

DeltaV™ Four-Monitor Workstation



A Four-Monitor Workstation provides your operators additional screen “real estate” in order to view more information about process operations from a single workstation.

- Expand the operators’ field of view
- Flexible display layout
- Easy to configure using standard operator station graphic tools
- Standard DeltaV™ system alarming strategy

Introduction

The DeltaV™ Four-Monitor Workstation provides a flexible, easy-to-configure operator space using four flat-screen monitors. Each monitor can display a main graphic picture, while faceplates and other “pop-up” pictures can be relocated to any monitor screen. Using the standard DeltaV alarm banner and toolbars, the Four-Monitor workstation is a natural extension of our popular dual monitor station and is ready to use right out of the box. Added to a workstation with DeltaV Operate or DeltaV Live, the Four-Monitor Workstation can use your existing displays—and/or the displays can be modified using enhanced display management tools to facilitate your operators’ use of the additional monitors.

Benefits

Expand the operators' field of view. More screens allow the operator to see more process information at a single glance. Leave a process overview display open and visible while paging through unit level displays and opening faceplates to operate the plant. Open multiple faceplates without covering the process graphics, trend information or other important process views. You can use either widescreen or standard screen monitors to expand the viewing space.

Flexible display layout. Any process graphic can be opened on any screen. Operators can easily swap displays among screens. Faceplates and other pop-up windows can be positioned on and operated from any monitor. Workstations can be configured to start up with a predefined set of user displays so the workstation monitors can be reset to a preconfigured set of displays at any time. The workstation can be configured to allow the operator to manage display navigation from either a single monitor or from all individual monitors. The mouse can be easily moved between monitors in any direction.

Easy to configure using standard operator station graphic tools. There's no need to learn a new display configuration method. The Four-Monitor Workstation is configured using the standard DeltaV display configuration and display navigation tools. Display dynamos and standard display layouts help in the development of the operator interface. This allows you to easily take advantage of the additional screens.

Standard DeltaV alarming strategy. The Four-Monitor Workstation uses the standard DeltaV alarm banner (on two monitors) for alarm indication and annunciation. You can easily add a Four-Monitor Workstation to DeltaV Operate or DeltaV Live and have your current displays and alarm strategy operational out of the box. Operators can easily adapt to the workstation or, if you have a mixture of single-, dual- and Four-Monitor Workstations in your control room, they can easily operate from any of the workstations as they all operate using the same methods.

Product Description

The DeltaV Four-Monitor Workstation is available with DeltaV Operate or DeltaV Live. The operator's ease of access can be enhanced with the addition of touchscreens to any or all of the monitors. For an expanded operator workspace, a DeltaV Operate or DeltaV Live can be easily upgraded to a Four-Monitor Workstation.

The four monitors act as one large monitor, providing a larger contiguous screen area for the operator. The monitors can be physically arranged in a square (2x2) or rectangular (1x4 or 1x3) layout. In the square layout, the mouse will move normally in any direction—vertically, horizontally or diagonally—to allow the operator ease of access to the graphics. With the rectangular layout, the mouse moves horizontally across the screen.

The DeltaV Four-Monitor workstation supports both widescreen (1920x1080, 1680x1050) and traditional format (1280x1024, 1024x768) monitors. In order to maintain visual integrity, all monitors must be set to the same resolution.

In a 2x2 arrangement, the primary operating screens are designed to be the bottom two monitors. In a 1x4 arrangement, the primary operating screens are the two middle screens. In a 1x3 arrangement, the primary operating screens are the two right screens. The additional screens in any arrangement may be used to show more process displays, alarm lists, history views or anything the operator requires for keeping his area of responsibility running.

The primary operating screens have alarm banners shown across the bottom of their graphics. For traditional monitors, up to 10 of the top process alarms can be shown across both alarm banners. For wide screen monitors, the number is increased to up to 16 of the top process alarms.

A toolbar is also located at the top of each primary screen. The additional screens show toolbars with the location being dependent on the physical arrangement. This design keeps the displays where the operator will be answering alarms, operating the plant and navigating to other information at the center of the workstation.

When opening a single graphic performance is comparable with a single-monitor workstation. If multiple graphics are opened simultaneously, there may be slight performance degradation in graphic call-up times in comparison to opening a single graphic.

The DeltaV Four-Monitor workstation is ready to go without requiring any changes to the out-of-the-box behavior. However, if the default arrangement of displays does not meet your operational needs, the DeltaV Four-Monitor Workstation supports user-configurable layouts which allow you to customize the position of your displays

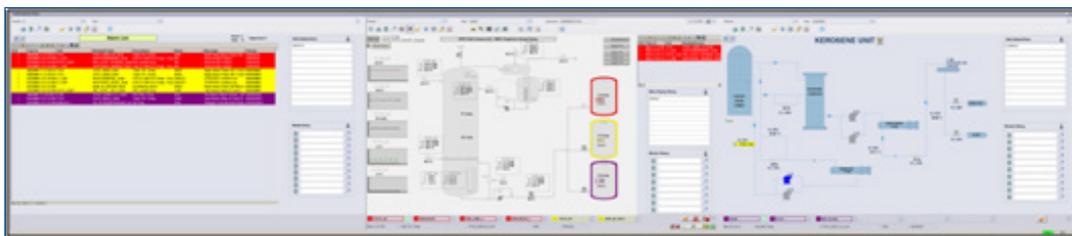
The toolbar, alarm banner area, and initial display selection can be defined for each monitor. Custom behavior may also be set for each monitor. For example, one monitor can be configured to allow the operator to open displays and direct actions that occur on the other monitors. This setup can greatly reduce the amount of mouse movement required of the operator to navigate the system. If the faceplates are set to open on this one monitor, the operator can easily keep the other displays unobstructed and constantly visible. This setup can allow for the operator to access information quickly. DeltaV allows the user to completely customize the application in order to match their operational needs.

System Compatibility

The Four-Monitor Workstation supports both wide screen monitors and 4:3 aspect ratio monitors.



The horizontal layout puts the working screens in the center monitors of the workstation.



A three-monitor layout puts the working screens in the right two monitors of the workstation.



Mounted in a square layout, the bottom two monitors are the working displays.

Ordering Information

Description	Model Number
Four-Monitor Workstation License	VE2104K01

Related Products

- **DeltaV Operate.** High performance operator graphics, trends and alarms offered in standard operating layouts and utilizing system-wide built-in security.
- **DeltaV Live** is Emerson's new, built-for-purpose modern operations experience that was introduced with DeltaV v14.3. DeltaV Live provides quad monitor layouts out of the box.

Related Hardware Products

- **DeltaV Workstation Hardware.** Select from a variety of PC and server hardware, tested and preloaded with DeltaV software.
- **Touchscreen.** Allows displays to interact directly to operators' touch.

Prerequisites

- DeltaV Operate or DeltaV Live software is required.
- A DeltaV Four-Monitor Workstation license is required for each Four-Monitor Workstation on the system.

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