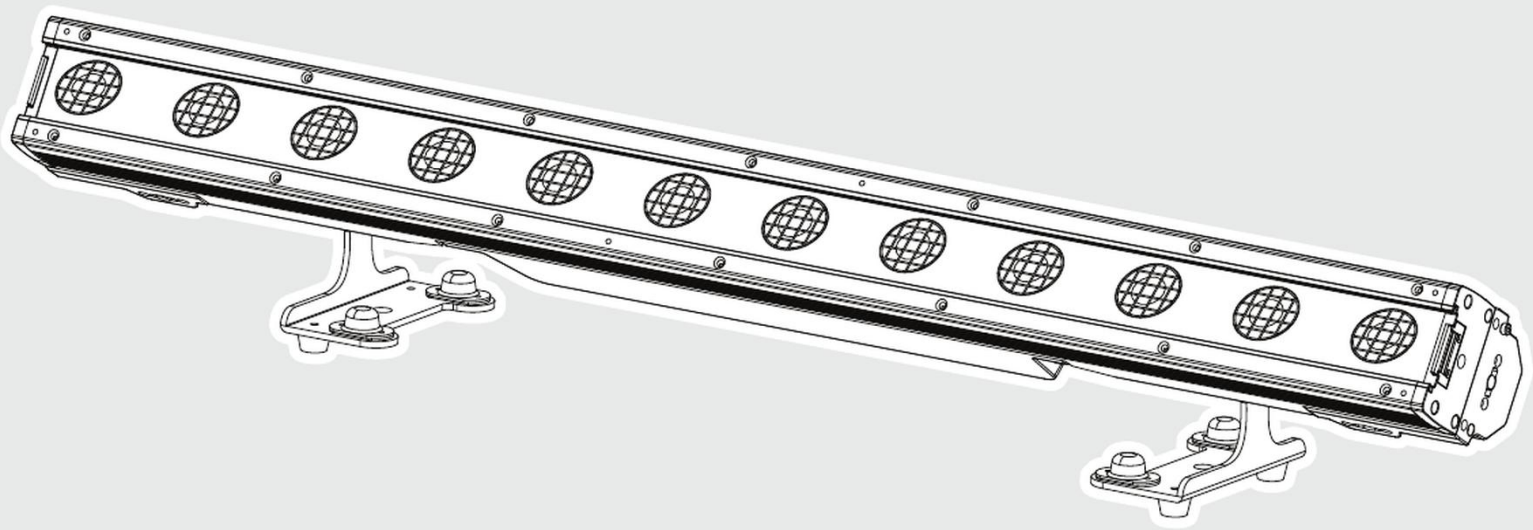
SSP PROFESSIONAL LIGHTING

IP65 WATERPROOF

SMART STRIP

User's Manual



Tool-Free
Fast & Easy Installation
Easy and fast installation with Comlock fixing system.

PIXEL CONTROL

Pixel control allows individual control of each LED section. It creates more dynamic, creative, and eye-catching lighting effects.

RDM / DMX

DMX support enables easy integration into professional lighting systems. With RDM, fixture settings can be monitored and managed remotely.

LED WALL WASHER

English

Please read the user manual carefully
before using the appliance.

SMART STRIP USER MANUAL – INDEX

Index

Find a section or DMX channel table and go to the page number on the right.

No.	Section / topic	Page
1	Safety warning	3
2	RDM	4
3	Product overview and features	5
4	Mounting and safety	6
5	Cable connectors and DMX	7
6	Displayer introduction	8
7	Programme menu	9
7.1	DMX address and channel mode	9
7.2	DMX state	9
7.3	Slave mode	9
7.4	Auto mode	9
7.5	Manual mode	9
7.6	Set up	9
7.7	Information	9
7.8	Test all	10
8	Upload	11
9	DMX channel modes	12
9.1	1 channel mode	12
9.2	4 channel mode	13
9.3	6 channel mode	14
9.4	12 channel mode	15
9.5	16 channel mode	16
9.6	21 channel mode	18
9.7	24 channel mode	21
9.8	34 channel mode	22

SMART STRIP USER MANUAL

1 Safety warning

- To prevent the risk of electric shock or fire, follow all instructions in this manual.
- Do not look directly at the opening lights for long periods. It can damage your eyes.

2 RDM

The unit supports RDM (Remote Device Management), compliant with ANSI/ESTA E.120. RDM is a version of the DMX512-A protocol that lets a controller discover devices on a DMX512 network and configure, monitor and manage them. RDM uses the first pair of DMX data channels in half-duplex format, and standard DMX devices are not affected.

