MaNima Interface

MaNima Technologies

DATASHEET

MaNima Magnus 2

- Master-Slave function.
- Up to 2 universes
- Easy to configure.
- Update the Firmware with the GUI
- Additional features
- Custom API

Live mode

The MaNima LED interface can send live data with ArtNet to digital LED strips or one or both DMX ports.

Custom API

A custom API makes it possible to let your system communicate with the MaNima LED Interface.

Controlling scenes

The recorded scenes can be started by external inputs, DMX; 4-20mA or 0-10V, UDP and MaNima HMI-touchscreen.

Art-Net

The MaNima LED interface can be controlled via ArtNet V1.4. The interface is easy to find and use thanks to the configurable ArtPoll system.

Standalone mode

In Stand-Alone mode, the MaNima LED interface plays a recorded scene from the SD card. The scene can be recorded through Art-Net according to the WYSIWYG principle.

Easy-to-use GUI

The settings of the MaNima LED interface can easily be changed by a user via the MaNima LED interface configurator.

External inputs

Scenes can be started via external inputs. These are digital inputs or analogue inputs; 4-20mA or 0-10V.

Synchronization

Multiple MaNima LED interfaces synchronize when playing scenes through a master and slave setup.

Multiple protocols at once

Due to the available multiple ports, there is also the possibility of sending different protocols over different ports.

Technical Specifications

Weight	*360 Gr*
Dimensions	*90 x 159 x 58 mm*
Mounting	*Din rail*
IP class	*IP10*
Wiring	*Max. 2.5mm2	14 AWG*
Connectors	*Power: 12-48 VDC terminal connector, Art-Net terminal connector:RJ45 bus, IO port 5-pin input/ Output terminal connector, analogue 6-pin terminal connector, +10 volt terminal connector.*
Input voltage	*12-48V DC 200mA max*
Max. power consumption	*9.6W*
Channels	*1024 Art-Net and/or up to 1024 DMX channels*
Ethernet	*RJ45 compatible, for 10/100 Base-TX Ethernet with Static IP address or DHCP*
Input	*DMX512 (2 Inputs)| Art-Net	MaNima Configurator	5 Digital Inputs	6 Analogue Inputs	UDP	Custom API*
Output	*50+ SPI protocols (supported ICs list)	DMX512 (2 outputs)	SPI (6 outputs)	Art-Net*
Directives	*CE, RoHs*
Operating temperature	*10°C ~ 60°C*
Storage temperature	*10°C ~ 60°C*
Warranty	*5 Years*
Gui	*MaNima Configurator*

SPI Protocols

APA102, APA102_8bit, APA104, APA106, HD107S

BS0901

CX808, CS8812

DM412, DMX

GW6205_400kHz, GW6205_800kHz, GS8208

INK1003

LD1510, LPD6803

MBI6024, MB16120, MY9221, MY9231, MY9291

PC5XS301V0500

SK6812, SK6812RGBW, SK6822, SK8922

SM16703, SM16716, SM16726, SM16904

TM1803, TM1804_400kHz, TM1804_800kHz, TM1809, TM1812, TM1814, TM1914A

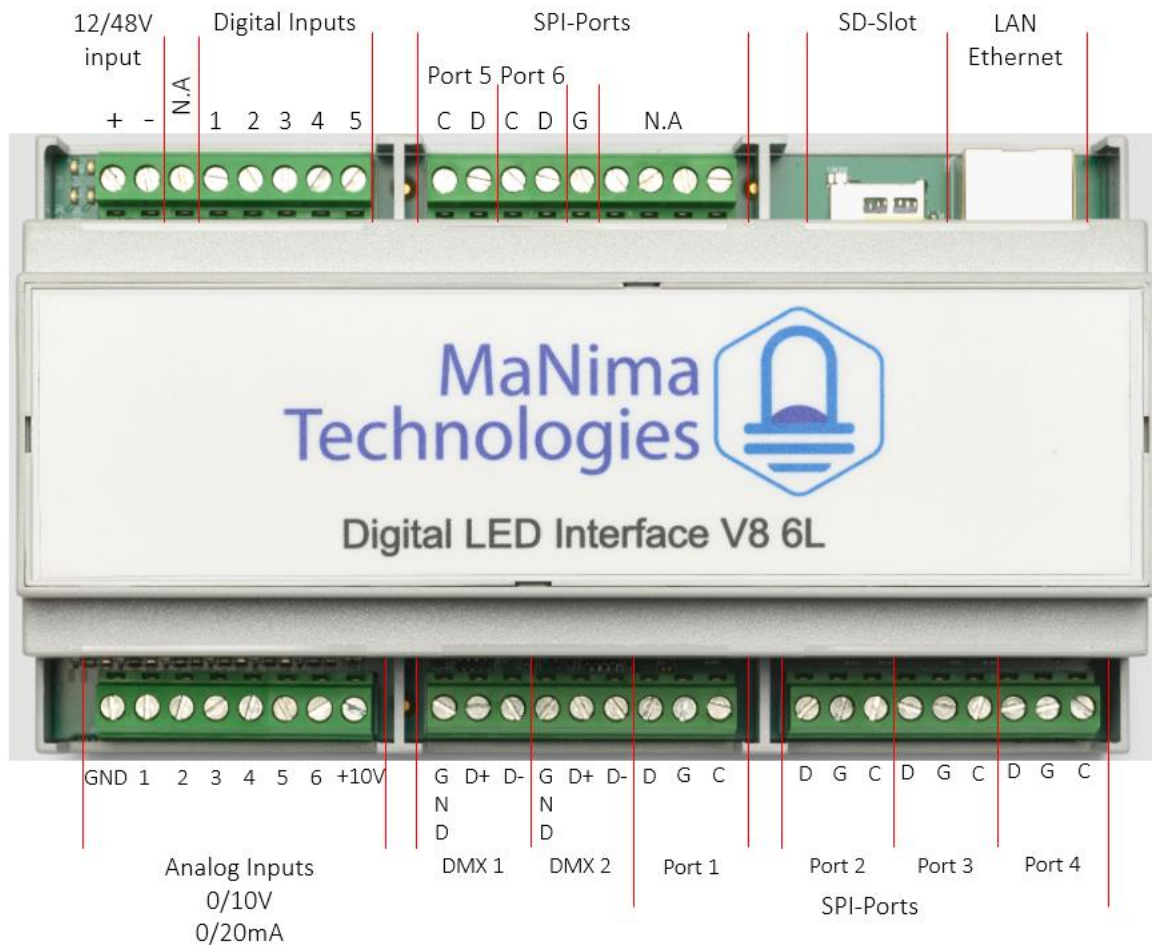UCS1903_400kHz, UCS1903_800kHz, UCS1904, UCS2903, UCS2904, UCS2912, UCS512B3, UCS5603A, UCS8904, UCS9812, UCS8903

