Professional LED-Displays
Legend

- Outdoor
- Indoor
- Rental
- Magnetic
- Hanging
- Fixed installation
- Curved
- Front service
- Fan less
- Bounce protection
- High-resolution
- Neutrik
- TV compatible
- Stacking
- Quick lock
- Lightweight
- Transparent
- Brine protection
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About LEDCON

LEDCON Systems

Customer-focused project management, uncompromising quality of products, as well as overall professional service entitle LEDCON systems to one of the leading producers of LED systems.

In recent years a powerful set of enterprises from development to sales has grown on the 3500 m² company site. This cooperation ensures an extraordinary flexibility thus enabling even highly customized solutions.

LED displays for all applications

You plan an Out-Of-Home-Display, a Digital-Signage-Screen or an information banner at your point of sale - we manage any environment and purpose of messages via LED systems precisely shaped to your individual concepts and needs. A globally spread network of providers sets LEDCON into a position to select the best suited components for any imaginable LED display project and precisely shape according to your imaginations.

Turnkey solutions

LEDCON accompanies your project from its first ideas to setting it into operation. No time-consuming coordination of scattered branches for you - one of our skilled and experienced project managers guides you along throughout the project as your single, personal addressee.

Our support concept comprises assistance in visualisation matters, CAD based design, calculation, matters of statics, sketches of details and of course in the final installation and setting into operation.

If required we additionally support you in matters of administrative permission or composition of relevant project data.
Our philosophy

LED displays are a bit more than simple everyday products. What proved to be a good event display does not necessarily mean an as good fixed installation display.

A main focus is directed on security and easy service access. This includes a survey able, modular build combined with comfortable handling and access as well as a redundant concept of entries and lines of signals.

Project- and product managers, engineers and programmers work hand in hand to design the optimal combination of technical equipment, security and your budget.

Full Service

Due to our own internal service station with an attached ESD-laboratory we are enabled to even solve short-termed problems from own resources on the spot. Our qualified service staff is apt to support you in any way.

In addition our service department is featured with short distances and comprising know-how. An intricate barcode system guarantees the exact identification, integration and further availability of components, esp. with reference to color charge or SMD-LEDs, an essential factor within homogenous screening.

A large service packet on delivery and a fast responding pool of spare parts round off the wide service spectra of LEDCON Systems. On request we are also happy to offer you long-term guarantees or full-service contracts.
ADVERTISING FOR THOSE who want more
Outdoor facade installations
and outdoor banner

Requirements to advertising displays vary as much as advertising itself. No matter if indoor or outdoor, if classic city display in the market-place, if advert at a building of 30 meters height or a 3-metered advertising pillar, - such displays are never identical products. Any requirement is unique, any installation consists of its specific characteristics.

Advertising lettering in a banner format is certainly the most effective formats at all. Large letterings are recognized within seconds from the viewer, even from long distances.

Originally developed for the sports sector / classic banner advertisement the digital banner advertising is enjoying increasing popularity.

Our LED banner systems are suitable for all types of installations, whether free-standing or fixed on the facade. In combination with our proven content management systems daily information and advertisement can be combined elegantly.

Module type QPix

- Pixel pitch 6 mm, 8 mm, 10 mm, 16 mm available
- Any kind of screen dimension with a modular dimension of 400 x 400 mm is viable
- Every QPix module has a own power supply and control board
- Easy replacement of complete module in the case of needed service
- All-side capsuled IP 65 housing, convection cooling with fan less design
- Curvature module edge up to 7.5°

Module type UPix

- Pixel pitch 6 mm, 8 mm, 10 mm, 16 mm, 20 mm and 25 mm available
- Any kind of screen dimension with a modular dimension of 200 x 400 mm is viable
- The size of the module is min. 800 x 800 mm, max. 1200 x 1200 mm
- Less power supply and control boards needed
- Front service access to all components of a module
- Front service IP65, rear service IP54

For more product details please visit www.ledcon.de
LEDCON QPix and UPix displays are very easy and convenient to install. Where previously tons heavy LED displays had to be flown in by crane, the complete display installation can be realized easily without hoisting devices with appropriate accessibility.

First only the support consoles and support frame segments are fixed on the substrate. After that, everything will be exactly aligned. Only after that the LED modules are going to be installed on the fixed supporting frame completely and connected to power supply and signal supply.

With a total weight of 30 kg/m² including metal construction the LEDCON QPix system belongs to the world's lightest outdoor fixed installation systems.
Indoor screen and indoor banner
Unlimited video displays

Sales offers, commercials or infotainment: LED displays have increasingly taken over in the world of shopping center, entrance halls and event arenas.

Whenever traditional LCD displays are too small or too dark, our high-res LED displays will be the right choice for you. Hereby special attention is paid to a seamless image with brilliant colors to make the advert appear of high quality and highly noticeable.

Our indoor systems offer you a wide range of possibilities to be combined into nearly any shape of LED display from standard 4:3 resp. 16:9 video display via LED advert banners to an elegant video curtain of a pillar in an entrance hall. Thus, any application comes up with its own special demands to design and installation.

