

Specifications:

Application:	Dry & Wet Locations
Listings:	UL Listed, CE Certified
IP rating :	IP64
Dimensions:	14.76"(W)X40.75"(L)X1.77"(H) 375mm(W)X1035mm(L)X45mm(H)
Beam Angle:	85°
Lamps:	45 High Power LEDs
Operating Temperatures:	-4° F to 140° F (-20° C to 60° C)
Working Voltage:	120 or 240 VAC
Wattage / Current:	3.5 watt per foot / 0.29A per foot
Weight:	0.2lbs (0.44kg)
Warranty:	2 years

Installation Manual

Table of Content

	pg
01. General Information.....	2
02. Introduction to DMX.....	3
03. Cable Connections	3
04. Wiring Application.....	4
05. System Operating.....	5
06. Fixture Power / Normal Operation.....	5
07. DMX Addressing	5-7
08. Trouble Shooting	7
09. Photometrics	8
10. Terminal of DMX Control Run	9

01. General Information

SaVi™ Accent - MINI LED TUBE (LOW VOLTAGE & WATERPROOF). With the excellent design of electrical circuit and the use of high quality component, led tube is a highly reliable and durable product. With an independent controller controlling the color change and the lighting effects, it is suitable for decoration of exhibition, restaurant, paint room, lounge, club, bar, cars and etc.

SaVi™ Accent uses high bright red, green and blue LEDs as illumination source. The 12V tube can be controlled and powered by controller SRC-181-12V to provide full color change effects. And controller SRC-181-24V takes all the control of 24V tube.

Technical Parameter:

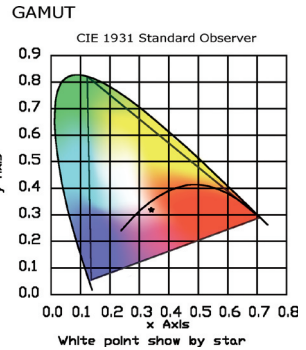
Item No.:	LN-MN-300-12V-M	LN-MN-600-12V-M	LN-MN-1000-12V-M
Source:	high bright LED	high bright LED	high bright LED
Quantity of LED:	R:15 G:15 B:15	R:30 G:30 B:30	R:45 G:45 B:45
Luminance flux(lm):		21.3	42 64
Beam angle:	85° „*40° „	85° „*40° „	85° „*40° „
Wavelength:	R 620-630	G 510-520	B 470-480
VF (V):	R 1.9-2.3	G 3.0-3.8	B 3.0-3.8
Rated power:	3.5W	7W	10.5W
Rated current :	0.29A	0.58A	0.87A
Rated voltage :	12VDC	2VDC	12VDC
Size:	L375*W45*H45	L705*W45*H45	L1035*W45*H45
Weight :	0.2Kg	0.28Kg	0.35Kg
Life span:	100,000Hours	100,000Hours	100,000Hours
Temperature range:	-20° „C--60° „C	-20° „C--60° „C	-20° „C--60° „C
Humidity range:	0-95%	0-95%	0-95%
IP rating:	IP44	IP44	IP44
Controller:	SRC-181-12V	SRC-181-12V	SRC-181-12V
Max connecting No.:	50pcs	25pcs	16pcs

Item No.:	LN-MN-300-24V-M	LN-MN-600-24V-M	LN-MN-1000-24V-M
Source:	high bright LED	high bright LED	high bright LED
Quantity of LED:	R:15 G:15 B:15	R:30 G:30 B:30	R:45 G:45 B:45
Luminance flux(lm):		21.3	42 64
Beam angle:	85° „*40° „	85° „*40° „	85° „*40° „

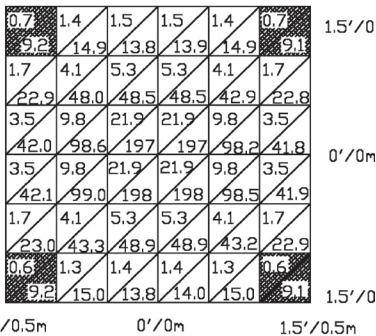
Wavelength:	R 620-630	G 510-520	B 470-480
VF (V):	R 1.9-2.3	G 3.0-3.8	B 3.0-3.8
Rated power:	3.84W	7.6W	11.5W
Rated current:	0.16A	0.32A	0.48A
Rated voltage:	24VDC	24VDC	24VDC
Size:	L375*W45*H45	L705*W45*H45	L1035*W45*H45
Weight:	0.2Kg	0.28Kg	0.35Kg
Life span:	100,000Hours	100,000Hours	100,000Hours
Temperature range:	-20°C--40°C	-20°C--40°C	-20°C--40°C
Humidity range:	0-95%	0-95%	0-95%
IP rating:	IP44	IP44	IP44
Controller :	SRC-181-24V	SRC-181-24V	SRC-181-24V
Max connecting No.:	60pcs	30pcs	20pcs

