg (105 lb 13 oz)

Dimensions: 671 (W) × 469 (H) × 450 (D) mm  
(26 1/2 × 18 1/2 × 17 3/4 inches)

Supplied accessories:

AC power cord

Remote control cable (1.0 m)

Operation manual



### RM-PJ10

#### Remote Control Receiver for RVP-511DS/411DS

Power requirements:

DC 6 V

Dimensions: 100 (W) × 50 (H) × 57 (D) mm  
(4 × 2 × 2 1/4 inches)  
(including mounting bracket)

Mass: 0.1 kg (3.5 oz)  
(including mounting bracket)

Supplied accessories:

Remote control cable: 15 m (45 feet)

Screws



## 4. Others

### DSC-1024HD

#### Digital Scan Converter

- Versatile upward and downward digital scan converter
- Input accepted in the 15.6 to 70 kHz horizontal frequency range and the 50 to 120 Hz vertical frequency range and output at an industry standard 15.6 kHz, 31.5 kHz, 33.75 kHz (1080i\*), 37 kHz, 48 kHz or 64 kHz frequency
- Built-in transcoder for universal conversions between video signal formats
- Genlock function is available
- PAL/NTSC conversion capability
- Scan doubler capability
- Automatic input signal recognition
- Variable offset sampling and high-density vertical interpolation capability for conversion resolutions
- Adjustable aspect ratios
- Built-in test pattern generator
- Zoom, pan and freeze frame functions provided for easy operation
- On-screen display for adjustment/operation

\* When a 1080i signal is output, a fV (60 Hz/59.94 Hz) is selectable on the on-screen display menu.

- Supplied accessories: D-sub 15-pin to 5BNC cable (6ft.)  
Operation manual
- Optional accessories: Rack mount bracket: MB-510  
D-sub 15-pin to 5 BNC cable: SMF-400  
D-sub 15-pin to D-sub 15-pin cable: SMF-401  
Remote commander: RM-854, RM-PJ1292, RM-PJ1001, etc.

#### Specifications

##### General

- Power requirements: AC 100 to 120V, 0.4 A (max.), 50/60 Hz  
AC 220 to 240 V, 50/60 Hz
- Power consumption: 30 W (max. power on), 3 W (typical power off)
- Operating temperature: 0 to 35°C (50 to 96°F)
- Dimensions: 424 (W) × 44 (H) × 354 (D) mm  
(16<sup>3</sup>/<sub>4</sub> × 1<sup>3</sup>/<sub>4</sub> × 14 inches)
- Mass: 4.1 kg (9 lb 1 oz)

##### Input connector

- Video 1: Composite: Loop-through BNC  
S Video: Loop-through Mini DIN 4-pin
- Video 2: Composite (composite/-/-),  
Component (G/B/R, Y/B-Y/R-Y): Loop-through  
D-sub 15-pin
- Video 3: Component (G/B/R, Y/B-Y/R-Y): Loop-through  
D-sub 15-pin
- Audio1/2/3: L/R RCA jack

##### Output connector

- Video out: Composite: BNC  
S Video: MINI DIN 4-pin  
Component (G, B, R, B-Y/R-Y):  
D sub 15-pin
- Audio: L/R RCA jack

##### Signal level

- Composite: 1 Vp-p (typical), (Video 1: Automatic 75Ω termination, Video 2: 75Ω/Hi-Z)
- S Video: Y: 1 Vp-p (typical), sync negative  
C: 0.286 Vp-p (NTSC)/0.3 Vp-p (PAL) (typical)  
Automatic 75Ω termination
- Component: G/B/R input: 0.714 Vp-p (typical) (Video 2: auto sync, Video 3: sync on G/external sync, switchable), 75 Ω/Hi-Z HV.sync/c.sync: 1-5 Vp-p
- G/B/R output: 0.714 Vp-p (typical) (with external sync), 75Ω (typical) HV.sync/c.sync: TTL
- Y/B-Y/R-Y input: 0.7 Vp-p (typical) (NTSC/PAL, sync on Y), 75Ω/Hi-Z
- Y/B-Y/R-Y output: 0.7 Vp-p (typical) (with sync on Y), 75Ω (typical)



##### Format conversion

- Capture range: fH: 15.6 to 70 kHz, fV: 50 to 120 Hz
- Sampling rate: 14.3 to 40 MHz offset phase max. (Equivalent to 80MHz sampling)  
14.3 to 50 MHz
- Output pixel clock: 14.3 to 50 MHz
- Line doubler: Line doubled vertically for each field
- Genlock: Reference: Black/burst signal on VIDEO1 input  
Applicable to NTSC/PAL outputs only  
Genlock ON/OFF, SCH adjustment
- Picture adjustment: CONTRAST/PHASE (except for GBR/YBR/PAL)/  
CHROMA (except for GBR)  
SIZE/CENTER/ZOOM (×2, ×3, ×4)/APERTURE (ON/OFF)/STILL (ON/OFF)

##### Regulation compliance

- USA: UL mark (UL-1950)/FCC 15-J class B
- Canada: CSA mark (C22.2 No. 950)/IC class B