Module type QFrame

- Any kind of screen dimension with a modular dimension of 500 x 500 mm is viable
- Pixelpitch 3.1 mm, 3.9 mm, 4.8 mm, 5.2 mm and 6.2 mm available
- Every QFrame module has a own power supply and control board
- Front service access to all components of a module
- Precise die-cast aluminum housing
- Hanging installation

Module type UFrame

- Any kind of screen dimension with a modular dimension of 250 x 250 mm is viable
- Pixelpitch 3.9 mm, 4.8 mm, 5.2 mm, 6.2 mm and 7.8 mm available
- The size of the module is min. 500 x 500 mm, max. 1000 x 1000 mm
- Less power supply and control boards needed
- Front service access to all components of a module
Module type UHD

- Pixelpitch from 0.8 up to 2.5 mm available
- Different size of modules in 8:9 and 16:9 available
- Every UHD module has a own power supply and control board
- Precise die-cast aluminum housing
- Rear service access to all components of a module
Info totem

Sales offers, commercials or infotainment: Video totems have increasingly taken over in the world of infotainment in in- and outdoor sector.

Hereby special attention is paid to a high resolution with brilliant colors because for making the messages appear of high quality, even from shortest distance.

Our Video totem systems offer a wide range of possibilities to be selected for many different applications. We will find the right solution for your needs, e.g. our small aXiom display, a large high-res Info tower totem or our new 4.5m high two sided LED Pylon with stainless steel housing.

Nearly all totem systems can be scaled, i.e. size and resolution of the integrated LED display are easily adjustable according to your requests.

Moreover the Video totems can be branded with your company name or logo or colored in your company’s CI colors.

All totem systems are equipped with an internal player for a scheduled playback of pictures and videos. Depending on your desired configuration these players can either be used as a stand-alone unit or optionally be combined to a centralized Content Management System via wireless LAN or UMTS.

Info totems or similar projects can be realized with the following products of LEDCON:

Outdoor: QPix
          UPix
Indoor:  QFrame
          UFrame
          UHD

For more product details please visit www.ledcon.de
**Info boards**

**Maximum attention**

An LED display near the street, in the city center or on the company’s premises gains maximum attraction from the viewer. The LEDCON full color displays can display not only text or logos but show complete graphics and pictures.

**Daily updated information**

In combination with our Content Management Systems new media can easily be uploaded to the LEDCON display by a simple drag-and-drop via wired or wireless network connection. This can either be done in real-time or together with a precisely scheduled playlist. Actual city event information or up-to date community news is spread out in seconds and important customers are welcomed digitally directly at the company’s gate.

**Digital advertising space**

In addition to displaying pure information the LEDCON display can easily be used as an commercial advert screen. The comprehensive controlling system allows accurate timetabling for commercial customers and precise logging and billing of each advert time slot.

Info boards or similar projects can be realized with the following products of LEDCON:

- **Outdoor:** QPix
  - UPix
- **Indoor:** QFrame
  - UFrame
  - UHD
Media fixed installations and glass screens

Our new LEDCON glass screens form the perfect eye-catcher for shop window and in-store design. Animations and videos arise virtually out of nothing and seem to float across the glass surface.

By offering 80% transparency the Glass Screen still enables a good view from outside into the shop window as well as enough daylight transmission into the shop itself, thus providing a comfortable daytime room lighting.

The installation of a LED glass screen is very simple. The individual glass screen modules are mounted to a free standing unit directly behind the existing glass front via aluminum vertical profiles. The wiring for power supply and signal line remains invisible hidden in the aluminum profiles.

LEDCON glass screens are designed for maintenance and service purposes easily accessible from the rear and completely modular.

Module type G - S

- Transparency up to 80%
- Perfect for shop design, as a room divider or shopping window
- Non visible technology and wiring
- As well as free standing installation as window installation suitable
- Daylight suitable brightness up to 5000 cd/m²
- Convection cooling with fan less design

For more product details please visit www.ledcon.de
Curved LED displays

LED displays need not necessarily be composed of flat spaces. The context of advertising and exhibition frequently demands own standards for curved display systems.

For right this purpose our LEDCON Curved Displays have been designed. Based on highly flexible PCBs those pixel cards may freely be bent, equipped with magnets for fixing at their backsides. Thus even complex shape can be fitted exactly according to design.

In addition those pixel cards are available with a white surface, which makes the whole LED display appear more attractive and less technical - an ideal alternative for shop installations.

Module type Zeno

- Pixel pitch 3.9 mm and 6.2 mm available
- Flexible curved LED modules up to +/-5°
- Magnetic connection assistant for a comfortable setup of the screens
- High quality Neutrik plug connector
- Accurate quick lock connector
Our Digital Signage displays often consist of more than „only“ a few LED modules. In 2013 we were given the opportunity to realize an extraordinary project together with our Norwegian partner: „Den Norske Bank“’s flagship stores over Norway had to be equipped with a shop window display of a very special kind.

