

Technical specifications are subject to change without notice. As of 01/2011



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Brilliant Ideas for Impressive Images Everywhere.
Professional LCD monitors from SANYO.

A big selection of big pictures.



**Weatherproof monitors:
the outdoor specialists.**



**Robust monitors:
protection against oil, smoke and dust.**



**Standard monitors:
seeing is believing.**

Large and brilliant images are uniquely compelling. SANYO has developed an especially high-performance range of professional monitors for all areas of application – whether in traditional environments, places with oil, dust and smoke, or even outdoors in all conditions, including rain, snow and extreme temperatures from $-20\text{ }^{\circ}\text{C}$ to $+45\text{ }^{\circ}\text{C}$. High-quality components and materials combined with sophisticated solutions designed down to the smallest detail translate into the uncompromising quality of SANYO LCD monitors – even in situations where other models fail. All monitor solutions can be installed either horizontally (in landscape mode) or vertically (in portrait mode). In addition, there are high-quality wall mounting systems and advanced technologies, such as the daylight readable function that ensures excellent image reproduction in an efficient and environmentally friendly manner under all lighting conditions.

SANYO LCD monitors are the top choice in the following three areas of application where impressive and brilliant images are required, regardless of the place or situation:

■ **Weatherproof**

LCD monitors for all indoor and outdoor installations subject to extreme conditions.

■ **Robust**

Tough LCD monitors which can withstand contact with oil, smoke and dust.

■ **Standard monitors**

Reliable LCD monitors for digital advertising and information systems, lasting impressions and memorable moments.

Different monitor sizes, all with the HD quality seal for high image quality, are available within these categories. SANYO offers a 3-year warranty and a 24-hour replacement service which is currently available in Germany, France, Italy and Switzerland only. Have a look at the next few pages for information on the extraordinary technical and visual features of SANYO LCD monitors for a variety of applications. A summary of the different models can be found in the pocket at the end of the brochure. Get ready for big pictures from SANYO!



No limits to entertainment and information: SANYO LCD monitors, the only weatherproof models on the market so far, are uniquely tough and make a brilliant appearance – regardless of the location or weather conditions. Perfectly-suited for all indoor and outdoor

installations, digital signage and industrial applications, these weatherproof monitors are already a success in many ski resorts, amusement parks, industrial plants, railway stations, simulations and car washes.

The first choice for hot, cold or wet conditions: SANYO weatherproof LCD monitors.

Weatherproof SANYO LCD monitors perform where other LCD monitors fail, such as in heavy frost or in wet or hot weather. The monitors comply with the IP66 standard for weather resistance. This means they are protected against strong jets of water, temporary flooding and dust penetration. Winter mode ensures monitors can be used in temperatures as low as -20°C . There are no limits to permanent outdoor use. The anti-corrosive anodized aluminium housing is especially durable. Extremely resistant non-reflective screens made of special Schott glass protect against vandalism and foreign particles. This glass is five times stronger than that found in conventional monitors, making them ideal for installation in all public and industrial locations. Optional network capability allows monitors to be controlled and supervised conveniently from any location.

Rich contrast under all light conditions: daylight readable.

This version of the weatherproof monitor is especially suitable for use in bright and frequently changing lighting conditions:

- The trans-reflective monitor structure reflects light and uses it as a light source for higher image brightness and best display clarity under all light conditions.
- Daylight readable is a particularly efficient, economic and environmentally friendly solution because the increased light output is only generated by the incident light itself when it is required.
- Ideal for outdoors at bus stops, in railway stations or on roads as well as in shop windows, restaurants and shopping centres.



All highlights at a glance:

- Also available with daylight readable technology
- Comprehensive protection from water, contact and foreign particles as per industry standard IP66
- Winter mode for use up to -20°C
- Brightness up to $1,500\text{ cd/m}^2$
- Full HD resolution (1,920 x 1,080)
- High contrast ratio of up to 2,000 : 1
- Front screen protected against vandalism
- Corrosion-resistant aluminium case
- Corrosion-resistant wall brackets available for all weatherproof monitors
- Range of interfaces (DVI, analogue) and user-friendly operation
- Picture-in-picture and picture-by-picture function



Oil spray, billows of smoke and thick dust clouds are all no match for these robust all-round performers from SANYO. These resistant LCD monitors perform reliably even under the most adverse conditions. They always

display a brilliant picture, even when intense operating demands are placed on them, for example, in industry, in areas with heavy smoke and dust, or behind the counter in fast food restaurants.

Perfect visibility even under adverse conditions: SANYO LCD monitors with oil-, smoke- and dust-protection.



Oil films, dust and smoke can reduce the performance and service life of conventional LCD monitors. SANYO LCD monitors are anything but conventional – they boast top protection from such influences. Their no-holes ventilation design reliably protects the monitors from oil drops as well as smoke and dust particles. The high HD quality is consistent over the entire service life. They are also protected against contact and foreign particles from a diameter of 1 mm as per the IP40 standard. The anodized aluminium housing is sturdy and corrosion-resistant yet lightweight. This material is also used in shipbuilding, where it has proven effective in protecting against rust. The anti-glare acrylic monitor screen is especially resistant and provides good visibility even when viewed from extreme angles.

