Empowered by Innovation

NEC

NEC DISPLAY SOLUTIONS

AIRPORT DISPLAY SOLUTIONS

FLIGHT INFORMATION | CONTROL ROOMS | RETAIL SIGNAGE | COMMON USE TERMINALS

REFERENCE

NEC AIRPORT DISPLAY SOLUTIONS

Professional Display Solutions when Performance is Critical

NEC stands for product quality and design perfection with a reputation for reliability and an enviable pan-European support infrastructure to back it up. Installing an NEC display means you can trust in our equipment and our company culture.

Designed for long term operation, NEC displays and projectors incorporate innovative designs, high quality panels and components and go through demanding quality assurance levels; displays ready for the most demanding mission critical applications, out of the box.

THE WIDEST PORTFOLIO OF DISPLAY SOLUTIONS OF ANY SUPPLIER

Today NEC boasts a comprehensive range of Desktop Displays, Public Displays and Projectors, with a model for almost any application from the largest venues or public places to offices and smaller classrooms.

NEC is one of the world's largest IT Companies, with the display division operating 13 local sales and support offices across Europe, Middle East and Africa.

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NEC **177 AIRPORT INSTALLATIONS WORLDWIDE**

RECENT FLIGHT INFORMATION DISPLAY INSTALLATIONS
AIRPORTS BY REGION

NEC INTERNATIONAL AIRPORT INSTALLATIONS

With some of the largest airports in Europe, such as Gatwick(LGW), Copenhagen(CPH) and Zurich(ZRH) using NEC Professional Series products, and recent new terminal deployments the NEC business offering is specifically tailored to the demands of today's growing airports.

Airports Covered	177
Worldwide	30 Years Experience

A Comprehensive Solution Point for Any Airport Display Requirement

As Europe's leading supplier of display technology into the airport industry, NEC understands the long term approach that is needed to support an airport's display requirements.

We have over 60 account specialists operating from 13 regional sales offices throughout Europe, Middle East and Africa, providing the information you need to ensure your project's successful implementation. Our airport accounts receive access to product roadmaps, product transition timescales, availability and carefully selected local and partner support. We operate as a trusted display technology partner offering total peace of mind whether projects are short term or run into years.

INNOVATIVE DISPLAY SOLUTIONS FROM A TRUSTED SUPPLIER

NEC is one of only a few global brands that are focussed 100% on professional and not consumer clients, with 20 years experience supporting corporate clients in mission critical applications. This allows us to accurately predict stock availability (without fluctuation for consumer trends) and more importantly we have built a support infrastructure that meets business needs and maximises running times.

For large scale deployments, such as new airport or new terminals, NEC has a strict forecasting methodology and direct communication to the factory to ensure that the right product is available locally in Europe when it is scheduled.

DELIVERING BESPOKE AIRPORT SERVICES

For large scale airport projects NEC is able to offer additional services that can aid the project implementation. We understand that product may be required 6 months ahead of commissioning and for example warranty contracts may need to be adjusted accordingly.

Similarly NEC can offer a level of hot swap units that are kept on site at the airport during large scale project installations, so that customers can have instant access to replacement displays in the unlikely occurrence of a dead on arrival unit.

EMEA WIDE WARRANTY AND SERVICE SUPPORT

Even though the NEC Professional Series is renowned for its long term reliability, when a failure does occur you should expect the same world class level of service. All NEC Professional Series products come as standard with a 3 year warranty in Europe, Middle East and Africa, with most major countries supported with an on-site advanced exchange service (AES).

NEC's AES service is carried out within a maximum 96 hours* after logging the service call, and all deliveries and collections are free of charge.

For airports operating other airports outside of their own country, NEC's warranty is valid across the whole of the EMEA region. NEC's P, X and XS Series products come with a 3 year warranty that covers their continued operation 24 hours a day seven days a week, 365 days of the year.

NEC Display Solutions has 40 service partners covering over 100 countries in EMEA from Johannesburg to St Petersburg. With such a comprehensive coverage NEC can deliver a localised personal service with greater understanding of localised

issues in almost any region. All service partners have to meet our high level of quality standards before becoming an authorised NEC repair centre.

NEC authorised repair centres have an in-depth knowledge of our products and their application in the airport environment. Service partners provide a hotline number to ensure that you can speak to someone who understands you, and understands the technology inside out. Being responsible for display technology only our service partners aim to resolve your technical issues quickly and efficiently.

* Subject to reasonable location and access.

