



URS1608

OPERATION MANUAL

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REVISION HISTORY

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Section 1: Important Safety Instructions



This symbol indicates the presence of “dangerous voltage” within the product enclosure that may be significant enough to cause a risk of electrical shock.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus outdoors or near water. To reduce the risk of fire or electric shock, do not expose this apparatus to moisture or rain.
6. Do not place objects containing water on top of or near the unit, or expose the unit dripping or splashing hazards from objects filled with liquids, such as vases.
7. Clean only with a dry cloth.
8. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
9. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
10. Do not defeat the safety purpose of the polarized or grounding – type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
11. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
12. Only use attachments/accessories specified by the manufacturer.
13. Unplug **all** power and power supply cords from the apparatus before servicing, during lightning storms, or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.

Cautions and Safety Notices

Battery Warning

The battery in URS1608 is not intended to be replaced by the user. Failure to follow these instructions will void the warranty of the unit.

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type of battery.

Service Warning

All servicing instructions are for use by qualified service personnel only. There are no parts inside the unit that are intended to be serviced by the user. Any procedure performed inside the unit is intended to be performed by qualified service personnel only.

To reduce the risk of electrical shock, the service technician shall remove the cord from the wall receptacle and the rear of the unit before attempting to service the unit.

Failure to follow these instructions may void the warranty.

Class I Construction Warning

An apparatus with **Class I** construction shall be connected to a **MAINS** socket outlet with a protective earthing connection.

Operating in 110V or 220V

The removable power supplies in the URS1608™ will internally switch automatically to accept 110 volt or 220 volt power sources. No manual operation is required when switching between these voltages.

Section 2: Introduction

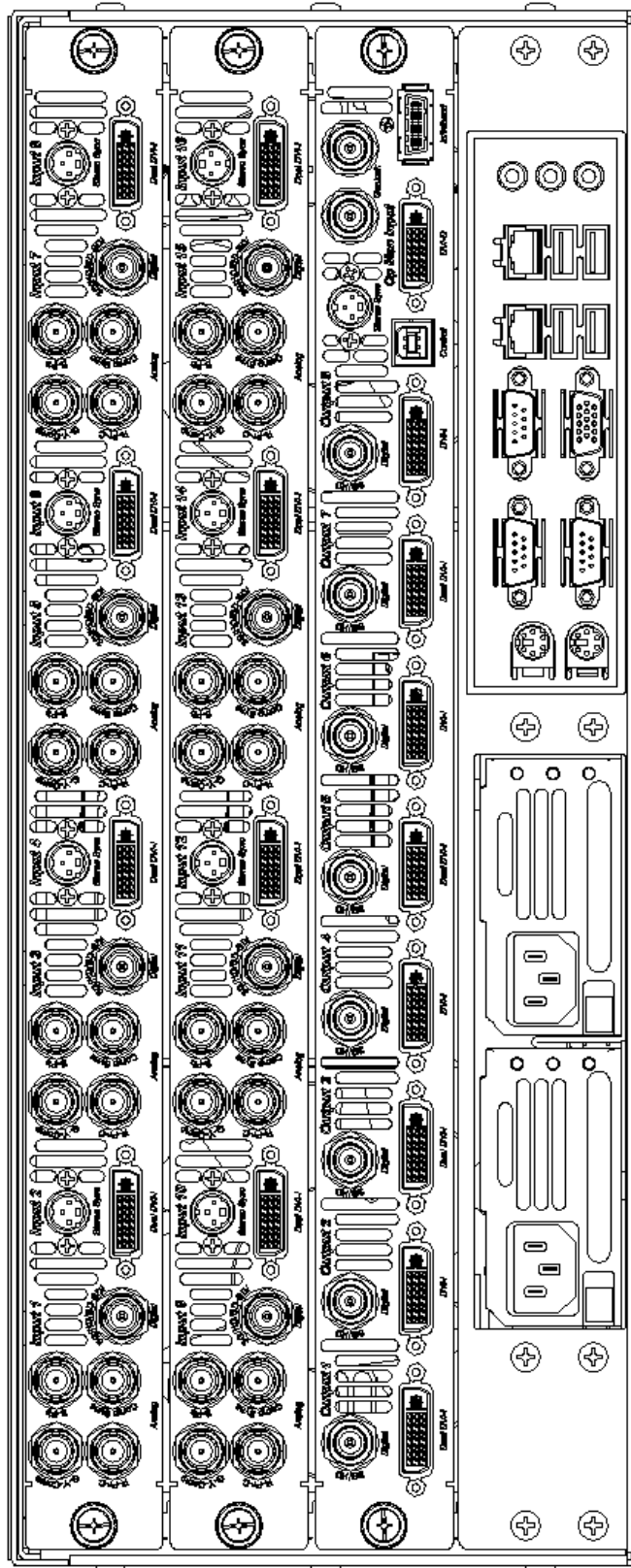
URS1608™ is a versatile routing switcher with internal video processing capabilities, allowing for the compositing of various video formats onto one or multiple discreet outputs.

