

I+D LED in partnership with Iluxstudio present RGB digital panels. Dynamic by nature, these modules are able to reproduce any vibrant and imaginable plot of shapes, color changes, objects, videos and more... The panels are extremely easy to connect and assembly to each other due to its simple and modular design. Easy box makes possible to build vertical and horizontal decorative separations, and even with the 60x60 model, as replacement for ceiling panels of different sizes. The module works with SELV voltage. The panels are available with different diffusers, in with black or white finish to achieve more elegant options.



In compliance with:  
**EN 60598 : 2015**

#### APPLICATION



#### PRODUCT DESCRIPTION

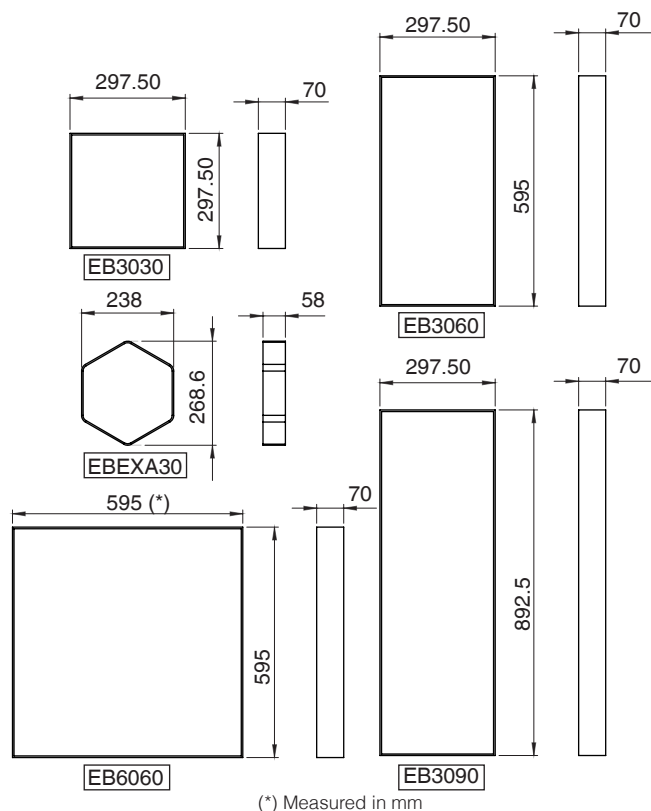
- Enormous number of possible applications
- Easy and fast connection
- Wire to wire connectors
- Possibility of modular forms
- Video reproduction
- Compact design, only 70 mm high
- SELV voltage 5-12V
- Dynamic illumination
- Controlled by PC or pre-installed programs



### TECHNICAL DATA

- SELV voltage
- Available 60 LED/m and more than 256 pixels per module
- Operating temperature between -20°C and +45°C
- EN 61471:2008 group 1
- Standard Tc 55°C
- Viewing LED angle 120°-160°
- Weight 2,5 Kg/m2
- MOQ 10 units
- Adjustable y programmable by MADRIX – SPI DMX 512 protocol