RDM function	Description
Enable & run factory tests	Run factory tests remotely
Change DMX address	Set the DMX start address remotely
Change mode	Set the operating mode remotely
Build fixture personalities	Select the DMX channel mode remotely
Fault finding, rig check	Query errors and statistics
Invert pan & tilt, name & identify	Configure the fixture and identify it
Monitor sensors	Read sensor values

3 Product overview and features

The unit has four operating modes: DMX, auto, master/slave and manual. It supports eight DMX channel modes (1, 4, 6, 12, 16, 21, 24 and 34 channels) and built-in effects including color mixing, variable color chasing, strobing and fading. The fan is controlled by PWM waves.

Item	Specification
Light source	48 × 2 W red, 48 × 2 W amber, 36 × 10 W warm white
Beam angle	40°
Power consumption	260 W
Voltage	110–230 V, 50/60 Hz
Run modes	DMX 512, master/slave, auto run
DMX channels	1, 4, 6, 12, 16, 21, 24, 34
Dimmer curves	4
Display	TFT display with four buttons
Material	Aluminum body
IP rating	IP65
Operating temperature	−20 °C to 40 °C
Dimensions	1017 × 140 × 169 mm
Net weight	9.5 kg

- Accessories: barndoor (sold separately), power cable, DMX cable (sold separately), fast locks, user manual.

4 Mounting and safety

The unit can be mounted hanging upside-down from a ceiling, on a flat level surface, or on its side. Keep it at least 0.5 m away from flammable materials such as decorations. The trussing or mounting point must hold 10 times the weight of the unit without deformation. Always fit a secondary safety attachment, such as a safety cable, and never stand directly below the unit when mounting, removing or servicing it. Have the installation checked by a skilled person once a year.

5 Cable connectors and DMX

Cables must have a male XLR connector at one end and a female XLR connector at the other.

- Caution: do not let the ground contact the fixture chassis ground. This can cause a ground loop and erratic operation.
- Test cables with an ohmmeter to confirm polarity, and make sure the pins are not grounded or shorted to the shield or each other.

5.1 3-pin to 5-pin conversion

Conductor	3-pin female (output)	5-pin male (input)
Ground / shield	Pin 1	Pin 1
Data (−) signal	Pin 2	Pin 2
Data (+) signal	Pin 3	Pin 3
Not used	—	—
Not used	—	—

If your controller has a 5-pin DMX output, use a 5-pin to 3-pin adapter.

6 Displayer introduction

Item	Meaning
DMX / SLAVE	Shows that the light is in DMX mode or slave mode
Signal (green / red)	Green: good signal. Red: signal interrupted.
Temperature	Working temperature. When it exceeds the maximum, the letters and digits change from white to yellow.
Menu	Shows the menu you have selected
Key lock	Key lock open or key lock off
Address	Shows the DMX address (001–512)

7 Programme menu

7.1 DMX address and channel mode

- Press ENTER, then UP or DOWN to select DMX Address or DMX Channel, and press ENTER.
- Address: 001–512. Use UP or DOWN to select the address.
- Channel: choose one of the eight DMX channel modes (see section 9).

7.2 DMX state

DMX Hold connects the DMX signal. Black Out cuts the DMX signal off.

7.3 Slave mode

Select one light as the master. Other lights set to slave follow the master. Choose Slave or Master and press ENTER.

7.4 Auto mode

- Auto mode: choose an auto show from 1 to 5.
- Speed: 1–10.

7.5 Manual mode

Item	Range
Dimmer	0–255
Halogen	0–255
Strobe	0–20

7.6 Set up

Item	Function
Redshift	On or off
Dimmer curve	Linear, square law, inverse square law, S-curve
Refresh rate	600 Hz to 25 kHz
Dimmer speed	Speed 1 to speed 4, and halogen
White balance	Red 1–12, amber 1–12, WW 1–12: 127–255
Key lock	Off or on
Display orientation	Normal or inverted
Display	30 s or on
Factory reset	Yes or no

7.7 Information

Shows the hardware version, software version, serial number, RDM UID and run time (hours).

7.8 Test all

Color: shows the colors in turn. Full power: shows the full brightness of the mixed colors.

8 Upload

Set one light to master, with the program you have edited in the EDIT menu. Set the others to slave, then connect all the lights with DMX cables. On the master light, select the UPLOAD menu and press ENTER. The programs edited in the master light are uploaded to the slave lights.

