

SONY®

VPHG90U CRT High Resolution Home Theater Projector \$38,000.00 U.S. List Price



Description

Graphics projector, 3 9" electromagnetic focus CRT's, 350 ANSI lumens brightness output, maximum resolution capability of 2500 x 2000, newly developed high voltage system, accepts signals with horizontal frequencies from 15 to 150kHz, 135 MHz bandwidth, Composite video/ Y/C video/ Component (Y/R-Y/B-Y) / RGB / HDTV signals can be accepted, selectable 3 Line and 3D comb filters, hexapole beam spot adjustment, picture orbiting and scan line shift functions, expanded convergence option for simulation and virtual reality applications, PJ Com (RS-485) communication for upload and down load of projector settings and software, eight carrying handles built in, normal defocus mode, ABG function.

Highlights

- 9" Electromagnetic-Focus CRTs
- Projects Brilliant Theatrical Images on screens up to 300-inchs diagonal
- 350 Lumens
- HD Ready for High Definition Video
- Digital Reality Creation (DRC) for Ultra-Enhanced Resolution
- 4:3 Standard or 16:9 Widescreen Aspect Ratios
- RGB/Component Input: Accepts DVD, S-Video, TV Signals
- Full-function wired/wireless remote
- Quiet Operation

Features

Feature	Benefit
■ SONY'S DIGITAL REALITY CREATION (DRC)	Provides the best possible video images from conventional video signals without the need for expensive optional image enhancing accessories such as line doublers. Effectively yields the equivalent of a 960-line image from NTSC video.
■ HIGH BRIGHTNESS AND HIGH-RESOLUTION	Capability from the use of a new 9" electromagnetic focus CRT. The CRT of the VPH-G90U incorporates an ultra-fine phosphor, a low capacity gun and new magnetic coil to produce a spot size that is very crisp. The VPH-G90U also incorporates a new high voltage circuit, new video decoder circuit and HACC lenses to provide the highest contrast, sharpest and most brilliant image ever from a Sony CRT projector. Together these technologies contribute to delivering 350 ANSI lumens (1300 peak lumens) and a maximum resolution of 2500 x 2000 ensuring the best possible image quality on screen.
■ A WIDE RANGE OF SIGNALS CAN BE ACCEPTED	Providing the flexibility for the VPH-G90U to perform in a corresponding wide range of applications. Composite video, Y/C video, Component (Y/R-Y/B-Y), RGB, and HDTV signals can be accepted and displayed. The projector will accept and display signals with horizontal frequencies up to 150kHz and has 135MHz bandwidth to ensure faithful reproduction.
■ SELECTABLE COMB FILTERS	One 3 line and one 3D are provided for use with NTSC. The 3 line filter is best for video images with motion and the 3 D filter is better for use with static images by eliminating more of the cross color and dot interference from such images. Together they ensure the best possible display of NTSC signals
■ HEXAPOLE (6 POLE) ADJUSTMENT FUNCTION	Provided to allow for more precise beam spot shaping in the corners of the image. This allows for a good focused, crisp image from corner to corner.
■ NORMAL DEFOCUS MODE	Provided to deliver the best whites possible in the image. The user can shut off this defocus mode. When on, it will help ensure that the whites are clean contrast is high.

<ul style="list-style-type: none">■ AUTO BACKGROUND (ABG)	<p>Function is available to help maintain good black balance. The white line that would be present with ABG in earlier Sony CRT projectors will now be eliminated after 20 minutes from the time the unit is first powered on. Even though the line will be gone, the ABG will still function to improve image quality. ABG can be linked between other VPH-G90U projectors.</p>
<ul style="list-style-type: none">■ NEW REGISTRATION FUNCTIONS	<p>have been incorporated into the VPH-G90U in order to make set up and adjustment easier and more accurate. Keystone and Pincushion adjustments along with a fine adjustment mode for Size, Linearity, Skew and Bow.</p>
<ul style="list-style-type: none">■ AN INPUT MEMORY	<p>structure of 13 original memories and 137 custom memories is provided so the VPH-G90U can be configured for almost any need. Also, input memory manual load, save, delete and protect functions have been added for installers to make system integration and set up easier.</p>
<ul style="list-style-type: none">■ STANDARD DATA SAVE OF BOTH REGISTRATION AND MAGNETIC FOCUS DATA	<p>is provided separately to make set up and installation easier and more flexible.</p>
<ul style="list-style-type: none">■ CRT BURN IN PROTECTION	<p>Provided in the form of a picture orbiting function for applications with a majority of stagnant images and in the form of a scan line shift function. The brightness output of the VPH-G90U is so high that scan line burn in with video images is a possibility. Scan line shift works to prevent that problem and along with picture orbiting function helps provide longer useful CRT life. The picture orbiting function can also be synchronized between multiple VPH-G90U projectors.</p>
<ul style="list-style-type: none">■ WHITE BALANCE SELECTION	<p>for glass beaded screens and matte white screens is selectable to tailor the VPH-G90U output to the screen being utilized to obtain the best possible image quality. Also, the VPH-G90 has the ability to store white balance data for each input memory. The VPH-G90U has 4 preset color temperatures of 9300/6500/5400/3200 and also white balance can also be set to any user-desired level as well.</p>

