

Series 200 Projectors
Hughes-JVC Technology Corporation



Tired of having to choose between perfect images and quick setup? Now you can have them both. Series 200 projectors feature a single lens, sophisticated software with pull-down menus, and factory pre-sets for the most common sources. With setup typically in just 20 minutes or less, you'll enjoy true plug-and-play operation.

But a great image on the screen...isn't that the *real* reason you're using a large screen projector? Whether you're displaying video, HDTV, data or high resolution graphics, in a wide range of aspect ratios, including 4:3 and 16:9, you'll be drawn into big, bright, stunningly lifelike images with vivid colors, sharp contrast and crisp resolution.

The Model 230 is ideal for command and control centers, simulators, boardrooms and conference centers, universities, tradeshow, sports bars and concerts as well as a wide variety of rental and staging applications. The Model 230HD offers the best High Definition video picture of any single lens projector on the planet. It is an outstanding solution for applications like HDTV production, post production, home theater and broadcast studio sets. And the Model 250SC delivers incredible brightness for large, challenging venues like theme parks, concerts and arenas.

Proprietary ILA® Technology

Hughes-JVC offers the only projectors that incorporate the Image Light Amplifier (ILA®) device. This liquid crystal light valve, coupled to the CRT with a highly refined optics system, delivers an unparalleled combination of brightness, color, contrast, bandwidth and resolution. Performing far beyond the limitations of conventional fixed matrix projectors, ILA® projectors deliver the lifelike image that others only promise.

Industry Leading Performance

With 3400 to 5800 lumens of light output and contrast ratios up to 1000:1, Series 200 projectors shine brightly through even the highest ambient light conditions. Bandwidth of 120 MHz allows every detail of the source signal to show on the screen. And compatibility with sources up to 105 kHz frequency and 2330x1750 resolution means you've got the headroom to display images from virtually any current or future source.

High Resolution, Non-Pixelized Display

Conventional projectors rely on a fixed pixel matrix, creating pixelized images and requiring the up- or down-conversion of source material not at the native resolution of the panel. Hughes-JVC Series 200 projectors display images up to 1920x1080 without down-converting. That means more detail on the screen with no artifacts, dead pixels or pixel mapping errors.

Xenon Arc Lamp

Hughes-JVC's Xenon Arc Lamp, the same light source used in motion picture projectors, produces pure, white illumination to ensure color accuracy and saturation. This Xenon lamp is also much more stable over time than other light sources, helping to maintain a highly stable color temperature. The long lamp life, up to 1200 hours, provides both high image quality and operating costs up to 75% lower than competing technologies.

Lenses

Series 200 projectors are available with a variety of Fixed and Power Zoom Lenses for countless variations of screen sizes and projector placement — up to 210 feet from the screen. Custom Lenses are also available, including an option specially designed for simulation applications. Developed by the world's most renowned optical manufacturers, all Hughes-JVC lenses provide sharp, ghost-free images with consistently high levels of light transmission.

VIC Cards

Video Input Card slots allow easy customization of inputs. A wide range of options includes RGBHV, Quad RGBHV, Decoder/Line Doubler, HDTV Component and RGBHV Graphics Enhancer.

Variable Mounting Positions

Flexible mounting capabilities allow a wider range of applications. Any Series 200 projector may be either ceiling or floor mounted, upright or inverted position, front or rear projection. Optional Extended Keystone range allows mounting up to 25 degrees off-axis.