9 DMX channel modes

The unit has eight DMX channel modes: 1, 4, 6, 12, 16, 21, 24 and 34 channels. The tables below follow the DMX chart. Ranges are inclusive from 0 to 255.

In the 24 and 34 channel modes, the chart gives each fine channel the same number as its coarse channel. The channels here are numbered in the order the chart lists them, so each fine channel follows its coarse channel.

9.1 1 channel mode

CH	Function	DMX value	Description
1	Dimmer 1	0–255	0–100%

9.2 4 channel mode

CH	Function	DMX value	Description
1	Dimmer 1	0–255	0–100%
2	Dimmer 2	0–255	0–100%
3	Dimmer 3	0–255	0–100%
4	Dimmer 4	0–255	0–100%

9.3 6 channel mode

CH	Function	DMX value	Description
1	Dimmer 1	0–255	0–100%
2	Dimmer 2	0–255	0–100%
3	Dimmer 3	0–255	0–100%
4	Dimmer 4	0–255	0–100%
5	Dimmer 5	0–255	0–100%
6	Dimmer 6	0–255	0–100%

9.4 12 channel mode

CH	Function	DMX value	Description
1	Dimmer 1	0–255	0–100%
2	Dimmer 2	0–255	0–100%
3	Dimmer 3	0–255	0–100%
4	Dimmer 4	0–255	0–100%
5	Dimmer 5	0–255	0–100%
6	Dimmer 6	0–255	0–100%
7	Dimmer 7	0–255	0–100%
8	Dimmer 8	0–255	0–100%
9	Dimmer 9	0–255	0–100%
10	Dimmer 10	0–255	0–100%
11	Dimmer 11	0–255	0–100%
12	Dimmer 12	0–255	0–100%

9.5 16 channel mode

CH	Function	DMX value	Description
1	Master Dimmer	0–255	0–100%
2	Strobe	0–19	Shutter close
		20–24	Shutter open
		25–64	Strobe 1 (slow → fast)
		65–69	Shutter open
		70–84	Strobe 2: opening pulse (slow → fast)
		85–89	Shutter open
		90–104	Strobe 3: closing pulse (slow → fast)
		105–109	Shutter open
		110–124	Strobe 4: random strobe (slow → fast)
		125–129	Shutter open
		130–144	Strobe 5: random opening pulse (slow → fast)
		145–149	Shutter open
		150–164	Strobe 6: random closing pulse (slow → fast)
		165–169	Shutter open
		170–184	Strobe 7: burst pulse (slow → fast)
		185–189	Shutter open
		190–204	Strobe 8: random burst pulse (slow → fast)
		205–209	Shutter open
		210–224	Strobe 9: sine wave (slow → fast)
		225–229	Shutter open
		230–244	Strobe 10: burst (slow → fast)
		245–255	Shutter open
3	Duration	0–255	Duration 0–100% (0–510 ms)
4	Dimmer Speed	0–42	No function (current preset from menu)
		43–84	Dimmer speed 1
		85–126	Dimmer speed 2
		127–168	Dimmer speed 3
		169–210	Dimmer speed 4
		211–255	Halogen
5	Dimmer 1	0–255	0–100%
6	Dimmer 2	0–255	0–100%
7	Dimmer 3	0–255	0–100%
8	Dimmer 4	0–255	0–100%
9	Dimmer 5	0–255	0–100%
10	Dimmer 6	0–255	0–100%

CH	Function	DMX value	Description
11	Dimmer 7	0–255	0–100%
12	Dimmer 8	0–255	0–100%
13	Dimmer 9	0–255	0–100%
14	Dimmer 10	0–255	0–100%
15	Dimmer 11	0–255	0–100%
16	Dimmer 12	0–255	0–100%