DISPLAY SOLUTIONS IDEALLY SUITED FOR:

- ⓘ **FLIGHT INFORMATION DISPLAYS**
- **AIRPORT OPERATIONAL CONTROL CENTRES**
- **SPECIALIST OUTDOOR DISPLAYS AND DIGITAL WAY-FINDING**
- **INDOOR AND OUTDOOR RETAIL DIGITAL SIGNAGE**
- **COMMON USE TERMINALS AND BACK OFFICE DISPLAYS**
- **REMOTE MONITORING AND SALES SERVICES**

The airport environment is a hostile one for a display, operating extensive for periods with much static information. Displays are often deployed open to the terminal environment or typically house in protective casings. The design of the display must involve optimisation to operate well in these environments. Displays are typically housed in FIDS trees and therefore replacing a failed display can be interruptive and costly as replacements are normally made during non-operating times with specialist access equipment.

NEC Professional Series products are designed to meet these challenges and deliver the trusted performance expected in the airport environment.

PEACE OF MIND

Certain NEC Professional Products utilise 'A' Grade Panels that have been sealed for dust ingress.

LOWER RUNNING COSTS

LED Backlighting Technology and ambient light sensors that automatically adjust required brightness, help reduce power consumption and save costs.

OVERHEATING PROTECTION

Advanced cooling technology helps protect against static image retention issues, whilst a three sensor temperature management system maintains optimum operating temperature and uniformity.

SUPERIOR JAPANESE QUALITY

Reliability is assured with Japanese components that operate consistently at wider tolerance levels, commonly found in airport environments.

FLEXIBLE ELEGANT INSTALLATION

Thin bezels help create more attractive display groupings, whilst slim depth displays are ideal to fit into existing cabinets and back to back use. Lighter displays and carry handles help achieve simpler installation and servicing.

REFERENCE	NEC Reference products meet and exceed the requirements of the most challenging applications in terms of image quality, features and trusted long term performance.
ECO	This logo is used to indicate that a product or series of products have ECO innovations that help to reduce the energy use associated with the product and/ or offers greater productivity from the same resource.
ECO	We aim to reduce the use of harmful materials in any of our products, this includes the display itself, the plastics used, the elimination of mercury or halogen or the use of safer, smaller packaging.
LED Backlit LCD	LED Backlighting is integrated into some of our Desktop and Large Format Displays. This Logo is used to indicate LED backlit displays that operate at lower power and in a smaller chassis.
24 7 READY 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.
16 7 READY OPERATION	Subject to environmental conditions, content and change of content, products marked as 16/7 are appropriate for 16/7 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 lengthen the life and uniformity of the display.

FLIGHT INFORMATION DISPLAYS

NEC provides a range of single display sizes from 32" to 82" and 46" and 55" videowall modules that can be used for the display of flight information.

Typically used above check-in desks, in departure lounges, at gates and within departure and arrival halls, NEC's Professional Display Series offer unrivalled reliability and long term consistency and are specifically designed to meet the requirements of airports operating permanently throughout the year.

A range of slot-in controllers allow you to choose the appropriate computing power for your FIDS application, whether you are displaying just flight information or a mix with advertising or video. Consuming the lowest amount of power in the industry, our flight information display systems significantly reduce an airport's operating costs.

NEC FLIGHT INFORMATION DISPLAY SOLUTIONS INCLUDE:

P SERIES — DISPLAYS FOR ARRIVAL BOARDS, CHECK-IN INFORMATION AND LOUNGES

XS SERIES — ULTRA-SLIM PROFILE DISPLAYS FOR ARRIVAL BOARDS, CHECK-IN INFORMATION AND LOUNGES

X UN SERIES — VIDEOWALL DISPLAYS, HEAVILY FEATURED AND IDEAL FOR BUILDING CLEAR RETAIL AND INFORMATION WALLS

V SERIES — VALUE COMMERCIAL DISPLAYS IDEAL FOR LESS HEAVY DUTY APPLICATIONS

P SERIES 24/7 FIDS SOLUTIONS

P SERIES KEY FEATURES

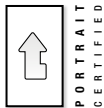Professional Grade Performance with NEC Professional Advanced Heat Management

High Brightness up to 700cd/m²

High Accuracy, Full HD image with Professional S-PVA Panel

Full Functionality and Connectivity including HDMI and DisplayPort

Expansion Slot for Pre or Post Installation Upgradability

Certified for Landscape and Portrait Operation

24 7
READY
OPERATION

PORTRAIT
CERTIFIED

AIRFLOW
MANAGEMENT

1080P
FULLHD IMAGE

P SERIES REFERENCE DISPLAYS
AVAILABLE IN 40" TO 70" FORMATS

REFERENCE

P SERIES FLIGHT INFORMATION DISPLAYS

At the heart of our Professional Display Series for flight information display is the NEC P Series Product range. Now in its third generation, the NEC P Series combines outstanding colour corrected high brightness image quality and constant operating reliability whilst maintaining its original outer dimensions.