So an architectural piece of art was created in Oslo, Bergen and Trondheim with an overall width of more than 130m. A perfect combination of distinct architecture and modern and creative display technology was born, without any visible technics.

The judging module of the VISCOM Digital Signage Best Practice Awards fully shared this opinion and awarded LEDCON Systems for developing and realizing this project.
LEDCON equipment

NovaStar MCTRL 300 Basic Controller

Basic video controller ideal for permanent installations and small LED screens | Pixel capacity: 1.3 million pixels | Input resolution: 1920 x 1200, 2048 x 1152, horizontal and vertical resolution is freely customisable max. 2560 x 960 or 1536 x 1536 | Video interface: DVI-I | LED screen outputs: 2x CAT (RJ45) Freely configurable output (backup) | Interface build in brightness sensor | Easy configuration and extensive monitoring capabilities via free NOVA LCT- Mars Software

NovaStar MCTRL 660 Controller

The standard LED controller - ideal for rental and large fixed installations | Pixel capacity: 2.3 million pixels | Input resolution: 1920 x 1200, 2048 x 1152, horizontal and vertical resolution is freely customisable max. 2560 x 960 or 1536 x 1536 | Video interface: DVI-I and HDMI In (configurable as backup), DVI-I and HDMI out (control monitor and / or second controller) | LED screen outputs: 4x CAT (RJ45) Freely configurable output (backup) | Brightness sensor via Multifunction Card | Easy configuration and extensive monitoring capabilities via free NOVA LCT- Mars Software | Screens can be easily configured via front LCD and rotary push encoder without a PC

Video scaler Venus X1

Entry video scaler with professional features and optional expandability | Video scaler and switcher in one unit | Minimal input lag Video inputs: DVI-I, HDMI, VGA, 3G-SDI, Composite, Additional inputs with optional expansion cards | Video outputs: 2x DVI (configurable), 1x VGA, 1x SDI Loop | Freely customisable EDID Management | Easy configuration via LCD and rotary push encoders | Remote control and configuration with iOS app or Windows Software | Remote control via RS232, USB and TCP / IP | PIP and split screen mode (Single Machine Splicing) | Crossfade between sources with fade times and effects | Testimage generator | Memory for 36 presets

For more product details please visit www.ledcon.de
Intelligent content controlling

The Content Management System XIBO is the ideal software solution for your LED displays. From a central computer a variety of displays can be individually supplied with timed content. The compilation of playlists can be done via drag and drop. In a clear calendar you are able to organize advertising time and desired series dates. Temporary event advance notices, different advertising spots on various days and times of day are easily pre-configured.

You simply work from your office PC. A software installation is not necessary, the entire operation is done through your local web browser. Because of the open Open-Source-Technology we are always able to implement additional customized solutions, such as automatic content uploads from remote network folders. On request we provide you an already finished XIBO system: Either a ready installed and configured outdoor PC directly to your advertising display including UMTS modem for the wireless dubbing of pictures and video content. Or an 19” server to be installed in your computer rack.

XIBO Content-management

• Centralized administration of content of one or several displays
• Grasping layout, intuitive handling
• Calendar to organize playback times
• Setting priorities and playback times for content
• Administration of users and individual access rights
• Pixel-accurate positioning and scaling of contents
• Configuring via web-browser
• Remote configuration per VPN possible
• Special adaptions of software possible any time
Your project
From your inquiry up to the equipment

The better the preparation, the easier the implementation – which applies to almost all parts of the daily project business is also necessary when planning a LED display. To encircle the parameters of the planned project meaningful we group the necessary issues in the key functional areas:

What is to be displayed?
- Size and format of the display
- Average viewing distance
- Pixel pitch
- Total resolution of the display
- Selection of LED controlling systems
- Selection of the controlling software

What are the requirements?
- Free standing or fixed on the facade
- Mounting height, wind loads
- Service access rear or front side
- Power supply and signal paths
- Adaption to ambient brightness

Who is responsible for ... later?
- Supervision of Content Management System
- If necessary, integration into existing IT network
- Automatic upload options
- Remote maintenance access

But there is more to have a complete running LED display. Depending on which way your project has to be implemented, the relevant equipment must be also planned.

Our LEDCON team will help you to work out the best possible project. We manage your project from the concept to commissioning. The time consuming coordination of various components will be dispensed. With the help of our experienced LEDCON project managers you only need a single contact for all aspects of your LED display. If necessary, we also like to support you with our industry know-how in the development consent procedure or the metal/steel works.
SPORTS sponsoring with LED displays
LED banner systems indoor
Guaranteed attention and revenue increase

LEDCON banner systems offer the ideal solution for showing “action and advertisement” in sports events. The popular B-10SI-series enables tailor made marketing for sponsors right beside the playground.

SMD “3-in-1” technology guarantees optimal screens, even from attest viewing angles. A high rate of contrast combined with a high frequency of image ensures perfect sight for the present spectator as well as for the critic review in camera screen.

Management of quality together with the choice of high-standard components obviously foarm the key factors in this context, self-understanding for LEDCON products.

