

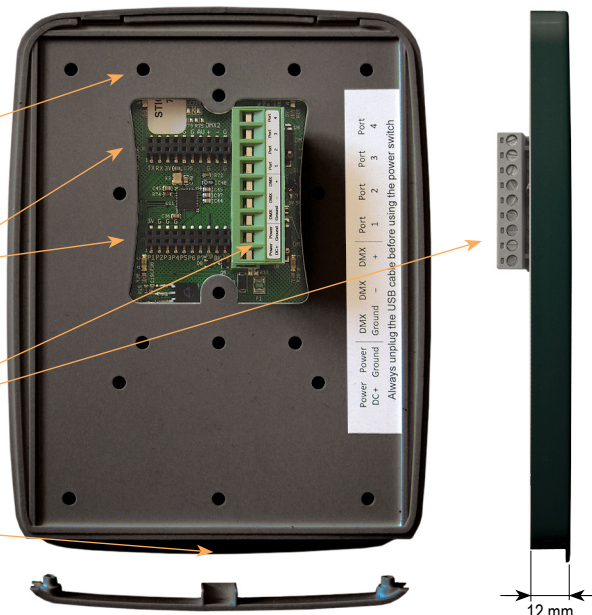
Touch-sensitive user interface

Compatible with any electrical backbox

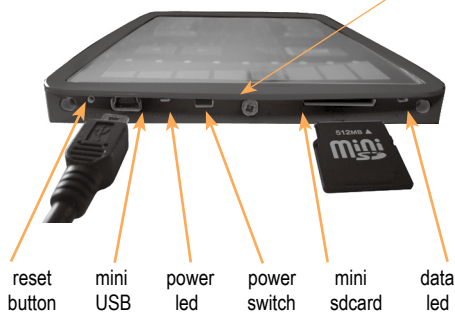
Extension socket rear connectors (2x20 pins)

Screw-terminal rear connector (9 pins)

Front access connections (open cover)



12 mm



Always unplug the USB cable before using the power switch

Package	Interface, sdcard, manual, cdrom, usb cable, power supply
PC requirement	Computer using Windows XP/VISTA 32 bits and USB 2.0
Software	Included : ESA (easy stand alone), ESA PRO and TOOLS
Options	Dedicated remote control (*), Ethernet extension (*)
Standards	EC, EMC, ROHS, ETL, UL (some are in process)
Image size	Standard 150x110mm picture
Temperature	-10°C to 50°C
Dimensions	168x128x11,5 mm Complete package 250x150x55 mm
Weight	0,2 kg 0.44 lbs Complete package 0,6 kg 1.32 lbs

SPECIFICATIONS / CONNECTIONS		Built-in features	screw-terminal rear connector (9 pins)	extension socket rear connectors (2x20 pins)	front access connections (open cover)
Power Supply	9V DC 0.65A, supplied		•		power switch
DMX Output #1	First universe, 512 channels DMX512 output		•	•	
DMX Output #2	Second universe, 512 channels DMX512 output (*)			•	
USB	USB 2.0 communication for PC/software				•
Ethernet	Advanced networking features (*)			•	
Ports 1,2,3,4	4 Contact closure inputs, connect to ground for operating		•	•	
Ports 5,6,7,8	4 Contact closure inputs, connect to ground for operating			•	
User interface	14 buttons, 1 fader, 28 leds (Touch-sensitive keypad)	•			power/data leds
SDCARD	Mini sd card for stand alone memory use (supplied)				•
RESET	Push button for reset operation				•
RS232	RS232 Serial communication for external synchronisation			•	
Output relay	Automatic Stand by 5V signal			•	
Clock	Real time clock and calendar, 10 minutes saving without power	•			
Infrared receiver	Easy learning triggering from any 36Khz remote control	•			
Microphone	Built-in microphone for sound to light effect (*)	•			
Audio input	Audio input for sound to light effect (*)			•	

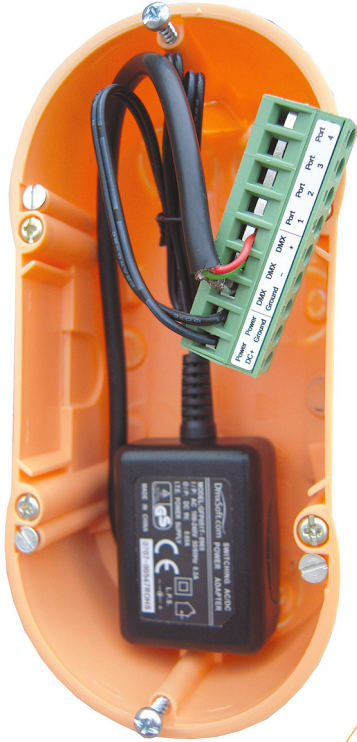
(*) Available by middle of 2009 , Some future features just need a firmware upgrading.