MINIMISING OPERATIONAL COSTS AND SUPPORTING THE ENVIRONMENT

With the industry's lowest power consumption for CCFL backlit large format displays, the NEC P Series features further innovative ECO features:

- ECO mode out of the box
- Ambient light sensor automatically optimises brightness and power
- Built-in real time clock scheduler, ensures the display is powered down when not in use (independent of the slot–in PC module)
- ECO meter calculates the savings in CO_2 and in monetary terms, when using these ECO features

UNRIVALLED CONNECTIVITY

NEC has always provided the most comprehensive connectivity without additional cost, and now with both HDMI and DisplayPort you are ready for the future.

FLEXIBLE APPLICATION

NEC's industry standard slot-in modules range from simple FIDS controllers to powerful retail digital signage media players; CAT 5 extenders and ipTV interfaces. Simply install/replace in the field by unscrewing two safety bolts.

ACCURATE COLOUR MATCHING

With 6 axis colour control and 10 bit LUT, NEC P Series can be hardware calibrated to ensure accurate reproduction of airline and airport logos, even between displays grouped in a cluster or videowall.

SNMP AND CONSISTENT CONTROL

NEC P Series has a range of solutions to always keep you in control of your display:
- Remote control sensor on front bezel allows you to configure single or grouped displays with one RC
- LAN and RS232 connectivity combined with a suite of software tools. Generic and long term RS232 codes makes the job easy
- SNMP compliance allows you to use industry standard management tools
- Alert email – the display now tells you when something is wrong

PEACE OF MIND

Reliability has been our focus since launching the first product in 2003. Since then our 30,000 installed products have maintained a very low maximum failure rate in the field, typically less than 0.7%.

XS SERIES 24/7 FIDS SOLUTIONS

The NEC XS Series is the world's first professional grade display to utilise the latest in LED edge backlight technology. The use of LED backlighting has enabled us to re-think the design of our flight information displays, and airports will need to re-think how they deploy this revolutionary technology. At only 18kg in weight and less than 44mm thick, the X461S 46" display no longer needs a substantial support structure but can be deployed back to back on a slim-line support in the same space as a conventional display.

A GIANT LEAP FORWARD IN REDUCING ENVIRONMENTAL IMPACT

The development of the NEC XS Series marks another giant step in reducing the carbon footprint of flight information displays. Typically airports operate permanently throughout the year, therefore the XS Series could save an airport up to $200 per year per display in electricity running costs alone.

With LED backlights also containing zero mercury, the benefits to the environment of the new XS Series are clear.

INDUSTRY LEADING FEATURES

No compromise has been made in the development of the XS Series displays, with all the features of our popular P Series maintained. NEC Displays are designed to operate reliably in the most challenging environments and the XS Series is no exception. Despite the shallow profile, we developed an innovative cooling system which compensates for the heat created by LED backlighting.

UNRIVALLED CONNECTIVITY

NEC has always provided the most comprehensive connectivity without additional cost, and now with both HDMI and DisplayPort you are ready for the future.

XS SERIES REFERENCE DISPLAYS
AVAILABLE IN 40" TO 55" FORMATS

From 44mm
Total Depth

XS SERIES KEY FEATURES

Professional Grade Performance with NEC Professional Advanced Heat Management

Edge LED Backlighting for up to 40% less Power Use

High Brightness up to 700cd/m^2

High Accuracy, Full HD image with Professional S-PVA Panel

Full Functionality and Connectivity including HDMI and DisplayPort

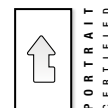Expansion Slot for Pre or Post Installation Upgradability

Lighter Weight from 14.9kgs, means Single Person Install is a reality

REFERENCE

ECO INNOVATION

ECO SAFETY

24/7 READY OPERATION

PORTRAIT CERTIFIED

AIRFLOW MANAGEMENT

1080P FULLHD IMAGE

X UN SERIES 24/7 FIDS VIDEOWALL DISPLAYS

Although much less popular today a lot of older airports are still using traditional analogue split-flap boards for their primary means to display flight information in departure and arrival halls. Split flap boards are now becoming costly to maintain, and do not offer the flexibility of content the modern passenger demands.

X UN SERIES REFERENCE DISPLAYS
AVAILABLE IN 46" TO 55" FORMATS

With the NEC Ultra-Narrow (UN) LCD range, airports now have a viable and cost effective alternative. Using next generation LCD technology, sophisticated thermal management and colour calibration, airports can now build digital videowalls up to 83m^2. Being digital, NEC displays can show mixed content and provide not only flight information but also less critical information such as destination weather and drive revenue from retail advertising, helping to justify the replacement of the flap board.

