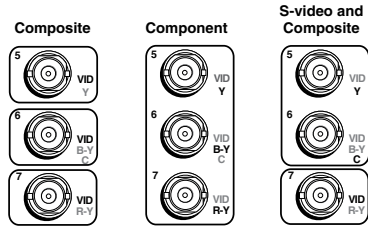


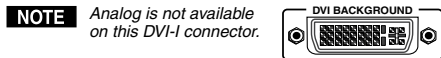
MGP 464 and MGP 464W Multi-Graphic Processors

Installation

1. Install the four rubber feet on the bottom of the MGP, or rack mount the unit with the provided brackets. For rack mounting, remove the self-adhesive rubber feet if they have been attached. (Refer to chapter 2, "Installation and Operation," in your MGP user's manual.)
2. Turn off power to the input and output devices and remove the power cords from them.
3. Connect the input sources to the MGP's BNC and/or DVI input connectors. The inputs can accept the following signal types:

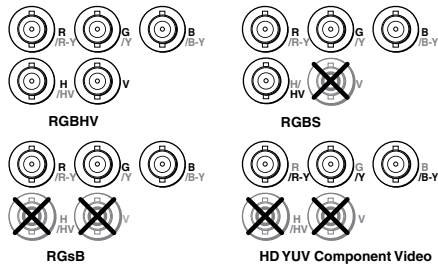


- **DVI Background input** — DVI for live background video only

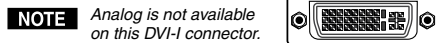


4. Attach one or two displays or other output devices to the MGP's output connectors.

- **BNCs for RGBHV, RGBS, RGsB, or YUV-HD component video output**

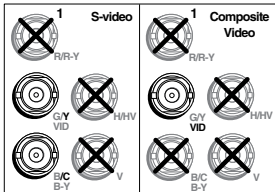
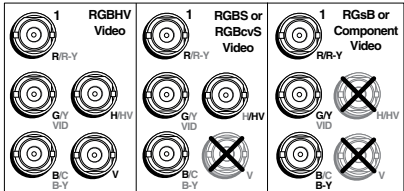


- **DVI output**



5. If the MGP 464 will be connected to a computer or to a host controller for remote control, connect the host's RS-232 cable to the MGP's 9-pin RS-232/422 D connector; and/or use an RJ-45 network cable to connect the MGP's LAN port to a network. Refer to your MGP user's manual for instructions.
6. Plug the MGP and the input and output devices into a grounded AC source, and turn on the input and output devices.
7. **Non-WindoWall models:** Use the LCD menu screens (see "Menus," at right), SIS commands, the MGP 464 Web pages, or the Windows-based control software to configure the MGP. Refer to chapters 3, 4, and 5 of the *MGP 464 User's Manual*.

WindoWall models: Use the WindoWall Console software to configure the MGP. Refer to chapter 3 of the *MGP 464W User's Manual*.



- **DVI-I inputs 1, 2, 3, and 4** — DVI (MGP 464 DI and MGP 464W DI models only)



NOTE Analog is not available on these DVI-I connectors.

- **Virtual inputs 5–19** — (Non-WindoWall models only) Component video, S-video, or composite video (configurable via Windows®-based control software, SIS™ commands, or Web pages only). See the illustration at top right.

In each column, inputs can be connected as follows:

- Three composite video inputs
- One interlaced component video input. (Connects to all three BNCs in the column.)
- One S-video input and one composite video input

NOTE The S-video must always be connected to the top two BNCs (Y on top, C second). A composite video input can be connected to the bottom BNC.

Front Panel Buttons

The MGP 464 front panel (non-WindoWall models only) contains the following sets of buttons that let you control and configure the processor.

- **Freeze** — Freeze the input in the currently selected window. To unfreeze the input, press the button again.
- **RGB/HD/Video Inputs (1–4)** — Select fully configurable inputs 1–4. On the MGP 464 DI, these buttons can also select the four DVI inputs. To **mute** (turn off) the input in a window, press its button twice (or once, if the button is already lit). The button flashes while the input is muted.
- **Virtual Video Inputs (5–19)** — Select inputs 5–19. These inputs can be configured to accept S-video, composite video, or standard definition component video only.
- **Window selection** — Select a window to freeze/unfreeze, mute/unmute, select an input, or to adjust using Picture Control buttons.
- **Preset Recall/Save and Enter** — Save the current configuration settings (preset) to memory, or recall a stored preset. 128 presets are available. To **save** the current settings as a preset, press and **hold** the Preset Recall/Save button for 2 seconds. Rotate either Adjust knob to select a preset number, then press Enter. To **recall** a preset, press and release the Preset Recall/Save button. Rotate either Adjust knob to select a preset to recall, then press Enter.
- **Picture control** — Adjust window and image size, brightness, range of dark and light values (contrast), detail (sharpness), position, color, tint, and zoom (magnify/reduce). Use the horizontal (◀▶) and vertical (⬆⬇) Adjust knobs to adjust the picture settings shown on the left and right sides of the LCD screen, respectively.

