

Configuration Hardware Options

Input and Output Graphics Cards

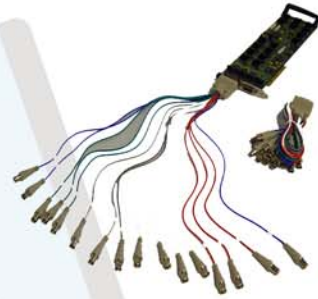
Quad Output Card



Dual RGB Input Card



9 Channel Video Input Card



Optional Hot Swappable units

Removal Disk



Power Supply



Remote Mouse & Keyboard

IR Keyboard & IR Mouse



Window Manager



CommandaNT window manager using touch screen solution.

Networkable Keyboard and Mouse

RemKam

The video wall mouse can be accessed via the network by an operators or supervisors workstation. Harp software called RemKam allows transfer of the mouse from workstation to video wall just by selecting a dedicated function key on the users workstation.



HARP

VISUAL COMMUNICATION SOLUTIONS

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MERLIN

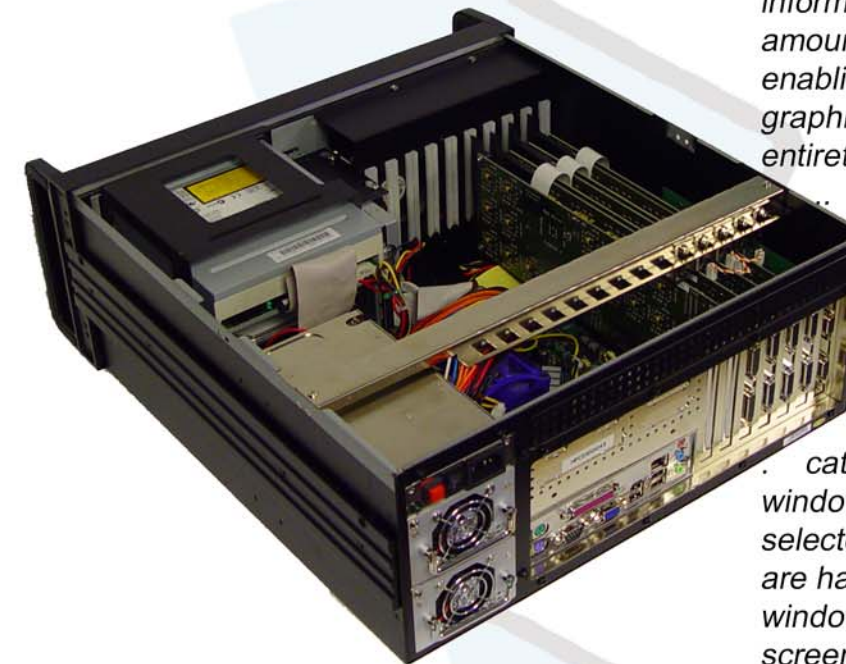
VIDEO WALL PROCESSOR

functionality

Turn your display wall into one giant workstation, with a tool that manages visual flow from screen to screen, displaying seamless movement in real time.

reliability

With the Harp MERLIN video wall processor users can view up to 16 connected screens 'as one' - increasing the number of people who can comfortably view larger amounts of information. The MERLIN increases the amount of screen real-estate available enabling large computer generated topographical images to be viewed in their entirety that could not be viewed on a single desk top monitor.



Harp MERLIN operates on a soft Windows XP or Vista platform, and incorporates a sophisticated control manager which allows applications to be launched automatically, windows moved, and scenarios and salvos selected on demand. As all screen breaks are handled by the MERLIN, drawings and window movements from screen block to screen block are seamless and carried out in real time.

