Empowered by Innovation

NEC

NEC DISPLAY SOLUTIONS

CONTROL ROOM DISPLAY SOLUTIONS

VIDEOWALLS | LARGE FORMAT DISPLAYS | DESKTOP DISPLAYS | PROJECTORS

REFERENCE

MISSION CRITICAL VISUAL INFORMATION SOLUTIONS

24 7
R E A D Y
O P E R A T I O N

AIRFLOW
M A N A G E M E N T

1080P
FULLHD IMAGE
P R E C I S I O N

CONTROL ROOMS

Real-time Accuracy for Critical Information

24/7*, HIGH PERFORMANCE DISPLAY SOLUTIONS

Control Rooms demand the best performance available from 'Display Technologies', used normally over extended periods of time. A wide variety of mission critical applications demand guaranteed performance and the expectations of the end user constantly increase in terms of quality, reliability and design. This ensures that the decision making which occurs when data is reviewed within a Control Room environment is of the highest level of accuracy and visibility.

Display solutions extend from the Desktop Screen (s) used by the operator to view the various sources specific to them, through to the larger Single or Videowall Display, which are typically present in a Control Room to display larger images and greater levels of detail as well as to aid collaboration. Often additional breakout rooms exist where projectors are used to display information from the Control Room for separate decision making sessions or training.

NEC Display Solutions have all of the products required to address these needs with specific ECO Innovative features and our 'Reference' designated products are of a quality which guarantees that they have maximised features to perform well in mission critical applications. Our product portfolio also includes innovative software (Hiperwall) as well as high light output and high resolution projectors.

IDEAL FOR MULTIPLE APPLICATIONS

- Traffic Surveillance (Land / Sea / Air)
- Oil and Gas (Upstream and Downstream Activities)
- Blue Light Emergency Operations (Police / Fire / Ambulance)
- Network Operation Centres (IT / Telecom / Financial Services)
- Crisis Centres (Counter-Intelligence / Military / Aid / Medical)
- Security Monitoring (CCTV / Events / City Centres / University Campus)
- Broadcast (Signal Monitoring / Live Broadcast)
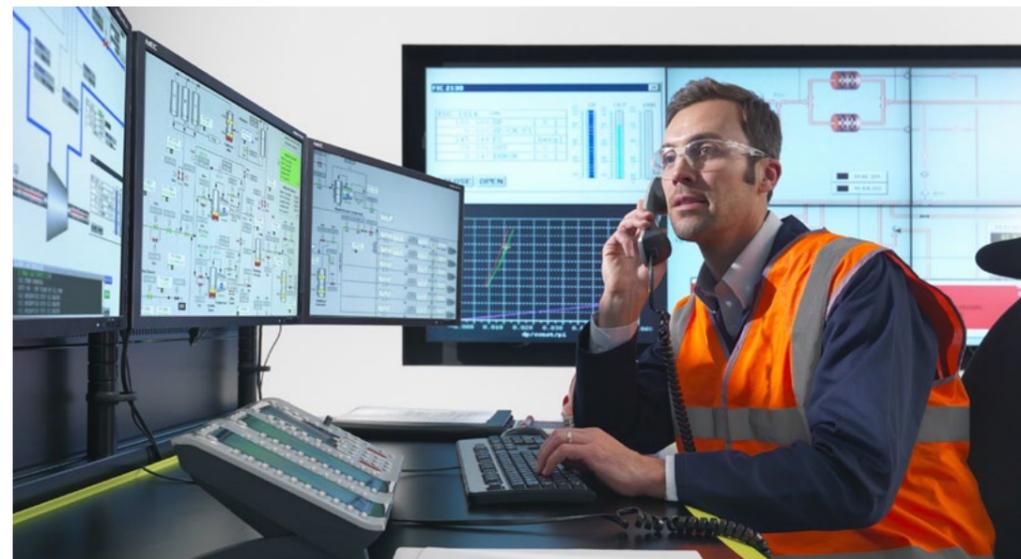
NEC CONTROL ROOM KEY ADVANTAGES

Industry Leading Range of Display Choices

Superior Performance / Cost Ratio and Low Total Cost of Ownership (TCO) compared to Projection based Videowalls

Industry leading Temperature Management Systems

Full Functionality and Connectivity including HDMI, DisplayPort and DVI Daisy Chain

Software designed for Control Room Applications

Flexible Easy Access Solutions for Convenient Servicing

NEC Trusted Performance, Service and Support

NEC Display Solutions supply products which use the latest display technologies to ensure ECO friendly credentials are as high as possible. The commercial grade professional products are designed with the user in mind and to ensure efficiency of space, being light and slim in design as well as minimizing infrastructure requirements. As an example the X463UN LED backlit videowall display has an ultra thin bezel and a matt finish to reduce reflections and make it 'easy on the eye' for operators. It also, significantly, has an advanced heat management design so the effects of heat build up can be minimised in enclosed spaces or where multiple arrangements of displays are installed.

The UN products feature built-in dual digital daisy chain (Displayport and DVI) and advanced LED backlit technology for best image uniformity and minimal power consumption. NEC is the manufacturer of choice for many Control Room Managers due to our excellent reputation for high performance, reliable products backed up with industry leading support and service.

NEC Professional Reference Grade PA Series Displays provide both excellent P-IPS Image Quality and Trusted Performance in Control Room Applications

ECO INNOVATION   ECO SAFETY

CONTROL ROOM DISPLAY PHILOSOPHY

Control Rooms are generally designed with long life spans of typically between 5 and 15 years. In our rapidly changing world the requirements evolve significantly as volumes of data grow, technology changes and cost restrictions have an impact. As a result, displays need to be of the highest quality with excellent reliability, uniformity of image and meet the requirements of growing environmental restrictions in terms of power consumption.