The same applies to CE- or EMC-certifications as well as meeting the demands of the Premier League regulations for any LED banner systems.

Maximum security

Highly-sensitive LED equipment close to “high-speed action” of agents and objects? - will that work in the long run?

It will! - LEDCON banner systems integrate quite a number of security features to prevent any damage from people as well as from system components, such as protection bars, soft rubber front masks and a dynamic force protection foot.
Details

**Bounce protection**

The modules top as the greatest risk of injury to the player is fully equipped with a high-quality foam bounce protection.

**Easy handling**

Using the folding strap on both sides allows each module to be moved comfortably and safely with two people.

**Removable bounce protection**

The bounce protection is completely removable so that you can build a complete LED screen from the LED banner system.

**Rotating foot**

The adjustable foot can be rotated 360 degrees and can disappear quickly and easily under the banner modules for transport.

**Rubberised EasySoft®-Shader**

The LEDs are protected by a special for ball sports developed rubberized front mask against dynamic forces from outside.
LED banner systems outdoor
Sponsorship marketing directly at the playground

Current market research studies showed that television viewer remember your brand or your product four times more, if they have seen it on a LED banner system.

LEDCON has developed an LED banner system for the outdoor use, which is specially made for sport events which are shown on TV.

The popular LEDCON B-S-series offers a special opportunity for sponsorship marketing directly at the playground and helps the sponsor to raise returns from the introduced advertising investments.

The used SMD “3 in 1” technology enables optimal image reproduction even from different viewing angles. The high contrast ratio as well as the high frequency refresh rate also ensures perfect visibility for both – the audience and the critical playback in the camera image. Whether at daylight or floodlight – the LEDCON LED banner system guarantees excellent readability of the shown content and a flicker-free television picture.

The LEDCON LED banner system is designed for fixed installations and mobile applications.

This reliable quality management and the use of high quality components in production at LEDCON products have always been key factors.

All LEDCON banner systems are CE and EMC certified and fulfill the demands of the FIFA/UEFA/DFL regulations for any LED banner systems.
Rubberised EasySoft®-Shader

The LEDs are protected by a special for ball sports developed rubberized front mask against dynamic forces from outside.

Dynamic force protection foot

The rearward foot of the module contains a dynamic return spring which can record brake forces in a frontal collision and thus can prevent injuries.

Service

The three rear doors enable a quick and convenient service.

Bounce protection

The modules top as the greatest risk of injury to the player is fully equipped with a high-quality foam bounce protection.
Convincing equipment to the last detail

Time-saving handling
Our LED displays are specially designed to be transported and to be installed often. The lightweight aluminum housing with sturdy carrying handle, the thoughtful feet with a clever angle setting and not at least the comfortable and precise connection of the modules using spring-loaded guide pins ensure a smooth and time-saving installation of the LED banner system. The rear leveling feet are adjustable individually in 4° steps. On request, the modules are also available with a rotatable 90° foot.

Operational Safety
By means of “ring-lined-wiring” an almost infallible distribution of player signals is reached. Each module receives its signals from two sides, automatically switching over within milliseconds in case of failure of one line. Thus a momentary breakdown of one line will pass-by unnoticed by anyone.

Plug & Play
The LEDCON LED banner system is also very smart in configuration and controlling: Addressing and configuring of each individual LED module is not necessary. The intelligent LEDCON controller automatically assigns the modules to their respective positions.

For more product details please visit www.ledcon.de
Our products fulfill the UEFA requirements for LED banner systems. Here is an excerpt:

- LED configuration: LED type 3 in 1 SMD
- Height of the screen: min. 90 cm | max. 100 cm
- Total length: minimum length 246 m | ideal length 257 m
- Pixelpitch: Ideal and minimal quality area 12.5 x 12.5 mm (real)
- Viewing angle: horizontal 140° min. from all camera positions
- Refresh rate: min. 2800Hz
- Brightness: min. 5500 NIT
- Signal input: Control signal connection between two redundant entry-points: Signal line must be configured as a ring set
Scoreboards for professionals and amateur

An LED scoreboard has far more potential than just the presentation of the current status of the elapsed time now. LED displays have become price attractive in recent years, so that more and more complete video suitable equipment replaced the maintenance-intensive analog scoreboards.

A big advantage is the flexibility of the LED scoreboard. No matter if you use it for the insertion of advertising and sponsorship graphics or as a "simple" scoreboard – LED displays can visualize almost everything you wish. Even club logos can be displayed, a replacement of a player can be visualized or special moves are supported with animated graphics.

The sturdy design of the individual modules guarantees unlimited use in all weather conditions.

The club is much more interesting for potential sponsors with the modern and cost-effective system. Even smaller clubs upgrade their systems to be more professional in sponsorships and modern in order to delight fans and sponsors with a LED display. More marketing opportunities are available by attaching a special dibond plate with printed advertising messages around the display. Based on these facts, the system can be refinanced quickly and easily.