9.6 21 channel mode

CH	Function	DMX value	Description
1	Master Dimmer	0–255	0–100%
2	Strobe	0–19	Shutter close
		20–24	Shutter open
		25–64	Strobe 1 (fast → slow)
		65–69	Shutter open
		70–84	Strobe 2: opening pulse (fast → slow)
		85–89	Shutter open
		90–104	Strobe 3: closing pulse (fast → slow)
		105–109	Shutter open
		110–124	Strobe 4: random strobe (fast → slow)
		125–129	Shutter open
		130–144	Strobe 5: random opening pulse (fast → slow)
		145–149	Shutter open
		150–164	Strobe 6: random closing pulse (fast → slow)
		165–169	Shutter open
		170–184	Strobe 7: burst pulse (fast → slow)
		185–189	Shutter open
		190–204	Strobe 8: random burst pulse (fast → slow)
		205–209	Shutter open
		210–224	Strobe 9: sine wave (fast → slow)
		225–229	Shutter open
		230–244	Strobe 10: burst (fast → slow)
		245–255	Shutter open
3	Duration	0–255	Duration 0–100% (0–510 ms)
4	Dimmer 1	0–255	0–100%
5	Dimmer 2	0–255	0–100%
6	Dimmer 3	0–255	0–100%
7	Dimmer 4	0–255	0–100%
8	Dimmer 5	0–255	0–100%
9	Dimmer 6	0–255	0–100%
10	Dimmer 7	0–255	0–100%
11	Dimmer 8	0–255	0–100%
12	Dimmer 9	0–255	0–100%
13	Dimmer 10	0–255	0–100%
14	Dimmer 11	0–255	0–100%
15	Dimmer 12	0–255	0–100%

CH	Function	DMX value	Description
16	Dimmer Curve	0–51	No function (current preset from menu)
		52–101	Linear dimmer curve
		102–152	Square law
		153–203	Inverse square law
		204–255	S-curve
17	Dimmer Speed	0–42	No function (current preset from menu)
		43–84	Dimmer speed 1
		85–126	Dimmer speed 2
		127–168	Dimmer speed 3
		169–210	Dimmer speed 4
		211–255	Halogen
18	Redshift	0–84	No function (current preset from menu)
		85–170	Redshift off
		171–255	Redshift on
19	Auto Effect	0–255	Auto effect (values not listed in chart)
20	Auto Speed	0–255	Auto speed (values not listed in chart)
21	Device Settings	0–11	No function
		12–22	Pixel orientation normal (hold 3 s)
		23–33	Pixel orientation invert (hold 3 s)
		34–44	No function
		45–55	DMX fail blackout (hold 3 s)
		56–66	DMX fail hold (hold 3 s)
		67–77	No function
		78–88	Key lock off
		89–99	Key lock on
		100–110	No function
		111–121	LED frequency 600 Hz (hold 3 s)
		122–132	LED frequency 1200 Hz (hold 3 s)
		133–143	LED frequency 2400 Hz (hold 3 s)
		144–154	LED frequency 4800 Hz (hold 3 s)
		155–165	LED frequency 9600 Hz (hold 3 s)
		166–176	LED frequency 12 kHz (hold 3 s)
		177–187	LED frequency 25 kHz (hold 3 s)
		188–198	No function
		199–209	Display flip normal
		210–220	Display flip inverted
		221–231	No function

CH	Function	DMX value	Description
		221–231	Display on
		232–242	Display 30 s
		243–255	Factory reset (hold 3 s)

9.7 24 channel mode

CH	Function	DMX value	Description
1	Dimmer 1	0–255	0–100%
2	Dimmer 1 Fine	0–255	Fine adjustment, 0–255
3	Dimmer 2	0–255	0–100%
4	Dimmer 2 Fine	0–255	Fine adjustment, 0–255
5	Dimmer 3	0–255	0–100%
6	Dimmer 3 Fine	0–255	Fine adjustment, 0–255
7	Dimmer 4	0–255	0–100%
8	Dimmer 4 Fine	0–255	Fine adjustment, 0–255
9	Dimmer 5	0–255	0–100%
10	Dimmer 5 Fine	0–255	Fine adjustment, 0–255
11	Dimmer 6	0–255	0–100%
12	Dimmer 6 Fine	0–255	Fine adjustment, 0–255
13	Dimmer 7	0–255	0–100%
14	Dimmer 7 Fine	0–255	Fine adjustment, 0–255
15	Dimmer 8	0–255	0–100%
16	Dimmer 8 Fine	0–255	Fine adjustment, 0–255
17	Dimmer 9	0–255	0–100%
18	Dimmer 9 Fine	0–255	Fine adjustment, 0–255
19	Dimmer 10	0–255	0–100%
20	Dimmer 10 Fine	0–255	Fine adjustment, 0–255
21	Dimmer 11	0–255	0–100%
22	Dimmer 11 Fine	0–255	Fine adjustment, 0–255
23	Dimmer 12	0–255	0–100%
24	Dimmer 12 Fine	0–255	Fine adjustment, 0–255

