

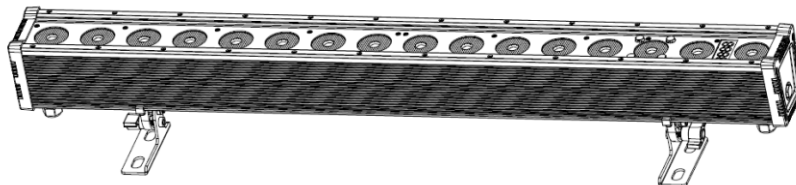
EXPOLITE

TourBar 64

Bedienungsanleitung User Manual

Art.Nr.: led22115

Eigenschaften
Bedienelemente
Steuerung



Specifications
Menu
Control

Bedienungsanleitung bitte aufbewahren
Keep this Manual for later queries

Änderungen sind ohne Ankündigung möglich.
Changes are possible without prior notice.
Rev. 2018-31-11



Die beiliegenden Bedienhinweise für Expolite Geräte sind Bestandteil dieser Bedienungsanleitung. Lesen Sie diese sorgfältig, bevor Sie das Gerät in Betrieb nehmen.

The enclosed General Information for Expolite Units are part of these user manual. Read them carefully before operating the device.



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Lieferumfang

- Expolite TourBAR 64
- Anschlusskabel für Spannungsversorgung
- Bedienhinweise für Expolite Geräte
- Bedienungsanleitung

Expolite Geräte werden vor dem Versand sorgfältig geprüft. Sollte der Lieferumfang dennoch nicht vollständig sein, wenden Sie sich bitte umgehend an Ihren Vertriebspartner.

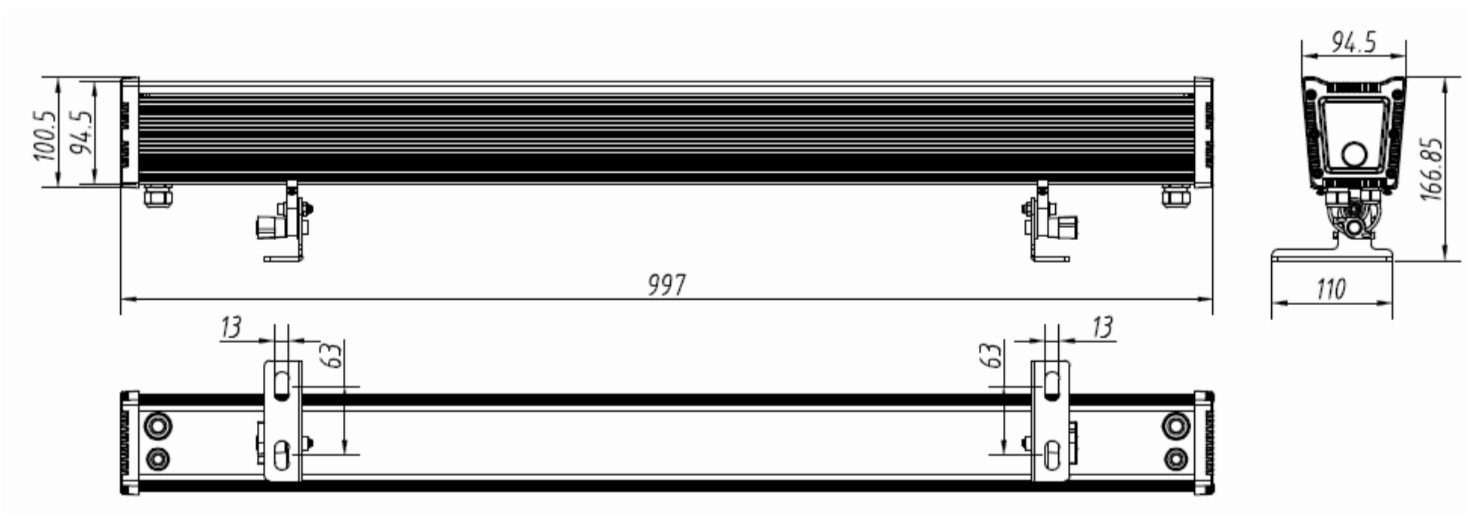
Technische Daten

Spannungsversorgung	100V - 240V AC 50/60Hz
Maximale Leistungsaufnahme	250W
Abmessungen	997 x 167 x 110 mm
Gewicht	8,5 kg
Anschlüsse	Power In/Out DMX In/Out
Betriebstemperatur	-20°C - 45°C
Luftfeuchtigkeit*	< 80%
Schutzklasse	IP 65
Gehäuse	Aluminiumdruckguss Gehäuse
LEDs	16 x 15W 4in1 RGBW**
Abstrahlwinkel	10 x 40°
Steuerung	Stand-Alone / Master-Slave / DMX512
DMX-Kanäle	3 - 72 (3/4/5/10/16/24/40/48/64/72)

* Siehe Allgemeine Bedienhinweise für Expolite Geräte - Hinweise zu Kondenswasserbildung im Geräteinneren

** Toleranzbereich der Farbtemperatur entsprechend Herstellerangabe +/- 10%

Abmessungen



Installation

Montage

Stehend

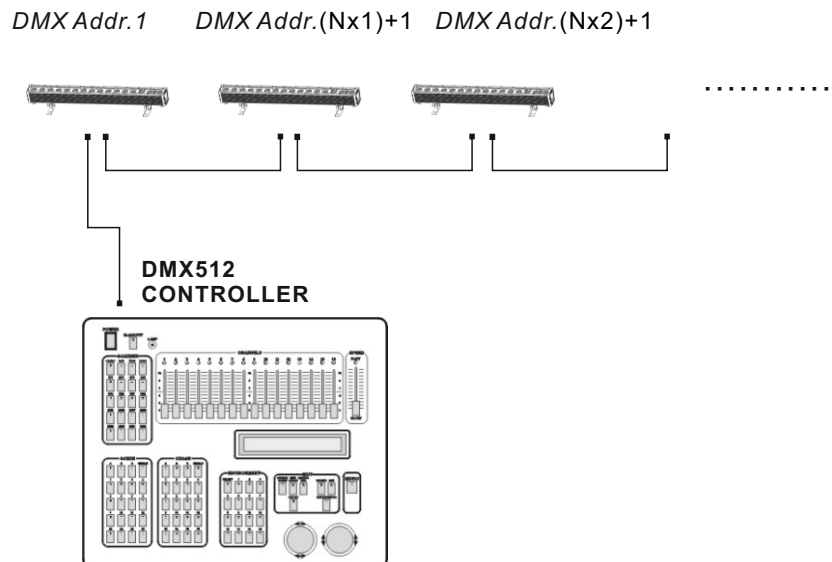
Das Gerät kann stehend auf den montierten Standfüßen betrieben werden. Eine sichere und ausreichend rutschhemmende Standfläche ist sicherzustellen!
Das Gerät ist nicht für eine hängende Montage geeignet.

HINWEIS

Das LED Modul kann in jedem beliebigen Winkel betrieben werden. Die Neigung im Bügel kann bequem durch Lösen der Arretierungsschraube verstellt werden.

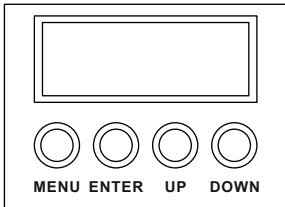
DMX-Verbindung

Die Geräte mit geeigneten DMX-Kabeln miteinander und mit dem Controller verbinden.
Die vorgesehenen DMX-Adressen und Personalities an den Geräten einstellen.