AUTOMATED THERMAL MANAGEMENT

When displays are stacked as in a videowall, managing their temperature becomes critical not only for reliability but also to ensure on-going colour matching. NEC's 3 sensors manage the control of 2 internal fans, reducing temperature when needed. RS232 and LAN remote control allows the videowall status to be monitored remotely, and failures alerted via the internal email alert system.

FLEXIBLE APPLICATION

NEC's industry standard slot-in modules range from simple FIDS controllers to powerful retail digital signage media players, CAT 5 extenders and ipTV interfaces. Simply install/replace in the field by unscrewing two safety bolts.

COMPLETE VIDEOWALL SOLUTIONS

NEC's experience in digital videowall creation allows us to offer a complete end to end solution for customers. Mounting systems, industrial video wall processors and calibration tools are all part of the service we offer. Further Information on solutions are listed later in this brochure.

MINIMISING OPERATIONAL COSTS

NEC's X463UN and X551UN 55" models utilise 'state of the art' direct LED backlights. LED not only provides excellent brightness uniformity but also uses over 40% less electricity. All X UN videowalls feature a daisy chained ambient light sensor that adjusts all modules at the same rate, ensuring the perception of a seamless image.

X UN SERIES KEY FEATURES

Professional Grade Performance with NEC Advanced Heat Management

Build High Quality Videowalls as large as 83m^2

Direct LED Backlighting for up to 40% less Power Use

From 5.7mm Distance Between Visible Content

Many Reference Features, Option Slot and DisplayPort

ECO INNOVATION

ECO SAFETY

New Professional Direct LED Backlighting helps reduce profile, weight and power use by 40% and with 960 lamps provides excellent image uniformity (X551UN only)

247 READY OPERATION

PORTRAIT CERTIFIED

AIRFLOW MANAGEMENT

V SERIES 16/7 FIDS SOLUTIONS

V SERIES DISPLAYS
AVAILABLE IN 32" TO 80" FORMATS

IDEAL FOR REGIONAL AIRPORTS

For airports that operate during limited hours or those with tighter budgets, such as smaller regional airports, the NEC V Series range offers excellent image quality, automated heat management and NEC renowned reliability. In built speakers mean that these displays can be used in a host of different applications as well as flight information displays, such as passenger entertainment with an external digital TV feed and for back office purposes such as video conferencing.

UNRIVALLED CONNECTIVITY

Comprehensive connectivity without a price premium, now includes both HDMI and DisplayPort key to today's content delivery.

MINIMISING OPERATIONAL COSTS AND SUPPORTING THE ENVIRONMENT

With the industry's lowest power consumption, the NEC V Series features further innovative ECO features:

- ECO mode out of the box
- Built-in real time clock scheduler, ensures the display is powered down when not in use (independent of the slot–in PC module)
- ECO meter calculates the savings in CO_2 and in monetary terms, when using these ECO features

FLEXIBLE APPLICATION

NEC's industry standard slot-in modules range from simple FIDS controllers to powerful retail digital signage media players, CAT 5 extenders and ipTV interfaces. Simply install/replace in the field by unscrewing two safety bolts.

SNMP AND CONSISTENT CONTROL

NEC V Series has a range of solutions to always keep you in control of your display:
- Remote control sensor on front bezel allows you to configure single or grouped displays with one RC
- LAN and RS232 connectivity combined with a suite of software tools. Generic and long term RS232 codes makes the job easy
- SNMP compliance allows you to use industry standard management tools
- Alert email – the display now tells you when something is wrong

X UNV 16/7 VIDEOWALL SOLUTIONS

LOW COST 16/7 VIDEOWALL SOLUTIONS

A value version of our X463UN display is available when high operating cycles are not essential. Certified for 16/7 use, the X462UNV display has the same bezel width and characteristics as the X463UN but offers genuine savings for less demanding applications.

V SERIES KEY FEATURES

Commercial Grade 16/7 Performance

High Brightness up to 500cd/m^2

High Accuracy, Full HD image with Professional IPS or S-PVA Panel

Full Functionality and Connectivity including HDMI and DisplayPort

Expansion Slot for Pre or Post Installation Upgradability

Certified for Landscape and Portrait Operation

NEC

CONTROLLERS FOR 24/7 OPERATION

VERSATILE SOLUTIONS FOR DISPLAY CONTENT MANAGEMENT

All NEC Professional Series products feature a new industry standard slot, that provides the enabling computing technology to drive our displays in any application. Developed in conjunction with Intel and Microsoft, the open pluggable specification (OPS) standard has been warmly welcomed by the industry, and provides airports and media owners alike with a common open standard platform, moving away from proprietary technology.