### DIMENSIONS



### SPECIFIC TECHNICAL DATA

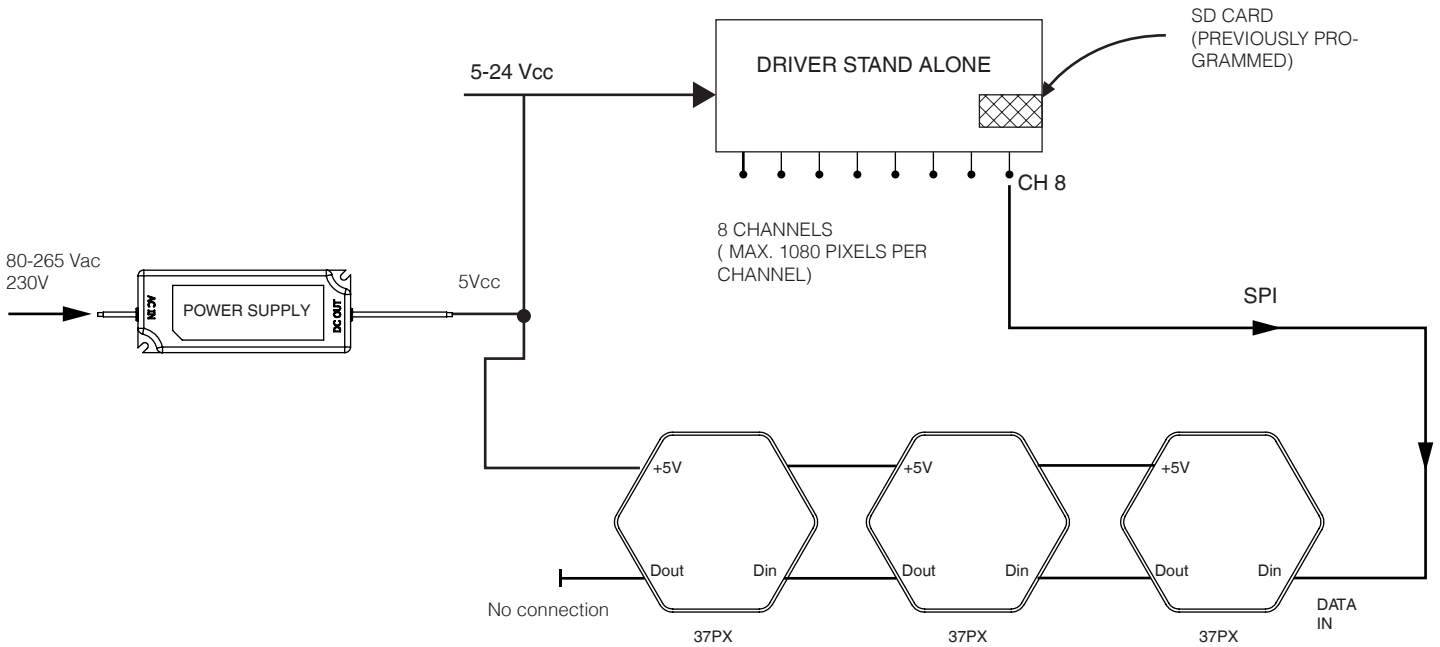
#### SPECIFIC TECHNICAL DATA

CODE	VOLTAGE (V)	POWER (W)	PIXELS RGB	TEMP AMB (°C)	DIMENSIONES (mm)	BODY COLOR	IP	DIFUSOR
31.65.EB3030	5	19,5	64	1-45	297,5X297,5X70	AL BLACK	20	WHITE
31.65.EB6060	5	77	256	1-45	595X595X70	AL BLACK	20	WHITE
31.65.EB3090	5	57,6	192	1-45	892,5X297,5X70	AL BLACK	20	WHITE
31.65.EB3060	5	38,5	128	1-45	297,5X595X70	AL BLACK	20	WHITE
31.65.EBEXA30	5	19,5	37	1-45	270X240X70	AL BLACK	20	WHITE
31.65.EFLEX_122020	12	14,5	20	1-45	5000X10X4	WHITE	20	N/A
31.65.EFLEX_122067	12	14,4	20	1-45	5000X10X4	WHITE	67	N/A

Note: Power values for flexible strips are described per linear metre.  
 For all the versions it is required MADRIX license (not included, which version is determined by the quantity of pixels).  
 For all the devices is it required a pixel and pixel controller (not included) and power supply.  
 MADRIX/DMX programming is not included. Maximum number of drivers depends on the quantity of connected pixels.

