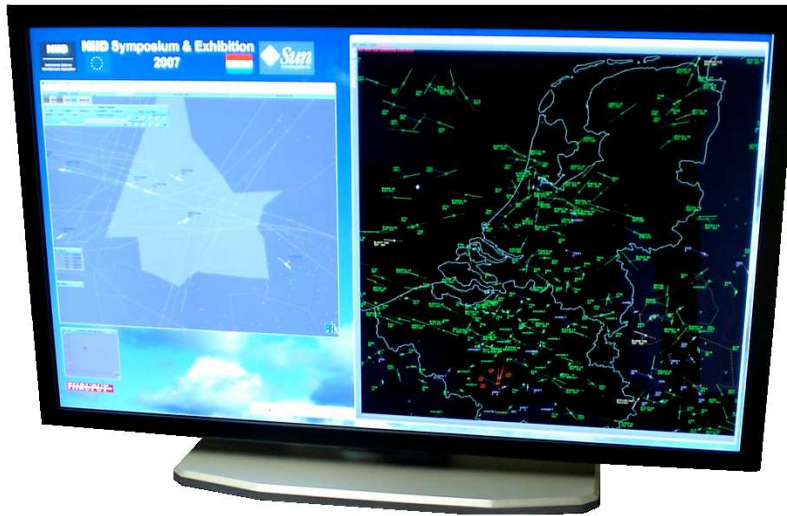


## MIDAS 2... Video integration



*MIDAS 2 is an advanced FPGA based graphics processor, used to switch and integrate multiple high-resolution (up to 2K x 2K) video sources into composite images.*

*The picture shows a 56" GF VT 11 display, which renders the 2K x 2K video with a 37" diagonal.*

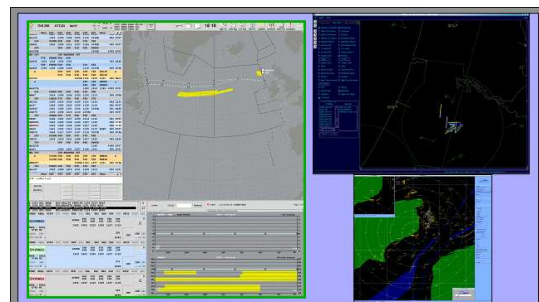
### *TheThruput MIDAS 2 system provides:*

- 8 input channels, 3 output channels. All DVI dual link.
- Video integration and switching.
- Supports underlay and overlay, all with transparency.
- All I/O independently buffered for synchronisation.
- Accepts data from any source (Win, Linux, Unix, Solaris).
- All channels compatible with Thruput recording technology.

The **MIDAS™** Graphics Controller is display independent and has a capacity of 9.2Mpixels at 60 Hz. This may be used to drive single or multiple monitors in any combination of screen resolutions, aspect ratio and landscape or portrait modes.

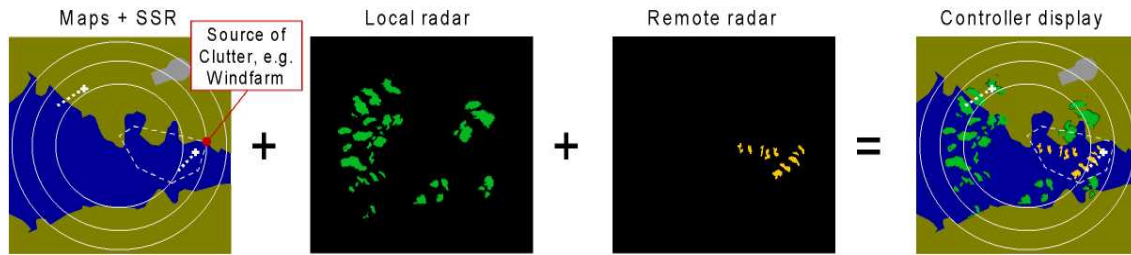
The display area may be configured to render inbound video channels in any combination of the following:

**Single layer:** Each window displays a complete single channel of data. The user can sequentially view different channels.



*Complete video windows from up to 8 separate sources can be simultaneously rendered on one screen.*

**Multi layer:** In this mode each window has several sources of data, which are assembled into a composite image using transparent overlay and underlay.



Data from separate processors can be integrated within a single video window (typically DVI dual link). The example shows radar data from a remote site filling in an area of radar obstruction or clutter, such as a wind farm.

### Specification

#### Data Sources

- Inputs: 8 x DVI (Dual link 60Hz).
- Outputs: 3 x DVI (Dual link 60Hz).

#### Control

- RS232, USB and Ethernet.
- 400MPS processing capability.

#### Supported functions

- Underlay and overlay.
- Multiple transparency colours.
- Dynamic video input cropping.
- Dynamic input video to output video positioning.
- 256 preset configurations.
- Multiple function processing.
- Low video latency.
- 8, 16 and 24 bit colour depth.

#### Power Supply

- External dual redundant 12V.

#### Physical

- Size: 1U high 19-inch rack mount.
- Weight: 2Kg.

### Safety

Thruput Limited place safety in operation as the highest design priority. All graphics controller products use **Truepixel™** technology that ensures the absolute accuracy of the display. The key features are:

- Every pixel from every graphics source is mapped to a physical output pixel with full traceability.
- The data received is exactly the data displayed.
- No pixelation chipsets or zoom engines.
- No On Screen Display processing (OSD).
- Minimum throughput delay (input to output).
- Minimised component stress levels.



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