SOURCE SPECIFICATIONS

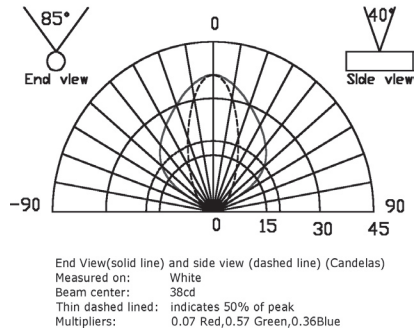
Optics: Clear polycarbonate
 Source: 45LEDs (R 15, G 15, B 15)
 Beam Angle: 85°, *40° (at 50% of peak illuminance)
 Distribution: Asymmetric direct illumination
 CCT: Adjustable 8500-12000K
 CRI: Not measurable (CIE 13.3-1995)



ILLUMINANCE DISTRIBUTION



CANDLE POWER DISTRIBUTION



Units: Footcandles/Lux
 Measured on: White
 Distance from surface: 1'/0.3m (from center of grid)
 Multipliers: 0.07 Red, 0.57 Green, 0.36 Blue

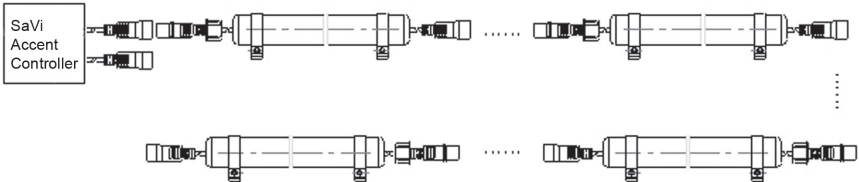
ILLUMINANCE

COLOR	3' 1m	6' 2m	9' 3m	12' 4m	15' 5m
WHITE	3.0 37.8	0.8 9.4	0.3 4.2	0.2 2.4	0.1 1.5
RED	0.7 5.7	0.2 1.4	0.1 0.6	0.0 0.4	0.0 0.2
GREEN	1.8 24.6	0.5 6.1	0.2 2.7	0.1 1.5	0.1 1.0
BLUE	0.5 7.9	0.1 2.0	0.1 0.9	0.0 0.5	0.0 0.3

Measured in Footcandles/Lux on axis

LIGHT OUTPUT

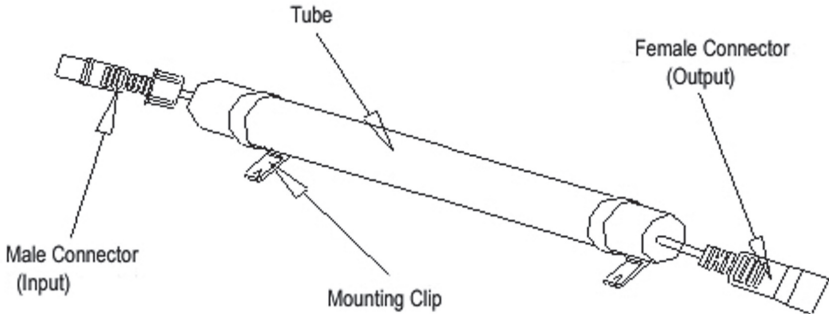
COLOR	TOTAL OUTPUT (LUMENS)	POWER (WATTS)	EFFICACY (lm/W)
WHITE	21.3	2.7	7.9
RED	2.6	0.6	4.3
GREEN	14.2	1.05	12.8
BLUE	4.1	1.05	3.9



Connect the male connector of the first tube with the female connector of the SRC-181-12V or SRC-181-24V controller. Then connect the male connector of the second tube and the female connector of the first one together, then one by one. The female connector of the last tube should be stuffed with an end cap to prevent dust and water. Connect with the power of the SRC-181-12V or SRC-181-24V controller, and different flash effects can be realized by pressing the buttons of the controller. All the connecting points must be sealed with rubber seal.