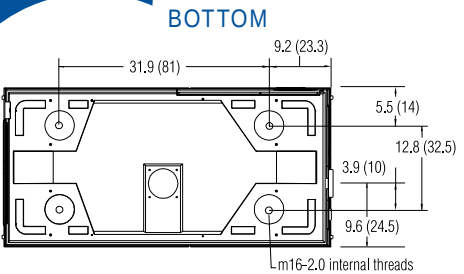
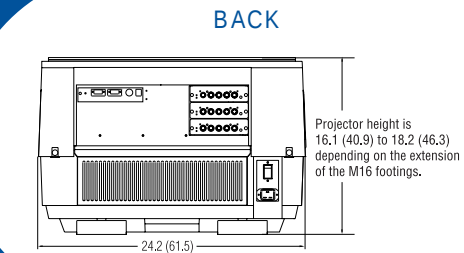
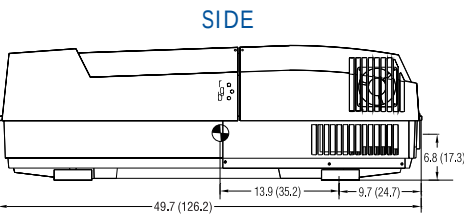
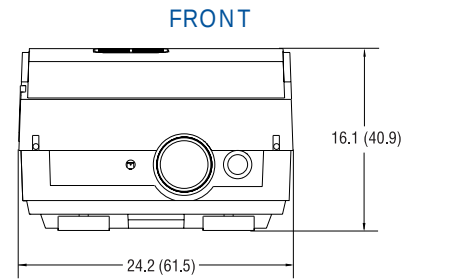
Special Applications

Series 200 projectors excel at a number of specialized applications impossible with fixed matrix displays. Their ability to reshape the raster makes them an outstanding choice for curved screen applications like simulators and domed theaters. Edge Blending capabilities allow seamless panoramas, even a full 360 degree theater in the round. Special Fast response ILAs and Fast retrace CRTs are available for display of high speed motion. And Color Matched Optics are an ideal option for side-by-side projector applications. With the power and flexibility of Hughes-JVC technology, the possibilities are endless.

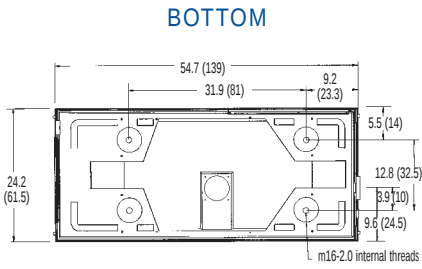
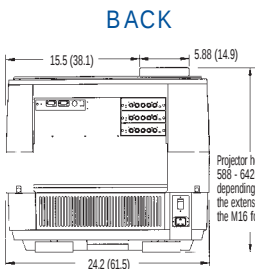
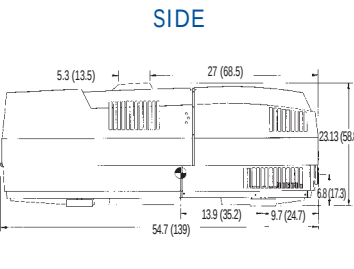
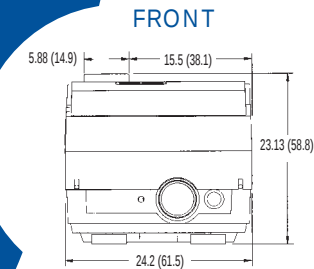
NORTH AMERICAN
SPECIFICATIONS