EASY INSTALLATION

PORT 1,2,3,4 : If your application need to have some external contact closures, make the contacts between the ground and the ports

1. Mount an electrical box inside the wall

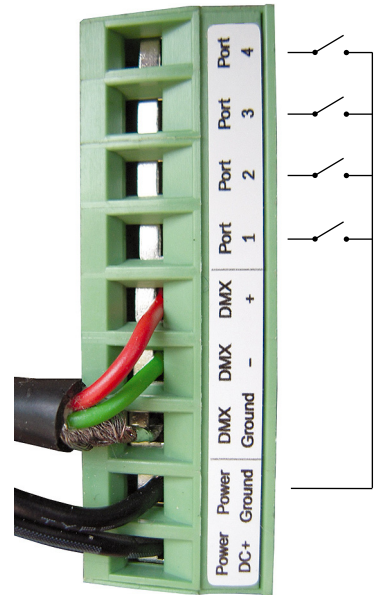
The MBNLED TOCH CONTROL MEMO controller can be installed in any standard electrical backbox. If you use a double size box, you can insert the power supply inside.



2. Connect the wires

DMX: Connect the DMX cable to the lighting receivers (Leds, Dimmers, Fixtures..) (for XLR: 1=ground 2=dmx- 3=dmx+)

POWER: Connect a 9V DC 0.65A. Be sure to not invert the + and the ground.

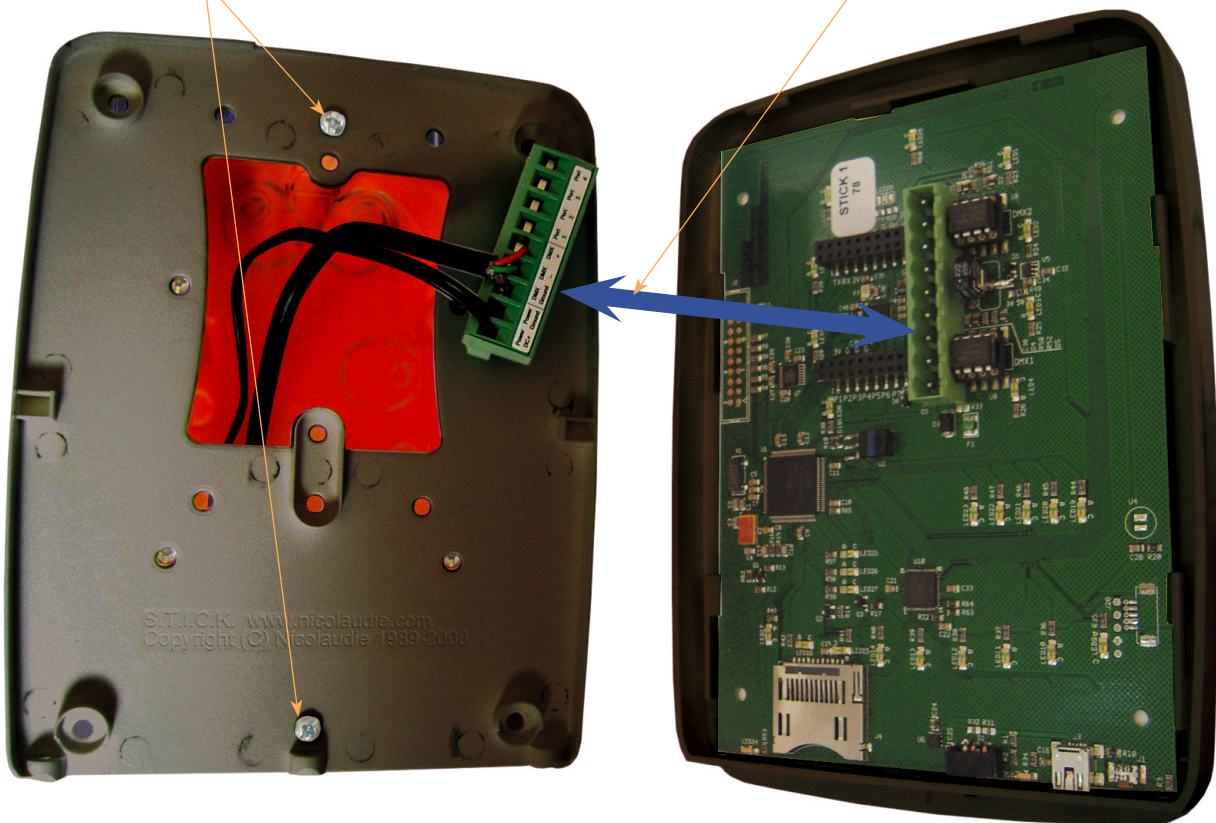


3. Mount the interface on the wall

First, mount the back side of the interface on the wall with 2 or more screws

Secondly, plug the 2 connectors (see blue arrow)

