



Introducing V.A.C.S (Visual alert control system) partnership using LED strips developed by X-Glo north America and a LED controller developed by FiComm Technologies.

LED strip lighting is quickly becoming a standard for mining and tunneling operations. Favoured for very bright uniform lighting, low energy consumption and long life expectancy.

FiComm increased the safety factor by allowing control of the LED strips by the mines existing infrastructure & control system. Changing colours, flashing and direction chase can be achieved over the mines existing network infrastructure (ethernet, Wi-Fi and LTE).

SQL database or MODBUS tcp adds flexibility allowing it to connect to existing control, HMI/SCADA & PLC systems.

Uses include: traffic management, fire alert, seismic activity and high gas. Plus many more. Directional chase can direct personnel to safety for any mine wide or localized emergency, very clear visual indication helping in panic or high anxiety situations.

°Hundreds of colour options.

°Flashing on/off or different colours

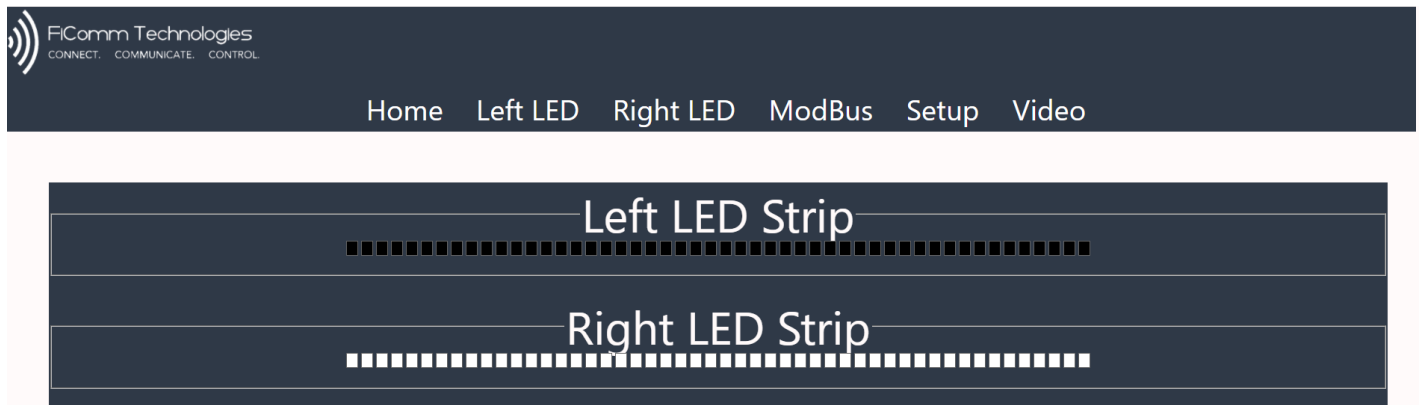
°Directional chase colour on black or colour on different colour.





Each V.A.C.S control box has two plug and play connections for the LED strips. A right side and left side. Each one of these connection has 10 options for control. Each option can be pre-set to perform in a unique mode, then call on that option when required. Providing over 20 different pre-set options from unlimited possibilities.

Also included is a 24Vdc power supply with a plug and play connector allowing any mine personal to physically install the whole system.



LED Strip	Selected Option	Animation Status	Animation Strip Color	Animation Color	Strip Color	Direction	Animation	Name
LEFT	7	DISABLED	White	Red	Black	Reverse	Chaser	OPTION 7
RIGHT	5	DISABLED	Jacksons Purple	Red	White	Reverse	Chaser	BLUE FLASHING

OPTION	Chaser Background	Chaser Color	Strip Color	Direction	Speed Delay	Chaser Spacing	Chaser Size	Flash OFF	Flash ON	Animation	Name
0	Black	Black	Black	Forward	200	8	1	400	400		not in use
1	Black	Green	White	Forward	72	7	1	1096	779	Chaser	GREEN CHASER FWD
2	Black	Green	White	Reverse	165	5	2	1648	354	Chaser	GREEN CHASER REV
3	Red	White	White	Reverse	152	2	1	286	349	Flashing	RED FLASHER
4	Black	Green	White	Reverse	116	10	5	1811	820	Flashing	GREEN FLASHING
5	Jacksons Purple	Red	White	Reverse	92	8	2	613	367	Chaser	BLUE FLASHING
6	Black	Black	Black	Forward	62	6	2	400	400	Chaser	OFF
7	White	Red	Black	Reverse	130	10	3	400	400	Chaser	OPTION 7
8	Black	Red	Red Violet	Forward	25	8	3	726	721	Chaser	OPTION 8
9	Pizazz	Downy	White	Reverse	73	3	3	400	400	Chaser	OPTION 9 Chaser fw
10	Blue	Red	Black	Reverse	25	8	3	453	601	Flashing	ALARM MODE



Using FiComm's free blue tooth app all the pre-sets can be done with a smart device while viewing the strips in real time. Once the options are saved our software can store those settings and push them to all the other LED controllers allowing fast and efficient uniform setup.

Left LED Strip

Option 7 ▾

OPTION 7

Chaser ▾

Reverse ▾

Chaser Background

Chaser Color

Strip Color

10

Pixel Spacing

3

Pixel Size

Animation Disable ▾

Chaser Speed 130 ms

Flasher OFF Time 400 ms

Flasher ON Time 400 ms

PIXEL COUNT: 80

STRIP MODEL SK6812_STRIP_RC▾





FiComm Technologies

CONNECT. COMMUNICATE. CONTROL

Flexible network options.

IP ADDRESS

- ☐ Receive automatically(DHCP)
☒ Set manually

IP
Netmask
Gateway
DNS

Apply and Reboot

CURRENT SETTING

Status Disconnected
IP 0.0.0.0
Netmask 0.0.0.0
Gateway 0.0.0.0
DNS 0.0.0.0

WIFI ADDRESS

- ☐ Receive automatically(DHCP)
☒ Set manually

IP
Netmask
Gateway
DNS

Apply and Reboot

CURRENT SETTING

Status Connected
IP 10.20.10.42
Netmask 255.255.255.0
Gateway 10.20.10.1
DNS 192.168.81.10

SSID SETTINGS

SSID
PASSWORD

Apply

CURRENT SETTING

Connected FICOMM
SIGNAL STRENGTH -38 dBm
BITRATE 72.2

LTE SETTINGS

LTE

APN:

SUBMIT APN

CURRENT SETTING

Status: OFF
IP Address: 169.254.1.1
NetMask: 255.255.255.0
Signal Strength: N/A dbm
SIM: N/A
IMSI: N/A



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CONNECT. COMMUNICATE. CONTROL

Easy integration with HMI/SCADA & PLC

NAME	MODBUSS ADDRESS	DESCRIPTION	TYPE	CURRENT VALUE
Main Alarm	00001	Triggers main Alarm option 10	int	0
Left Animation Enable	00003	Triggers left strip animation	int	0
Right Animation Enable	00004	Triggers right strip animation	int	0
LEFT Animation OPTION	40020	Select animation for left strip	int	0
Right Animation OPTION	40021	Select animation for right strip	int	0

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