## Technical Specifications: NEC LCD3000

| | |
|---|---|
| **Display** | 30 inch IPS TFT (75 cm diagonal) |
| Viewing Angle | 170° horizontal, 170° vertical (at contrast ratio 10:1) |
| Active Screen Area (w x h) | 643 x 386 mm |
| Pixel Pitch | 0.50 x 0.50 mm |
| Brightness | 450 cd/m² (typ.) |
| Response Time | 25 ms |
| Contrast Ratio | 350:1 (typ.) |
| Screen Aspect Ratio | 15:9 |
| Number of Colors | 16.77 million |
| **Frequency Range** | |
| Horizontal | 31.5–75 kHz analog (15.75 kHz/15.625 kHz with Scan Converter); 31.5–48.4 kHz digital |
| Vertical | 58–62 Hz |
| **Resolution** | |
| Optimum (native) | 1280 x 768 (W-XGA) |
| Compressed | 1280 x 1024 (SXGA); 1600 x 1200 (UXGA) |
| Others | 640 x 480 (VGA); 800 x 600 (SVGA) |
| **Connectors** | |
| RGB 1 | Digital (DVI-D) |
| RGB 2 | Analog (D-sub) |
| RGB 3 | Analog (5 x BNC) |
| Audio Input | 2 x RCA stereo; 1 x M 3.5 mm stereo (PC audio) |
| Audio Output (external speaker jacks) | 2 x 7 W amplifier for optional external speakers (8Ω) |
| Composite Video | BNC/RCA |
| Component Video | BNC (common use with RGB 3 input; selectable) |
| S-video | Yes |
| **Remote Control** | RS-232C (9-pin, D-sub) DDC/CI (RGB 2 analog or RGB 1 digital) infrared remote control; 3 m range |
| **Environmental Conditions** | |
| Operating Temperature | +5 °C to +40 °C |
| Operating Humidity | 10–80 % (no condensing) |
| **Power Consumption** | 170 W |
| **Power Requirements** | AC 100–120/200–240 V (50/60 Hz); 0.7A/0.4A; internal power supply |
| **Dimensions (W x H x D)** | |
| with stand | 706 x 489 x 200 mm |
| without stand | 706 x 449 x 114 mm |
| **Bezel Width** | 31.4 mm |
| **Weight** | 17.5 kg |
| **Regulatory Approvals** | TÜV GS; FCC Class B; CE |
| **Special Functions** | Picture in Picture Mode (also via remote control); CableComp (cable length compensation); Rapid Response; Intelligent Power Management; Video ready (no tuner) PAL/SECAM/NTSC; HDTV ready (no tuner) 1280 x 720 progressive |
| **Power Management** | VESA DPMS |
| **Plug & Play** | VESA DDC/CI |
| **Standard Accessories (incl.)** | AC power cord; User´s manual; 15-pin RGB cable; Infrared remote control; 2 x AA batteries; Table-top stand |
| **Optional Accessories** | Speakers (2 x 7 W) |

# NEC

**New 30 inch LCD Display.**

**Make your vision come alive and take the next step in LCD technology.**

- 30 inch LCD display (75 cm diagonal)
- Superior screen performance and resolution
- Wide viewing angle (IPS technology)
- NaViSet™ and NaViSet™ Administrator compatibility
- DDC/CI capabilities
- CableComp: Automatic long cable compensation prevents image quality degradation caused by long cable lengths
- User-friendly, efficient design allows versatile installation
- Low power consumption for low Total Cost of Ownership (TCO)
- Rapid Response time
- On-Screen Manager (OSM)
- NEC-Mitsubishi´s quality and reliability

LCD3000-E-09/02

## NEC/MITSUBISHI
NEC-MITSUBISHI ELECTRONICS DISPLAY

**www.nec-mitsubishi.com**

## NEC/MITSUBISHI
NEC-MITSUBISHI ELECTRONICS DISPLAY

High powered technology: The NEC LCD3000 from NEC-Mitsubishi for airports, subways, fairs, exhibitions, showrooms, banks, congress centers, terminals for employees or visitors, for supervision of production or public administration, control centers, video conferences.

Building on its leadership as a top vendor of branded LCD monitors, NEC-Mitsubishi is now offering an expansive 30 inch LCD display for the public display market. As the largest screen size LCD display widely available this display bridges the gap between flat panels designed for the desktop and those intended for large presentation venues. Utilizing advanced LCD technologies from NEC-Mitsubishi Electronics Display, the 30 inch NEC LCD3000 provides larger eye-catching images for a wide range of applications including conference rooms, public information kiosks, retail signage, financial exchange and trade show exhibits – everywhere messages need to be communicated to the wider public.