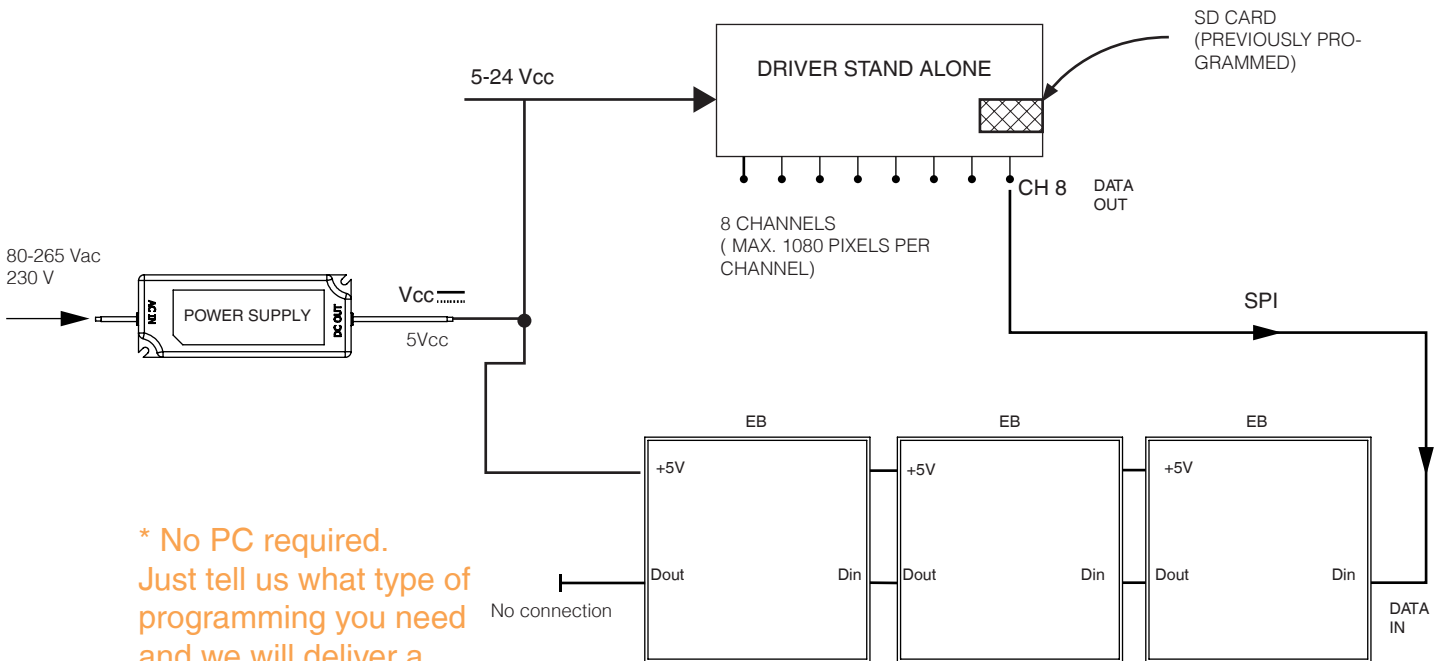


### CONNECTION EXAMPLE - 3 UNITS



### OPERATING MODE

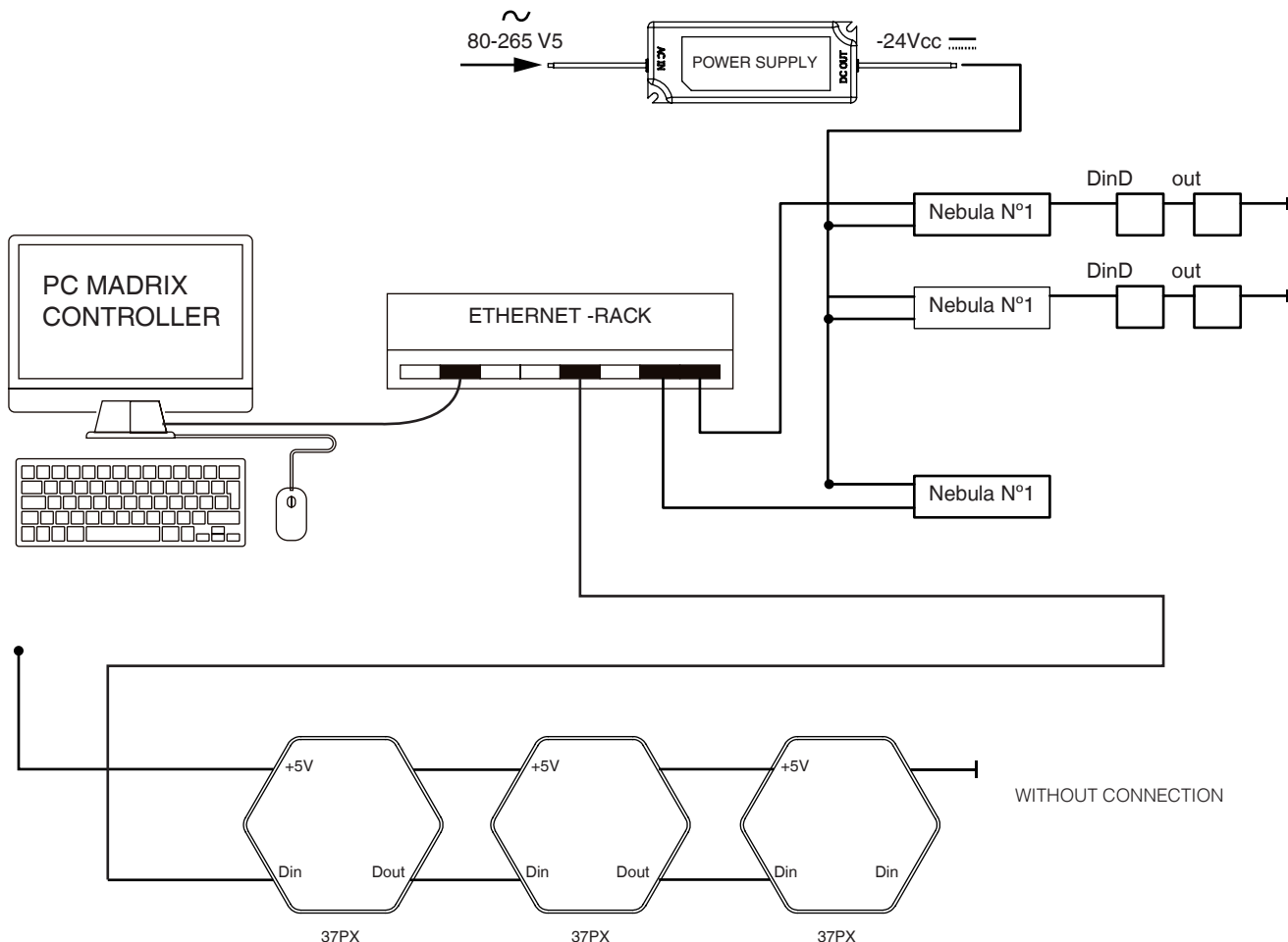
A .“Stand Alone” applications, simple and semi-professional