NEC has launched a range of OPS slot compliant slot-in single board computer modules to fulfill a range of needs within an airport.

Windows 7 (intel) **1080P** FULLHD IMAGE

LOW OPERATING TEMPERATURE

As the modules reside inside the display, NEC has used industrial grade components that utilise less power and therefore generate less heat, ensuring the longevity of the NEC Professional Series display.

ONE SIZE FITS ALL

The NEC slot-in module is compatible with all NEC Professional Series products no matter what size. Airports can for the first time maintain one OS image for any display in the airport. This significantly reduces the time to manage the display estate, and minimises inventory.

OPERATING SYSTEM FLEXIBILITY

Microsoft Windows XP and 7 Embedded operating systems provide a reliable platform for your application. For more flexibility NEC's modules can be provided without operating system or a pre-built customer image. In addition drivers can be provided for other operating systems such as Linux.

PRE-CONFIGURATION

NEC's modules can be built independently of the display they will end up driving. A simple adaptor allows the module to be connected to a standard desktop display, allowing multiple modules to be quickly imaged and tested prior to deployment.

INDUSTRIAL GRADE COMPONENTS

In order to provide long term availability, reliability and consistency over the life of the product, NEC's slot in PC modules only use industrial components.

EASY INSTALLATION AND LOW COST MAINTENANCE

The NEC module hides away inside the display and takes power and digital video feeds internally. Only one power and one Ethernet cable are needed, making for a neat installation. As the module is a slot-in failed product can be removed in the field and replaced with another pre-configured module.

REFERENCE

24 7 READY OPERATION

AIRFLOW MANAGEMENT

24/7 **OPERATIONAL** CONTROL CENTRES

NEC is regarded as one of the leading experts in control room solutions for the broadcast, government, telecoms, and utilities application.

NEC's expertise in desktop and videowall LCD technology, wall management software, display wall processors, mounting solutions and extensive experience in delivering solutions for customer projects, allows NEC to act as a single partner for your airport control room project.

NEC's LCD displays are optimised for 24/7 mission critical applications and feature guaranteed servicing and availability of components and support over product lifetime. NEC was the first to launch LCD based videowall modules for the control room environment in 2009. LCD technology has proven to deliver unrivalled high resolution image quality, high reliability and very low maintenance, not previously achievable using traditional rear projection systems.

24/7 VIDEOWALLS

MISSION CRITICAL VIEWING

Viewing mission critical data in a control room environment demands the most from today's display technology. The X463UN and X551UN are the latest display technology available from NEC and features new low energy LED backlights that not only deliver 1080p 700cd/m² brightness video, but unrivalled uniformity and viewing angles.

NEXT GENERATION INSTALLATIONS

Unlike traditional projection based systems, the NEC X463UN and X551UN module are extremely low maintenance, with no bulb installation or replacement or image re-alignment necessary in order to achieve the perfect videowall. With over double the brightness and a quarter of the depth of projection systems, control rooms can finally be developed that meet all the customer's expectations.

ECO FRIENDLY AND LOW RUNNING COST

The X551UN was the world's first videowall LCD module to feature Direct LED backlights and as the LED's are spread evenly across the screen the brightness uniformity is superb. The LED backlight technology delivers lower energy use, less heat and a slimmer profile without compromise to brightness output.

NEC reference PA Desktop displays and X UN Videowall displays are ideal for mission critical applications.

NEC has developed an innovative cooling system which compensates for the heat created by backlighting. Advanced heat management plays a vital part in the uniformity and long term performance of your display. Low operational cost, improved longevity and mercury-free LEDs are just three of the many benefits for the environment.

CONTROL ROOM OPERATOR DISPLAYS

With long hours of operation and a requirement for the ultimate image quality and detail from any angle of view, the control room operator can safely rely on NEC's PA Series Desktop displays to deliver. Utilising ultra-performance NEC P-IPS LCD technology to ensure uniformity of brightness and minimal colour shift, and resolutions up to 2560 x 1600, the PA Series has been specifically designed for multi monitor configurations in mission critical operation. Thin bezels, brightness stabilization and built-in ambient light sensors are all combined to reduce eye fatigue through optimised image display. Optional 24/7 performance related warranties are available for PA Series Displays on request.

NEC CONTROL ROOM KEY FEATURES

Critical Performance Ready Professional Products

High Accuracy, Full HD Image with Professional S-PVA or P-IPS Panel

Full Functionality and Connectivity including HDMI and DisplayPort Daisy Chain

Expansion Slot for Pre or Post Installation Upgradability

Flexible Easy Access Solutions for Convenient Servicing

Professional Desktop and Large Format Displays

NEC Flexible Mounting Options are ideal for Control Rooms where individual displays may require quick servicing without disturbing the surrounding display set up.

