

THIS SHEET HAS BEEN
REPLACED

Abstract

Method and apparatus for implementing a raster graphic display video data path that provides arbitrary mixing of a plurality of images. The video data path is highly parallelized, and employs parallel devices operating under the control of a set of look-up tables. The look-up tables are loadable from a controller, such as a host workstation. The raster graphic display video data path functions with unlimited screen resolutions, and also enables a variety of different pixel data formats from a potentially large number of different sources. Outputs from several image sources are mixed under the control of the host workstation, with a resultant pixel value being based on (a) a combined translucency coefficient (alpha) of the images, for each image source, and (b) a window identification number assigned by the host workstation. Pixel value conversion to a common predetermined format provides coherency between pixel values generated by a number of different image sources, such as HDTV and graphics servers. A separate frame buffer is allocated for each of the sources.

This Sheet Has Been Replaced

