

1.0 Introduction

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The **Hughes-JVC Series 300 Projector** accepts a variety of inputs and operates with a wide range of frame and raster rates. The Series 300 meets these technical requirements with sophisticated computer terminal control, a unique optics system, a very high-powered projection arc lamp and Hughes-JVC unique **ILA[®]** (Image Light Amplifier) assembly.

The projector is intended to be used for the projection of video and graphics, as shown in this manual. It should not be used for purposes it was not designed for.

1.1 Shipping and Inspection

The Series 300 Projector is shipped in an airtight custom-made shipping container.

The container is equipped with tilt and drop indicators. Upon arrival, inspect the container for any abnormal readings, dents, gouges and any other evidence of rough handling. Abnormal readings or conditions should be immediately reported to Hughes-JVC.

As soon as the projector is removed from the shipping container, inspect the exterior of the projector for signs of shipping damage, such as scratches, abrasions, cracks on paint, or other surfaces.

Before mounting and applying power to the projector, remove the cover and inspect each subassembly for loose components, foreign objects, or signs of shipping damage. After inspecting, replace the cover.

1.2 Items Shipped with the Series 300

The following standard items are shipped with every Series 300 Projector:

- 1 set of 3-projection lenses, installed
- 1 Infrared (IR) remote control
- 1 Operator's Manual
- 1 Projector Data Backup Disk (contains backup factory setup data-see Section 4.2 and Appendix A, Section 4.7)
- Shipping Case

1.3 Options

The following options are available for use with the Series 300, when ordered through Hughes-JVC, unless otherwise indicated.

- Tethered technician remote, (identical to the I/R remote, with the addition of a 4-line, 20-character LCD display and backlit control panel and optional 25', 50', or 75' tether cable for above (plugs into jack on the back of the projector).
- Extron System 8 or System 10 Switcher
- I/R Repeater for use with rear projection setup or with long distances (greater than 50') from the remote to the projector
- 100 or 150' Cable for above IR Repeater
- Service Manual
- Faroudja LD200 Line Doubler
- Faroudja LD200U Line Doubler (for PAL)
- Faroudja VP250 Line Doubler
- Faroudja VP400 Line Quadrupler
- Faroudja VP400U Line Quadrupler (for PAL)

1.4. Projector Control

Throughout this manual, reference is made to controlling the projector through an attached terminal or PC or with one of three remote controls. *Section 5.4, Keyboard Command Equivalents*, lists the keyboard command equivalents for the remote control keys.

1.5 Right and Left Orientation

References to the right and left side of the projector are with the operator standing behind the projector as the projector is directed at the screen (*Figure 1-1*).

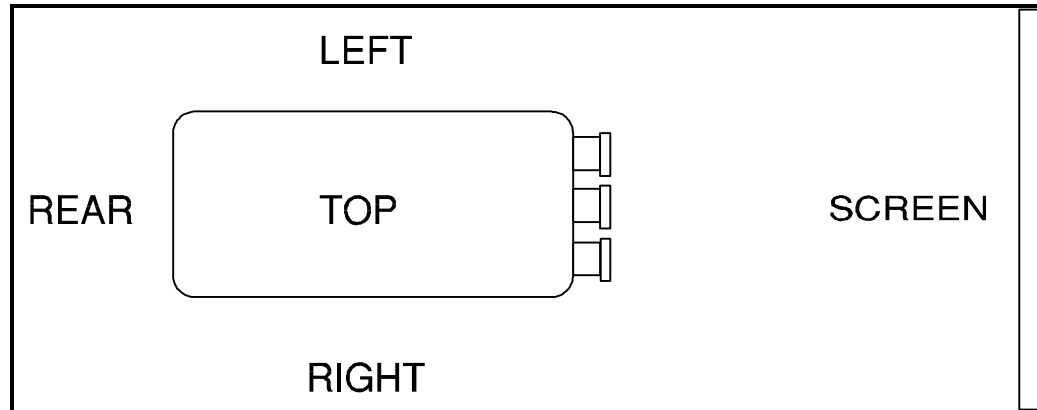


Figure 1-1. Top view, left/right designation.

1.6 Acronyms Used in Manual

CH	Channel
CRT	Cathode Ray Tube
G2	CRT grid 2
HDB	Horizontal Deflection Board
HDTV	High Definition Television
HVPS	High Voltage Power Supply
ILA [™]	Image Light Amplifier
IR	InfraRed
KHz	Kilohertz
LCD	Liquid Crystal Display
PCB	Printed Circuit Board
PC	Personal Computer
RGB	Red, Green and Blue
RTG	Raster Timing Generator
SCB	System Control Board
VAB	Video Amplifier Board
VDB	Vertical Deflection Board
VPB	Video Processor Board
VTR	Video Tape Recorder

Throughout this manual references will be made to **R**, **G** and **B**. These letters refer to **Red**, **Green** and **Blue**.