The URS1608 hardware platform can be used in a wide variety of configurations, with up to 16 inputs and 8 outputs.

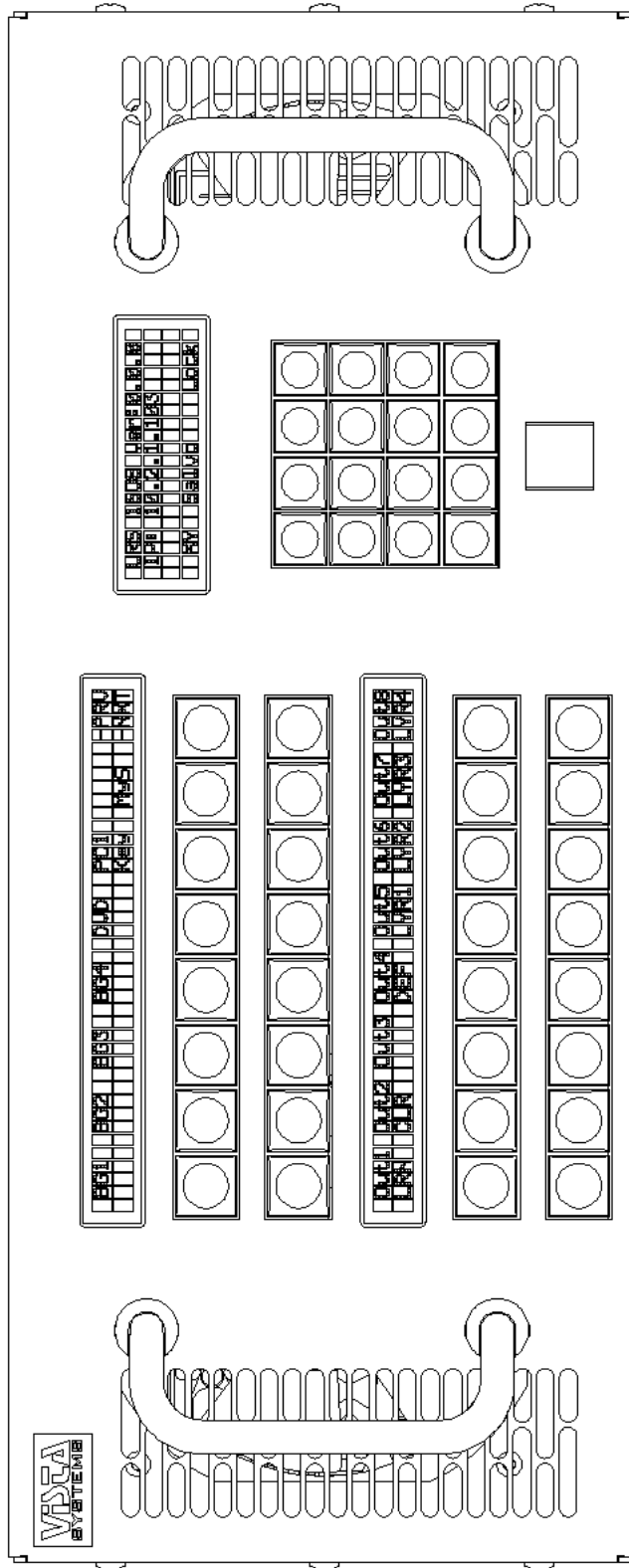
URS1608 control can be accomplished multiple ways depending on application:

- URS1608 control suite PC based software applications
- Integrated front panel / push-button interface
- 3rd party control systems such as Crestron or AMX

This manual is designed to give an overview of URS1608 features, functionality and operation. The detailed operation of control platforms provided by Vista Systems will be found in the respective manuals for those platform(s).



URS1608 Backpanel



URS1608 Front Panel

Connection Descriptions

This section describes video connection types supported by the URS1608, as well as any relevant supported formats.

Inputs

The connector types alternate on each input connector for maximum flexibility, and the specific connector types are listed below. For each input, only one connector / signal type can be selected at a time.

Odd Input Connectors (1, 3, 5, etc.)

- Analog (3 or 4 wire BNC)
- Composite / S-Video (Shares BNC with composite analog sync signal)
- SDI / HD-SDI / 3G-SDI (Single dedicated BNC)

Even Input Connectors (2, 4, 6, etc.)

- DVI-I (Analog and Digital on single connector)
- Stereo Sync input (3-Pin DIN)

Outputs

Each Output Module has various video connectors on the rear. Multiple output connectors can be enabled simultaneously, provided that the user defined output format is valid for the connector. SXGA (1280x1024) for example, is valid for DVI and analog connectors, but is not a valid format for SDI, composite, or S-Video connectors.

