



LEDCON EQUIPMENT

All about Controlling



NOVA STAR Controlling powered by LEDCON



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.

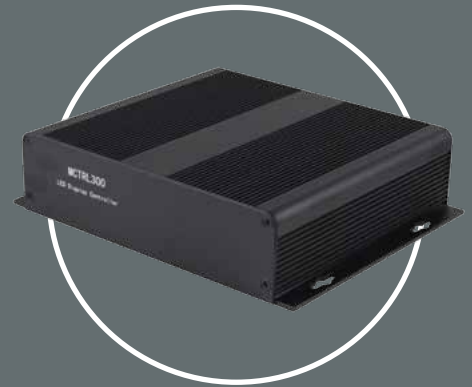
In combination with our intuitive LEDCON configuration software you have the tools to utilize the full potential of your LED display.

Nova Star Controlling

	NovaStar MCTRL 300	NovaStar MCTRL 660	NovaStar VX4	NovaStar VX4S	NovaStar PRO HD	NovaStar MCTRL 4K
Controllerart	Basis	Standard	Contoller und Scaler	Contoller und Scaler	Contoller und Scaler in Broadcast-Qualität	Contoller in UHD
Pixel- Management	1.3 Mio. Pixel	2.3 Mio. Pixel	1.3 Mio. Pixel	2.3 Mio. Pixel	2.3 Mio. Pixel	8.3 Mio. Pixel
Eingangs-Auflösung	1920 x 1200 2560 x 960	1920 x 1200 2560 x 960	1920 x 1200 2560 x 960	1920 x 1200 3840 x 596	1920 x 1200 3840 x 596	3840 x 2160 7680 x 1080
Video-Eingänge	DVI-I	DVI-I, HDMI	Display Port, 2x CVBS, 3xVGA, DVI, HDMI	DisplayPort, DVI-I, HDMI, SDI, 2x VGA, 2x Composite	3G SDI, DVI-I, HDMI, VGA, DisplayPort und Composite	HDMI 2.0, DisplayPort, 2x Dual Link DVI
Video-Ausgänge	-	DVI Loop	Monitor DVI und VGA Out	DVI Loop, SDI Loop, Monitor DVI-I und VGA Out	DVI Loop, SDI Loop, Monitor DVI-I und HDMI Out	-
Helligkeitssensor	Schnittstelle	über Multifunction Card	über Multifunction Card	über Multifunction Card	über Multifunction Card	über Multifunction Card
Controller Kaskadierung	über Serial Port	über CAT	über Ethernet oder USB 2.0 (Typ A)	über Ethernet oder USB 2.0 (Typ A)	über Ethernet oder USB 2.0 (Typ A)	über Ethernet oder USB 2.0 (Typ A)
Einfache Konfiguration	über kostenlose NOVA LCT-Mars Software	über kostenlose NOVA LCT-Mars Software	über kostenlose NOVA LCT-Mars Software	über kostenlose NOVA LCT-Mars od. Smart LCT Software	über kostenlose NOVA LCT-Mars od. Smart LCT Software	über kostenlose NOVA LCT-Mars od. Smart LCT Software

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 VX4 / 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) | Remote control via DMX 512 | Genlock in and out for frequency and phase synchronization | Internal power supply | Light sensor via Multifunction Card | Controller cascading via Ethernet or USB 2.0 (Type A) | Audio Interface: 3.5mm mini jack for audio transmission via CAT cables | 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

NovaStar MCTRL 4K

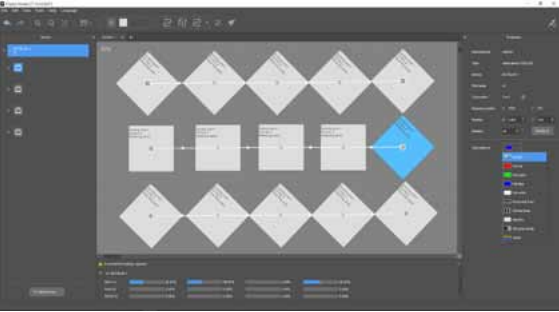
The professional controller for the 4K UHD era | Fully compatible to Phobos Controlling System | Pixel management: 8.3 million pixels | Input resolution: 3840 x 2160, 7680 x 1080, horizontal and vertical angle resolution are freely customisable max. 7680 horizontal or 3840 vertical | Video interface: Displayport 1.2, HDMI 2.0 and 2x Dual Link DVI | Management Interface: Ethernet (etherCON) and USB 2.0 (Type B) | LED screen outputs: 16x CAT (RJ45) freely configurable (Backup or line), optional via 10Gb optical fiber with CVT4K media converter | Internal power supply | Remote control via Art-NET | Brightness sensor via Multifunction Crad | Genlock In/ Out for Controller synchronising | Controller cascading via Ethernet or USB 2.0 (Typ A) | Easy configuration and extensive monitoring capabilities via free NOVA LCT- Mars Software and integrated web interface | Screens can be easily configured via LCD and rotary push encoder without a PC



NovaStar CVT4K-S

Media converter matching the MCTRL 4K Controller | Input: 4x 10Gb Singlemode oder Multimode- 2x main and 2x redundancy line | LED screen outputs: 16x CAT (RJ45) freely customizable (Backup or line) | Two internal redundant power supplies | Management Interface: Ethernet (etherCON) and USB 2.0 (Type B) | Indicator LEDs for each port on the front | Easy configuration and extensive monitoring capabilities via free NOVA LCT- Mars Software