REFERENCE 247 READY OPERATION PORTRAIT CERTIFIED AIRFLOW MANAGEMENT 1080P FULLHD IMAGE

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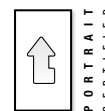
CENTRALISED MONITORING OF AIRPORT DISPLAYS

Knowing the status of all the displays in an airport at any time is impossible, and too often the passenger is the first to notice a display that is blank or has a system error message. Displays that are mission critical to the airport, whether they are revenue generating, informational or directional, or whether they are on their own or in a cluster or contained within a videowall, must be operational at all times, and when errors occur they must be quickly identified and resolved. NEC Professional Display Series products feature advanced connectivity and provide a number of sophisticated tools that allow remote monitoring, notification and control of any display in the airport's network.

MANAGING YOUR NETWORK

NEC provides the PC Control Utility that allows you to remotely monitor and control individual or grouped displays from a centralised point on your network. Using either the RS232 or LAN connection on the display, PC Control allows you to connect to the networked display to obtain asset information such as asset location, serial number, number of hours of use, current brightness, input source, as well as status information of the temperature at sensors, power supply, inverter, video signal detection and backlight stability.

NEC Displays with LAN connection can be accessed and controlled via a centralised LAN.
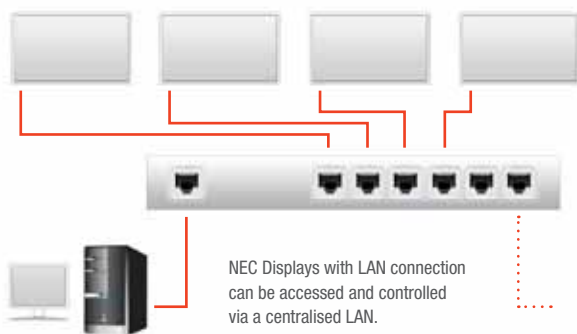
Once you have determined the status of the display, PC Control then allows you to control the display remotely as well. Any setting that you can normally access via the display's remote control unit, can be controlled remotely via PC Control. The display can be powered on and off (which can also be used to reboot one of our in-built FIDS controllers), brightness reset, ambient light sensor or fans switched on or video signal changed. Displays can be grouped into clusters so that one command affects multiple displays. With the same controls available on all our Professional Series displays, supporting a network of NEC displays couldn't be easier. Controls typically stay consistent between displays sizes and between generations of our products, allowing long term programming of RS232 control commands.

AUTOMATIC SCHEDULING

One powerful feature of all NEC Professional Display Series is the automated scheduler. Each and every display has a real time clock built-in, which allows you to trigger up to 5 commands at particular times of the day. For example, between 1am and 5am you may wish to power down all the displays at check-in, or switch the input signal of the displays to show airline promotional videos. The in-built scheduler can be programmed on a daily, weekly, or monthly basis, allowing for every eventuality. Of course scheduling can be controlled remotely via PC Control as well.

SELF PRESERVATION

NEC Professional Series products may be built into wall recesses, cased in a FIDS tree housing or built into a video wall. Monitoring and managing the temperature of each display is crucial if the display is to maintain its long life. Three in-built sensors monitor the temperature of different areas of the display. Administrators can set the maximum temperature limit of each sensor manually. Once the limit is met, fans can be automatically turned to one of two speed settings. If the display continues to overheat then backlights will be dimmed, and eventually the display will be turned off.

This sophisticated 3 stage heat management system inherent in all NEC display products improves reliability and longevity of life, and protects your display investment.

NEC advanced heat management ensures uniform heat dissipation. Without heat management displays placed higher in a wall would sustain more heat.

DISPLAYS WITH INTELLIGENCE

A new feature of NEC Professional Series displays is the ability of the display to notify you automatically via email of a problem. Our alert email function allows the network administrator to programme two receiving email addresses into the display. A number of self-diagnosis tests are performed by the display on itself, and will notify the administrator via email on the following detected errors:

• Power supply abnormality
• Cooling fan fault
• Backlight fault
• User configured temperature limit met
• FIDs controller abnormality

On receipt of an alert email, the network administrator can then use the PC Control utility to figure out whether an engineer needs to be called out to site.

REFERENCE

24/7 READY OPERATION

AIRFLOW MANAGEMENT

DESKTOP DISPLAYS FOR COMMON USE TERMINALS AND BACK OFFICE

NEC continues to make advancements in its desktop LCD product range, pioneering the use of energy savings features such as ambient light and human presence sensors into its products, to ensure the lowest possible energy use during operation.

