

# Quick Start Installation Manual

**EVAstream & Piezo**

**EVAstream & DMX**



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**EVA**stream

## Safety warnings



**WARNING! Switch off all relevant live cables before starting installation.**



**RISK OF ELECTRIC SHOCK OR INJURY. The EVAstream and its control accessories must be installed by a certified electrician in accordance with applicable local rules and regulations. Incorrect installation can cause electrical hazards.**

**CAUTION! Carefully read the separately enclosed document [“Safety instructions mounting & installation EVAstream”](#) before proceeding to mounting and/or installation of the EVAstream and/or associated accessories and controls.**

The EVAstream is a powerful machine. The machine includes a very powerful motor with rotating propeller. Carefully follow the supplied instructions for mounting, electrical installation and use of the EVAstream. Failure or insufficient compliance with these important instructions can result in serious personal injury or property damage. We do not accept any claim under warranty and/or liability for material and/or immaterial damage as a result of non-compliance with these instructions regarding installation, assembly and use.

## Motor Control Unit | DMX Ready

**Important !!! Connect all wiring before connecting to main power 230Vac**

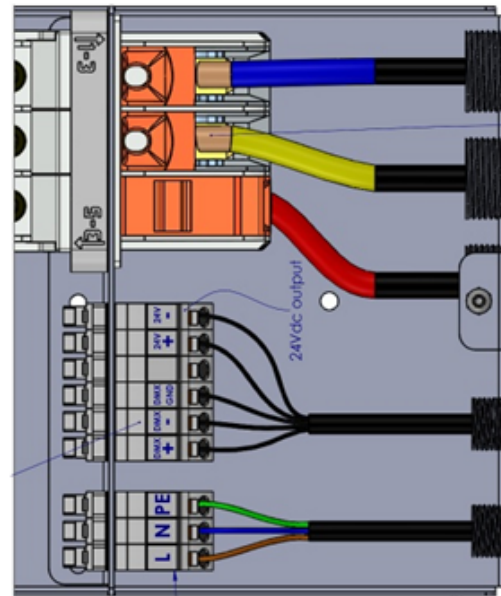
24Vdc output -  
24Vdc output +

DMX input G (shield)  
DMX input -  
DMX input +

PE earth (green yellow)  
230Vac N (neutral)  
230Vac Switched L (Life)

Option for mounting  
DMX controller

Always use power socket to cut off power  
while servicing the engine



EVastream FIT/PRO/MAX engine cable output  
~~DO NOT USE~~ 16mm strip length *use flexible extra fine wire*

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DMX input (optional 24Vdc output)  
Use shielded cable  
(For connecting DMX EVO or DMX Piezo control)

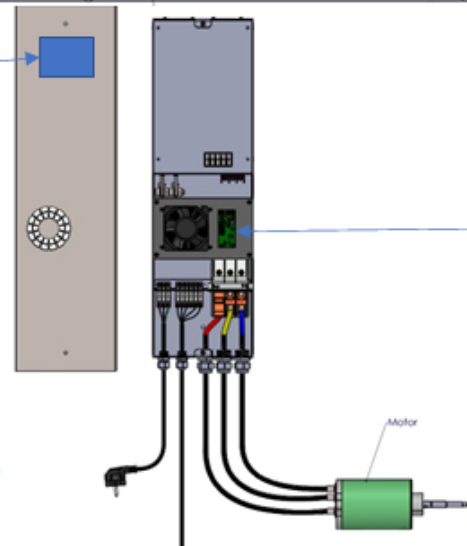
Single phase 16A 230 Vac (switch) power input  
Power consumption model see specs  
Always use RCD <30mA (residual current device)  
Power & emergency stop switch must be installed near the pool