NovaStar MCTRL R5 Controller

Controller 2.0 with LED panel rotation | Fully compatible to Phobos controlling system | Pixel capacity: 4.2 million pixels | Input resolution: max. 3840 x 1080, horizontal and vertical angle resolution are freely customisable max. 3840 horizontal or 3840 vertical | Video interface: 6G SDI, HDMI 1.4, and Dual-Link DVI | Management interface: Ethernet (etherCON) and USB 2.0 (Type B) | LED screen outputs: 8x CAT (RJ45) freely configurable (backup output a) or 10Gb Optical Port | Internal power supply | Light sensor via Multifunction Card | Genlock In/ Out for Controller synchronisation | Controller cascading via Ethernet or USB 2.0 (TypeA) | Easy configuration and extensive monitoring capabilities via free NOVA LCT- Mars software and Smart LCT software | creens can be easily configured via front LCD and rotary push encoder without a PC

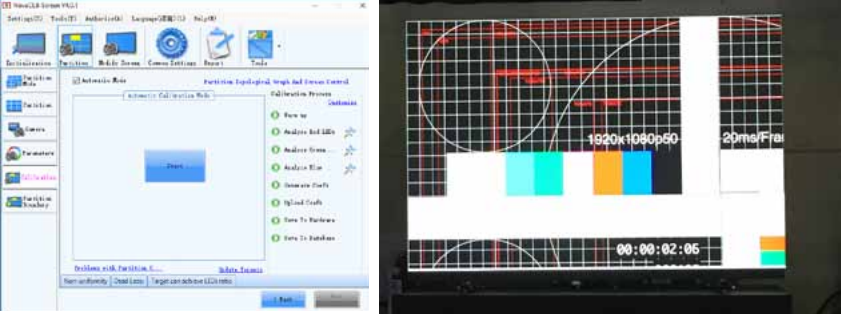


Phobos Controlling System / Armor Receiving Cards

The next Generation of Video Controlling System
- The Highend Controlling for Rental Use

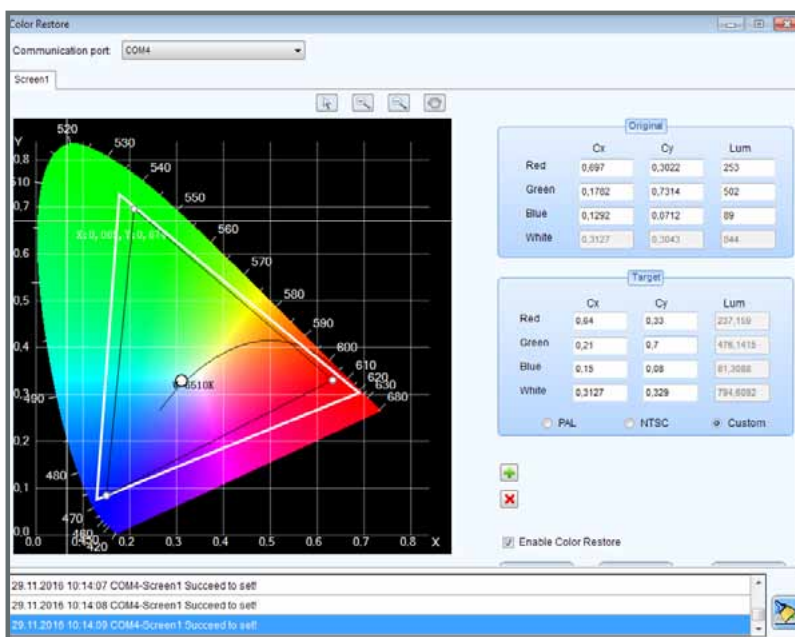
- New space-saving form factor: S0-Dimm for easy handling and service friendly construction
- Integrated detection of pixel errors, no separate monitoring card needed
- Extended backup functions: dual card operation | power supply backup
- 18 Bit color depth- greyscales can be displayed detailed even at low brightness
- NovaStar ClearViewTechnology for high-contrast and improved image display
- All-in-one - no missing USB sticks or sata
 - RCFG file restore- standard receiving files for modules are unchangeably stored on the receiving card and can be loaded at the push of a button
 - Firmware Copying - customized module firmware is stored on the receiving card and can be copied to the new receiving card of another module
- User-friendly Smart LCT software, realize creative set designs with just a few clicks | Cross-Platform: Mac and Windows | Complete offline editor





NovaStar CLB Screen Calibration

The calibration package from a single source | Uses standard camera technology, from Canon D70 and on | Partial automated setup: exposure time, aperture opening and display brightness are automatically matched | Fully automated calibration process: image recording, image analysis, calculation of the calibration coefficient, uploading of the coefficients happens automatically | Calibration of standard displays, curved displays and special forms | After exchange of pixel cards only the new pixel card needs to be calibrated | Bright and Dark Line Adjustment: bright and dark lines on the module borders are corrected automatically during the calibration



NovaStar CVT 310, CVT 320 and CVT Rack

Optical Fiber converter for distances of more than 100m | CVT 320 Singlemode up to 15km | CVT 310 Multimode up to 300m | No configuration needed | Single mode or multi mode | Standard Gigabit format conversion | Outputs: 1x Cat RJ45 and 1x LWL LC | Integrated power supply | Indicator LEDs for TX and RX for easy control | Rack System for max. 16 CVT converters to 3HE | optionally with FIBERFOX and opticalCON ports



NovaStar Brightness Sensor and Multifunction Box

Automatic brightness control- a must have for fixed installations | Standalone operation without the use of a PC possible | Brightness sensor: housing for outdoor use with standard PG screw connections | no additional power supply necessary | Direct connection to MCTRL 300 Controller or Multifunction Box MFN 300 | Multifunction Box: connection via Cat in signal path or via RS232 | On board temperature and humidity sensor | 8 potential-free switch contacts | 4 Ports for light and temperature sensors | Audio output via 3,5mm jack



LED display made by LEDCON



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.

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.

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.