SPECIFICATIONS	230 / 230SC	230HD	250SC
Brightness	3400 Center Full White/ 2700 ANSI Lumens	2550 Center Full White/ 2025 ANSI Lumens (16:9 aspect ratio)	5800 Center Full White/ 5400 ANSI Lumens
Contrast	390:1 (950:1 with SC model)	1000:1	
RGB Bandwidth	120 MHz at -3dB		
Horizontal Frequency	15-105 kHz		
Vertical Frequency	45-120 Hz		
Aspect Ratio	4:3 - 16:9 (variable)	16:9 (4:3 by reducing horiz. size)	4:3 - 16:9 (variable)
Blanking	H:<2.3 μsec, V: <500 μsec		
Source Compatibility	2330x1750 (HxV)		
Graphics Resolution	1600x1200 (HxV)	1920x1080 (HxV)	1700x1300 (HxV)
Video Resolution	1130 TVL at 4:3 aspect ratio	1080 TVL at 16:9 aspect ratio	1300 Lines at 4:3 aspect ratio/ 975 Lines at 16:9 aspect ratio
Color	SMPT E 240M		
Convergence	Digital with 99 memories/channels		
Light Modulator	3 Proprietary Image Light Amplifiers (100% solid state liquid crystal light valve)		
Power	220 VAC, 20 A, 50/60 Hz, 2200 Watts, 7506 BTUs		220 VAC, 20 A, 50/60 Hz, 2600 Watts, 8840 BTUs
Light Source	1600 Watt Xenon Arc Lamp		2000 Watt Xenon Arc Lamp
Lamp Life (typical)	1000 hours until 70% brightness		
Lens Options	Motorized Zoom: 2.6:1 - 5.1:1 Fixed: 1:1, 1.5:1, 7:1 Special order: 3:1 Simulator lens (1.2:1 with adapter) All lenses with motorized focus	Motorized Zoom: 2:1 - 4:1 Fixed: 0.96:1, 1.2:1, 5.6:1 All lenses with motorized focus	Motorized Zoom: 2:1 - 4:1 Fixed: 0.96:1, 1.5:1, 5.6:1 Special order: 2.4:1 Simulator lens All lenses with motorized focus
Throw Distance	Zoom: 13'-102' (4m -31m), Fixed: 7' - 210' (2.1m - 64m)		
Screen Size (width)	Zoom: 5' - 20' (1.5m - 6.1m) 7' - 27' (2.1m - 8.2m)	Zoom: 6.1' - 26' (1.9m - 8m) Fixed: 8.7' - 33.7' (2.6m - 10.3m)	
Keystone	Up to ±5° (H), ±15° (V) Standard / Up to ±7° (H), ±25° (V) with Extended Range Option		
Inputs	RGBHV with two extra VIC slots available. Options: Standard Decoder VIC, RGBHV Graphics Enhancer VIC, YPbPr HDTV VIC, Decoder/Doubler VIC (2 slots), Quad RGBHV VIC (2 slots)	RGBHV and YpPr HDTV VIC with one extra VIC slot available. Options: Standard Decoder VIC, RGBHV Graphics Enhancer VIC, YPbPr HDTV VIC, Decoder/Doubler VIC (2 slots), Quad RGBHV VIC (2 slots)	2xRGBHV (one with Graphics Enhancer Plus) with one extra VIC slot available. Options: Standard Decoder VIC, RGBHV Graphics Enhancer Plus VIC, YPbPr HDTV VIC, Decoder/Doubler VIC (2 slots), Quad RGBHV VIC (2 slots)
Communications Ports	2 RS-232 ports		
Size (HxWxL)	16.1" x 24.2" x 49.7" (40.9cm x 61.5cm x 126.2cm)		23.1" x 24.2" x 54.7" (58.8 cm x 61.5cm x 139cm)
Weight	260 lb. (118 kg)		280 lb. (127 kg)
Operation Temperature	50° - 104°F (10° - 40°C)		
Accessories Included	User's Guide: 1 RGBHV VIC, Technician's IR Remote and Cable, Data Setup Restoration Disk, AC Power Cord	User's Guide: 1 RGBHV VIC, 1HDTV VIC, Technician's IR Remote and Cable, Data Setup Restoration Disk, AC Power Cord	User's Guide: 1 RGBHV VIC, 1 RGBHV Graphics Enhancer Plus VIC, Technician's IR Remote & Cable, Data Setup Restoration Disk, AC Power Cord
Optional Accessories	Optional Accessories: Extended Geometry Board Set, High Speed Option (Fast CRTs, Fast ILAs), Color Matching, Backlit Tethered Remote, Executive Backlit IR Remote, 150' Cable for Remotes, Service Manual, plus Lenses and VIC Cards (options above), shipping case.		

Brightness and contrast measured at 1024x768, 90Hz, 5600°K. Specifications subject to change without notice.



Units: inches (cm)



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Ref: GEN-NA-200 June 1999



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