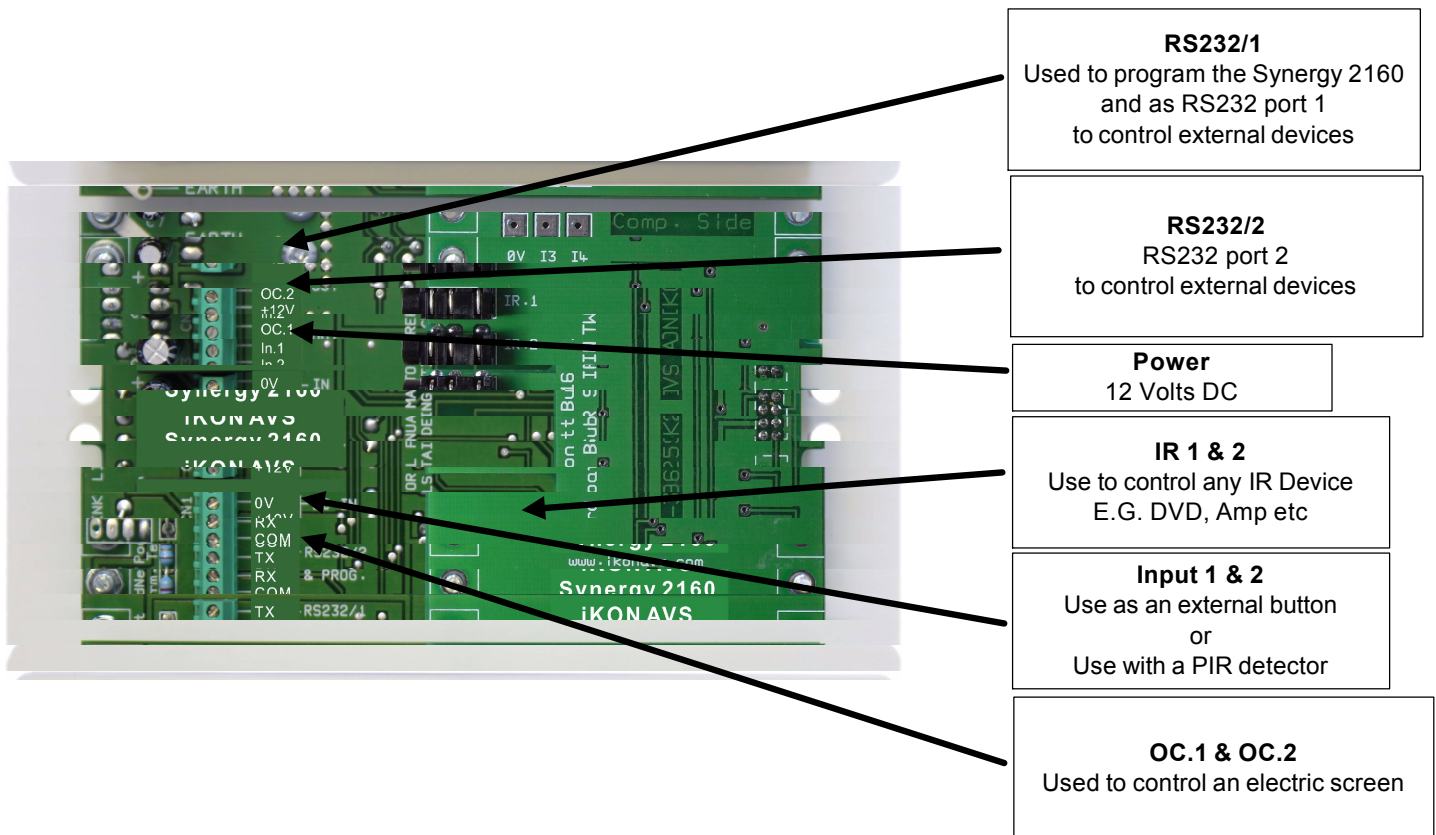# Connecting & Using the Synergy 2160

Installation.

Mechanical installation and connecting of the Synergy should be carried out before any power is applied. Synergy's should not be used in areas of extreme heat or moisture.

Synergy's are designed for mounting into a standard UK back box with a minimum depth of 45mm. Only boxes with horizontal panel mounts should be used. If vertical mounts are fitted these must be removed prior to fitting the Synergy.

Local Connections

Most connections are by screw terminals connectors,
apart from the IR outputs which are 3.5mm jack sockets

Important: Please verify polarity of the DC power supply before powering

RS232/1
Used to program the Synergy 2160
and as RS232 port 1
to control external devices

RS232/2
RS232 port 2
to control external devices

Power
12 Volts DC

IR 1 & 2
Use to control any IR Device
E.G. DVD, Amp etc

Input 1 & 2
Use as an external button
or
Use with a PIR detector

OC.1 & OC.2
Used to control an electric screen

Connections

Power

Synergy 2160	DC PSU
+12V	+Volts
0V	0Volts

RS232/1 & Programming

Synergy 2160 RS232/1	Projector or Display Device	Programming. Computer Serial Port
Tx	Rx	Pin 2
Rx	Tx	Pin 3
Com	Com or Ground	Pin 5

RS232/2

Synergy 2160 RS232/2	Projector or Display Device
Tx	Rx
Rx	Tx
Com	Com or Ground

Screen Relays

Synergy 2160	SPC-PP1
OC.1	RAISE
OC.2	LOWER
+V	+V

Please note:
Screen Relays Connection are to be connected to external relays for control of an electric screen, like the SPC-PP1 unit. **Do not connect these connections directly to the electric screen**.

Inputs

Synergy 2160	
Input 1	**Input 2**
IN.1	IN.2
0V	0V

Please note:
Inputs 1 & 2 are for external switches, key switches and PIR Detectors relay outputs.
Do not connect any voltages to these inputs.

IR Outputs

Synergy 2160		IR Emitter
IR1	**IR2**	
+	+	+ (Tip)
-	-	- (Ring)

Programming Please refer to separate instructions for programming using either PodFlow or Pod Download.