CUSS / COMMON USE TERMINALS

E AND EA SERIES DISPLAYS
CONVENTIONAL 19"

With small footprint and stylish design a necessity for use in customer facing common use areas of an airport, the NEC's 19" 5:4 displays are the ideal solution. Featuring very low power consumption and NEC's reputation for reliability, our desktop displays have been designed for the heavy duty use associated with common use applications. Covered by a standard 3 year warranty with a 2 year extension option, NEC desktop displays offer peace of mind to your investment.

NO COMPROMISE IMAGE QUALITY

The productivity of your back office is at the heart of the design of the NEC EA and EX Series desktop LCD displays. NEC's desktop products deliver consistent high quality image quality, coupled with a reputation for unrivalled reliability through the use of high quality Japanese components. With sizes ranging from 19" to 27", 16:9 and 16:10 wide-formats and a stand design that gives comprehensive positioning flexibility, the MultiSync® EA Series displays are ideal for all airport applications whether general office or high end CAD/CAM. With a comprehensive range of connectivity such as DisplayPort, DVI and VGA your investment is future proof.

Supporting the latest environmental targets, such as EPEAT Gold and Silver ratings and Energy Star 4.0 compliance, the EA and EX Series products feature an innovative ECO meter, that allows you to monitor and audit the monetary and CO_2 savings when operating the display in out-of-the-box ECO mode.

LOWEST OFFICE OPERATIONAL COSTS

The new NEC EX Series couples contemporary design for that future office look with the industry's lowest power consumption through the use of slim LED backlighting technology. Using state of the art edge lit LEDs, ambient light sensing and human presence sensing, considerable operation costs can be saved. At under 48mm thick and weighing less than 3kg, the head of the EX Series displays can be placed onto a picture frame stand for shared viewing.

EX Series, Smart Displays that work, only when you do

The EX Series features a unique 'human sensor', that powers the screen on and off depending on the viewer's presence and the smallest fully ergonomic stand we ever made, the NEC EX Series set the trends for displays of the future.

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WAYFINDING AND PASSENGER ENTERTAINMENT SOLUTIONS

NEC believes in the concept of a unified communications platform that would mean that any display within an airport environment could be used for a multitude of applications, such as FIDS, wayfinding, retail advertising or location notification. NEC not only provides the display technology to make this concept a reality but also the computing and distribution platforms, which these applications can run on.

ENGAGING YOUR PASSENGERS

With long dwell times for passengers in transit, at gates and in departure lounges, and for visitors at arrivals, airports need to consider providing not only a retail experience but also some form of entertainment. Providing news and sports channels at the airport is the simplest way of keeping passengers entertained but deploying standard TVs that are not built for heavy duty operation or the dusty environment of the airport is not a wise solution.

NEC's Professional Series Displays all come with an option slot that can be populated with two solutions that allow the simple distribution of digital TV signals. As with all Professional Series solutions, the products have been designed to meet the challenges of an airport environment.

In some instances you may wish to distribute the same content, whether it is digital signage, security information or TV, to multiple displays from a central source. The most cost effective way of doing this is to use a CAT5 distribution system, which enables you to send content over CAT5/6/7 to displays between 100m and 600m away from the source.

DIGITAL WAYFINDING

Traditional wayfinding uses static signage, Airports are now able to provide wayfinding digitally, allowing more dynamic directional messaging to be created. Digital wayfinding allows airports the flexibility to highlight exits in an emergency, advertise special offers at restaurants, or provide destination/weather information at departure gates.

GETTING INTERACTIVE

Whether finding a retail outlet, hiring a car or choosing duty free goods to be collected at a later date, interactive touch screens enable a simplified process for the passenger, and can be used to reduce front line resource. There is currently no touch technology that can operate in all environments, and therefore NEC works with authorised touch partners to deliver the leading technologies such as 3M Capacitive, DST and optical imaging.

Available touch options:

- Single or dual touch, single viewer use
- Multi touch, multi viewer use
- 19" to 30" desktop touch screens
- 32" to 80" public touch screens
- Touch tables
- Vandal proof touch screens
- Through the window touch screens

Our authorised touch partners deliver approved solutions backed with NEC's 3 year warranty service.

RETAIL DIGITAL SIGNAGE

Information Displays that Generate Revenue and Increase Customer Engagement

Airports have widely been identified as prime sites for the deployment of digital signage, as passengers often have long periods of dwell time and in general a large proportion of passengers fit the profile of CIP (commercially important person) or VIP. Some of the world's largest digital signage networks have been deployed within airports, and NEC as the recognised leader in signage solutions has gained valuable experience in their deployment.