Each output channel provides the following connector types:

- DVI-I (Analog and Digital on single connector)
- SDI / HD-SDI / 3G-SDI

Section 3: Operation

Overview

URS1608 is a video processing and windowing system designed by Vista Systems specifically to offer an uncompromising solution for format conversion and compositing multiple discreet outputs to be fed to a variety of display types. Up to four inputs can be placed, tiled, and/or keyed anywhere within each output.

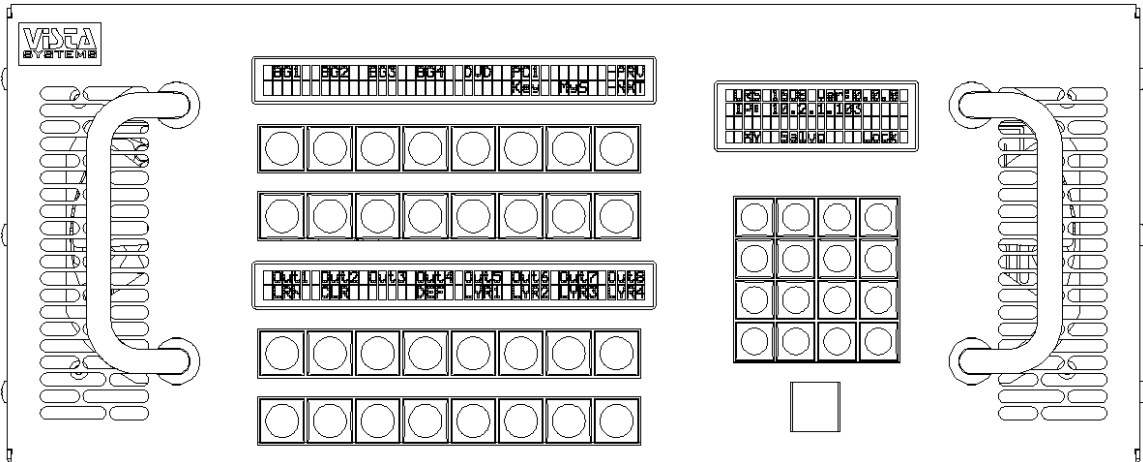
The URS1608 uses a soft power scheme. Pressing the Standby switch initiates a power up cycle and after a short boot time the front panel display will indicate operational status. Pressing the Standby switch again initiates the power down cycle after which the unit enters standby mode. Holding the power button on the front panel of the system for 13-15 seconds can be used to force power off, however this technique may cause permanent configuration data loss.



The user should avoid disconnecting the primary power source (AC input) until the unit is in standby mode. Failure to do this could result in hard drive data corruption.

Front Panel

The URS1608 enclosure is equipped with a LCD / switch button interface located on the front panel. This interface allows for both control and access to status information of the unit. As the front panel functionality is dependant on the version of firmware running on the unit, actual front panel operation is discussed in detail in the software / operator's manual for the URS1608.



External Control

URS1608 is a very versatile video processing system and lends itself to a wide variety of applications, many of which have different feature and functionality requirements. A range of control capabilities for 3rd party integration is available from Vista Systems to extend or replace the functionality available from the standard software interface provided.

URS1608 ships with Windows® based client software, which can be installed on Windows XP / Vista compatible PCs for control. A web based interface is additionally available, which provides control for non-Windows based computers, or for cases where client software installation is undesirable. Additionally, Vista provides a control protocol available for 3rd party control systems.

Physical Connection

The URS1608 frame uses an ASCII based command system for external control. Connectivity is available via an RJ-45 (Ethernet) connection, or a 9-pin RS-232 serial connection to the frame. Both the Ethernet and Serial interfaces respond to the same string commands, and can do so concurrently.

Serial Connectivity

The first RS-232 port on the back of the URS1608 frame is configured to communicate using the external control commands described later in this guide. The serial port communication speed is set to 9600 baud, 8 data bits, no parity, and 1 stop bit (8-N-1).

Note: A cross-over serial cable is required to connect a PC to the URS1608 serial port.

Note: When using serial control, each command must be terminated with a carriage return.

RS-232 Serial Pinout	
Pin	Function
2	Receive (RX)
3	Transmit (TX)
5	Ground

Ethernet Connectivity

The URS1608 frame can be controlled remotely by sending the ASCII commands listed below within a TCP session on port 11119 on the frame. Like the RS-232 serial communication control, commands are terminated with a carriage return.

Section 4: Physical Specifications

Dimensions (W x H x D)

- URS1608 4 RU: 17.3W x 7H x 21.9D inches

Weight

- URS1608 4 RU: 70lbs (Approx)

Power Consumption

- URS1608 3 RU: 100-240V AC 1000W max (Fuse: Internal Auto-Resetting)
- Stand By Power: <20W

Rack mount Instructions

