

SONY®


Video Projector

VPH-V20M






Superior Picture Performance

 Incorporating cutting-edge optical and electronic technologies, the VPH-V20M projects the best possible pictures with its high resolution of 700 TV lines (composite video) and high light output of 100 ANSI lumens/700 lumens (peak white). The VPH-V20M uses high performance CRTs with a very small spot size, making it possible to reproduce clear, crisp video signals, with the phosphor of the green CRT producing exceptionally high level of colour purity.

A three-line logical comb filter provides accurate separation of luminance and chrominance signals, greatly reducing dot interference and cross colour.

Component and RGB input facility

 The VPH-V20M has both Component (Y/R-Y/B-Y, Y/C_R/C_B) and RGB inputs. These enable the projector to show images from a variety of signal sources, including Betacam or DVD, and maintain the inherently superior quality of these types of signal.



CRT




The stunning pictures from the Sony VPH-V20M CRT video projector ensure that your visual messages have a powerful impact on audiences.

These large, bright, projected images are a clear demonstration of the Sony commitment to the continuing development of optical and electronic technologies for video projection.


The VPH-V20M features an RGB and component (Y/R-Y/B-Y, Y/C_R/C_B) input facility, enabling the projector to show images from different types of equipment while maintaining the superior quality of these video signal formats. Projector adjustment and operation is easy with the supplied RM-PJV20 Remote Control Unit. This includes switching between 4:3 and 16:9 aspect ratio projection with the use of a single, convenient push-button operation.

A unique combination of Sony projection technology and operation convenience, the VPH-V20M is ideal for applications that require visually striking images.

Selectable Aspect Ratio


 Aspect ratio is selectable between 16:9 and 4:3. This is easily selected with a key on the projector control panel and on the supplied remote commander RM-PJV20. This function is useful for sources such as DVD software in 16:9 format.

Easy Adjustment and Operation


 The supplied RM-PJV20 Remote Commander and built-in remote control signal receiver provide control of all operations of the VPH-V20M. Adjustment status and information on the input signals are displayed on the screen for

reference during operation. This on-screen menu display can be selected to be in English, German, French, Italian or Spanish. Once projection settings have been determined, the data can be stored in one of the three user-memories. Fine adjustments can also be made to this memorized data. A standard memory is also available for easy access to the factory preset data. Moreover, the RM-PJV20 has a backlight feature to facilitate operation in dark rooms.

Versatile projection

 The VPH-V20M can be used with screen sizes ranging from 177.8 to 635 cm (70 to 250-inch). It can be used in many different applications and can be desktop mounted, floor mounted and used for rear projection.

Worldwide standards

 The VPH-V20M is compatible with the three major TV standards: NTSC, PAL and SECAM. NTSC^{4.43} can also be reproduced.



RM-PJV20



VPH-V20M Specifications

Optical	
Projection system:	3 picture tubes, 3 lenses, direct projection system
CRT:	7-inch (Phosphor size: 5.5-inch) liquid cooled high brightness monochrome tubes
Projection lens:	High performance hybrid multi-coated lens F1.0/130 mm
Screen:	70-inch (177.8 cm) to 250-inch (635 cm) measured diagonally (Factory preset: 100-inch (254 cm))
Light output:	ANSI 100 lm (15 kHz: 60 Hz, 6500 K) Peak white: 700 lm All white: 140 lm
Throwing distance:	100-inch (254 cm): 3301 mm (Approx. 11 ft) 200-inch (508 cm): 6417 mm (Approx. 21 ft)

Signals	
Color system:	NTSC, PAL, SECAM, NTSC _{4.43} automatically selected
Resolution:	700 TV lines (Composite video input) 1000 TV lines (RGB input)
Test signals:	Cross hair

General	
Power requirements:	220 V AC to 240 V AC, 50/60 Hz
Power consumption:	210 W
Operating temperature:	0 to 40 °C (14 to 104 °F)
Operating humidity:	35 to 85 %
Storage temperature:	-20 to 60 °C (-4 to 140 °F)
Storage humidity:	10 to 90 %
Dimensions:	532 (W) × 288 (H) × 597 (D) mm (21 × 11 3/8 × 23 5/8 inches)
Mass:	Approx. 30 kg (66 lb 2 oz)
Heat dispersion:	716.6 BTU

Inputs/Outputs	
VIDEO IN:	
Video*:	BNC 1.0 Vp-p ±2 dB, sync negative, 75 Ω
S video*:	Mini DIN 4-pin Y (luminance): 1.0 Vp-p ±2 dB, sync negative, 75 Ω C (chrominance): Burst 0.286 Vp-p ±2 dB (NTSC), 75 Ω or 0.3 Vp-p ±2 dB (PAL), 75 Ω

VIDEO OUT:	
Video:	BNC 1.0 Vp-p ±2 dB, 75 Ω

*S video has priority over the video input.

INPUT A:	
Analogue RGB/Component:	BNC
R/R-Y:	0.7 Vp-p ±2 dB, positive, 75 Ω
G:	0.7 Vp-p ±2 dB, positive, 75 Ω
G with Sync/Y:	1.0 Vp-p ±2 dB, sync negative, 75 Ω
B/B-Y:	0.7 Vp-p ±2 dB, positive, 75 Ω
SYNC/HD:	
Composite sync:	0.6-8.0 Vp-p, high impedance negative
Horizontal sync:	0.6-8.0 Vp-p, high impedance negative
VD:	
Vertical sync:	0.6-8.0 Vp-p, high impedance negative

CONTROL S:	Loop-through Stereo Mini Jack
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Safety Regulations
EN60 065 (TUV), CE, C-Tick, PTB

Accessories	
Supplied accessories:	Remote commander RM-PJV20 AA size Batteries (× 2) for remote commander AC power cord Spacer for 508 cm (200-inch) front projection Spacer (0.2 mm) for 254 cm (70 to 100-inch) rear projection Spacer (0.8 mm) for 254 cm (70 to 100-inch) rear projection Operating manual Installation manual
Optional accessories:	Signal Interface Cable SIC-10 Interface Unit IFU-1271M Suspension Support PSS-722 PSS-10 Remote Control Receiver RM-PJ10 80-inch flat screen VPS-80FH 100-inch flat screen VPS-100FH 120-inch flat screen VPS-120FH 70-inch rear screen VPS-702R



Connector



Control Panel

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