LED scoreboards in the outdoor area have to be weatherproof and a durable design is essential. In addition, the display will still remain clearly legible even in the bright sunshine. The maximum display brightness has to be higher than for indoor displays.

In enclosed spaces the audience usually sits closer to the action than in the open-air stadium, so the scoreboard displays are often smaller but designed high resolution. At the same time a wide viewing angel of the LED display is important, so that the laterally seated audience can see the video image without any problems.
In alliance with the internally developed software “LEDCON ScoresPro Football” your new LED scoreboard can be programmed with one mouse click easily.

If it is necessary, LEDCON Systems will be happy to support you in design, installation, construction and also with the necessary permits as well as the content creation & management.

Module type QPix

- Pixelpitch 6mm, 8mm, 10mm, 16mm available
- Any kind of screen dimension with a modular dimension of 400 x 400mm is viable
- Every QPix module has a own power supply and control board
- Easy replacement of complete modules in the case of needed service
- All-side capsuled IP 65 housing, convection cooling with fan less design
- Curvature module edge up to 7.5°

Module type UPix

- Pixelpitch 6mm, 8mm, 10mm, 16mm, 20mm and 25mm available
- Any kind of screen dimension with a modular dimension of 200 x 400mm is viable
- The size of the module is min. 800 x 800mm, max. 1200 x 1200 mm
- Less power supply and control boards needed
- Front service access to all components of a module
- Front service IP65, rear service IP54
Advertising space in a stadium

In sports, it is important to provide important information to the crowds at the stadium as well as the spectators in front of the TV in perfect quality. It is almost secondary, if this information is the score, the playing time, a goal in a close-up or advertising of the sponsor.

Important in sports: Extremely fast and simple updating content, maximum brightness and wide viewing angels, so the LED display can be seen by as many viewers as possible.

There are also special requirements for installations in the field of play: Our sports-systems are equipped with a ball and player safety protections.

Similar to the advertising displays in the field of sport there is no system which you can buy ready-made. Our LEDCON sports specialists will help you to develop the perfect display for your specific applications.

Control

The requirements for the control of a sport display are probably the most complex. Every sport section needs a tailored solution to their software needs, as they have to show all relevant information e.g. player name, points, time penalties and timeouts in a matter of seconds.

LEDCON has created a series of field-proven software solutions. Our sport specialists can assist you in selecting the perfect controlling software.
Scoreboards can be realized with the following LEDCON products:

**Indoor**

**Indoor type QFrame**
- Pixelpitch 3.1 mm, 3.9 mm, 4.8 mm, 5.2 mm and 6.2 mm available
- Any kind of screen dimension with a modular dimension of 500 x 500 mm is viable
- Every QFrame module has a own power supply and control board
- Precise die-cast aluminum housing
- Front service access to all components of a module
- Hanging installation

**Indoor type UFrame**
- Pixelpitch 3.9 mm, 4.8 mm, 5.2 mm, 6.2 mm and 7.8 mm available
- Any kind of screen dimension with a modular dimension of 250 x 250 mm is viable
- The size of the module is min. 500 x 500 mm, max. 1000 x 1000 mm
- Less power supply and control boards needed
- Front service access to all components of a module

**Outdoor**

**Outdoor type QPix**
- Pixelpitch 6 mm, 8 mm, 10 mm, 16 mm available
- Any kind of screen dimension with a modular dimension of 400 x 400 mm is viable
- Every QPix module has a own power supply and control board
- Easy replacement of complete modules in the case of needed service
- All-side capsuled IP 65 housing, convection cooling with fan less design
- Curvature module edge up to 7.5°

**Outdoor type UPix**
- Pixelpitch 6 mm, 8 mm, 10 mm, 16 mm, 20 mm and 25 mm available
- Any kind of screen dimension with a modular dimension of 200 x 400 mm is viable
- The size of the module is min. 800 x 800 mm, max. 1200 x 1200 mm
- Less power supply and control boards needed
- Front service access to all components of a module
- Front service IP65, rear service IP54
Scoreboard software

Professional stadium TV belongs to the stadium experience of each game in premier soccer leagues. The fans in the stadium like to be informed to the events on the field and the backgrounds as up-to-date as possible. Spectators can easily be entertained before the game and during halftime and sponsors are given an attractive platform.

proLSS is a computer-based graphical system with integrated database. All events that are relevant for the game (like e.g. line-up, card statistics, playing time, goals and scorers, result services, live tables, changes... ) are protocolled automatically and are at service in any layout for the flash as animated graphics or as video sequence, too. With proLSS it is possible to combine actions during the game, advertisings, large animations, current information and many more in an attractive way.

proLSS is a unique solution for an up-to-date display management. That way, it is even possible to control the LED banners synchronous to the video walls. Thus, booked presentation slots are present perfectly coordinated.