■ FULL FUNCTION WIRELESS REMOTE COMMANDER UNIT	The RM-PJ1001 is a standard accessory for convenient control of the projector with a back light and direct access keys for many of the projectors features.
■ INDEX FUNCTION	Available in two levels. Device index is the number for each device (projector or switcher). Group index is organized from arbitrary user defined device indexes. Group index can be selected from the Remote Commander unit and will control all the devices in a specified group.
■ 8 CARRYING HANDLES	Easy foot adjustment controls allow for quick and easy set up.
■ EASY POLARITY CHANGE IS PROVIDED	There is a separate polarity cover. When this cover is opened, the power of the projector is automatically turned off if it hadn't been turned off already. All polarity changes for switching between desktop, ceiling and rear use can be made with sliding switches. No more need for rotating connectors.
■ RUGGED ALUMINUM CHASSIS	for greater durability in rental, staging and event applications.
■ THE ADVANCED SCHEIMPFLUG ADJUSTMENT	Can be accessed just by opening the upper cover of the projector. No need to remove the entire cover. Scheimpflug adjustment can be made independently for each CRT while monitoring the on screen test pattern image. These features contribute to quick, easy and accurate setup.
■ 12V DC TRIGGER TERMINAL	Simple Control
■ RS-232C/RS-422A/PJ COM (RS-485) COMMUNICATION	Systems are available standard on the VPH-G90U to yield the ultimate in system integration with full function remote manual and automated control. The PJ Com RS-485 compliant port greatly enhances system integration opportunities by allowing simply daisy chaining and intelligent mutual communication between the projector, the switcher if present and any connected computers. Software upgrades and enhances can now be "Up Loaded" to the VPH-G90U if and when they become available.

- **SIMULATION MODE** A new mode that allows for a greater range of registration data adjustment for simulation and virtual reality applications. This allows for use of the VPH-G90U on curved or spherical screens.

Specifications

Specification	Detail
■ Projection System	3 picture tubes, 3 lenses, direct projection system
■ CRT	9 inch (Phosphor size 7.7- inch) high luminance optical coupled, electromagnetic focus tubes
■ Projection Lens	Double focus, F1.15/167mm (Color purity improved : C element of Red/Green)
■ Light Output	ANSI 350 lumens (150kHz:50Hz, 6500°K) ASNI 280 lumens (15kHz:60Hz, 6500°K) Peak White 1300 lumens, All white 500 lumens
■ Screen Size Range	90 to 300 inches measured diagonally (factory preset to 120")
■ Throw Distances	90" Diagonal Image - 99" 100" Diagonal Image - 109" 120" Diagonal Image - 129" 150" Diagonal Image - 164" 200" Diagonal Image - 218" 250" Diagonal Image - 270" 300" Diagonal Image - 327"
■ Color System	NTSC/PAL/SECAM/NTSC 4.43/PAL-M automatically selected
■ Resolution	700 TV lines (video), 1100 TV lines (HDTV), 2500 x 2000 pixels (RGB measured at fH:102kHz, fV:50Hz)
■ Scanning Range	Horizontal: 15kHz - 150kHz Vertical: 38Hz - 150Hz

■ RGB Bandwidth	135MHz (-3dB)
■ Power	AC120V 50/60Hz
■ Power Consumption	Max. 1050W Stand by mode approx. 14W Power Saving Mode 600W
■ Dimensions	29 5/8 (W) x 15 ¼ (H) x 42 (D) inches 750 (W) x 385.5 (H) x 1066 (D) mm
■ Weight	Approx. 242 lbs. 8 oz. / Approx. 110 kg
■ Operating Temp	14° to 104° F / 0° to 40° C
■ Operating Humidity	35 to 85%
■ Heat Dispersion	3583.1 BTU
■ Video In:	Composite video: Loop-through BNC 1Vp-p ±2dB sync negative, 75Ohms automatic termination
■ S Video In:	Y In : BNC 1Vp-p ±2dB sync negative, 75Ohms termination C In : BNC Burst 0.286 Vp-p ±2dB (NTSC), 75Ohms terminated 0.3Vp-p ±2dB (PAL), 75Ohms terminated Y/C In: Loop-Through Mini DIN 4-pin Y (luminance): 1Vp-p ±2dB sync negative, 75Ohms automatic termination C (chrominance): Burst 0.286 Vp-p ±2dB (NTSC), 75Ohms automatic termination or 0.3Vp-p ±2dB (PAL), 75Ohms automatic termination