SANYO LCD monitors may be closed off to the elements, but they are open for a variety of connection options, such as controlling via RS232, external speaker systems, or monitoring and controlling on a network with an integrated timer function and image transmission. The monitor 52LH1R is equipped with a media box, enabling the physical integration of multimedia sources, which is protected in accordance with the corresponding IP standard of the monitor. These options make this category of LCD monitors suitable for digital signage solutions in public locations – a flexible tool for restaurants, events and industrial applications. Better visibility with SANYO!

Highlights at a glance:

- Professional protection against oil, smoke and dust
- Protection against contact and foreign particles as per industry standard IP40
- Brightness up to 500 cd/m²
- Full HD resolution (1,920 x 1,080)
- High contrast ratio up to 1,500 : 1
- High viewing angle
- Anti-glare acrylic screen surface
- Corrosion-resistant aluminium housing, no-holes ventilation design
- Corrosion-resistant wall brackets available for all robust monitors
- Numerous uses: industrial applications, digital signage, sport events, restaurants and many more



The new big business players: professional LCD standard monitors from SANYO.



SANYO widescreen LCDs not only produce brilliant images, they also have an attractive and sleek appearance. They were made to be displayed in the most elegant environments. The LCD monitors are easy to operate, offering an image with rich contrast even in rooms that are brightly lit or flooded by daylight thanks to the daylight readable technology. They can be connected to external devices via a wide range of digital and analogue interfaces. The non-reflective surface ensures that displays can be read easily from almost any angle.

The sturdy housing, the particularly durable LCD panel as well as the extra low power consumption of SANYO LCD monitors, translate into cost effective operation that delivers brilliant and homogeneous images. This makes the monitors perfect for renting, and they can be installed in hard-to-reach places such as shop windows. Professional LCD monitors from SANYO are brilliant as public displays for digital signage applications in public spaces such as airports and railway stations thanks to their sophisticated technology. The advantages are numerous: customization of media contents, such as information and advertising, can be done faster, better targeted and less expensive. And this is just a fraction of what SANYO LCD monitors can do for your business. Experience it for yourself.

Highlights at a glance:

- Also available with daylight readable technology
- Super fast image response times
- High image quality thanks to full HD resolution (1,920 x 1,080)
- High contrast and brightness for use in bright environments
- Portrait mode for vertical installations
- Range of interfaces (DVI, analogue) and user-friendly operation
- Durable LCD panel
- Elegant design, top engineering
- Ideal for renting due to excellent stability
- Controlled using RS232
- 3-year warranty
- For use at points of sale, in hotel lobbies, in car rental stations and for digital signage (airports, railway stations, agencies, rentals)

Infotainment at its best with professional LCD monitors from SANYO – wherever they are used. Whether at points of sale, in hotel lobbies, at airports or railway stations, these models were developed

specifically for professional applications and stand out in any environment thanks to their flexibility and exceptional performance.

Features and advantages of professional SANYO LCD monitors.

Anti-corrosive cabinet

The housing on SANYO's robust and weatherproof monitors is resistant to corrosion and mechanical influences, ensuring that they are safe to use in all indoor and outdoor locations. Anodization creates a hard protective layer on aluminium. The layer is not applied to the metal; it is formed by oxidizing the surface metal layer. It is part of the material and develops a metallic shine. This is what makes the housings of professional SANYO LCD monitors exceptionally tough and attractive.

Daylight readable technology

This technology guarantees that an LCD monitor produces an easily readable display with a rich contrast even when exposed to strong and frequently changing light. The novel panel has a trans-reflective structure: a reflective layer behind the LCD panel reflects light and helps brighten the image.

Full HD

To carry the Full HD seal of quality, the projectors must support a native resolution of at least 1,080 pixels on the vertical axis in 16:9 format. Digital video inputs such as DVI or HDMI are also prerequisites. A Full

HD resolution must be able to process the following formats: 720p, 1,080i, 1,080p.

Integrated light sensor

Upon activation of the built-in light sensor, the brightness of the panels is automatically adjusted to the surrounding light conditions resulting in reduced power consumption.

IP protection classes

The protection class indicates the external conditions LCD monitors can withstand and describes the scope of protection during use. External conditions include different temperatures, chemical strains from steam, acids, bases, oil and fuel, and the risk of moisture and foreign bodies such as dust entering the device.

The different degrees of protection are indicated by IP codes. IP stands for Ingress Protection according to DIN, and IP codes are defined in DIN EN 60529 degrees of protection provided by enclosures (IP Code). The description always consists of the letters IP followed by a two-digit number, which indicates the degree of protection the enclosure provides against contact or foreign bodies (first digit) and moisture (second digit).

SANYO weatherproof LCD monitors comply with protection class IP 66 and protect against strong jets of water and temporary flooding, and provide full protection against contact, preventing unintended penetration of the monitor by foreign particles. An overview of the IP protection classes for the SANYO monitors is available at www.sanyo.de.

Vandalism protection

Front panels must be especially sturdy in public places and industrial environments. The glass surface of SANYO weatherproof LCD monitors is made of special glass from Schott, which is five times as strong as the glass in normal screen surfaces. The screen's mechanical resistance is 100 N/mm².

Winter mode

SANYO weatherproof LCD monitors feature Winter mode, which can be switched on using the on-screen menu. Winter mode keeps the mains cable warm – even when the monitor is on standby – to prevent the LCD panel from freezing. It ensures these LCD monitors are fully functional even if the mercury drops to –20 °C.

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