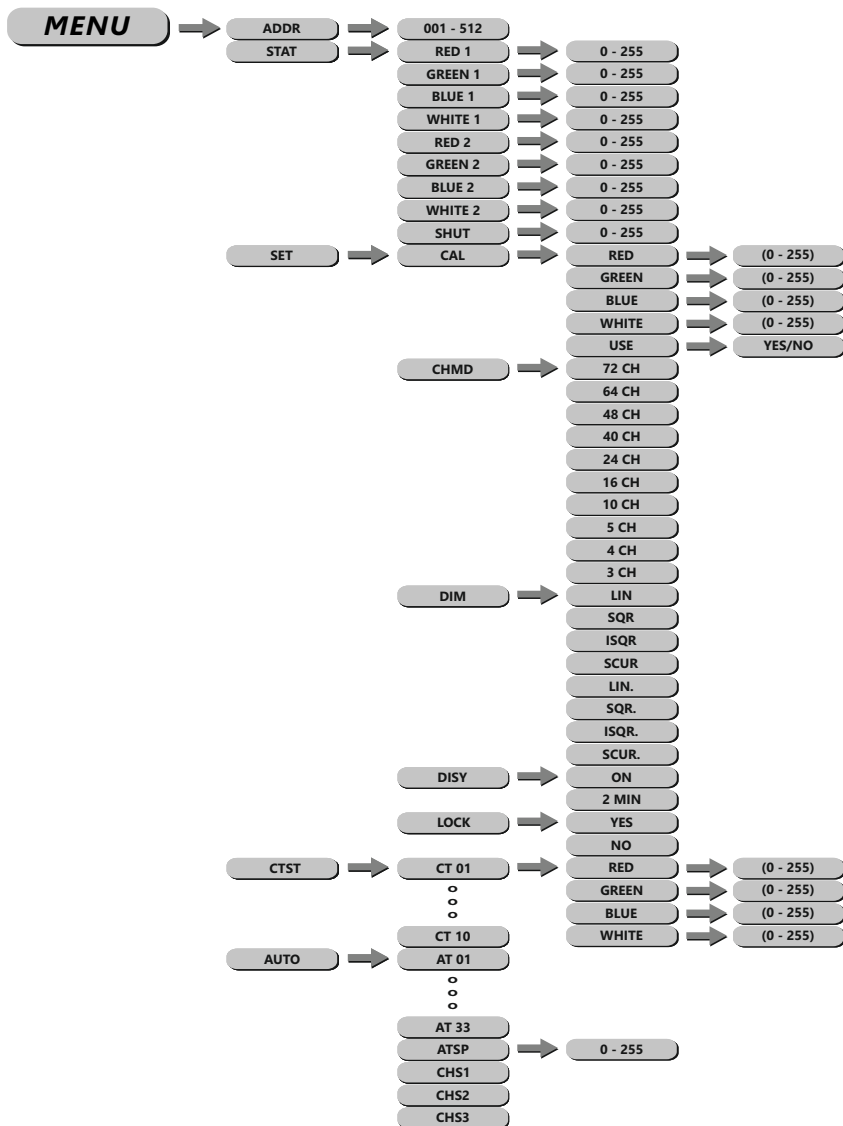
Bedienung

Bedienelemente am Gerät

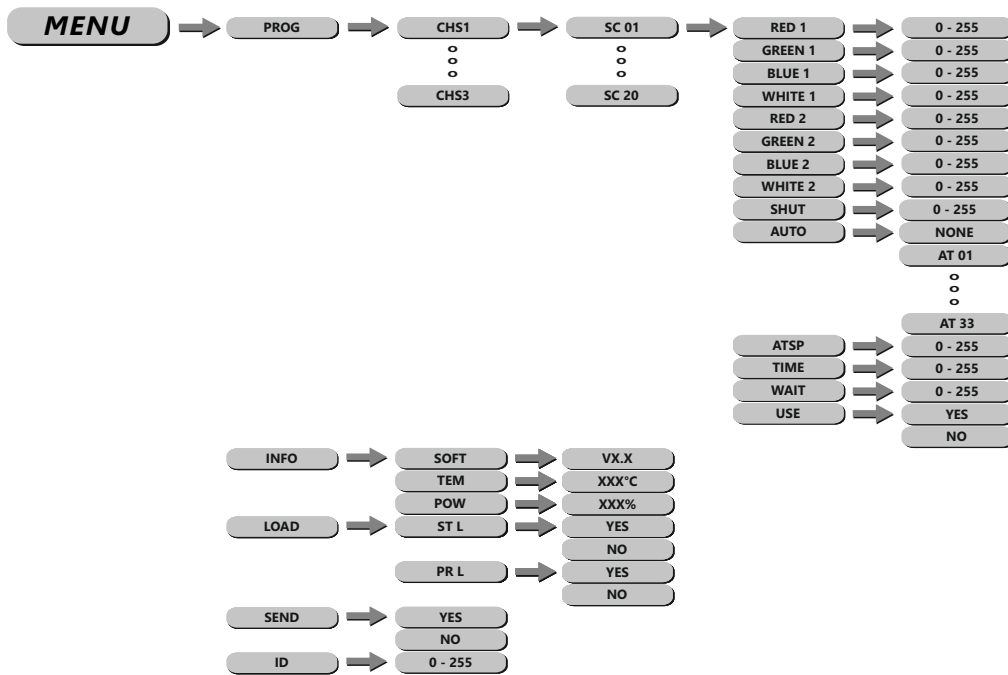


MENU - Taste: Eine Menüebene aufwärts
 ENTER-Taste: In gewähltes Menü springen; Eingabe bestätigen
 UP-Taste: Aufwärts blättern; Wert erhöhen
 DOWN-Taste: Abwärts blättern; Wert verringern

Menüstruktur



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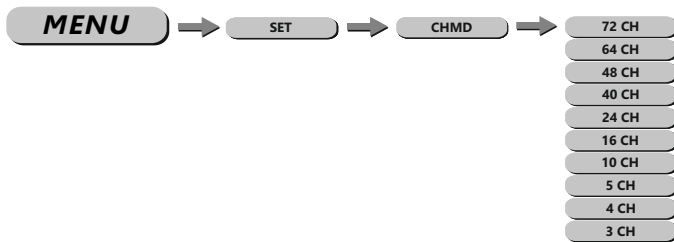


DMX-Adresse einstellen



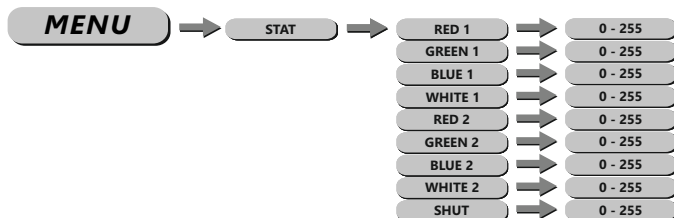
Im Menü wird im Punkt **ADDR** die DMX-Startadresse des Gerätes eingestellt. Diese bleibt auch bei dem Wechsel der Personality erhalten.

DMX-Kanalbelegung einstellen



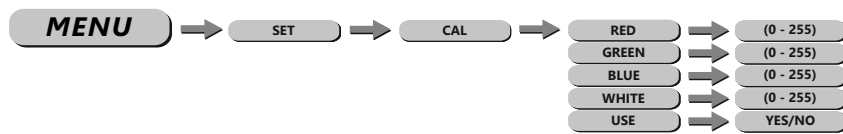
Im Menü wird im Punkt **SET\CHMD** die Belegung der DMX-Kanäle des Gerätes festgelegt. Es stehen die Modi **3CH** (3 Kanäle), **4CH** (4 Kanäle), **5CH** (5 Kanäle), **10CH** (10 Kanäle), **16CH** (16 Kanäle), **24CH** (24 Kanäle), **40CH** (40 Kanäle), **48CH** (48 Kanäle), **64CH** (64 Kanäle) und **72CH** (72 Kanäle) zur Verfügung.

Statische Farben einstellen



Im Menü werden im Punkt **STAT** statische Farben für den Stand-Alone Betrieb eingestellt. Diese werden anhand der DMX-Werteskala 0-255 für Rot (**R1**, **R2**), Grün (**G1**, **G2**), Blau (**B1**, **B2**), Weiß (**W1**, **W2**) sowie den Stroboskopwert (**SHUT**) 0-20Hz gemischt. Für den Betrieb im Statik-Mode muss das Menü in der unteren Menüebene stehen. [Display zeigt einen Zahlenwert eines eingestellten Parameters]

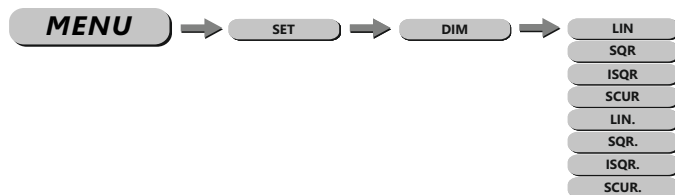
Kalibrierung



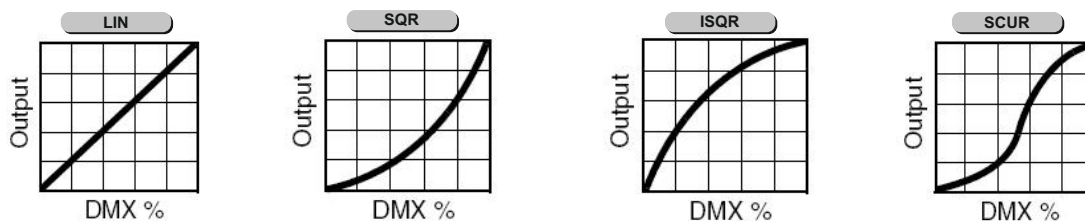
Im Menüpunkt **SET** wird unter **CAL** eine benutzerdefinierte Farbkalibrierung gespeichert. Diese begrenzt die maximale Helligkeit der Farbkanäle bei dem DMX-Wert „255“. Im Untermenü **USE** können diese Einstellungen aktiviert (**YES**) oder deaktiviert werden (**NO**).