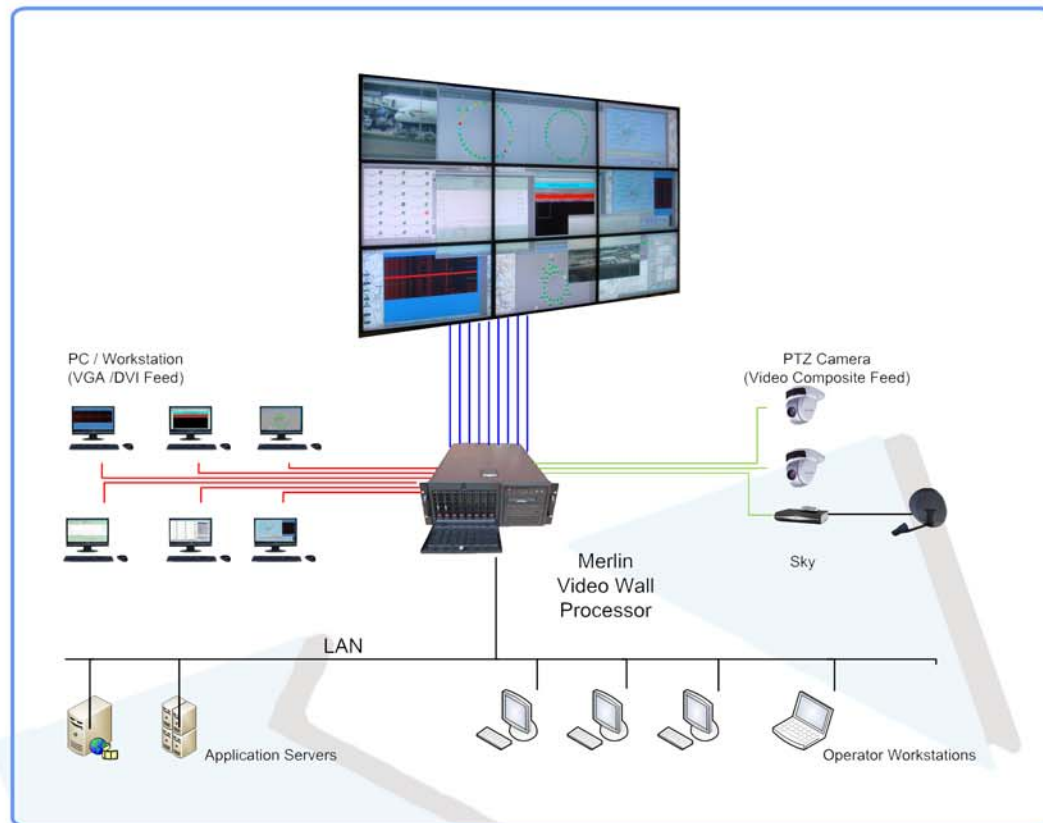
The system is easily operated via a user-friendly touch panel, and /or remotely by cursor operation on a PC over the LAN.

Base Windows applications can be run directly on the MERLIN. Externally generated PC and UNIX windows can be digitally fed into the Windows environment, whilst video feeds can be super-imposed enabling satellite and CCTV information to be displayed in real time.

technology

www.displaywall.co.uk

SYSTEM ARCHITECTURE



System Overview

Images can be displayed onto the video wall using a number of different techniques. In its basic form the Merlin video wall processor is a multi-headed PC that can drive up to 40 screens. This allows windows to be resized from thumb nail to full screen size seamlessly across screen boundaries. Applications can be run directly on the Merlin as if it were a PC on some ones desk although it has a somewhat bigger screen than usual.

Inputs

On top of the basic system overlay 'picture in picture' images can be superimposed on top of the PC background image. Each of these windows can be again scaled from thumb nail to full screen size and overlaid on top of one another. These come in two formats composite video and RGB. Video input can be from CCTV, broadcast and satellite signals. Whereas the RGB inputs come from computer generated sources such as PC's or workstations.

Outputs

The interface between the Merlin and the video wall is done using DVI cables which ensures that the best possible image is generated putting a square pixel into a square LCD element on the screen.

TECHNICAL DATA

Technical specification	
Architecture	Pentium 4 Intel Processor 3.2GHz Intel 5000P chipset 2GB DDR2 SDRAM
Software	Operating System: XP Service Pack 2 Optional Solaris / Redhat
Graphics Output Card	Outputs: 4 ports per card. Maximum of 10 cards giving ability to drive 40 screens Format: Dual/Single Link DVI Interface Resolution: 640 x 480 to 1920 x1080 pixels Frame Buffer: 4 x 16Mb Video Input Bus: Inter-card high speed 5Gb/s SIP Bus
Video Input Card	Inputs: 16 Channels per card. Maximum of 8 cards delivering 128 onytpnt windows. Format: RS343A compatible video feed with 75 ohm termination: PAL/ NTSC Video Bus: Inter-card high speed 5 G/Bs SIP Bus Window Update: Real time 25/30 frames per second PAL/NTSC.
RGB Input Card	RGB Mode: 640 x 480 to 1600 x 1200 pixels. Sample rate: 280 Mpixels per second. Sample depth: 24 bits per pixel in 8.8.8 format Capture Memory: 6 Mbytes per channel.
Power Supply	100-240V AC, 50/60 Hz
Communications	Ethernet RJ45 10/100/1000 Mbps

Physical specifications	
Dimensions	202mm (h) x 160 mm (w) x 474mm(d)
Weight	12Kg
Temperature	640 x 480 to 1920 x1080 pixels
Video Input	Operational +5°C to + 40°C Survival -10°C to + 50°C Storage -15°C to + 60°C
Humidity	Operational 15% to 95% RH at + 40°C Storage 15% to 95% RH at + 65°C
Safety	EN55022, UL478 FCC reg 151, Class A-EMI/RFI, ISO924-3, CE Approved
Reliability	MTBF 20,000 Hrs

System Options	
Power Supply	Dual Redundant PSU Hot Swap
Hard Disk	Dual 250GB Hard Drive with removable caddy
Ethernet	Redundant Ethernet Adapter

Auxiliary Products	
CommandaNT Control Manager	Allows multiple applications to be moved and started from the touch panel
KAM Server	LAN Connection of keyboard and Mouse

INTERNAL ARCHITECTURE