### Superior screen performance for crisp text and precise image

The new NEC LCD3000 display takes advantage of the many display technologies that made LCD monitors so popular over the years and delivers the images through an expansive screen featuring a 15:9 wide aspect ratio. The monitor´s 1280 x 768 (W-XGA) resolution optimizes on-screen text, images and video with remarkable precision and clarity, allowing onlookers to clearly view presentations, charts, advertisements, pricing and other public display information.

### No permanent image burn-in

With other screen technologies, displaying a static picture for a long period of time burns an image into the screen. This well-known problem, especially associated with phosphor-based public displays, permanently engraves an image into the display, rendering it useless. The NEC LCD3000 does not employ phosphors in its manufacture, thus eliminating the possibility of images burning into the screen, thereby contributing to optimal screen performance and a much longer life for the monitor.
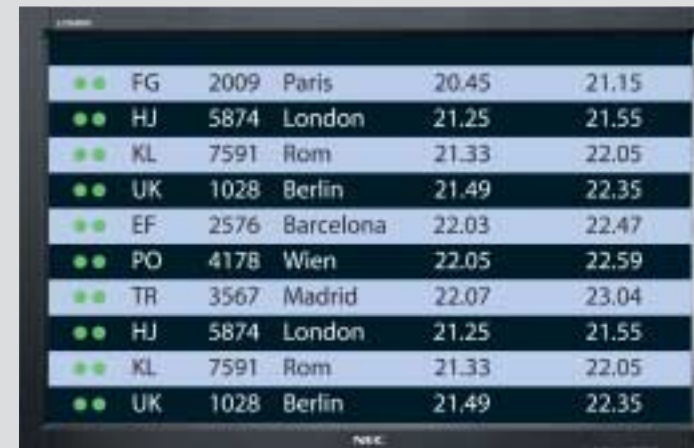
### Wide viewing angle

In applications where spectators are situated at various viewing angles in front of the screen or where they are passing by, the NEC LCD3000 provides an undistorted view of the screen. Using IPS wide viewing angle technology, this monitor provides flexible 170° horizontal and vertical viewing angles (85° up, down, left and right) with less glare, reflection and distortion.

### Three ways to perform remote control (RS-232C, DDC/CI, IR)

In an effort to make remote control and diagnostics easier, the NEC LCD3000 display provides three different methods for remote control of the display – an RS-232C connector, a wireless infrared remote control (IR) for quick setup of the monitor and, finally, the advanced remote diagnostics and remote control capabilities of the NaViSet™ Administrator (based on DDC/CI). By utilizing the inherent power of the PC (a typical signal source for the display), NaViSet™ Administrator allows control commands to be sent directly to the monitor through a standard PC system or remotely over an existing network (LAN) by a system administrator. The ability to effectively manage multiple monitors from a distant control room enables public display administrators to create a more productive computing environment.

The NEC LCD3000 as info terminal for passenger information at airports – one of the key application fields for this new display.

| | | | | | |
|---|---|---|---|---|---|
| ●● | FG | 2009 | Paris | 20.45 | 21.15 |
| ●● | HJ | 5874 | London | 21.25 | 21.55 |
| ●● | KL | 7591 | Rom | 21.33 | 22.05 |
| ●● | UK | 1028 | Berlin | 21.49 | 22.35 |
| ●● | EF | 2576 | Barcelona | 22.03 | 22.47 |
| ●● | PO | 4178 | Wien | 22.05 | 22.59 |
| ●● | TR | 3567 | Madrid | 22.07 | 23.04 |
| ●● | HJ | 5874 | London | 21.25 | 21.55 |
| ●● | KL | 7591 | Rom | 21.33 | 22.05 |
| ●● | UK | 1028 | Berlin | 21.49 | 22.35 |

### CableComp – automatic long cable compensation

The NEC LCD3000 shows sharp pictures at up to 100 meters by utilizing NEC-Mitsubishi Electronics Display´s CableComp technology (long cable management), which prevents image degradation caused by long cables. It automatically compensates for video signal delays and irregular red, green and blue cable transmissions, as well as enhancing the VGA video signal to prevent blurred images.
Users can now benefit from the advantages of long monitor cable lengths without the difficulties and costs normally associated with this type of configuration. In environments such as trading floors, call centers and public signage venues, longer cables enable systems to be centrally located in control rooms far away from users (up to 100 meters), allowing monitor upgrade service and repairs to be accomplished without interrupting the work or display environment.