**Important !!! Connect all wiring before connecting to main power 230Vac**

DMX start address dipswitch  
With piezo control start address = 5

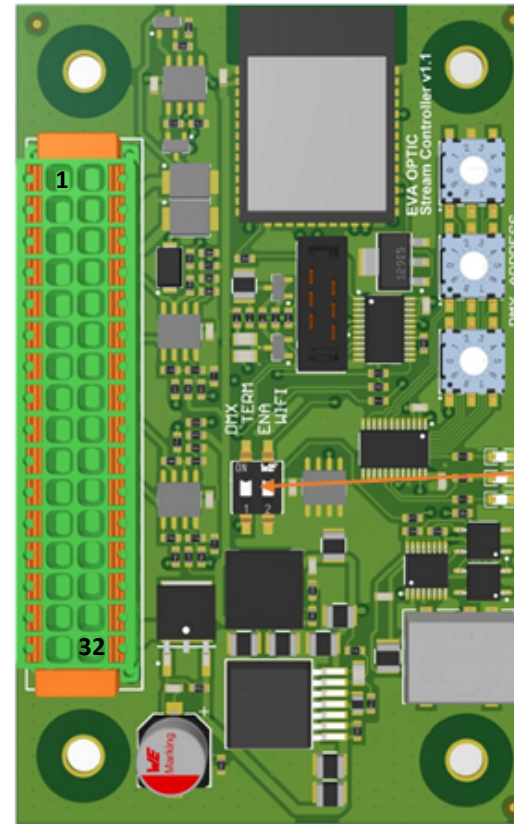
*Picture for illustration purpose only (FIT/PRO)  
EVastream MAX has 2 engines*

Always put engine cable from controller to pool in tube  
Cable extension up to **max. 25m** with 3 x 1 x 25mm<sup>2</sup> (FIT/PRO)  
or 6 x 1 x 25mm<sup>2</sup> (MAX). **Extend with flexible extra fine wire!**



## Piezo Print | Settings

fan 24Vdc	-	1	2	+	fan 24Vdc
ppm output 2	-	3	4	+	ppm output 2
ppm output 1	-	5	6	+	ppm output 1
piezo 4 LED 12Vdc	-	7	8	+	piezo 4 LED 12Vdc
piezo 4 switch	sw	9	10	sw	piezo 4 switch
piezo 3 LED 12Vdc	-	11	12	+	piezo 3 LED 12Vdc
piezo 3 switch	sw	13	14	sw	piezo 3 switch
piezo 2 LED 12Vdc	-	15	16	+	piezo 2 LED 12Vdc
piezo 2 switch	sw	17	18	sw	piezo 2 switch
piezo 1 LED 12Vdc	-	19	20	+	piezo 1 LED 12Vdc
piezo 1 switch	sw	21	22	sw	piezo 1 switch
dmx G (shield)	G	23	24	G	dmx G (shield)
dmx in/out	-	25	26	-	dmx in/out
dmx in/out	+	27	28	+	dmx in/out
24Vdc in	-	29	30	-	24Vdc out
24Vdc in	+	31	32	+	24Vdc out



	Example rotary address 518
Rotary switch 3 (0 - 9)	8
Rotary switch 2 (0 - 9)	1
Rotary switch 1 (0 - 9)	5

1 dmx termistor  
2 not use (optional wifi)

### Master mode: piezo control

DMX in/out goes to EVAstream / UWL (underwater lighting) DMX input

Piezo/switch 4 = stop (reset) outside pool

Rotary (dmx) address 518 = 1 x piezo (1) control in 10% steps + (0, 30, 40, 50, 60, 70, 80, 90, 100)

Rotary (dmx) address 601 = 2 x piezo (1+3) piezo 1 = speed +, piezo 3 = speed -, piezo 1+3 = on/standby. In standby piezo 3 = off

Rotary (dmx) address 901 = 3 x piezo (1+2+3) piezo 1 = speed +, piezo 2 = on/standby, piezo 3 = speed -. In standby piezo 3 = off

Rotary (dmx) address 931 = 3 x piezo (1+2+3). Step 1 = select user (piezo 1 or 2 or 3). Step 2 = select training (piezo 1 or 2 or 3 --> make selection within 5 seconds otherwise step 2 is skipped, automatic proceeding to step 3)

\* In training mode (step 2) piezo 1 = speed +, piezo 2 = standby, piezo 3 = speed -. In standby piezo 3 = off

\* In step 3 (step 2 skipped) piezo 1 = speed +, piezo 2 = standby, piezo 3 = speed -. In standby piezo 3 = off

When using rotary (dmx) address 901/931, connect underwater lighting (UWL) to DMX in/out. Control UWL, see below:

UWL control: piezo 1+3 = switch color, piezo 1+2 = light intensity -, piezo 2+3 = light intensity +

DMX start address (UWL and EVAstream) in master mode: UWL= dmx channel 1, EVAstream= dmx channel 5

### Slave mode: external master (EVO) control

Rotary = dmx address 1-511

PPM output 1-2 to EVAstream motor control

Piezo 1 + 3 is pause

Piezo 1 = dmx value +

Piezo 3 = dmx value -

Piezo 2 = on/off function or place a bridge over sw/sw