Functional overview

- Intuitive user environment
- Player list, game score, corners
- Penalties, substitutes, goal scorers
- Match day, standings
- Every game action can be presented with extra sponsor
- Playback of all standard images, video and sound formats
- Live texting (e.g. number of spectators) possible
- Individual design of video outputs
- Parameter bypass by scripting language
- Graphics design on several layers incl. alpha channel

For more product details please visit www.ledcon.de
NovaStar MCTRL 300 Basic Controller

Basic video controller ideal for permanent installations and small LED screens | Pixel capacity: 1.3 million pixels | Input resolution: 1920 x 1200, 2048 x 1152, horizontal and vertical resolution is freely customisable max. 2560 x 960 or 1536 x 1536 | Video interface: DVI-I | LED screen outputs: 2x CAT (RJ45) Freely configurable output (backup) | Interface build in brightness sensor | Easy configuration and extensive monitoring capabilities via free NOVA LCT: Mars Software

NovaStar MCTRL 660 Controller

The standard LED controller - ideal for rental and large fixed installations | Pixel capacity: 2.3 million pixels | Input resolution: 1920 x 1200, 2048 x 1152, horizontal and vertical resolution is freely customisable max. 2560 x 960 or 1536 x 1536 | Video interface: DVI-I and HDMI In (configurable as backup), DVI-I and HDMI out (control monitor and / or second controller) | LED screen outputs: 4x CAT (RJ45) Freely configurable output (backup) | Brightness sensor via Multifunction Card | Easy configuration and extensive monitoring capabilities via free NOVA LCT: Mars Software | Screens can be easily configured via front LCD and rotary push encoder without a PC

Video scaler Venus X1

Entry video scaler with professional features and optional expandability | Video scaler and switcher in one unit | Minimal input lag | Video inputs: DVI-I, HDMI, VGA, 3G-SDI, Composite, Additional inputs with optional expansion cards | Video outputs: 2x DVI (configurable), 1x VGA, 1x SDI Loop | Freely customisable EDID Management | Easy configuration via LCD and rotary push encoders | Remote control and configuration with iOS app or Windows Software | Remote control via RS232, USB and TCP/IP | PIP and split screen mode (Single Machine Splicing) | Crossfade between sources with fade times and effects | Testimage generator | Memory for 36 presets
EVENTS
in a new design
In- & Outdoor
DELTA
An overview of the Outdoor-touring-display:

The Delta-Series is especially designed for the requirements of temporary outdoor applications. Waterproof surface sealing of the LEDs and the IP65 power and signal connector on the back let the DELTA LED-display persist even in bad weather conditions.

The displays are equipped with a sophisticated quick lock system – perfect for the event industry: Align the display, turn the quick-lock pin, ready. The horizontal connectors allow a curvature from -30° up to +30°.

Features

- High contrast, SMD 2727 blackbody LED
- Fan less convection cooling design
- +/- 30° curved
- Front service
- Quick-lock-system
- Easy one-person-handling for setup and tear down, only 8.2 kg or 14 kg per module
- Rear service door for comfortable maintenance, modular setup
- Precise housing for exact alignment: Pixel gap < 0.1 mm
- Wiring with high quality Neutrik powerCONTRUE1 – and etherCON-plug connector
## LEDCON®

### professional LED-Displays

## Details

<table>
<thead>
<tr>
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<th>DELTA 5 500/500</th>
<th>DELTA 5 500/1000</th>
<th>DELTA 8 500/1000</th>
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VENTURE 2
The Indoor touring display

The VENTURE 2 display was developed for the needs of temporary indoor applications. With a pixel pitch of only 2.6 mm the VENTURE 2 sets a new quality standard in the high-resolution indoor event sector.

The VENTURE 2 LED display has an precise quick connector system – perfect for small pixel pitches. Another advantage is the curved from -5° up to +10°.

The wide viewing angle, the high contrast ratio and the high refresh rate make this innovative indoor touring module, a part of your success.

Features

- High resolution with a pixel pitch of 2.6 mm
- Fan less convection cooling design
- -5° up to +10° curved
- Magnetic connection assistant for comfortable setup of the screen
- Quick-lock-system
- High refresh rate
- SMD blackface LEDs
- High contrast
- Optional stacking-system
## Details

### Curvature
- Concave 10°
- Convex 5°

### Venture 2

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SL
The indoor touring expert

The SL-Series is the ideal choice for TV, touring, exhibition and corporate events. Whether rental- or dry hire business - with the SL LED display you have the right partner on your side for each job.

The statically tested connector system has been approved for a total weight of up to 9 LED modules vertically. The SL modules are delivered in practical 10x flight cases.

Features

- Easy one-person-handling for setup and tear down, only 8.6 kg per module
- LCD display with operating hour counter
- Magnetic fixed pixel cards for a fast and easy maintenance
- Rear service door for comfortable maintenance, modular design
- Precise housing for exact alignment: Pixel gap < 0.1 mm
- Wiring with high quality Neutrik powerCON – and etherCON-plug connector
- Blackface LEDs
## Details

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L - SI
The variable show talent

The L - SI display is suitable for all temporary indoor applications and is available with different pixel pitches. The classic is ideal for the use in the touring area, at trade shows or corporate events.

The good image quality and the precise construction of the module are perfect for entertainment and events in indoor venues.