HINWEIS: Der Maximalwert kann auf „0“ begrenzt werden. In diesem Fall reagiert ein Farbkanal nicht auf einen gesendeten DMX-Wert. Dies kann als Gerätefehler fehlinterpretiert werden.

Dimmerkurve



Im Menü **SET\DIM** können verschiedene Dimmerkurven gewählt werden. Bei den Dimmerkurven mit einem „.“ am Ende wird zusätzlich ein Delay im Dimmer aktiviert.



Display Mode



Im Menü **SET\DISY** kann die Dauer der aktiven Displaybeleuchtung nach der letzten Eingabe eingestellt werden. Das Display kann wahlweise auf automatisches Abschalten nach 2 Minuten (**2 MIN**), oder generellen Betrieb (**ON**) gestellt werden.

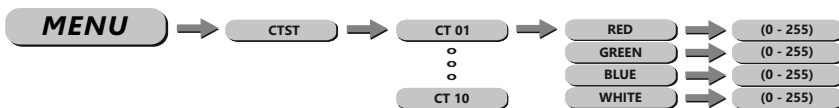
Aktivieren des Passwortschutzes



Im Menü **SET\LOCK** wird festgelegt, ob das Display nach jeder Benutzung gesperrt wird, so dass ein Passwort eingegeben werden muss, um es freizuschalten (**ON**) oder ob der Zugriff grundsätzlich frei ist (**OFF**).

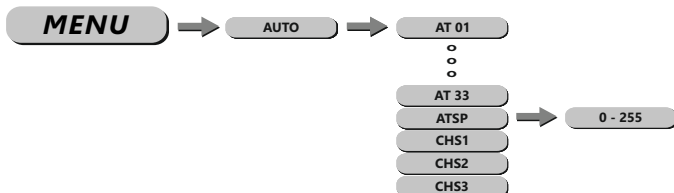
PASSWORD: UP - DOWN - UP - DOWN - ENTER

Benutzerdefinierte statische Szenen



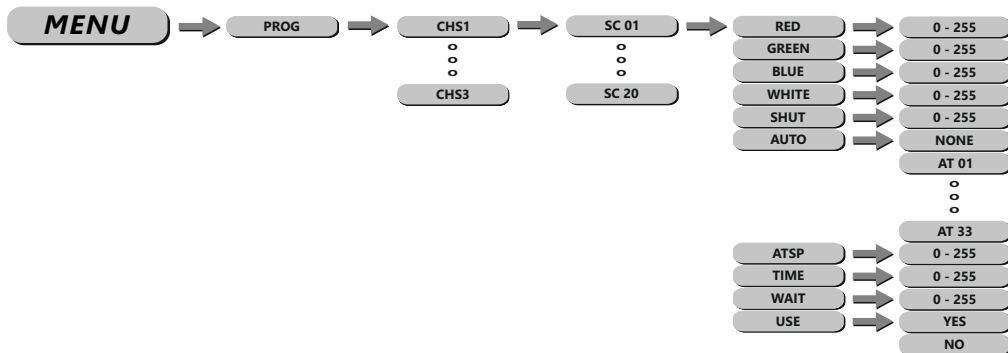
Im Menü **CTST** können zehn benutzerdefinierte Farben (**CT 01 - CT 10**) aus den Einzelfarben Rot (**R**), Grün (**G**), Blau (**B**) und Weiß (**W**) erstellt werden.

Automatik Programme



Im Menü **AUTO** können 33 vorgegebene Auto-Programme (**AT 01- AT 33**) abgerufen werden. Über **ATSP** kann die Geschwindigkeit dieser Automatikprogramme eingestellt werden. Die Chases **CHS1 - CHS3** sind editierbar. Dies wird unter **Benutzerprogramme editieren** beschrieben.

Benutzerprogramme editieren



Im Menü, im Punkt **PROG**, werden die Benutzerprogramme **CHS1** bis **CHS3** editiert. Jedes Programm kann aus bis zu 20 Schritten bestehen. Jeder Schritt besteht aus den Parametern Farbe **RGBW**, Strobe (**SHUT**) „0-20Hz“, Dauer des Steps (**TIME**) und Überblendzeit (**WAIT**). Benutzerprogramme können auf andere Geräte überspielt werden, siehe Master-/Slave Menü.

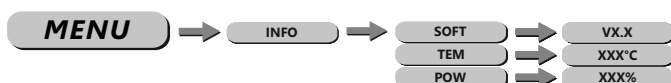
Schrittweise Programmierung des Custom-Stand-Alone Programmes mit bis zu 20 verschiedenen Schritten.

HINWEIS: Für weniger als 20 Schritte muss die **TIME** und **WAIT** des letzten Schrittes auf 0 gesetzt werden.

Beispiel für Time-Settings eines Stand-Alone Programmes mit 3 Schritten:

Step 1 **TIME** = 4 **WAIT** = 3 **USE** = YES
 Step 2 **TIME** = 5 **WAIT** = 2 **USE** = YES
 Step 3 **TIME** = 0 **WAIT** = 0 **USE** = YES

Info - Menü

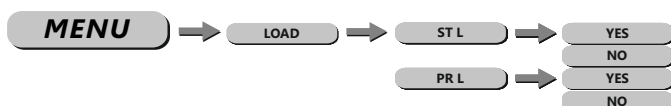


Im Menü **INFO\SOFT** wird die aktuell installierte Softwareversion des Gerätes angezeigt

Im Menü **INFO\TEM** wird die aktuelle Temperatur der LED-Einheit angezeigt.

Im Menü **INFO\POW** wird die z.Zt. aktive Leistungsreduktion bei Überhitzung des LED-Einheit angezeigt.

Zurücksetzen auf Werkseinstellungen



Im Untermenü **LOAD/ST L** können die eingestellten Parameter des Gerätes einem Reset unterzogen werden. Davon ausgenommen sind die Werte **ADDR**, **CTST** und **PROG**.

Im Untermenü **LOAD/PR L** können die vom User editierbaren gespeicherten Programme zurückgesetzt werden (**YES**).

Geräteeinstellungen an andere Geräte senden



Im Menü **SEND** können die Geräteparameter an andere Geräte auf der selben DMX-Linie gesendet werden (**YES**).

- Andere Geräte (auch das Lichtstellpult) sollten nach Möglichkeit aus der Linie getrennt werden.

- Die Parameter **ADDR**, **CAL** und **ID** können nicht übertragen werden.

- Nach der korrekten Übertragung der Parameter fährt das Gerät einen Reset.

Einstellen der Geräte-ID



Im Menü **ID** kann die Geräte-ID von **0 - 255** eingestellt werden.

Steuerung mit DMX512

DMX-Kanalbelegung

Dieses Gerät verfügt über verschiedene DMX-Personalities. Bei diesen werden unterschiedlich viele DMX-Kanäle belegt und die Reaktion des Gerätes unterscheidet sich entsprechend. Es sind 10 DMX-Personalities (3-/4-/5-/10-/16-/24-/40-/48-/64-/72-Kanäle) wählbar. Durch Änderungen in der Gerätesoftware kann es zu weiteren oder geänderten Funktionen kommen. Auf der Website steht das aktuellste Dokument „DMX-Channels“ als pdf zum Download zur Verfügung.