A Control Room must also be ergonomically sound due to the 24/7 nature of the operation and the critical decisions made based on data shown on the displays.

PROJECTION CUBE REPLACEMENT

For many years Control Room's have worked with projection cubes to provide the large collaborative videowall for operators and managers to review key information on. In the past 2 years with the new generation of "Ultra Narrow" bezel matrix displays there has been a definite shift to this new LCD technology. The advantages are typically:-

- Lower Initial Investment Cost
- Lower Operating Cost
- Shallower Depth required behind the Display

With it's latest range of LED Backlit LCD Videowall Displays, X463UN and X551UN, NEC Display Solutions products have quickly developed a strong following amongst Control Room designers and consultants. We offer exceptional colour uniformity and brightness, comprehensive heat management solutions, dual digital daisy chaining, alert email features and a range of mounting solutions and over-frames.

MISSION CRITICAL PERFORMANCE

Command and Control rooms are the mission critical decision making hub of a facility or network. As such they are often required to be in operation 24/7 and as a result maintenance needs to be as infrequent and as non-intrusive as possible.

Control Rooms ideally need to be specially designed air conditioned facilities using the best class of displays. Whether for Oil and Gas, Blue Light, Security, Telecommunications or other sectors the highest assurance of longevity is required. NEC is a brand of Displays that Control Room Managers can trust to provide quality and reliability with the best warranty and support available whether for desktop displays, large single displays, videowall or breakout room projection.

PROFESSIONAL DISPLAYS FOR DEMANDING APPLICATIONS

The flexibility of the X463UN / X551UN videowall solution allows for swift and simple recalibration of displays and simple swap outs should this be required. The advanced heat management technology, auto brightness control and ECO mode help to prolong the life of the displays and reduce the total cost of ownership.

The NEC Display Solutions Professional ('P') Series of displays that range from 40" to 82" and the X461S and X551S (LED Edge lit) Displays are also designed to be used for prolonged periods of time providing sharp clear images for confidence making critical decisions.

NEC X463UN Videowall Solutions can be fitted with a touch overlay and combined with NEC Desktop Displays to create supersized interactive workspaces

HIPERWALL VIDEOWALL CONTENT MANAGEMENT SYSTEMS

Hiperwall is an ultra high resolution software solution which is scalable in size and eliminates costly videowall servers, matrix switchers and distributors. It enables the full resolution of all displays to be utilized working across a LAN.

Ideal for Control Rooms, Hiperwall allows customers to connect an infinite number of sources to a videowall and determine the size and position of the content seamlessly across the screen. It has advanced capabilities like zoom, rotation, shading, transparency of the content and enables operators to examine content with increased flexibility and effectiveness. Content can be saved in set formats and scheduled to appear at specific times. In the latest 2.0 version added functionality is available including Multiple Control points, off-site remote control, SSL Support for added security, content preview prior to appearing on the large wall, and many others.

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VIDEOWALL DISPLAYS	X UN Series	Professional Videowall LED Backlit Displays	X UN Displays combine Professional 24/7 performance and Features with Direct LED Backlighting.
	P Series	Professional Public Displays	Thin Bezel Edge Backlit Professional 24/7 Displays.
LARGE FORMAT	P Series	Professional Public Displays	From the class leading P Series to the LED Edgelit, XS series with a space saving form factor and industry leading power consumption performance, NEC has the range choice to be the go-to supplier for Large Format Displays.
	XS Series	Specialist Slim-Slim Professional Displays	
DESKTOP	PA Series	Professional Advanced P-IPS High Quality Displays	An extensive range of LED & CCFL Displays, with the quality that NEC is known for are ideal for use in the control environment. From 20"-30" 5:4, 16:10 and 16:9 aspect ratio options, these displays have sector leading ergonomic features and the option to be removed from the base and tiled to offer a multitude of array options.
	EA Series	Enterprise Advanced Ergonomic Displays	
	EX Series	Enterprise Slim-Slim Ergonomic 'Office Cool' Displays	
HLO INSTALLATION PROJECTORS	PX Series	Professional High Brightness Extreme Installation Projectors (with OPS Slot)	Built to the high specifications associated with our Professional Large Format Displays, NEC High Light Output Projectors combine precision image quality with advanced networking and operational image enhancement features.
	PA Series	Professional High Brightness Advanced Installation Projectors	
PROJECTORS	V, M and U Series	General Multipurpose Projectors	Conventional Wide and Short-Throw Meeting Room Projectors
CONTENT MANAGEMENT	Hiperwall	Videowall Content Management Solution	Hiperwall enabling users to examine content with increased flexibility and effectiveness. Content can be saved as environments and restored on demand, grouped into slideshows, or scheduled to appear at the present time.
OPTIONS	Expansion	Add-in OPS STv2 Boards Add-in Traditional STv1 Boards	For videowall and large format display products there are options, such as front service mounts, integrated OPS solutions including a range of PC's, HD-SDI, IPTV tuner and CAT 5 options. NEC also provides a calibration kit to ensure continued high performance of the displays across a videowall
	Mounts	Individual and Videowall Mounts in a range of Configurations	
	Accessories	Calibrators, Stands and Miscellaneous Add-on Devices	

24/7 CERTIFIED OPERATION	Subject to environmental conditions, content and change of content, products marked as 24/7 are appropriate for 24/7 use, however please refer to NEC Operational Guidelines for exact terms of use.
AIRFLOW MANAGEMENT	The airflow logo is an indication that the Display has advanced heat dissipation and airflow management, which is of fundamental importance to the long life and uniformity of the display.
1080P FULLHD IMAGE PRECISION	The logo is used to represent that a display has a Full HD, 1920 x 1080 Image.

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