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# 1.0 Introduction

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The projector accepts a variety of inputs and operates with a wide range of frame and raster rates. The projector 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 images 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 projector is shipped in one of two shipping containers. The standard shipping container is not reusable and is normally used when the projector is to be permanently mounted and not moved around. A reusable, airtight container is optional if the projector will be moved to different locations. The containers are equipped with tilt and drop indicators.

Upon arrival, inspect the container for any abnormal readings, dents, gouges and any other evidence of rough handling. Immediately report any abnormal readings or conditions to the shipping company.

After removing the projector from the shipping container, inspect the projector's exterior for signs of shipping damage like scratches, abrasions, cracks on paint, or other surfaces.

## 1.2 Items Shipped with the Model 220

The following items are shipped with every Model 220 Projector:

- IR Remote Control.
- User's Guide
- Shipping Case (non-reusable)
- Standard RGB Video Input Card
- Projector Data Backup Disk (contains backup factory setup data-see Section 5.3.2, Factory Preset Channels and Sources)
- Zoom Lens

### 1.3 Options

The following options are available for Model 220 projector when ordered through Hughes-JVC:

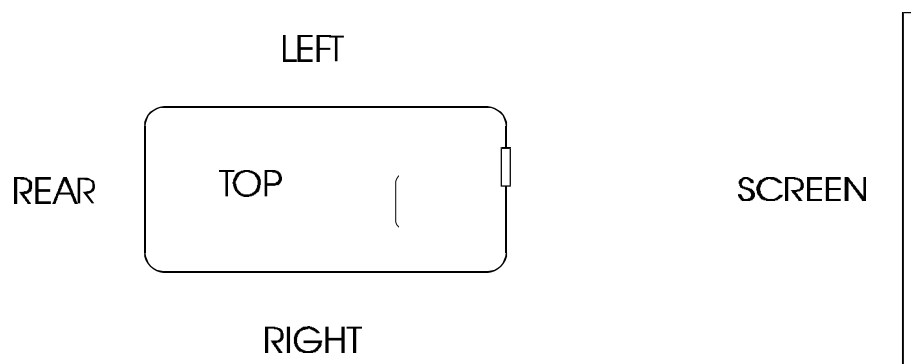
- 150' Tether Cable or Remote Control
- Extron System 8 or System 10 Switcher
- Service Manual
- Faroudja LD200/200U Line Doubler
- Faroudja VP400A/400AU Line Quadrupler
- Reusable Shipping Container
- Optional Video Input Cards include a Graphic Enhancer RGBHV, Quad Decoder (NTSC, PAL, SECAM, and S-Vid), HDTV (YPbPr), and a 4X RGB Mux (4 RGB input).
- 1:1 lens, 1.5:1 lens, 3:1 lens, 7:1 lens. **NOTE:** When changing from the Zoom lens to a fixed lens or from a fixed lens to the Zoom lens, refer to the Service Manual.
- Extended Geometry Board Set
- Backlighted Tethered Technician Remote

### 1.4. Projector Control

Use a remote control or a PC terminal to control the projector.

### 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
HDTV	High Definition Television
HVPS	High Voltage Power Supply
<b>ILA™</b>	Image Light Amplifier
IR	Infrared
LVPS	Low Voltage Power Supply
PCB	Printed Circuit Board
PC	Personal Computer
RGB	Red, Green and Blue
UV	Ultraviolet
VIC	Video Input Card
VNR	Video Noise Reduction
VTR	Video Tape Recorder

## 1.7 Software Updating

Procedures to update the Boot Manager and/or System Software can be found in Section 5.14.