3CH Mode

1	0-255	Red
2	0-255	Green
3	0-255	Blue

4CH Mode

1	0-255	Red
2	0-255	Green
3	0-255	Blue
4	0-255	White

5CH Mode

1	0-255	Dimmer
2	0-255	Red
3	0-255	Green
4	0-255	Blue
5	0-255	White

10CH Mode

1	0-255	Dimmer
2	0-255	Red
3	0-255	Green
4	0-255	Blue
5	0-255	White
6		Strobe
	0-5	No Strobe
	6-20	Not Synchronous Strobe (slow to fast)
	21-60	Synchronous Strobe (slow to fast)
	61-100	Electronic Sine Wave (slow to fast)
	101-140	Random Strobe (slow to fast)
	141-180	Opening Pulse (slow to fast)
	181-220	Closing Pulse (slow to fast)
221-255	Electronic Square Wave (slow to fast)	

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	Effect
	0-5 No Effect
	6-10 CT01 (Custom Colour CT01)
	11-15 CT02
	16-20 CT03
	21-25 CT04
	26-30 CT05
	31-35 CT06
	36-40 CT07
	41-45 CT08
	46-50 CT09
	51-55 CT10
	56-60 Auto 1
	61-65 Auto 2
	66-70 Auto 3
	71-75 Auto 4
	76-80 Auto 5
	81-85 Auto 6
	86-90 Auto 7
	91-95 Auto 8
	96-100 Auto 9
	101-105 Auto 10
7	106-110 Auto 11
	111-115 Auto 12
	116-120 Auto 13
	121-125 Auto 14
	126-130 Auto 15
	131-135 Auto 16
	136-140 Auto 17
	141-145 Auto 18
	146-150 Auto 19
	151-155 Auto 20
	156-160 Auto 21
	161-165 Auto 22
	166-170 Auto 23
	171-175 Auto 24
	176-180 Auto 25
	181-185 Auto 26
	186-190 Auto 27
	191-195 Auto 28
	196-200 Auto 29
	201-205 Auto 30
	206-210 Auto 31
	211-215 Auto 32
	216-220 Auto 33
	221-225 Chase 1

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7	226-230	Chase 2
	231-235	Chase 3
	236-255	Reserved
8	0-255	Auto Speed
9		Virtual Colour Wheel
	0-10	No Effect
	11	Blue
	12-50	Full Blue + Green Increasing
	51	Cyan
	52-90	Full Green + Blue Decreasing
	91	Green
	92-130	Full Green + Red Increasing
	131	Yellow
	132-170	Full Red + Green Decreasing
	171	Red
	172-210	Full Red + Blue Increasing
	211	Magenta
	212-250	Full Blue + Red Decreasing
251-255	Blue	
10		Dimmer Mode
	0-10	Dimmer Mode selected in the menu
	11-20	Linear Curve (not smooth)
	21-30	Square Law Curve (not smooth)
	31-40	Inverse Square Law Curve (not smooth)
	41-50	S-Curve (not smooth)
	51-60	Linear Curve (smooth)
	61-70	Square Law Curve (smooth)
	71-80	Inverse Square Law Curve (smooth)
	81-90	S-Curve (smooth)
91-255	Dimmer Mode selected in the menu	

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16CH Mode

1	0-255	Dimmer
2	0-255	Red 1
3	0-255	Green 1
4	0-255	Blue 1
5	0-255	White 1
6	0-255	Red 2
7	0-255	Green 2
8	0-255	Blue 2
9	0-255	White 2
10		Strobe
	0-5	No Strobe
	6-20	Not Synchronous Strobe (slow to fast)
	21-60	Synchronous Strobe (slow to fast)
	61-100	Electronic Sine Wave (slow to fast)
	101-140	Random Strobe (slow to fast)
	141-180	Opening Pulse (slow to fast)
	181-220	Closing Pulse (slow to fast)
221-255	Electronic Square Wave (slow to fast)	
11		Effect
	0-5	No Effect
	6-10	CT01 (Custom Colour CT01)
	11-15	CT02
	16-20	CT03
	21-25	CT04
	26-30	CT05
	31-35	CT06
	36-40	CT07
	41-45	CT08
	46-50	CT09
	51-55	CT10
	56-60	Auto 1
	61-65	Auto 2
	66-70	Auto 3
	71-75	Auto 4
	76-80	Auto 5
	81-85	Auto 6
	86-90	Auto 7
	91-95	Auto 8
	96-100	Auto 9
	101-105	Auto 10
	106-110	Auto 11
	111-115	Auto 12
116-120	Auto 13	
121-125	Auto 14	
126-130	Auto 15	
131-135	Auto 16	

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11	136-140	Auto 17
	141-145	Auto 18
	146-150	Auto 19
	151-155	Auto 20
	156-160	Auto 21
	161-165	Auto 22
	166-170	Auto 23
	171-175	Auto 24
	176-180	Auto 25
	181-185	Auto 26
	186-190	Auto 27
	191-195	Auto 28
	196-200	Auto 29
	201-205	Auto 30
	206-210	Auto 31
	211-215	Auto 32
	216-220	Auto 33
	221-225	Chase 1
226-230	Chase 2	
231-235	Chase 3	
236-255	Reserved	
12	0-255	Auto Speed
13		Virtual Colour Wheel
	0-10	No Effect
	11	Blue
	12-50	Full Blue + Green Increasing
	51	Cyan
	52-90	Full Green + Blue Decreasing
	91	Green
	92-130	Full Green + Red Increasing
	131	Yellow
	132-170	Full Red + Green Decreasing
	171	Red
	172-210	Full Red + Blue Increasing
	211	Magenta
	212-250	Full Blue + Red Decreasing
251-255	Blue	
14		Dimmer Mode
	0-10	Dimmer Mode selected in the menu
	11-20	Linear Curve (not smooth)
	21-30	Square Law Curve (not smooth)
	31-40	Inverse Square Law Curve (not smooth)
	41-50	S-Curve (not smooth)
	51-60	Linear Curve (smooth)
	61-70	Square Law Curve (smooth)
	71-80	Inverse Square Law Curve (smooth)

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14	81-90	S-Curve (smooth)
	91-255	Dimmer Mode selected in the menu
15		ID Function
	0-10	ID Disable
	11-20	ID Enable
	21-30	ID Address Channel divides by 10 and enable
	31-255	Reserved
16	0-255	ID Address

40CH Mode

1	0-255	Dimmer
2	0-255	Red 1
3	0-255	Green 1
4	0-255	Blue 1
5	0-255	White 1
6	0-255	Red 2
7	0-255	Green 2
8	0-255	Blue 2
9	0-255	White 2
10	0-255	Red 3
11	0-255	Green 3
12	0-255	Blue 3
13	0-255	White 3
14	0-255	Red 4
15	0-255	Green 4
16	0-255	Blue 4
17	0-255	White 4
18	0-255	Red 5
19	0-255	Green 5
20	0-255	Blue 5
21	0-255	White 5
22	0-255	Red 6
23	0-255	Green 6
24	0-255	Blue 6
25	0-255	White 6
26	0-255	Red 7
27	0-255	Green 7
28	0-255	Blue 7
29	0-255	White 7
30	0-255	Red 8
31	0-255	Green 8
32	0-255	Blue 8
33	0-255	White 8

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34		Strobe
	0-5	No Strobe
	6-20	Not Synchronous Strobe (slow to fast)
	21-60	Synchronous Strobe (slow to fast)
	61-100	Electronic Sine Wave (slow to fast)
	101-140	Random Strobe (slow to fast)
	141-180	Opening Pulse (slow to fast)
	181-220	Closing Pulse (slow to fast)
	221-255	Electronic Square Wave (slow to fast)
35		Effect
	0-5	No Effect
	6-10	CT01 (Custom Colour CT01)
	11-15	CT02
	16-20	CT03
	21-25	CT04
	26-30	CT05
	31-35	CT06
	36-40	CT07
	41-45	CT08
	46-50	CT09
	51-55	CT10
	56-60	Auto 1
	61-65	Auto 2
	66-70	Auto 3
	71-75	Auto 4
	76-80	Auto 5
	81-85	Auto 6
	86-90	Auto 7
	91-95	Auto 8
	96-100	Auto 9
	101-105	Auto 10
	106-110	Auto 11
	111-115	Auto 12
	116-120	Auto 13
	121-125	Auto 14
	126-130	Auto 15
	131-135	Auto 16
	136-140	Auto 17
	141-145	Auto 18
	146-150	Auto 19
	151-155	Auto 20
	156-160	Auto 21
161-165	Auto 22	
166-170	Auto 23	
171-175	Auto 24	
176-180	Auto 25	
181-185	Auto 26	