Then, close the interface, using one screw



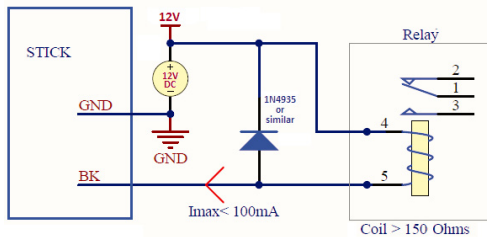
EXTENSION connectors

2x20 pins connections

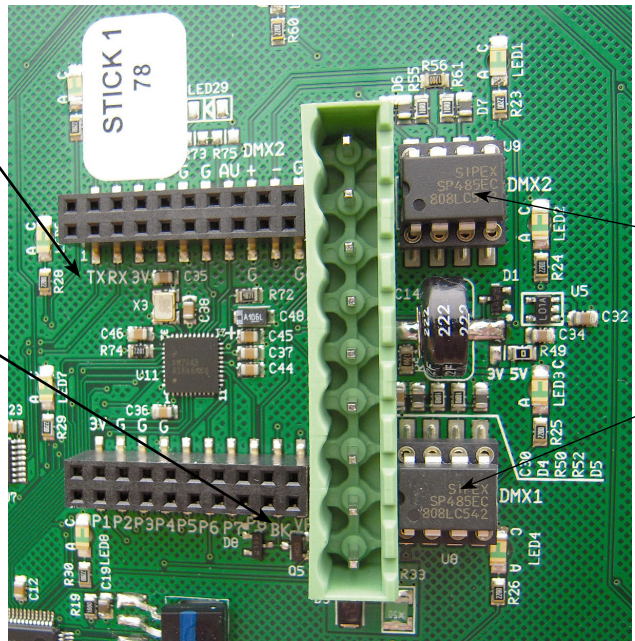
RS232 make a 3 pins cable
Use TX, RX and G (GND)

PORTS 1 to 8 make contacts
between G (GND) and P1..P8

BLACKOUT connect a relay
using the 2 pins : BK and G (GND)



Example of relay : FINDER Ref. 22.23.9.012.4000
<http://www.findernet.com/fr/products/profiles.php?serie=22&lang=en>



You can easily
replace DMX
CHIPS

DMX
universe #2

DMX
universe #1

Ref:
SP485ECP-L
MAX485CPA+
ADM485JNZ

RS232 trigerring

Make a cable using the 3 pins : TX, RX and G (GND)

Set the RS232 parameters to : 9600bds 8 bits, no Parity, 2 Stop bits

- To play a scene, send 3 bytes : **1 x 255** (x = scene number)
- To stop a scene, send 3 bytes : **2 x 255** (x = scene number)
- To pause a scene, send 3 bytes : **3 x 255** (x = scene number)
- To release a pause, send 3 bytes : **4 x 255** (x = scene number)
- To reset a scene, send 3 bytes : **5 x 255** (x = scene number)

Note: the scene number (x) can be from 1 to 40. For instance, 11 means Page B Scene #3

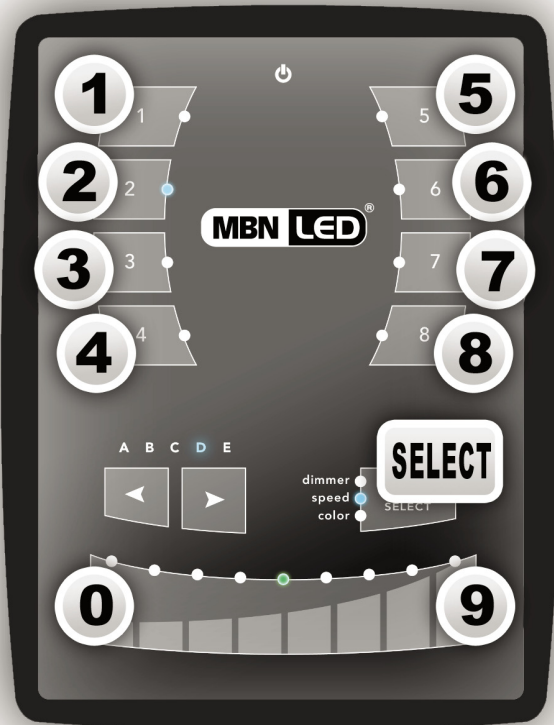
ETHERNET trigerring

Advanced networking features will be available by middle of 2009.

SOFTWARE and LINKS

For software updates and manuals please visit www.mbnled.com or www.nicolaudie.com.

Some functions are available directly from the MBNLED TOUCH CONTROL MEMO keypad using the SELECT button.



! WARNING

= 3:30pm
 3:30pm = 15:30
 15:30 = **1530**

= 5 DEC 2008
 5 DEC 2008 = **051208**

SELECT + 1	View time	Example : view 2:45pm = 14:45 = 1445 1445 = 2:45pm (USA) or 14:45 (Europe)
SELECT + 2	View date	Example : view 6 SEP. 2009 date = 060909 060909 = September 6th 2009
SELECT + 3	Set time	Example : set 3:30pm = 15:30 = 1530 1 5 3 0 = 1530
SELECT + 4	Set date	Example : set 5 DEC 2008 date = 051230 0 5 1 2 0 8 = 051208
SELECT + 5	Set Fade time	Example : set 01'32" fade time = 1 minute and 32 seconds = 0132 0 1 3 2 = 0132
SELECT + 9	Set IR	Example : assign an IR key to Scene #2 2 +
SELECT + 0	Firmware version	Example : view 1.02 firmware version = 0102 0102 = firmware version 1.02