

THRUPUT

4K x 2K Embedded ATC Display GF VT 16 MIDAS

Next generation primary control monitor, renders up to four videos, at the same time, giving controllers improved presentation of data, compared to multi-screen solutions.

- All resolutions 3840 x 2160.
- Embed up to 4 x DVI DL inputs, any image, anywhere.
- DP 1.2 60 Hz, zero latency input.
- 5000 : 1 contrast ratio.
- Pure White LED backlight.
- Ultra low heat and power.



Perfect rendering

The Thruput GF VT 16 MIDAS displays 8 megapixels across its 42" screen. This makes for a perfect pixel pitch of 0.24 mm (the same as the Sony DDM and Barco ISIS) so text and symbols are crisp and fully compliant with FAA standards.

Reduced workload

Using one screen instead of several, the user's eye and head movements are reduced and viewing comfort is increased:

- Without obtrusive bezels, all relevant data is concentrated within the optimum field of view.
- All pixels the same size.
- Seamless boundaries between sources.
- No discontinuity due to bezels.

Wide Viewing Angles

Controllers can comfortably view all data

across the entire screen while remaining in one position.

- Wide viewing angles of 178° x 178°.
- Minimal colour shift, even at acute angles.

New possibilities

The large size and high resolution creates new possibilities for information display.

- View one 4K x 2K image across the entire screen.
- View several channels of information on one screen rather than on many separate monitors.
- Embed screens from a mix of UNIX, LINUX, Solaris or Windows sources.



Pure colour brightness control

Brightness is controlled by Thruput's pure colour control technology, making it ideal for any Operations Room:

- Displayed colours are perfect at all brightness settings.
- Pure White LED Backlight.
- Maintain colour accuracy and contrast at all brightness settings.
- Uniform brightness across the screen.

Green solution

The monitor does not use any hazardous materials, and is fully RoHS compliant, with ultra-low power consumption.

- Typically 60W in normal operation (better than 6-STARs on the EnergySTAR rating scale).
- The backlight is mercury free so lower environmental impact than CCFL.
- Up to 5 year warranty, 24/7 continuous operation.

Life cycle benefits

Greatly reduced complexity at the working position, a single monitor with optimum human factors will be:

- Cheaper to install.
- Cheaper to run than several smaller monitors (by up to 400% depending on their age).
- Produces up to 400% less heat in the operations room.
- Less tiring for the user, with potential improvements to staff health and well-being, that may also reduce fatigue related errors.

Safety

Thruput True-pixel graphics processing:

- Directly maps input pixel to LCD pixel.
- Avoids any zoom engines or pixilation chipsets.
- All data channels are isolated and data from one channel cannot pass to another.

Specification

Resolution	3840 x 2160
Inputs	4 off DVI DL 1 off DP 1.2 60 Hz, zero latency
Outputs	DVI DL (cloned)
Pixel Pitch	0.24 x 0.24 mm (As per Barco ISIS / Sony DDM).
Function	<ul style="list-style-type: none">• Synchronise all received data.• Create composite output of any or all inputs• Cut, crop, position and stack each input.• Set transparency colours for each input.
Brightness	400 nits
Contrast	5000 : 1
Colour	32 bit colour
Surface	Antiglare
Power	Universal input voltage, worldwide use. Typically below 60W (normal operation).
Noise	0 dB (silent operation).
Weight	16.5 Kg
HELT	131,000 hours (25% brightness).
Backlight	LED
Compliance	<ul style="list-style-type: none">• Human Factors Criteria for Displays: A Human Factors Design Standard (FAA DOT/FAA/TC-07/11).• CE, FCC and ROHS.
Record	Record composite output, Sentinel 4K x 2K recorder.
HMI	Option for single mouse & keyboard.
Extension	Up to 100m, Sentinel KVMX extender.



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