The L - SI series has a smart rigging system, which guarantees a quick setup and tear down.

Features

• Easy one-person-handling for setup and tear down
• Easy quick-lock-system: Tool-free assembly, undetachable parts
• LCD display with operating hour counter
• Rear service door for comfortable maintenance, modular design
• Laser cut aluminum edges for a precise alignment of the modules: Pixel gap < 0.1 mm
• Wiring with high quality Neutrik powerCON – and etherCON-plug connector
• High quality and homogeneous front optic by patented click shader masks
• Blackface LEDs

For more product details please visit www.ledcon.de
## Details

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<tr>
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<th>L - 6 SI</th>
<th>L - 7 SI</th>
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The ZENO display is the perfect choice for temporary wave screen applications. Available with a pixel pitch of only 3.9 mm or 6.2 mm and its curved of +/-5° in five steps, the ZENO display sets new high quality standards in the event sector.

The ZENO display has a sophisticated quick connector system that is supported by magnets during assembly and disassembly, and holds the module in the aligned position for a comfortable one-person handling.

Features

- Flexible curved of each single LED module from -5° up to +5°
- Magnetic connection assistant for comfortable setup of the screen
- Slim & light
- High contrast
- SMD blackface LEDs
- Easy and fast exchange of power and receiving unit
## ZENO 3 vs ZENO 6

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Spider
The transparent show display in detail:

The series of Spider products is the semi-transparent video display for an in- and outdoor use. Thanks to the patented rigging system and the very low weight of the modules, nearly unlimited set design becomes reality without further requirements to rigging or in schedules.

With the new Spider II-series even complete LED screens can be lifted out of this stage set up in seconds.

Features

- Partially transparent LED module
- Low depth, high quality optic
- Perfect color mixture by SMD 3 in 1 LEDs
- Touring standard quick lock system
- Perfect for stage- and TV design
- Large light modules for a quick setup and tear down
- Spider II comes with innovative folding mechanism
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Zirkon
The floor-panel for the right mix of entertainment

The LEDCON video floor offers almost unlimited possibilities in the design of attractive flooring for events as well as for fixed installations. Zirkon is the specialist for the short-term use on exhibitions, car shows, fashion shows or TV shows. The Zirkon video floor is equipped with a sophisticated and precise mounting system that allows large LED floor surfaces to be installed very quickly.

Zirkon is supplied with smoked security glass for extreme contrast, brilliant color reproduction and a high load capacity the LED floor can be used in any environment.

Features

• Extremely durable up to 2 t / m²
• Wide viewing angle
• Easy handling and leveling
• High resolution
• Scratch resistant
• Resistant and rugged
• Maintenance from top
• Sensor technology for content management
• Interactive

For more product details please visit www.ledcon.de
<table>
<thead>
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<th>Details</th>
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</thead>
<tbody>
<tr>
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We also offer you the professional equipment for your LED display. Whether hangingbar, controller, scaler or software - at LEDCON you don’t buy only the LED display instead a complete package without compromise. On the following pages you will find a selection of equipment for your LED display.

For our complete product range please visit www.ledcon.de.

LEDCON Controller

The centerpiece of a LED display is certainly the LED controller which converts the input signal to the respective requirements of the display.

We offer not just a simple control system “off the shelf”. We rely exclusively on hardware made by NOVA Star, the leading provider for controlling systems for LED displays.

In combination with our intuitive LEDCON configuration software you have the tools to utilize the full potential of your LED display.
NovaStar MCTRL 300 Basic Controller

Basic video controller ideal for permanent installations and small LED screens
| Pixel capacity: 1.3 million pixels | Input resolution: 1920 x 1200, 2048 x 1152, horizontal and vertical resolution is freely customisable max. 2560 x 960 or 1536 x 1536 | Video interface: DVI-I | Management interface: USB 2.0 (type B) | LED screen outputs: 2x CAT (RJ45) Freely configurable output (backup) | Internal power supply | Interface build in brightness sensor | UART in / out for cascading controller | Audio interface: 3.5 mm mini jack for audio transmission via CAT cable | Easy configuration and extensive monitoring capabilities via free NOVA LCT- Mars Software

NovaStar MCTRL 660 Controller

The standard LED controller - ideal for rental and large fixed installations
| Pixel capacity: 2.3 million pixels | Input resolution: 1920 x 1200, 2048 x 1152, horizontal and vertical resolution is freely customisable max. 2560 x 960 or 1536 x 1536 | Video interface: DVI-I and HDMI In (configurable as backup), DVI-I and HDMI out (control monitor and / or second controller) | Management interface: USB 2.0 (type B) | LED screen outputs: 4x CAT (RJ45) Freely configurable output (backup) | Internal power supply | Brightness sensor via Multifunction Card | UART in / out for cascading controller | Audio interface: 3.5 mm mini jack for audio transmission via CAT cable | Easy configuration and extensive monitoring capabilities via free NOVA LCT- Mars Software | Screens can be easily configured via front LCD and rotary push encoder without a PC
NovaStar VX4S