■ Input A:	Analog RGB / Component : BNC R / R-Y : 0.7Vp-p \pm 2dB positive, 75Ohms terminated G : 0.7Vp-p \pm 2dB positive, 75Ohms terminated Y / G with sync : 1Vp-p \pm 2dB sync negative, 75Ohms terminated B / B-Y : 0.7Vp-p \pm 2dB positive, 75Ohms terminated SYNC / HD : Composite sync : 0.6-8Vp-p high impedance, sync positive / negative Horizontal sync : 0.6-8Vp-p high impedance, sync positive / negative Vertical sync : 0.6-8Vp-p high impedance, sync positive / negative HDTV (Y/PB/PR) : BNC Y : 1Vp-p \pm 2dB, 75Ohms terminated Tri-level sync: \pm 0.3Vp-p Bi-level sync: 0.3Vp-p PB/PR : \pm 0.35Vp-p \pm 2dB positive, 75Ohms HDTV (GBR): BNC G with Sync: 1Vp-p \pm 2dB, 75Ohms terminated Tri-level sync: \pm 0.3Vp-p Bi-level sync: 0.3Vp-p B/R : 0.7Vp-p \pm 2dB positive, 75Ohms terminated
■ Input B/C:	Open for IFB Board
■ Control S In / Plug In Power:	Stereo mini jack 5 Vp-p Plug in power DC 5V max output 60mA
■ Control S Out:	Stereo mini jack 5Vp-p
■ RemoteRS-232C and RS-422A in and PJ COM RS-485 compliant in and out:	D-sub 9 pin (female)
■ Trig:	Mini jack : Power ON : DC 12V Output impedance 4.7kW Power OFF : 0V
■ Safety Regulations	UL1950, cUL 950 (CSA No. 950), DHHS, DNHW FCC Class A, IC Class A

Accessories

Supplied

Model Name	Description	U.S. List Price
RMPJ1001	Full Function Remote Commander Unit for VPH-G90U, VPH-D50Q,VPH-D50HTU	\$400.00

Optional

Model Name	Description	U.S. List Price
EXB5010	Extension Board for PC-3000 System Interface Switcher	\$1,025.00
PC3000	Remote Controllable System Interface Switcher	\$3,899.00
PSS10	Projector Suspension Support Extension Pole for VPH-D50HTU, VPH-D50Q	\$700.00
SIC20C	Power Macintosh LC, Power Book Quadra & Centris 6.6ft Signal Interface Cable	\$245.00
SIC22	High Density 15-pin to local monitor 6.6ft interface cable	\$245.00
SICM1	14pin (male)/14-pin (female) Cable (1m) 3.3ft	\$150.00
SICM15	14pin (male)/14-pin (female) Cable (15m) 49ft	\$465.00
SICM25	14pin (male)/14-pin (female) Cable (25m) 82f	\$600.00
SICM50	14pin (male)/14-pin (female) Cable (50m) 164ft	\$1,050.00
IFB1000	Y/C or Composite Video Input Interface Board ues w/ VPH-G90U, VPH-D50 Series	\$500.00
IFB12A	5 BNC Input/Output Interface Board for VPH-G90U, VPH-D50Q, VPH-D50HTU	\$550.00
IFB20	Analog RGB/Computer Interface/Input Board	\$490.00
IFB21	Analog RGB Input/Output Optional Interface Board (HD) D-sub15pin	\$399.00
IFB40	Interface Board 14-pin multi-connector used w/ VPH-G90U, VPH-D50Q,VPH-D50HTU	\$675.00
IFB50	SDI Interface Board for VPH-G90U, VPH-D50Q,VPH-D50HTU	\$1,075.00
IFU1271	Signal Interface Unit for VPH-G90U, VPH-D50Q	\$1,750.00
M5	Mini Cassette Record Player	\$49.95
MACVIEWLX	Interface Adaptor for Macintosh Computers	\$14.95
PC1271	Signal Interface Switcher	\$2,900.00
PSS90	Suspension Support for the VPH-G90U	\$450.00
RCC5G	9 Pin Cable, 5 Meter	\$145.00

RMPJ10	Remote Infrared Sensor (Wireless Projector Control) for VPH-G90U, VPH-50Q,VPH-D50HTU	\$200.00
SIC10	5 BNC to 5 BNC (10m) 32.8ft Signal Interface Cable	\$245.00
SIC20A	Macintosh II Series (2m) 6.6ft Signal Interface Cable	\$245.00
SIC20B	Signal Interface Cable for Mac	\$245.00
SIC21	D-Sub 9-pin local monitor 6.6ft Signal Interface Cable	\$245.00
SIC23	Interface Cable For Projectors	\$185.00
SICM5	Signal I/F Cable	\$0.00
SMF400	2m Cable	\$39.00
SMF401	15-Pin HD VGA to 15-Pin HD VGA Cable	\$29.00