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35	186-190	Auto 27
	191-195	Auto 28
	196-200	Auto 29
	201-205	Auto 30
	206-210	Auto 31
	211-215	Auto 32
	216-220	Auto 33
	221-225	Chase 1
	226-230	Chase 2
	231-235	Chase 3
	236-255	Reserved
36	0-255	Auto Speed
37		Virtual Colour Wheel
	0-10	No Effect
	11	Blue
	12-50	Full Blue + Green Increasing
	51	Cyan
	52-90	Full Green + Blue Decreasing
	91	Green
	92-130	Full Green + Red Increasing
	131	Yellow
	132-170	Full Red + Green Decreasing
	171	Red
	172-210	Full Red + Blue Increasing
	211	Magenta
	212-250	Full Blue + Red Decreasing
251-255	Blue	
38		Dimmer Mode
	0-10	Dimmer Mode selected in the menu
	11-20	Linear Curve (not smooth)
	21-30	Square Law Curve (not smooth)
	31-40	Inverse Square Law Curve (not smooth)
	41-50	S-Curve (not smooth)
	51-60	Linear Curve (smooth)
	61-70	Square Law Curve (smooth)
	71-80	Inverse Square Law Curve (smooth)
	81-90	S-Curve (smooth)
91-255	Dimmer Mode selected in the menu	
39		ID Function
	0-10	ID Disable
	11-20	ID Enable
	21-30	ID Address Channel divides by 10 and enable
	31-255	Reserved
40	0-255	ID Address

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48CH Mode

1	0-255	Red 1
2	0-255	Green 1
3	0-255	Blue 1
4	0-255	Red 2
5	0-255	Green 2
6	0-255	Blue 2
7	0-255	Red 3
8	0-255	Green 3
9	0-255	Blue 3
10	0-255	Red 4
11	0-255	Green 4
12	0-255	Blue 4
13	0-255	Red 5
14	0-255	Green 5
15	0-255	Blue 5
16	0-255	Red 6
17	0-255	Green 6
18	0-255	Blue 6
19	0-255	Red 7
20	0-255	Green 7
21	0-255	Blue 7
22	0-255	Red 8
23	0-255	Green 8
24	0-255	Blue 8
25	0-255	Red 9
26	0-255	Green 9
27	0-255	Blue 9
28	0-255	Red 10
29	0-255	Green 10
30	0-255	Blue 10
31	0-255	Red 11
32	0-255	Green 11
33	0-255	Blue 11
34	0-255	Red 12
35	0-255	Green 12
36	0-255	Blue 12
37	0-255	Red 13
38	0-255	Green 13
39	0-255	Blue 13
40	0-255	Red 14
41	0-255	Green 14
42	0-255	Blue 14
43	0-255	Red 15
44	0-255	Green 15

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45	0-255	Blue 15
46	0-255	Red 16
47	0-255	Green 16
48	0-255	Blue 16

EXPOLITE

64CH Mode

1	0-255	Red 1
2	0-255	Green 1
3	0-255	Blue 1
4	0-255	White 1
5	0-255	Red 2
6	0-255	Green 2
7	0-255	Blue 2
8	0-255	White 2
9	0-255	Red 3
10	0-255	Green 3
11	0-255	Blue 3
12	0-255	White 3
13	0-255	Red 4
14	0-255	Green 4
15	0-255	Blue 4
16	0-255	White 4
17	0-255	Red 5
18	0-255	Green 5
19	0-255	Blue 5
20	0-255	White 5
21	0-255	Red 6
22	0-255	Green 6
23	0-255	Blue 6
24	0-255	White 6
25	0-255	Red 7
26	0-255	Green 7
27	0-255	Blue 7
28	0-255	White 7
29	0-255	Red 8
30	0-255	Green 8
31	0-255	Blue 8
32	0-255	White 8
33	0-255	Red 9
34	0-255	Green 9
35	0-255	Blue 9
36	0-255	White 9
37	0-255	Red 10
38	0-255	Green 10
39	0-255	Blue 10
40	0-255	White 10
41	0-255	Red 11
42	0-255	Green 11
43	0-255	Blue 11
44	0-255	White 11

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45	0-255	Red 12
46	0-255	Green 12
47	0-255	Blue 12
48	0-255	White 12
49	0-255	Red 13
50	0-255	Green 13
51	0-255	Blue 13
52	0-255	White 13
53	0-255	Red 14
54	0-255	Green 14
55	0-255	Blue 14
56	0-255	White 14
57	0-255	Red 15
58	0-255	Green 15
59	0-255	Blue 15
60	0-255	White 15
61	0-255	Red 16
62	0-255	Green 16
63	0-255	Blue 16
64	0-255	White 16

EXPOLITE

72CH Mode

1	0-255	Dimmer
2	0-255	Red 1
3	0-255	Green 1
4	0-255	Blue 1
5	0-255	White 1
6	0-255	Red 2
7	0-255	Green 2
8	0-255	Blue 2
9	0-255	White 2
10	0-255	Red 3
11	0-255	Green 3
12	0-255	Blue 3
13	0-255	White 3
14	0-255	Red 4
15	0-255	Green 4
16	0-255	Blue 4
17	0-255	White 4
18	0-255	Red 5
19	0-255	Green 5
20	0-255	Blue 5
21	0-255	White 5
22	0-255	Red 6
23	0-255	Green 6
24	0-255	Blue 6
25	0-255	White 6
26	0-255	Red 7
27	0-255	Green 7
28	0-255	Blue 7
29	0-255	White 7
30	0-255	Red 8
31	0-255	Green 8
32	0-255	Blue 8
33	0-255	White 8
34	0-255	Red 9
35	0-255	Green 9
36	0-255	Blue 9
37	0-255	White 9
38	0-255	Red 10
39	0-255	Green 10
40	0-255	Blue 10
41	0-255	White 10
42	0-255	Red 11
43	0-255	Green 11

EXPOLITE

44	0-255	Blue 11
45	0-255	White 11
46	0-255	Red 12
47	0-255	Green 12
48	0-255	Blue 12
49	0-255	White 12
50	0-255	Red 13
51	0-255	Green 13
52	0-255	Blue 13
53	0-255	White 13
54	0-255	Red 14
55	0-255	Green 14
56	0-255	Blue 14
57	0-255	White 14
58	0-255	Red 15
59	0-255	Green 15
60	0-255	Blue 15
61	0-255	White 15
62	0-255	Red 16
63	0-255	Green 16
64	0-255	Blue 16
65	0-255	White 16
66		Strobe
	0-5	No Strobe
	6-20	Not Synchronous Strobe (slow to fast)
	21-60	Synchronous Strobe (slow to fast)
	61-100	Electronic Sine Wave (slow to fast)
	101-140	Random Strobe (slow to fast)
	141-180	Opening Pulse (slow to fast)
	181-220	Closing Pulse (slow to fast)
221-255	Electronic Square Wave (slow to fast)	
67		Effect
	0-5	No Effect
	6-10	CT01 (Custom Colour CT01)
	11-15	CT02
	16-20	CT03
	21-25	CT04
	26-30	CT05
	31-35	CT06
	36-40	CT07
	41-45	CT08
	46-50	CT09
	51-55	CT10
	56-60	Auto 1
	61-65	Auto 2
66-70	Auto 3	

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67	71-75	Auto 4
	76-80	Auto 5
	81-85	Auto 6
	86-90	Auto 7
	91-95	Auto 8
	96-100	Auto 9
	101-105	Auto 10
	106-110	Auto 11
	111-115	Auto 12
	116-120	Auto 13
	121-125	Auto 14
	126-130	Auto 15
	131-135	Auto 16
	136-140	Auto 17
	141-145	Auto 18
	146-150	Auto 19
	151-155	Auto 20
	156-160	Auto 21
	161-165	Auto 22
	166-170	Auto 23
	171-175	Auto 24
	176-180	Auto 25
	181-185	Auto 26
	186-190	Auto 27
	191-195	Auto 28
	196-200	Auto 29
	201-205	Auto 30
	206-210	Auto 31
	211-215	Auto 32
	216-220	Auto 33
221-225	Chase 1	
226-230	Chase 2	
231-235	Chase 3	
236-255	Reserved	
68	0-255	Auto Speed
69		Virtual Colour Wheel
	0-10	No Effect
	11	Blue
	12-50	Full Blue + Green Increasing
	51	Cyan
	52-90	Full Green + Blue Decreasing
	91	Green
	92-130	Full Green + Red Increasing
	131	Yellow
	132-170	Full Red + Green Decreasing
	171	Red
	172-210	Full Red + Blue Increasing

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69	211	Magenta
	212-250	Full Blue + Red Decreasing
	251-255	Blue
70		Dimmer Mode
	0-10	Dimmer Mode selected in the menu
	11-20	Linear Curve (not smooth)
	21-30	Square Law Curve (not smooth)
	31-40	Inverse Square Law Curve (not smooth)
	41-50	S-Curve (not smooth)
	51-60	Linear Curve (smooth)
	61-70	Square Law Curve (smooth)
	71-80	Inverse Square Law Curve (smooth)
	81-90	S-Curve (smooth)
	91-255	Dimmer Mode selected in the menu
71		ID Function
	0-10	ID Disable
	11-20	ID Enable
	21-30	ID Address Channel divides by 10 and enable
	31-255	Reserved
72	0-255	ID Address



Delivery

- Expolite TourBAR 64
- Power connection cable
- General Information for Expolite Units
- User Manual

Expolite devices are carefully checked before shipment. If the delivery is not complete, please contact your distributor immediately.