Controller and scaler in one device | Pixel capacity: 2.3 million pixels | Input resolution: 1920 x 1200, 2048 x 1152, horizontal and vertical angle resolution are freely customisable max. 2560 x 960 or 1536 x 1536 | Video inputs: DisplayPort, HDMI, SDI, 2x VGA, 2x composite | Video outputs: DVI Loop, SDI Loop, DVI-I and VGA monitor out (control monitor and / or second controller) | Management Interface: Ethernet (RJ45) and USB 2.0 (Type B) | LED screen outputs: 4x CAT (RJ45) Freely configurable (backup output a line) | Internal power supply | Brightness sensor via Multifunction Card | Controller cascading via Ethernet or USB 2.0 (Type A) | Easy configuration and extensive monitoring capabilities via free NOVA LCT- Mars Software | One click scaler setup, automatic setup to configured screen resolution | Comprehensive transition effects between input sources | PIP freely configurable | Screens can be easily configured via front LCD and rotary push encoder without a PC

NovaStar NovaPro HD Controller

Controller and scaler in broadcast quality | Pixel capacity: 2.3 million pixels | Input resolution: 1920 x 1200, 2048 x 1152, horizontal and vertical angle resolution are freely customisable max. 2560 x 960 or 1536 x 1536 | Video inputs: 3G SDI, DVI-I, HDMI, VGA, DisplayPort and composite | Video outputs: DVI Loop, SDI Loop, DVI-I and HDMI Monitor out for control monitor and / or second controller | Management Interface: Ethernet (etherCON) and USB 2.0 (Type B) | LED screen outputs: 4x etherCON (CAT) and optional 4x LC Fiber Interface freely configurable (backup output a) | Internal power supply | Brightness sensor via Multifunction Card | Controller cascading via Ethernet or USB 2.0 (Type A) | Easy configuration and extensive monitoring capabilities via free NOVA LCT- Mars software and integrated web interface | One click scaler setup, automatic setup to configured screen resolution | Comprehensive transition effects between input sources | PIP freely configurable | Screens can be easily configured via front LCD and rotary push encoder without a PC

For more product details please visit www.ledcon.de
Video scaler Venus X1

Entry video scaler with professional features and optional expandability | Video scaler and switcher in one unit | Minimal input lag | Video inputs: DVI-I, HDMI, VGA, 3G-SDI, Composite, Additional inputs with optional expansion cards | Video outputs: 2x DVI (configurable), 1x VGA, 1x SDI Loop | Freely customisable EDID Management | Easy configuration via LCD and rotary push encoders | Remote control and configuration with iOS app or Windows Software | Remote control via RS232, USB and TCP/IP | PIP and split screen mode (Single Machine Splicing) | Crossfade between sources with fade times and effects | Test image generator | Memory for 36 presets

Video scaler 582FS

The professional Video Scaler in broadcast quality | Video scaler and switcher in one unit | Video inputs: DVI-D, HDMI, DisplayPort, VGA, 3G-SDI and 2x Composite | Video outputs: 4x DVI, 1x DisplayPort, 1x VGA (configurable), 1x SDI Loop | Freely customisable EDID Management | Input resolution up to 4K | Easy configuration via LCD and rotary push encoders | Convenient remote control and configuration with Windows software | Remote control via RS232, USB and TCP/IP | PIP and split screen mode (Single Machine splicing + Multi Machine Splicing) | POP with definable Colorkeyer | Crossfade between sources with fade times and effects | Hot Backup Configuration | Test image generator | Memory for 10 presets
Stacking
Get yourself the perfect base

With the LEDCON stacking systems for your LEDCON LED display, you can be sure that your display installations are installed professionally and robust. For some rental products we can offer you also a stacking that is fulfilling all the special requirements of our curved products.

Features

• Low transport volume
• Light
• Quick installation
• Tool-free assembly
• Undetectable parts
• Low installation depth
• Retractable feet
• 2.50 meters height without any additional outriggers
• Curved
Optical fiber

According to CAT specifications the CAT signal Cables of an LED display are not permitted to exceed a length of 100m. In the event industry distances of more than 100m between the production control room and the LED display are not untypical.

With our fiber optic System this is not a problem anymore: The Video signal can be transferred several hundred meters wide with a fiber optic cable. The CAT signal is fed from the controller into the first converter, which converts the signal to a fiber optic signal. The fiber optic signal is passed via a fiber optic cable to the second converter. The second converter transforms the fiber optic signal back to a standard CAT Signal, from this point the Video signal can be fed into the LED Display using a standard CAT / etherCON cable. The LED Controller will remain close to the production control room and all controlling and monitoring features will stay right at your side.

Some Models of the LEDCON LED controllers can be additionally equipped with fiber optics ports. The converters are then integrated into the controller and only additional converters are required in the vicinity of the LED display.

The LEDCON fiber converters can be supplied with FIBERFOX or opticalCON connectors, if needed. This will give you the ability to use the “standard” fiber optic connectors and cables also for your LED Display.