CONTROLLER

USB-DMX/RDM

EcoEcco

EcoEcco è una interfaccia USB-DMX/RDM compatibile con lo standard RDM e DMX USITT 1990, EcoEcco è un dispositivo economico rispetto a ECCO, e non è optoisolato galvanicamente, quindi i dispositivi DMX sono connessi alla massa del PC.
EcoEcco permette di comunicare con i dispositivi RDM tramite il software Esuite o Ecco, il collegamento avviene tramite appositi connettori a molla, i segnali sono A e B ed il riferimento di Ground.
Per le modalità operative si fa rifermento ai software Esuite ed ECCO disponibili gratuitamente sul sito Overled.

EcoECCO is for all users of USB/DMX/RDM protocols but economic respect ECCO. is totally compatible with standard RDM 2,0 & DMX USITT 1990. EcoEcco can be powered directly from any PC USB port (Mac too). The hardware of the is robust and economic designed to be handled without any fear of breaking if incidentally dropped. EcoEcco as been designed to facilitate RDM bi-directional communications using DMX protocol.EcoEcco integrates the discovery RDM protocol that identifies all fixtures connected with DMX protocol.

The EcoEcco is also the perfect interface DMX pass-thorugh gear compatible with the majority of all existing world's software

EcoEcco is a non insulated interface, the DMX potencial is connected to USB, take care about insulation before to connect.

Overled®
| What's next? |

Electrical Specification

Power Supply from PC 200mA
DMX USITT compliance
RDM e1.20 Compliance
NO DMX OPTOINSULATION

Hardware Specificaiton for DMX application:

The DMX512 signal is transmitted via the industry standard interface EIA485, more familiarly known as RS485. RS485 is a balanced connection. The standard wiring is a twisted-pair, shielded, low-capacitance data cable designed for RS-485 -- never use standard microphone cable. Recommended cables are Belden 8227, Belden 9156, Belden 43906 (European DMX Cable Version)or can be used OVERLED DMX cable this is compliant with thestandard.

Data is transmitted in serial format asynchronously with the transmission speed of 250 Kbps. Voltage on both pins ("+" and "-") should be between +5 volts and 0 volts (measured to ground). EIA485 defines that the signal voltage between the two wires should be at least 200 millivolts. Higher

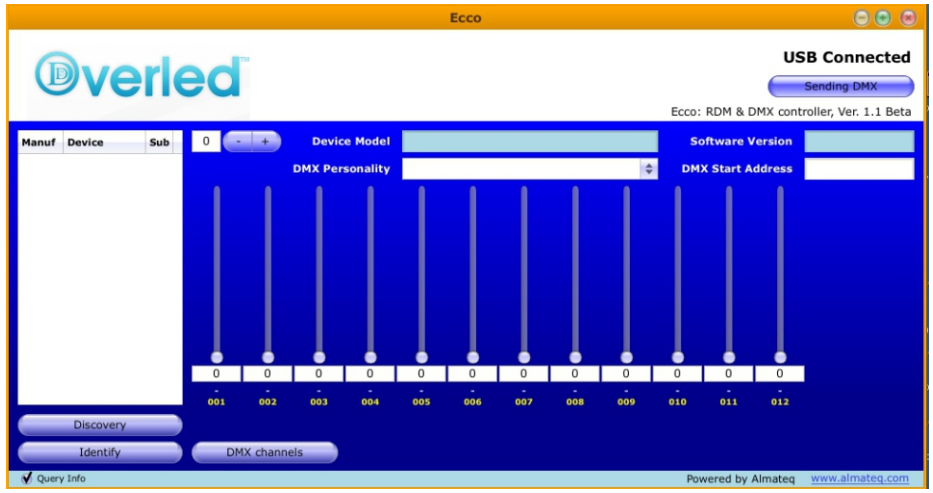
DMX devices such as lights are connected in a daisy-chain MODE: from digital "0". The ground wire is only a reference point and can be used used

the controller to light #1, to light #2, to light #3 and so forth. According to the standard, a DMX512 controller can only drive up to 32 loads (e.g., one light = one load).
To control additional loads (lights), a RDM/DMX splitter(DDS730) needed . The device in the daisy-chain must be terminated by Terminating plugs containing a 120 ohm resistor soldered across pins 2 and 3. The terminator functions is for attenuating signal noise which would otherwise be reflected back into the cable and degrade the data.

USB-DMX/RDM

EcoEcco

Videata del software EcoECCO, **installare il driver di interfaccia USB**,prima di collegare il device poi lanciare il software EcoECCO.exe, la videata da lo stato di connessione o disconnessione della interfaccia, un led bianco posteriore ad EcoECCO lampeggia indicando la presenza della interfaccia, a questo punto selezionare dal menù DMX o discovery dei dispositivi e una lista di device connessi apparirà in una pagina a sinistra del software, selezionando il device trovato con Identify questo lampeggia indicando la sua posizione fisica, poi è possibile scegliere le modalità di funzionamento del dispositivo DMX selezionando le opzioni disponibili, il canale DMX assegnato è modificabile da apposita finestra sulla destra della videata.



EcoECCO software application, **install USB driver** first then click on EcoECCO.exe the software will appear as in the picture, connect EcoECCO and a white led close to USB connector start to blink, this mean the software is running and DMX is in out, also in a PC display USB connected will appear, now click on DMX or Discovery to activate DEVICE discovery, a list will appear on the left of the display with manufacturer and ID of each device, just click on the device found and identify the lamp will BLINK to indicate phisical position of the device, DMX address setting possibile changing value in the

Overled®
| What's next? |

USB-DMX/RDM