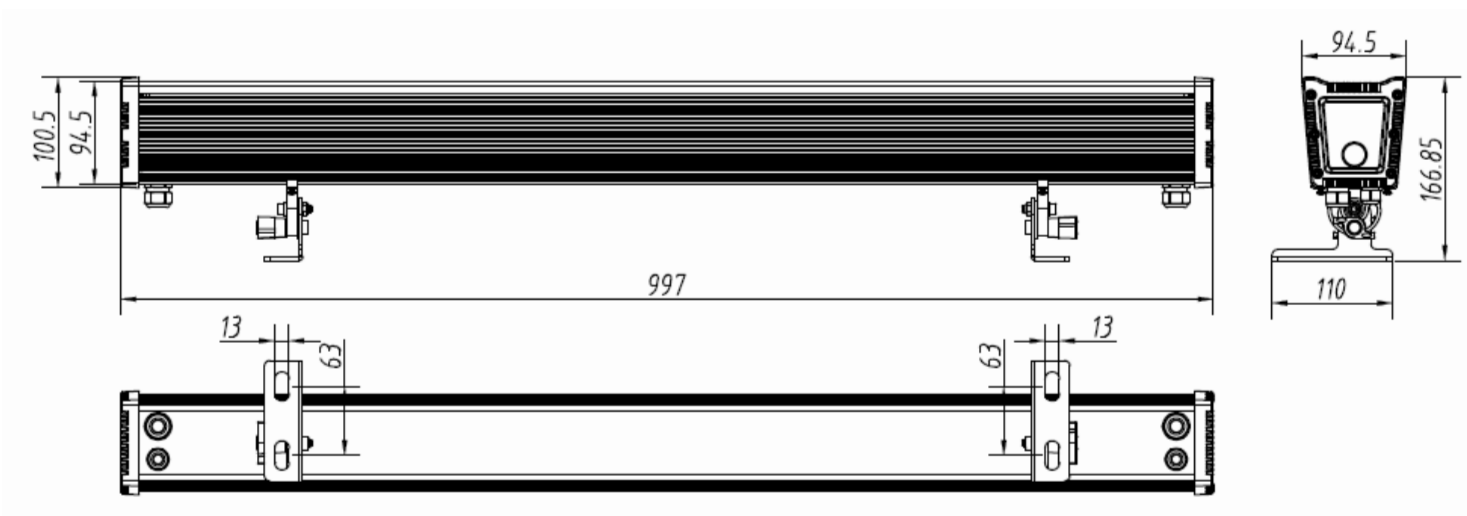
Product Information

Voltage	100V - 240V AC 50/60Hz
Power Consumption	250W
Dimensions	997 x 167 x 110 mm
Weight	8,5 kg
Connectors	Power In/Out DMX In/Out
Ambient Temperature	-20°C - 45°C
Humidity*	< 80%
Protection	IP 65
Housing	Die-cast aluminium
LEDs	16 x 15W 4in1 RGBW**
Optics	10 x 40°
Control	Stand-Alone / Master-Slave / DMX512
DMX-Channels	3 - 72 (3/4/5/10/16/24/40/48/64/72)

* Take note to General Informations for Expolite Units - Notes for Condensation inside Housing

** Tolerance in colour temperature according to LED manufacturer +/- 10%

Dimensions



Installation

Mounting

Standing

The fixture can be used in an upright position, using the mounted stands. A safe and sufficient anti-slip ground must be ensured!

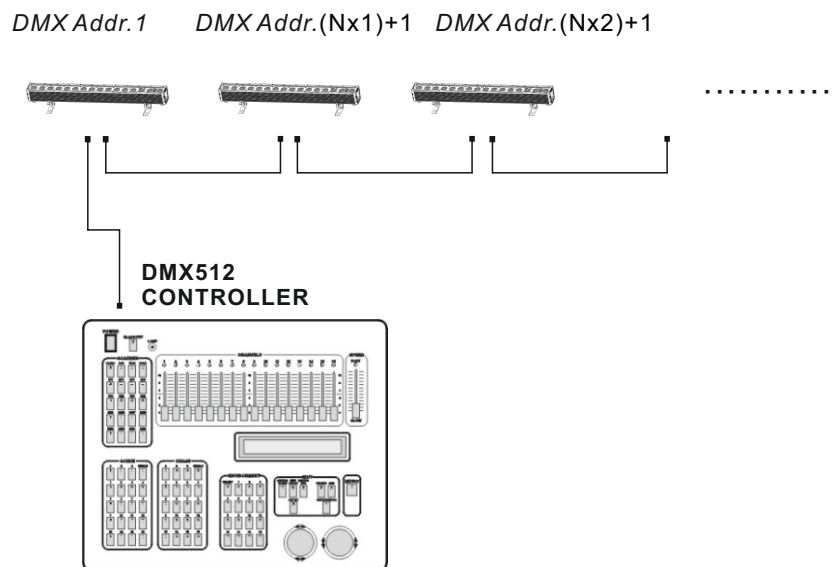
This fixture is not suitable for hanging mounting!

NOTE

The LED module can be operated in any angle. The angle of the bracket can be easily adjusted by loosening the locking screw.

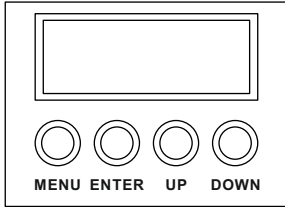
DMX-Connection

Use specified DMX-cable to connect the fixture to each other and to connect them to the control-desk. Enter the addresses and personalities to the fixture.



