

New VESA® Direct Drive Monitor Panel Standard Set; Defines Minimum Functionality and Connector Configuration

Milpitas, Calif., Mar. 23, 2009 – The Video Electronics Standards Association (VESA) today released a new standard that introduces a stand-alone Direct Drive Monitor (DDM) Panel with DisplayPort™ interface. The new standard defines all requirements for a Standard Direct Drive Monitor Panel connection using DisplayPort, along with the panel electronics. The parameters in the standard can be used for any standard sized panel using DisplayPort TCON with monitor electronics.

Based on the DisplayPort interface, the standard specifies a connector configuration, along with its mechanical dimensions and pin assignments. It also details the minimum functionality for DDM display panels. Other VESA standards are used for configuration management and operation.

The new DDM standard eliminates unnecessary duplication of complex electronics that are incorporated into displays now to let them mimic older CRT monitors and enable backward compatibility with any graphics subsystem. Duplication of scaling, color dithering, and other functions in the graphics hardware increases cost; eliminating duplication reduces costs and increases the reliability of the DDM display.

The standard specifies the connector and pin assignments to be used on panels for direct drive display applications. DDM Displays do not have complex timing or internal display controllers but instead connect directly to the graphics subsystems and convey native timing to the graphics subsystem for correct configuration.

The VESA DDM DisplayPort panels will use the same physical connector as VESA Standard LVDS panels. To ensure the panels will not accidentally be connected to LVDS sources or standard DisplayPort sources, panels conforming to the specification will display a warning label or engraving on the chassis.

The Direct Drive Monitor standard can be downloaded free of charge from www.vesa.org or www.displayport.org