### User-friendly, efficient and functional design

As ease of installation is a main concern for the public display market, the 30 inch LCD display has been designed with weight reduction as a key design parameter. At only 17.5 kg – which is up to 40% less weight compared to a corresponding plasma display – this monitor is simple to transport and install wherever required. The monitor´s cabinet has been designed to meet currently proposed VESA mounting standards for larger-sized public displays, which will be required of all manufacturers in future.

### Low Total Cost of Ownership (TCO)

Utilizing energy-efficient technologies in its design, the 30 inch LCD display reduces power consumption and significantly lowers the total cost of ownership (TCO). The high-efficiency backlight, which provides an extraordinarily long lifetime, reduces not only the power consumption (which is up to 30% lower compared to a corresponding plasma display), but also the heat generation at the front of the screen.

### Get connected

The NEC LCD3000 features a variety of input connections for maximum compatibility. These include a DVI-D connector for digital video signal adapters and a traditional 15-pin mini D-sub connector that is configured for IBM VGA-compatible adapters, as well as BNC VGA, composite video, component video and S-video connectors. This wide compatibility ensures future upgrades of adapters or software without the purchase of a new monitor. With both analog and digital signal inputs, this monitor can display more than 16 million colors.

### Precise images and Rapid Response time of 25 ms

With a brightness of 450 cd/m$^2$, the NEC LCD3000 stands out in the crowd, allowing onlookers to view text and graphics with ease and comfort. A 350:1 contrast ratio helps the monitor deliver amazingly vivid colors and support superior grey-scaling. Using the NEC-Mitsubishi Electronics Display´s Rapid Response technology, the NEC LCD3000 operates at 25 ms to facilitate full-motion video without "ghosting" or "image travelling".

### On-Screen Manager (OSM) for simplified control of screen settings

The NEC LCD3000 features NEC-Mitsubishi´s critically acclaimed On-Screen Manager (OSM) for the most precise monitor adjustments available. It delivers a comprehensive set of adjustments and an expanded display mode with monitor information such as brightness, contrast and color settings.

# NEC

## New 30 inch LCD Display.

## Make your vision come alive and take the next step in LCD technology.

- 30 inch LCD display (75 cm diagonal)
- Superior screen performance and resolution
- Wide viewing angle (IPS technology)
- NaViSet™ and NaViSet™ Administrator compatibility
- DDC/CI capabilities
- CableComp: Automatic long cable compensation prevents image quality degradation caused by long cable lengths
- User-friendly, efficient design allows versatile installation
- Low power consumption for low Total Cost of Ownership (TCO)
- Rapid Response time
- On-Screen Manager (OSM)
- NEC-Mitsubishi´s quality and reliability

## NEC/MITSUBISHI
NEC-MITSUBISHI ELECTRONICS DISPLAY

**High powered technology:** The NEC LCD3000 from NEC-Mitsubishi for airports, subways, fairs, exhibitions, showrooms, banks, congress centers, terminals for employees or visitors, for supervision of production or public administration, control centers, video conferences.

Building on its leadership as a top vendor of branded LCD monitors, NEC-Mitsubishi is now offering an expansive 30 inch LCD display for the public display market. As the largest screen size LCD display widely available this display bridges the gap between flat panels designed for the desktop and those intended for large presentation venues. Utilizing advanced LCD technologies from NEC-Mitsubishi Electronics Display, the 30 inch NEC LCD3000 provides larger eye-catching images for a wide range of applications including conference rooms, public information kiosks, retail signage, financial exchange and trade show exhibits – everywhere messages need to be communicated to the wider public.

### Superior screen performance for crisp text and precise image

The new NEC LCD3000 display takes advantage of the many display technologies that made LCD monitors so popular over the years and delivers the images through an expansive screen featuring a 15:9 wide aspect ratio. The monitor´s 1280 x 768 (W-XGA) resolution optimizes on-screen text, images and video with remarkable precision and clarity, allowing onlookers to clearly view presentations, charts, advertisements, pricing and other public display information.

