Input and Output Graphics Cards

9 Channel Video Input Card **Quad Output Card Input Card**

Optional Hot Swappable units

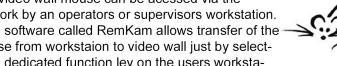


Remote Mouse & Keyboard





Networkable Keyboard and Mouse



Harp Visual Communications Limited Unit C4 Segensworth Business Centre Segensworth Road Fareham Hampshire PO15 5RQ Tel. 01329 844005

www.harpvisual.co.uk

Merlin i9 IPX

VIDEO WALL PROCESSOR



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.

With the Harp MERLIN video wall processor users can view up to 64 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 seamlessly and carried out in real time on a single desk top monitor.



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

all screen breaks are handled by the MERLIN, drawings and window move-

ments from screen block to screen block

are seamless and carried out in real time.

Base Windows applications can be run directly on the MERLIN. Externally generated PC and Android windows can be digitally fed into the Merlin's Windows environment, whilst video feeds can be superimposed enabling satellite and CCTV information to be displayed in real time.

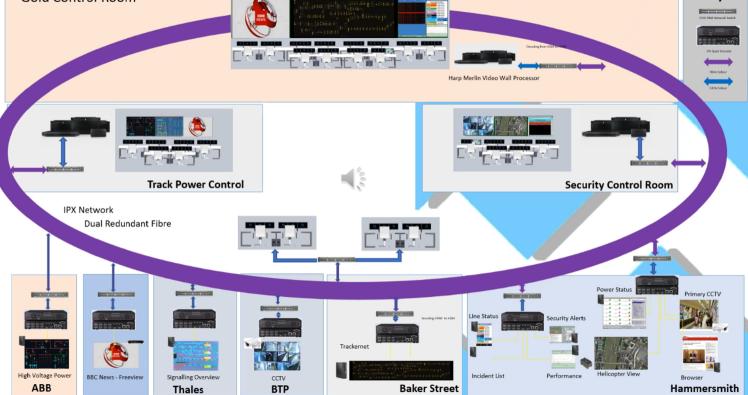


The video wall mouse can be acessed via the network by an operators or supervisors workstation. Harp software called RemKam allows transfer of the mouse from workstaion to video wall just by selecting a dedicated function ley on the users worksta-

VISUAL COMMUNICTION SOLUTIONS

SYSTEM ARCHITECTURE

Transmission of Images over an IP Network from remote site – Incident **Gold Control Room**



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 64 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.

Input

The IPX version of the Merlin Video Wall processor series has been designed principally for video steaming where all of the video sources are received via a LAN connection. All video feeds are from IPX encoder units which are converted in real time up to 4K HDMI feeds to an H264 4.4.4 format. Multiple streams can be decoded in parallel on this processor and displayed on the video wall.

Outputs

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

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Clearly in Control

TECHNICAL DATA

Technical specification					
Architecture	Intel i9 Core 13th Gen Alder Lake Intel Core				
	64GB ECC and non ECC				
Software	Operating System: Win 10 / 11				
Graphics Output Card	Outputs: 4 ports per card giving ability to drive 64 screens Format: HDMI/DP Resolution: 4Kp60 + 640 x 480 to 3840 x 2160 pixels Frame Buffer: 4 GB				
IPX Decoder Card	GPU: NVIDA Codec: H.264/MPEG-4 Part 10 (AVC), Up to level 5.2 Format: RTP, RTSP< RTMP, MPEG2-TS Video Bus: PCLe x8 (Gen3) Window Update: Real time 25/30 fames per second.				
HDMI / DP Input Card	HDMI/DP Mode: 640 x 480 to 3840 x 2160 pixels. Sample rate: 170 Mpixels per second. Sample depth: 24 bits per pixel in 8:8:8 format Capture Memory: 32 Mbytes per channel (updated in real time), triple				
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				
Output	Upto 64 HDMI/DP				
Temperatue	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 Storgae 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 1TB CCD with removable caddy				
Ethernet	Redundant Ethernet Adapter				
Auxiliary Products					
Commandant Control Manager	Allows multiple appliactions to be moved and started from the touch panel				
KAM Server	LAN Connection of keyboard and Mouse				

BUILD PROFILES

	Merlin	Merlin 2-4	Melin 4-4	Melin IPX 4-8	Merlin IPX 4-16	Merlin IPX 0-32
Apps and Browser	X	X	X	x	X	X
2 HDMI Inputs		x	x			
4 HDMI Inputs			x		x	
IPX Stream Decoding			x	x	x	X
4 Outputs	X	X	X	X	X	X
8 Outputs				X	X	X
16 outputs					x	X
32 outputs						X

Many other custom solutions are available tailored to the system needs.

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