9.8 34 channel mode

CH	Function	DMX value	Description
1	Master Dimmer	0–255	0–100%
2	Master Dimmer Fine	0–255	Fine adjustment, 0–255
3	Strobe	0–19	Shutter close
		20–24	Shutter open
		25–64	Strobe 1 (fast → slow)
		65–69	Shutter open
		70–84	Strobe 2: opening pulse (fast → slow)
		85–89	Shutter open
		90–104	Strobe 3: closing pulse (fast → slow)
		105–109	Shutter open
		110–124	Strobe 4: random strobe (fast → slow)
		125–129	Shutter open
		130–144	Strobe 5: random opening pulse (fast → slow)
		145–149	Shutter open
		150–164	Strobe 6: random closing pulse (fast → slow)
		165–169	Shutter open
		170–184	Strobe 7: burst pulse (fast → slow)
		185–189	Shutter open
		190–204	Strobe 8: random burst pulse (fast → slow)
		205–209	Shutter open
		210–224	Strobe 9: sine wave (fast → slow)
		225–229	Shutter open
		230–244	Strobe 10: burst (fast → slow)
		245–255	Shutter open
4	Duration	0–255	Duration 0–100% (0–510 ms)
5	Dimmer 1	0–255	0–100%
6	Dimmer 1 Fine	0–255	Fine adjustment, 0–255
7	Dimmer 2	0–255	0–100%
8	Dimmer 2 Fine	0–255	Fine adjustment, 0–255
9	Dimmer 3	0–255	0–100%
10	Dimmer 3 Fine	0–255	Fine adjustment, 0–255
11	Dimmer 4	0–255	0–100%
12	Dimmer 4 Fine	0–255	Fine adjustment, 0–255
13	Dimmer 5	0–255	0–100%
14	Dimmer 5 Fine	0–255	Fine adjustment, 0–255
15	Dimmer 6	0–255	0–100%

CH	Function	DMX value	Description
16	Dimmer 6 Fine	0–255	Fine adjustment, 0–255
17	Dimmer 7	0–255	0–100%
18	Dimmer 7 Fine	0–255	Fine adjustment, 0–255
19	Dimmer 8	0–255	0–100%
20	Dimmer 8 Fine	0–255	Fine adjustment, 0–255
21	Dimmer 9	0–255	0–100%
22	Dimmer 9 Fine	0–255	Fine adjustment, 0–255
23	Dimmer 10	0–255	0–100%
24	Dimmer 10 Fine	0–255	Fine adjustment, 0–255
25	Dimmer 11	0–255	0–100%
26	Dimmer 11 Fine	0–255	Fine adjustment, 0–255
27	Dimmer 12	0–255	0–100%
28	Dimmer 12 Fine	0–255	Fine adjustment, 0–255
29	Dimmer Curve	0–51	No function (current preset from menu)
		52–101	Linear dimmer curve
		102–152	Square law
		153–203	Inverse square law
		204–255	S-curve
30	Dimmer Speed	0–42	No function (current preset from menu)
		43–84	Dimmer speed 1
		85–126	Dimmer speed 2
		127–168	Dimmer speed 3
		169–210	Dimmer speed 4
		211–255	Halogen
31	Redshift	0–84	No function (current preset from menu)
		85–170	Redshift off
		171–255	Redshift on
32	Auto Effect	0–255	Auto effect (values not listed in chart)
33	Auto Speed	0–255	Auto speed (values not listed in chart)
34	Device Settings	0–11	No function
		12–22	Pixel orientation normal (hold 3 s)
		23–33	Pixel orientation invert (hold 3 s)
		34–44	No function
		45–55	DMX fail blackout (hold 3 s)
		56–66	DMX fail hold (hold 3 s)
		67–77	No function
		78–88	Key lock off

CH	Function	DMX value	Description
		89–99	Key lock on
		100–110	No function
		111–121	LED frequency 600 Hz (hold 3 s)
		122–132	LED frequency 1200 Hz (hold 3 s)
		133–143	LED frequency 2400 Hz (hold 3 s)
		144–154	LED frequency 4800 Hz (hold 3 s)
		155–165	LED frequency 9600 Hz (hold 3 s)
		166–176	LED frequency 12 kHz (hold 3 s)
		177–187	LED frequency 25 kHz (hold 3 s)
		188–198	No function
		199–209	Display flip normal
		210–220	Display flip inverted
		221–231	No function
		221–231	Display on
		232–242	Display 30 s
		243–255	Factory reset (hold 3 s)