Operation

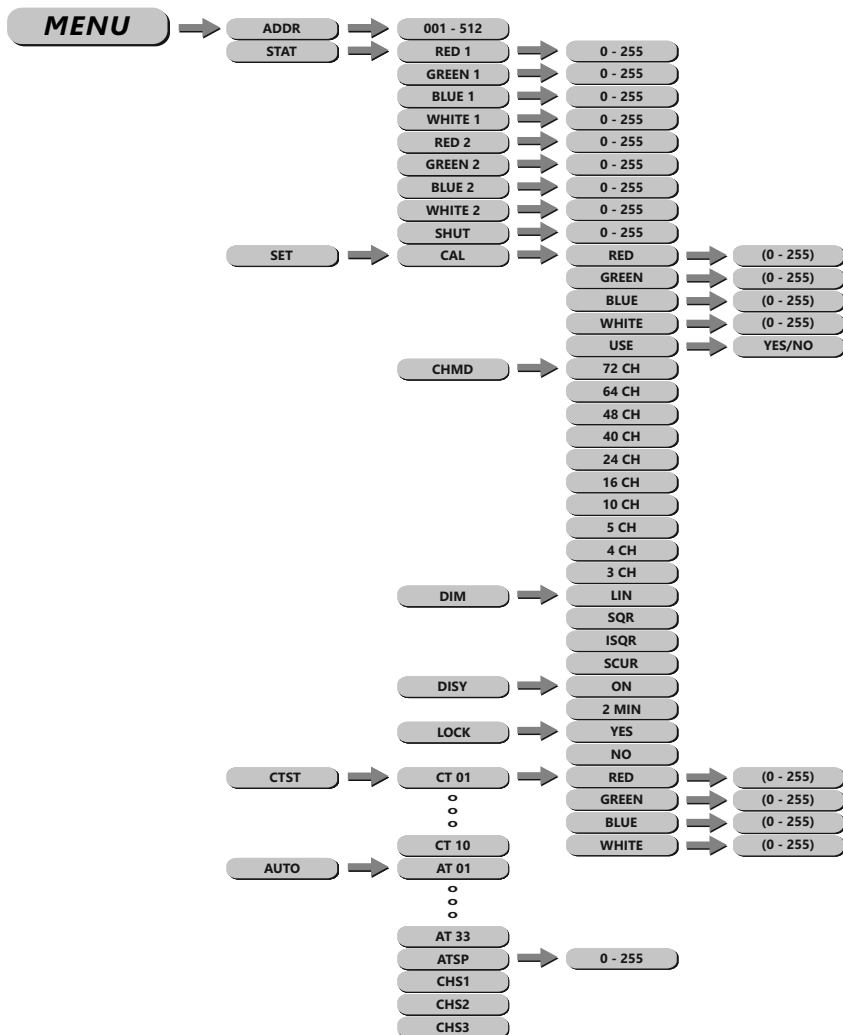
Display Operation



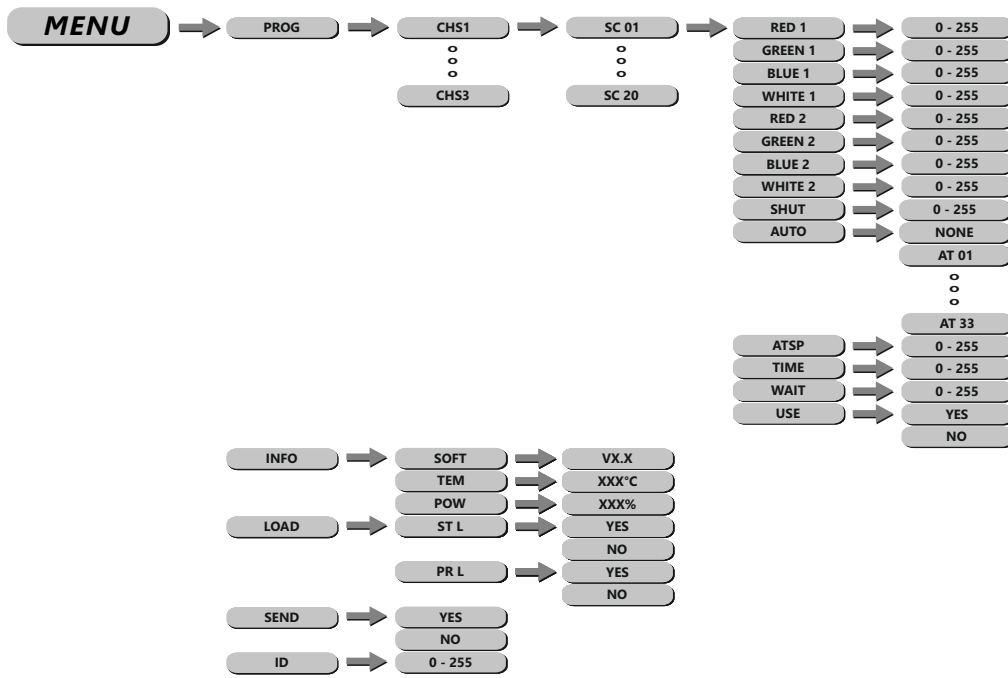
MENU:
ENTER:
UP:
DOWN:

Return to previous menu
Enter currently selected menu
Scroll Up, Increase value
Scroll down: Decrease value

Menu Map



EXPOLITE

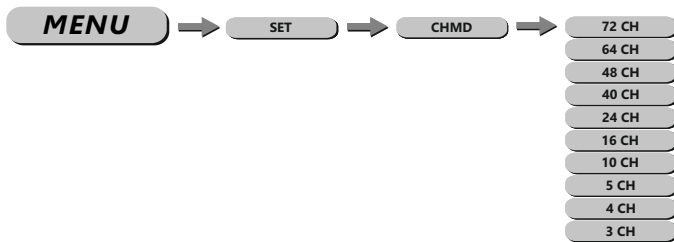


Setting DMX-Address



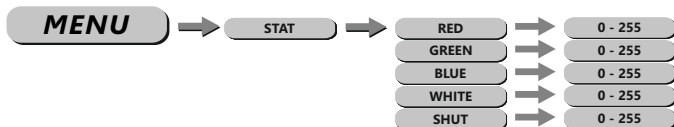
The DMX start address of the fixture is set in the menu **ADDR**. This is retained even when changing the personality.

Setting DMX-Personality



The personality is set in the menu **SETCHMD**. There are ten different modes which can be chosen: **3CH** (3 channels), **4CH** (4 channels), **5CH** (5 channels), **10CH**, (10 channels) **16CH** (16 channels), **24CH** (24 Kanäle), **40CH** (40 channels), **48CH** (48 channels), **64CH** (64 channels) and **72CH** (72 channels).

Edit Static Colours

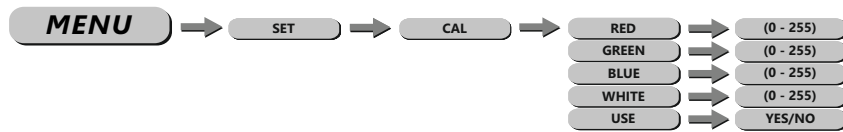


In the menu, **STATIC CONTROL** static colours for stand-alone operation can be set. These are mixed using the DMX value scale 0-255 for **RED**, **GREEN**, **BLUE** and **WHITE**, as well as the strobe value (**SHUT**) 0-20Hz.

For Static operation the Menu needs to be set to the lowest Menu-Level. [Display shows numeric parameter]

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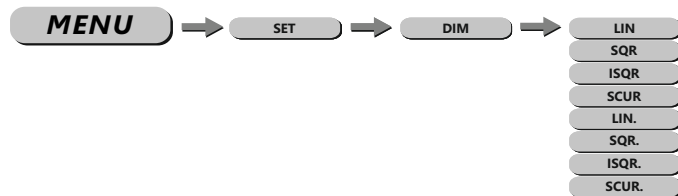
Calibration



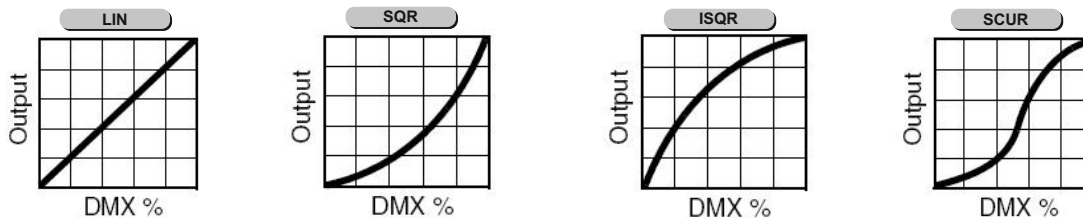
In the menu **SET\CAL** a custom colour calibration is stored. This calibration limits the maximum brightness of the colour channels at the DMX value "255". This settings can be activated (**YES**) or deactivated (**NO**) in the submenu **USE**.

NOTE: The maximum value can be limited to 0. In this case, a colour channel does not respond to a sent DMX value, which can be misinterpreted as a device error.

Dimmer Curve



In the menu **SET\DIM** it is possible to set different dim curves. Dim curves with „.“ at the end activate an additional dimming delay.



Display Mode



In the menu **SET\DISY** it is possible to control the illumination of the display after the last display input. The display can be set to turn off automatically after two minutes (**2 MIN**) or to stay illuminated generally (**ON**).

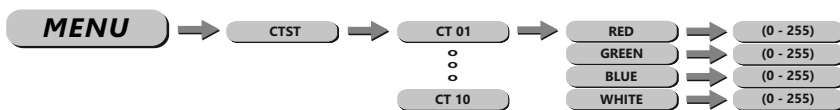
Activating Device Lock



In this menu you can lock (**ON**) or unlock (**OFF**) display to prevent fixture from unauthorised access. Enter password to unlock display.

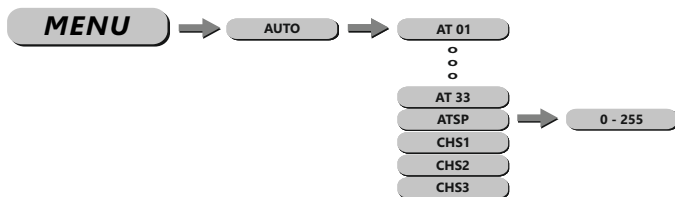
PASSWORD: UP - DOWN - UP - DOWN - ENTER

Setting Static Scenes



In the menu **CTST** up to ten custom colours (**CT 01 - CT 10**) can be created using **RED**, **GREEN**, **BLUE** and **WHITE**.