With some airports already generating over 70% of their revenues from commercial operations, advertising through digital signage can effectively be used to drive retail sales within the terminal.

NEC carries the widest portfolio of display systems for digital signage and has long term partnerships with the world's leading signage software players, best of breed mounting companies and localised installation and service partners to be able to offer airports a complete end to end solution for digital signage.

CENTRALISED DIGITAL SIGNAGE COMMUNICATION

The NEC slot-in single board computer modules and LAN connectors allow the displays to be networked, and with a range of processors available, you can select the right power depending on the content you are playing, whether its static signage or full HD resolution video.

Today's content management software allows each display to display different content, and adverts can be scheduled to play at selected periods, allowing you to maximise your advertising revenues.

MAKING AN IMPACT

For indoor environments NEC's Ultra Narrow (UN) range of video wall modules allows airports to affordably create high impact media walls. With each module capable of Full HD resolution and modules capable of creating up to 60m^2 walls, advertising content looks great whether you are viewing up close or at a distance.

CONNECT WITH YOUR CUSTOMERS

Interactive touch screens provide you with a two way communication with your passengers, whether it be at a way-finding kiosk or in a retail context. NEC Display Solutions provides touch technology on the complete range of Professional Series displays to allow single or multiple passenger interaction. Whether on a desk, stand-up kiosk or on a table, from 17" to 130" videowall, NEC's touch partners can deliver the best touch technology for the application.

How you communicate with passengers in a busy airport environment can help drive non-operational revenues and provide a higher level of service satisfaction.

With so many distractions for the passenger, getting your message across can be challenging. The use of digital billboards and interactive displays inside and outside the terminal can give you a powerful medium to not only grab attention but also provide a valuable source of live feedback from your passengers.

NEC RETAIL SIGNAGE BENEFITS

Professional Grade Performance with NEC Advanced Heat Management

High Brightness up to 700cd/m^2 (1500cd/m^2 for X462HB)

High Accuracy, Full HD Image with Professional PVA Panel

Full Functionality and Connectivity including HDMI and DisplayPort

Expansion Slot for Pre or Post Installation Upgradability

Certified for Landscape and Portrait Operation

24/7 READY OPERATION   16/7 READY OPERATION   PORTRAIT CERTIFIED   AIRFLOW MANAGEMENT

Conventional or LED Videowalls from a Single Trusted Manufacturer

HIGH IMPACT MESSAGING

With the trend for larger and brighter terminal buildings to accommodate more non-operational business and provide a more comfortable and modern environment comes the challenge of getting clear and dynamic messaging to an ever increasing passenger number.

Whether for indoor or outdoor use, NEC LED modules can be used to replace traditional static advertising billboards and are ideal as giant entertainment screens.

INDOOR AND OUTDOOR LED GIANT SIGNAGE

Large weather proof LED installations can offer a cost effective way to attract passengers from a distance and also assist with branding, advertising and wayfinding. The NEC 15mm LED module at 7500cd/m^2 brightness, is IP65 sealed both back and front, ensuring uninterrupted display in the harshest of environments.

NEC 6mm and 10mm LED high brightness modules are particularly suited to the high ambient light environments inside the new terminal building designs.

COMPLETE SOLUTION INSTALLATION

As one of the leading innovators in the digital signage and DOOH markets, NEC has a wide partner network across the EMEA region, that can provide an informed world class installation service. With extremely light weight modules, mounting frame solutions and auto videowall set up, installation couldn't be easier. NEC also provides the video distributors and processes that drive the videowall, to ensure complete compatibility and ease of installation.

JAPANESE QUALITY ASSURANCE

NEC only uses the highest quality Japanese components in the design of its LED modules, to ensure highest reliability. Renowned for being of the highest quality, NEC standardised on Nichia LEDs in its 6mm 3in1 SMD, 10mm and 15mm modules, that come with built in protection against electrostatic damage to provide low failure rates and long term reliability.

With a combination of ultra-high brightness of up to 7500cd/m^2, over 800Hz refresh rate and 16 bit colour processing, LED technology can provide the ultimate viewing experience in high ambient and outdoor lighting conditions.

LONG TERM RELIABILITY FROM A NAME YOU CAN TRUST

By deploying a large LED wall you want peace of mind that your investment will last a long time. NEC's LED technology has a life expectancy of over 100,000 hours, and cost saving features such as low operating power consumption and ambient light sensing to optimise power usage. The LED modules come with NEC's reputation for reliability and world class after sales service. Our 2 year warranty and comprehensive pan EMEA service partner network, ensure that you are in safe hands.

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