### No permanent image burn-in

With other screen technologies, displaying a static picture for a long period of time burns an image into the screen. This well-known problem, especially associated with phosphor-based public displays, permanently engraves an image into the display, rendering it useless. The NEC LCD3000 does not employ phosphors in its manufacture, thus eliminating the possibility of images burning into the screen, thereby contributing to optimal screen performance and a much longer life for the monitor.
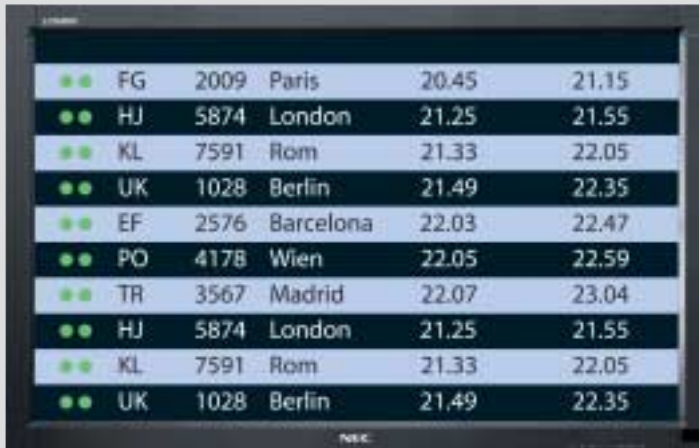
### Wide viewing angle

In applications where spectators are situated at various viewing angles in front of the screen or where they are passing by, the NEC LCD3000 provides an undistorted view of the screen. Using IPS wide viewing angle technology, this monitor provides flexible 170° horizontal and vertical viewing angles (85° up, down, left and right) with less glare, reflection and distortion.

### Three ways to perform remote control (RS-232C, DDC/CI, IR)

In an effort to make remote control and diagnostics easier, the NEC LCD3000 display provides three different methods for remote control of the display – an RS-232C connector, a wireless infrared remote control (IR) for quick setup of the monitor and, finally, the advanced remote diagnostics and remote control capabilities of the NaViSet™ Administrator (based on DDC/CI). By utilizing the inherent power of the PC (a typical signal source for the display), NaViSet™ Administrator  allows control commands to be sent directly to the monitor through a standard PC system or remotely over an existing network (LAN) by a system administrator. The ability to effectively manage multiple monitors from a distant control room enables public display administrators to create a more productive computing environment.

The NEC LCD3000 as info terminal for passenger information at airports – one of the key application fields for this new display.

| | | | | | |
|---|---|---|---|---|---|
| ●● | FG | 2009 | Paris | 20.45 | 21.15 |
| ●● | HJ | 5874 | London | 21.25 | 21.55 |
| ●● | KL | 7591 | Rom | 21.33 | 22.05 |
| ●● | UK | 1028 | Berlin | 21.49 | 22.35 |
| ●● | EF | 2576 | Barcelona | 22.03 | 22.47 |
| ●● | PO | 4178 | Wien | 22.05 | 22.59 |
| ●● | TR | 3567 | Madrid | 22.07 | 23.04 |
| ●● | HJ | 5874 | London | 21.25 | 21.55 |
| ●● | KL | 7591 | Rom | 21.33 | 22.05 |
| ●● | UK | 1028 | Berlin | 21.49 | 22.35 |

## CableComp – automatic long cable compensation

The NEC LCD3000 shows sharp pictures at up to 100 meters by utilizing NEC-Mitsubishi Electronics Display´s CableComp technology (long cable management), which prevents image degradation caused by long cables. It automatically compensates for video signal delays and irregular red, green and blue cable transmissions, as well as enhancing the VGA video signal to prevent blurred images.

Users can now benefit from the advantages of long monitor cable lengths without the difficulties and costs normally associated with this type of configuration. In environments such as trading floors, call centers and public signage venues, longer cables enable systems to be centrally located in control rooms far away from users (up to 100 meters), allowing monitor upgrade service and repairs to be accomplished without interrupting the work or display environment.

## User-friendly, efficient and functional design

As ease of installation is a main concern for the public display market, the 30 inch LCD display has been designed with weight reduction as a key design parameter. At only 17.5 kg – which is up to 40 % less weight compared to a corresponding plasma display – this monitor is simple to transport and install wherever required. The monitor´s cabinet has been designed to meet currently proposed VESA mounting standards for larger-sized public displays, which will be required of all manufacturers in future.

## Low Total Cost of Ownership (TCO)

Utilizing energy-efficient technologies in its design, the 30 inch LCD display reduces power consumption and significantly lowers the total cost of ownership (TCO). The high-efficiency backlight, which provides an extraordinarily long lifetime, reduces not only the power consumption (which is up to 30 % lower compared to a corresponding plasma display), but also the heat generation at the front of the screen.