02. Installations

Fix the mounting clips of the 2PCS tube to the two ends of the tube with screws (M3*15). The clips should keep the same direction. Follow the installation instruction to fix the clips to the decorative project with screws. Then connect the male and female connectors of the tubes, fasten the screws, and connect the power. Please find the below picture:



Function specification:

SRC-181 (12V or 24V) can be used as a stand-alone controller to control the tube separately, while SRC-181 (12V or 24V) can be connected to DMX controller. The functions are as below:

1. Seven colors change in sequence.
2. Seven colors Flash in sequence.
3. Seven colors fade in sequence
4. Seven colors change in sequence by means of jumping, flashing and fading.
5. Red, Green, Blue intensity adjustment
6. Color change speed adjustment

Operation Instruction

1. SRC-181 (12V or 24V) controller at stand-alone function is as below:

P---Mode Status

A1 — Seven colors change in sequence, Red > Green > Yellow > Blue > Purple > Cyan > White > Red > Green > Yellow > Blue > Purple > Cyan > White > ...Circular loop.

A2 — Seven Color Flash in sequence, Red > Green > Yellow > Blue > Purple > Cyan > White > Red > Green > Yellow > Blue > Purple > Cyan > White > ...Circular loop

A3 — Seven Color gradual change in circular loop, Red > Green > Yellow > Blue > Purple > Cyan > White > Red > Green > Yellow > Blue > Purple > Cyan > White > ...Gradual

Change loop

A0 — Seven colors change to flash to gradual change in sequence..

A4 — Red, Green, Blue intensity adjustment

S — Color change speed adjustment

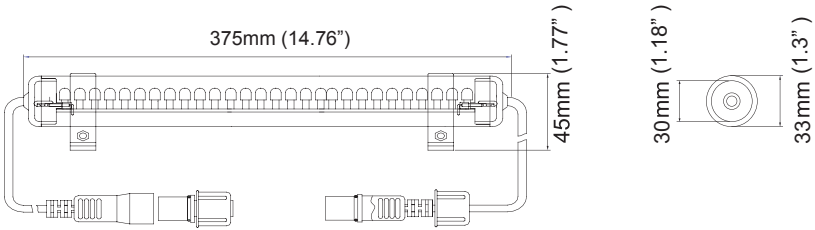
P1 > P5 Totally, there are 5 steps from fast to slow speed adjustment. When the speed

adjustment is ready, A1, A2, A3 should have an accordant changing speed in each circular loop.

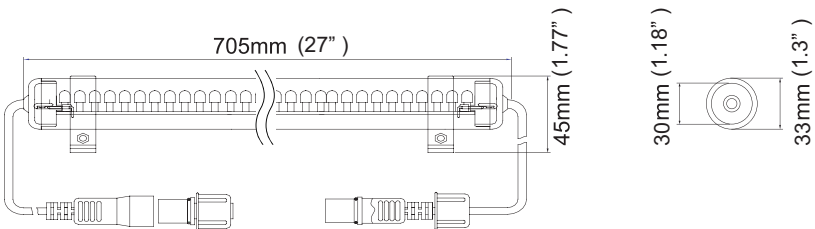
2 SRC-181(12V or 24V) controller connected with DMX controller is as below:

C – AU master/slave status: Where the master SRC-181 controls all the slave controllers to control their own group of Mini LED tubes. You can set up a same program for SRC-181 to achieve a consistent lighting effect for the whole set of LED MINI TUBE.

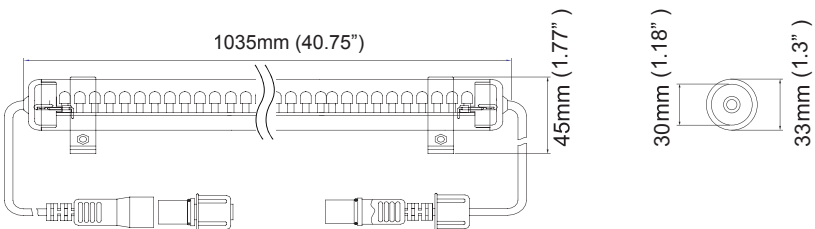
C – HA Manual operation status: Every units of SRC-181 controller are controlled by DMX controller. Adjust DMX controller to give different lighting effects of the tubes.



SaVi Accent 100



SaVi Accent 200



Trouble Shooting

Troubles	Solution
the bulbs do not light	<ol style="list-style-type: none">1. check the power connection, and the fuse of the controller2. check the connection of each part
the bulbs are not bright enough	<ol style="list-style-type: none">1. check the power voltage2. check whether the quantity of the tubes connected is within the maximum load

Caution:

1. Please read the instruction carefully before installation.
2. Do not use it in an environment with corrosive, flammable and explosive elements.
3. Do not place it near a heat source because high temperature would damage the tube.
4. When the TUBE is turned on, do not make direct eye contact in a close distance.
5. Carefully connect and properly fit all connectors.
6. Do not disassemble the tube.

Note:

SVi

Super Vision International Inc.

8210 Presidents Drive

Orlando, FL 32809

USA

tel 407.857.9900 fax 407.857.0050

www.svision.com

STIM rev. 120904