**\* No PC required.**  
 Just tell us what type of programming you need and we will deliver a programmed SD card.



B . Professional applications



\* For professional applications of dynamic programming and high quantity of pixels it is required some controllers, PC's and licenses. Let us know about you project, and we will give you a suitable and complete advise!



## SECURITY AND INSTALLATION INFORMATION



### ELECTRICAL POWER

EASY BOX RGB must be feed at constant current; the energy source power must be in accordance with the quantity of connected modules for proper functioning of the module (or group of modules). EASY BOX RGB has polarity, for this reason rated current, nominal power and polarity must be taken into account. If that is not the case, the module might be irreversibly damaged. EASY BOX RGB require specific driver protection against short-circuit currents, temperature raise and overloads.



### ISOLATION

EASY BOX RGB functions with SELV voltage, does not require active isolation of the component as long as maximum reference SELV voltage is not exceeded. In other case, it will be mandatory earth connection on all conductive components of the fixture or light engine when the number of modules in the series exceeds SELV voltage. The driver must be in compliance with CE, UL or valid analogous regulation.



### ESD – STATIC ELECTRICITY INFORMATION

EASY BOX RGB contains electronic components which are very sensible to static electricity. In this respect is it highly recommendable to always manipulate the items with appropriate ESD protection, and take adequate measures for safety matters. If you need further information please refer to our webpage [www.idled.eu](http://www.idled.eu).



### MOUNTING AND INSTALLATION

I+D LED S.L. is not responsible for the installation of the product. EASY BOX RGB must be perfectly placed (and/or stick) on the lighting device, profile or base for a proper connection between modules and power source, respecting its nominal values and different connections for the diverse drivers.

If any type of chemical substance is used during the assembly of the luminaire or light engine, it must not have any type of curing by means of gas condensation; as these chemical substances may damage the LEDs and electronic components.

The panels will be supplied with wall /ceiling fastening with a minimum spread of 10 mm. Maximum torque for fixing recommended 0,4-0,5 Nm to avoid mechanical stress. Caution may be taken when placing and connecting the panels, they must be treated carefully. Always avoid mechanical stress, compression stress or superficial voltage stress over the panel or its electronic components. Ideal wire for this connection type is multipolar flexible wire of 0,5-1,5 mm<sup>2</sup> for data wires, and a minimum of 1,5 mm<sup>2</sup> for power supply connection wire, in order to have a maximum voltage of 0,5-V1 in the latest device.



### TEMPERATURE

EASY BOX RGB life-time depends to a great extent on operating temperature. Under no circumstance temperature should exceed the maximum permissible (T<sub>c</sub>=55°C) limit here indicated. Exposure to higher temperatures might affect its long term proper functioning. Room temperature must be measured under worst-case conditions to ensure life-time and keep product's guarantee. Store modules between -20 °C and +80 °C, and at a maximum humidity level of 65%.