## Get connected

The NEC LCD3000 features a variety of input connections for maximum compatibility. These include a DVI-D connector for digital video signal adapters and a traditional 15-pin mini D-sub connector that is configured for IBM VGA-compatible adapters, as well as BNC VGA, composite video, component video and S-video connectors. This wide compatibility ensures future upgrades of adapters or software without the purchase of a new monitor. With both analog and digital signal inputs, this monitor can display more than 16 million colors.

## Precise images and Rapid Response time of 25 ms

With a brightness of 450 cd/m², the NEC LCD3000 stands out in the crowd, allowing onlookers to view text and graphics with ease and comfort. A 350:1 contrast ratio helps the monitor deliver amazingly vivid colors and support superior grey-scaling. Using the NEC-Mitsubishi Electronics Display´s Rapid Response technology, the NEC LCD3000 operates at 25 ms to facilitate full-motion video without "ghosting" or "image travelling".

## On-Screen Manager (OSM) for simplified control of screen settings

The NEC LCD3000 features NEC-Mitsubishi´s critically acclaimed On-Screen Manager (OSM) for the most precise monitor adjustments available. It delivers a comprehensive set of adjustments and an expanded display mode with monitor information such as brightness, contrast and color settings.

# Technical Specifications: NEC LCD3000

| | |
|---|---|
| **Display** | 30 inch IPS TFT (75 cm diagonal) |
| Viewing Angle | 170° horizontal, 170° vertical (at contrast ratio 10:1) |
| Active Screen Area (w x h) | 643 x 386 mm |
| Pixel Pitch | 0.50 x 0.50 mm |
| Brightness | 450 cd/m$^2$ (typ.) |
| Response Time | 25 ms |
| Contrast Ratio | 350:1 (typ.) |
| Screen Aspect Ratio | 15:9 |
| Number of Colors | 16.77 million |
| **Frequency Range** | |
| Horizontal | 31.5–75 kHz analog (15.75 kHz/15.625 kHz with Scan Converter); 31.5–48.4 kHz digital |
| Vertical | 58–62 Hz |
| **Resolution** | |
| Optimum (native) | 1280 x 768 (W-XGA) |
| Compressed | 1280 x 1024 (SXGA); 1600 x 1200 (UXGA) |
| Others | 640 x 480 (VGA); 800 x 600 (SVGA) |
| **Connectors** | |
| RGB 1 | Digital (DVI-D) |
| RGB 2 | Analog (D-sub) |
| RGB 3 | Analog (5 x BNC) |
| Audio Input | 2 x RCA stereo; 1 x M 3.5 mm stereo (PC audio) |
| Audio Output (external speaker jacks) | 2 x 7 W amplifier for optional external speakers (8Ω) |
| Composite Video | BNC/RCA |
| Component Video | BNC (common use with RGB 3 input; selectable) |
| S-video | Yes |
| **Remote Control** | RS-232C (9-pin, D-sub) DDC/CI (RGB 2 analog or RGB 1 digital) infrared remote control; 3 m range |
| **Environmental Conditions** | |
| Operating Temperature | +5 °C to +40 °C |
| Operating Humidity | 10–80 % (no condensing) |
| **Power Consumption** | 170 W |
| **Power Requirements** | AC 100–120/200–240 V (50/60 Hz); 0.7A/0.4A; internal power supply |
| **Dimensions (W x H x D)** | |
| with stand | 706 x 489 x 200 mm |
| without stand | 706 x 449 x 114 mm |
| **Bezel Width** | 31.4 mm |
| **Weight** | 17.5 kg |
| **Regulatory Approvals** | TÜV GS; FCC Class B; CE |
| **Special Functions** | Picture in Picture Mode (also via remote control); CableComp (cable length compensation); Rapid Response; Intelligent Power Management; Video ready (no tuner) PAL/SECAM/NTSC; HDTV ready (no tuner) 1280 x 720 progressive |
| **Power Management** | VESA DPMS |
| **Plug & Play** | VESA DDC/CI |
| **Standard Accessories (incl.)** | AC power cord; User´s manual; 15-pin RGB cable; Infrared remote control; 2 x AA batteries; Table-top stand |
| **Optional Accessories** | Speakers (2 x 7 W) |

CE ⚠ TÜV Rheinland Product Safety GS geprüfte Sicherheit

**NEC/MITSUBISHI**
NEC-MITSUBISHI ELECTRONICS DISPLAY

www.nec-mitsubishi.com