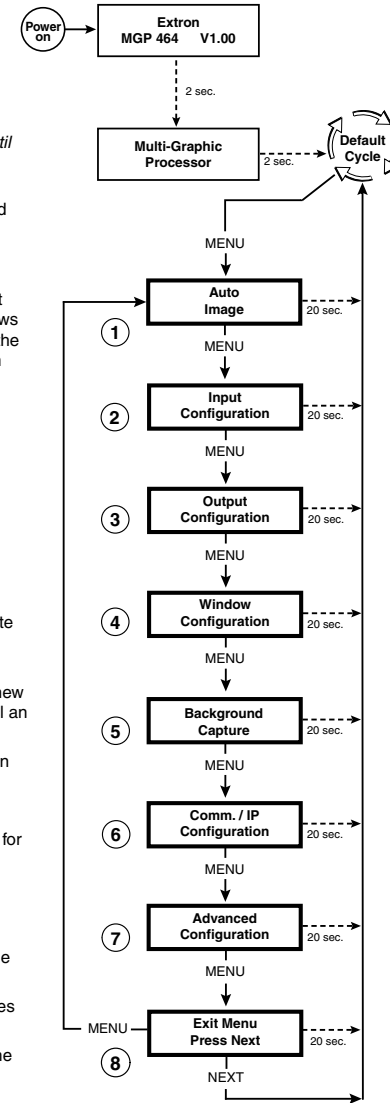
Menus

The MGP 464's menu system (non-WindoWall models only) enables you to configure the MGP by pressing buttons on the front panel. Press the Menu button to move through the menus listed below. From the displayed menu, press the Next button to move through its submenus. For each submenu, rotate the horizontal (◀▶) and vertical (⬆⬇) Adjust knobs to make selections. Refer to your *MGP 464 User's Manual* for further information on MGP menus and control buttons.

NOTE If you press the Menu button while a submenu is active, the display returns to the beginning of that menu, and the menu's title (the Main menu item) is displayed. For example, if you press Menu while Resolution/Refresh (a submenu of the Output Configuration menu) is active, the display returns to the Output Configuration screen.

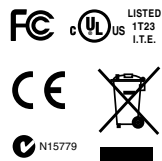
NOTE To return to the default cycle, let the MGP 464 remain idle until the selected screen times out (about 20 seconds); or press the Menu button repeatedly until the Exit Menu appears, then press the Next button.

1. **Auto Image** — Automatically sizes, centers, and optimizes the image to the scaled output rate, filling the window. Rotate either Adjust knob to select a window on which the Auto Image function will be performed, or to select **na** to specify that Auto Image will not be performed.
2. **Input Configuration** — Press Next to select the submenus for video signal format (e.g., RGB), Film Mode, Vertical Start, Horizontal Start, Pixel Phases for windows 1–4, Total Pixels, Active Pixels, and Active Lines. From each submenu, rotate the horizontal Adjust knob (◀▶) to select the input to configure (only inputs 1–4 can be configured via the front panel), and the vertical Adjust knob (⬆⬇) to select a value or parameter to apply to the selected input.
3. **Output Configuration** — Press Next to select the submenus for Resolution and Refresh Rate, Output Type (e.g., RGBHV), and Sync Polarity. Rotate the horizontal knob (◀▶) to select the required output resolution, and the vertical Adjust (⬆⬇) knob to select the refresh rate. Turn either Adjust knob to select the output video type: RGBHV, RGBS, RGsB, YUV Bi-level, or YUV Tri-level. Use either Adjust knob to select positive or negative sync polarity for the horizontal and vertical sync.
4. **Window Configuration** — Press Next to select submenus for Window Priority (displayed in front or in back), Border Color for windows 1–4, Window Effect (transition effect while muting; e.g., Dissolve or Cut), and Effect Duration. Rotate either Adjust knob to select options from each submenu.
5. **Background Capture** — Press Next to save the currently displayed image as background for the windows. Turn either Adjust knob to select a name for the new background file. Press Next to save the image, then Detail to confirm. To recall an existing background image file to display, press Next twice.
6. **Communication/IP Configuration** — Press Next to view the serial communication (RS-232/422) port configuration and the MGP's IP address.
7. **Advanced configuration** — Press Next to select the following submenus:
 - **Background Color:** Rotate either Adjust knob to select a background color for the output screen.
 - **Blue Mode:** Use either Adjust knob to enable or disable Blue Mode, which allows only sync and blue video signals to be sent to the display, for setup purposes.
 - **Test Patterns:** Rotate either Adjust knob to select a test pattern to adjust the display.
 - **Internal Temperature:** View the unit's current internal temperature in degrees Fahrenheit and Celsius.
 - **Factory Default:** Press Detail to reset the unit to the default settings from the factory.
8. **Exit Menu** — Press Next to exit the menu system and return to the default cycle.



Executive Mode

To prevent accidental changes to settings, executive mode locks all panel controls except Freeze, input selection, Preset Recall/Save, and the RS-232/422 and Ethernet ports. To enable/disable executive mode, press the Window/Image Size and Window/Image Position buttons simultaneously, and hold them down for 2 seconds (non-WindoWall models only).



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