WES9412, WES943

WS2801, WS2803, WS2811_400kHZ, WS2811_800kHz, WS2812, WS2812B, WS2812S, WS2813, WS2815, WS2818

Connection Diagram

Descriptions of ports from top left to bottom right:

12/48V Input: Connect 12/48 Volts to this connector. DO NOT make short circuit while doing this, since it will seriously damage the MaNima LED Interface.

Digital Inputs: Digital Inputs are inputs used to control the MaNima LED Interface with voltages between +3,3V and +12V. Inputs can be configured using the 'Inputs' tab.

SPI-ports (1-6): These ports are used as outputs for the Data (D) Ground (G) and the Clock (C). Every port has a D,G and a C output. These ports make sure the LEDs will receive the Digital Signal.

SD-Slot: An SD card can be placed inside this slot. All scenes are recorded and saved here.

LAN/Ethernet: To connect to a network, a LAN or Ethernet cable must be connected to the MaNima LED Interface, using this port.

Analog Inputs: These inputs are used as Analog Channels. The +10V is used for these connections (It can also be used for the Digital inputs).

DMX 1-2: These ports are used for LEDs that need DMX signals instead of SPI-protocols.
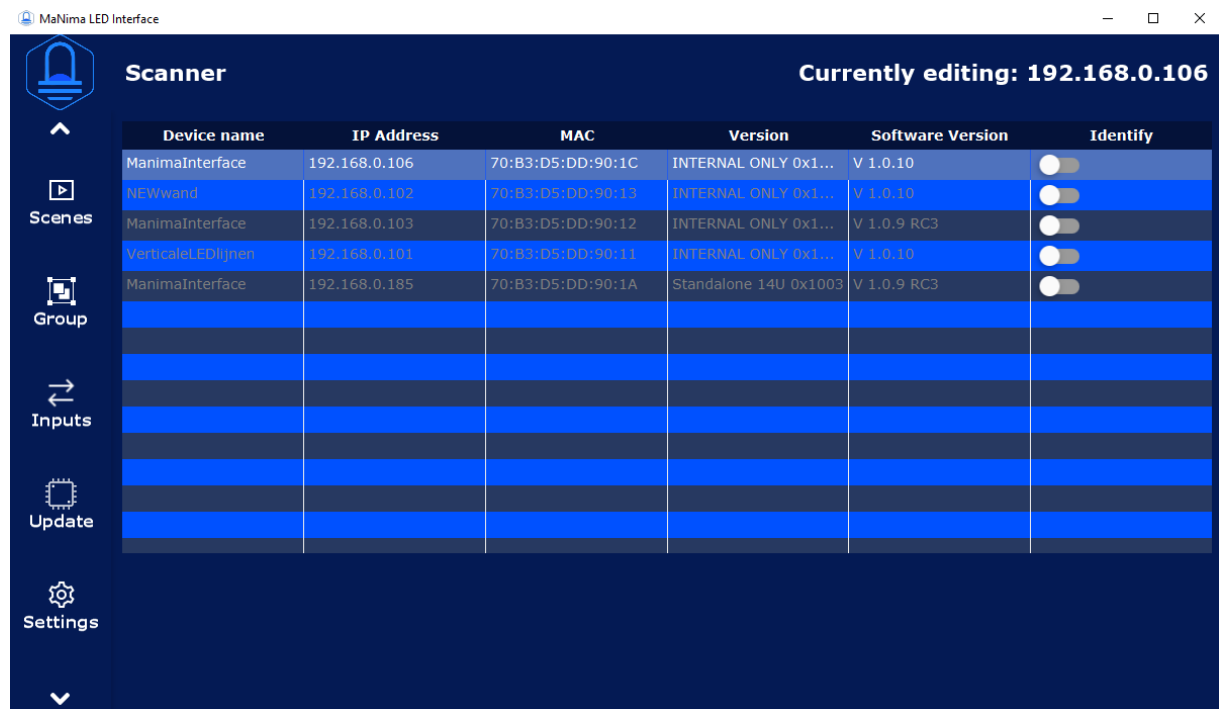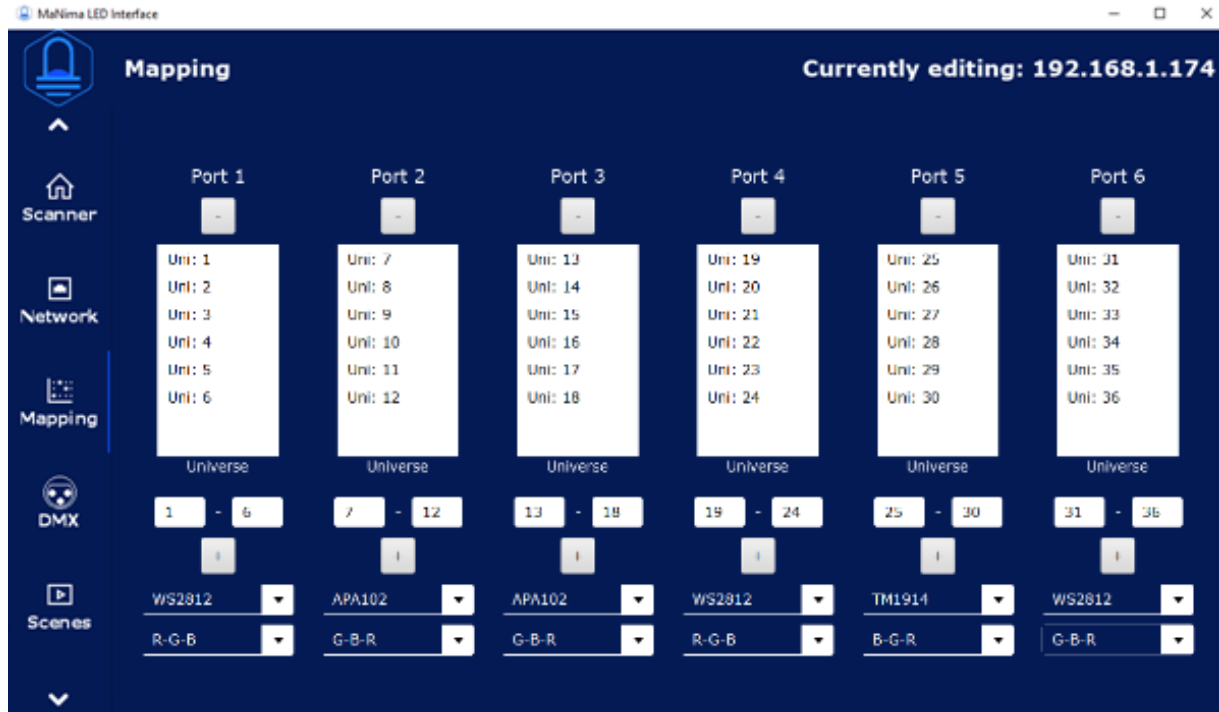
Models

Functions	MaNima Magnus 2	MaNima Magnus 8	MaNima Magnus 14	MaNima Magnus 20	MaNima Magnus 26
Record/Play 2 Universes	✔	✔	✔	✔	✔
Record/Play 8 Universes	✘	✔	✔	✔	✔
Record/Play 14 Universes	✘	✘	✔	✔	✔
Record/Play 20 Universes	✘	✘	✘	✔	✔
Record/Play 26 Universes	✘	✘	✘	✘	✔
Live playing	✔	✔	✔	✔	✔
Stand-alone playing	✔	✔	✔	✔	✔
Autoloop Scanner	✔	✔	✔	✔	✔
Interface Scanner	✔	✔	✔	✔	✔
Network Configuration	✔	✔	✔	✔	✔
Port Configuration	✔	✔	✔	✔	✔
DMX output	✔	✔	✔	✔	✔
DMX Input	✔	✔	✔	✔	✔
Group Configuration	✔	✔	✔	✔	✔
Digital Inputs	✔	✔	✔	✔	✔
Analog Inputs	✔	✔	✔	✔	✔
Digital outputs	✔	✔	✔	✔	✔
Analog outputs	✔	✔	✔	✔	✔
UDP	✔	✔	✔	✔	✔
ART-NET	✔	✔	✔	✔	✔
Ethernet IP	✔	✔	✔	✔	✔
Custom API	✔	✔	✔	✔	✔
Updating through ethernet	✔	✔	✔	✔	✔
SD-Card	✔	✔	✔	✔	✔

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