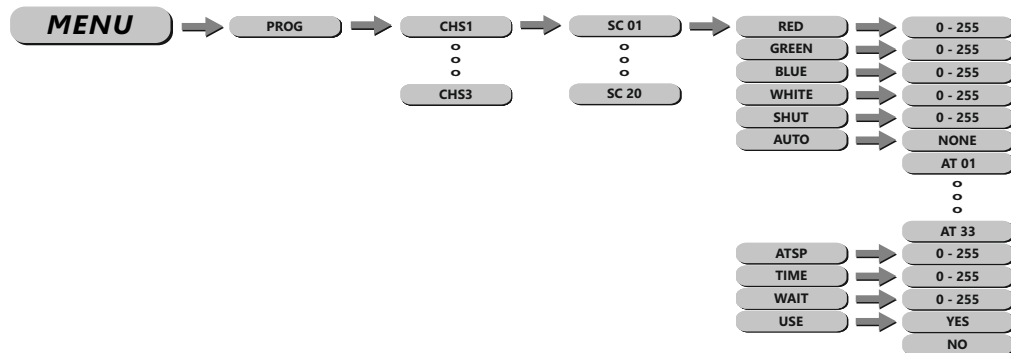
Activating Auto Programs



In the menu **AUTO**, the automatic programs stored in the device are activated. The programs **AT01** to **AT33** are permanently stored in the device. The programs **CHS1** to **CHS3** are editable. This is described under **Edit User Programs**.

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Edit User Programs

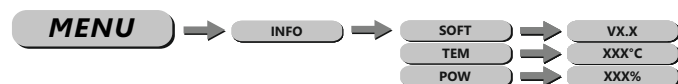


The user programs **CHS1** to **CHS3** are edited in the submenu **PROG**. Each program can use up to 20 steps. Each step contains the parameters colour **RGBW**, strobe (**SHUT**) „0-20Hz“, duration of the step (**TIME**) and crossfade time (**WAIT**).

NOTE: For less than 20 steps the **TIME** and **WAIT** of the last step needs to be set to 0.
Example for time settings of a stand-alone programm with 3 steps:

Step 1 **TIME** = 4 **WAIT** = 3 **USE** = YES
 Step 2 **TIME** = 5 **WAIT** = 2 **USE** = YES
 Step 3 **TIME** = 0 **WAIT** = 0 **USE** = YES

Info - Menu

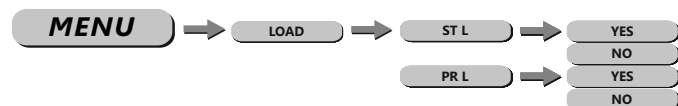


In the submenu **INFO\SOFT** the currently installed software version of the fixture is shown.

In the submenu **INFO\TEM** the current temperature of the led unit is shown.

in the submenu **INFO\POW** the current reduction of the led brightness because of overheating is shown.

Factory Defaults



In the submenu **LOAD/ST L** the changed values of the fixture can be reset to factory defaults. This doesn't affect the values of **ADDR**, **CTST** und **PROG**.

In the submenu **LOAD/PR L** the edited parameters of the user programs can be reset.

Sending Parameters to other Fixtures



In the menu **SEND** fixture parameters can be sent to other fixtures on the same DMX-line. (**YES**).

- All other fixtures (also the lighting desk) should be disconnected if possible.
- The parameters **ADDR**, **CAL** and **ID** can not be sent to other fixtures.
- After the correct transfer of the parameters, the receiving fixtures will run a reset.

Setting Fixture ID



In the menu **ID** the fixture-ID can be set from **0 - 255**.

Using DMX512 Control

DMX-Channel assignment

This device has several DMX personalities. In each personality a different number of DMX channels is used and the reaction of the device differs accordingly. There are ten DMX personalities with 3, 4, 5, 10, 16, 24, 40, 48, 64 and 72 channels selectable.

Because of changes in the firmware of the fixture, functions can be added or changed. You can find the current version „DMX-Channels“ as PDF-file on the website, ready to download.

3CH Mode

1	0-255	Red
2	0-255	Green
3	0-255	Blue

4CH Mode

1	0-255	Red
2	0-255	Green
3	0-255	Blue
4	0-255	White

5CH Mode

1	0-255	Dimmer
2	0-255	Red
3	0-255	Green
4	0-255	Blue
5	0-255	White

10CH Mode

1	0-255	Dimmer
2	0-255	Red
3	0-255	Green
4	0-255	Blue
5	0-255	White
6		Strobe
	0-5	No Strobe
	6-20	Not Synchronous Strobe (slow to fast)
	21-60	Synchronous Strobe (slow to fast)
	61-100	Electronic Sine Wave (slow to fast)
	101-140	Random Strobe (slow to fast)
	141-180	Opening Pulse (slow to fast)
	181-220	Closing Pulse (slow to fast)
221-255	Electronic Square Wave (slow to fast)	

EXPOLITE

	Effect
	0-5 No Effect
	6-10 CT01 (Custom Colour CT01)
	11-15 CT02
	16-20 CT03
	21-25 CT04
	26-30 CT05
	31-35 CT06
	36-40 CT07
	41-45 CT08
	46-50 CT09
	51-55 CT10
	56-60 Auto 1
	61-65 Auto 2
	66-70 Auto 3
	71-75 Auto 4
	76-80 Auto 5
	81-85 Auto 6
	86-90 Auto 7
	91-95 Auto 8
	96-100 Auto 9
	101-105 Auto 10
7	106-110 Auto 11
	111-115 Auto 12
	116-120 Auto 13
	121-125 Auto 14
	126-130 Auto 15
	131-135 Auto 16
	136-140 Auto 17
	141-145 Auto 18
	146-150 Auto 19
	151-155 Auto 20
	156-160 Auto 21
	161-165 Auto 22
	166-170 Auto 23
	171-175 Auto 24
	176-180 Auto 25
	181-185 Auto 26
	186-190 Auto 27
	191-195 Auto 28
	196-200 Auto 29
	201-205 Auto 30
	206-210 Auto 31
	211-215 Auto 32
	216-220 Auto 33
	221-225 Chase 1

EXPOLITE

7	226-230	Chase 2
	231-235	Chase 3
	236-255	Reserved
8	0-255	Auto Speed
9		Virtual Colour Wheel
	0-10	No Effect
	11	Blue
	12-50	Full Blue + Green Increasing
	51	Cyan
	52-90	Full Green + Blue Decreasing
	91	Green
	92-130	Full Green + Red Increasing
	131	Yellow
	132-170	Full Red + Green Decreasing
	171	Red
	172-210	Full Red + Blue Increasing
	211	Magenta
	212-250	Full Blue + Red Decreasing
251-255	Blue	
10		Dimmer Mode
	0-10	Dimmer Mode selected in the menu
	11-20	Linear Curve (not smooth)
	21-30	Square Law Curve (not smooth)
	31-40	Inverse Square Law Curve (not smooth)
	41-50	S-Curve (not smooth)
	51-60	Linear Curve (smooth)
	61-70	Square Law Curve (smooth)
	71-80	Inverse Square Law Curve (smooth)
	81-90	S-Curve (smooth)
91-255	Dimmer Mode selected in the menu	

EXPOLITE

16CH Mode		
1	0-255	Dimmer
2	0-255	Red 1
3	0-255	Green 1
4	0-255	Blue 1
5	0-255	White 1
6	0-255	Red 2
7	0-255	Green 2
8	0-255	Blue 2
9	0-255	White 2
10		Strobe
	0-5	No Strobe
	6-20	Not Synchronous Strobe (slow to fast)
	21-60	Synchronous Strobe (slow to fast)
	61-100	Electronic Sine Wave (slow to fast)
	101-140	Random Strobe (slow to fast)
	141-180	Opening Pulse (slow to fast)
	181-220	Closing Pulse (slow to fast)
221-255	Electronic Square Wave (slow to fast)	
11		Effect
	0-5	No Effect
	6-10	CT01 (Custom Colour CT01)
	11-15	CT02
	16-20	CT03
	21-25	CT04
	26-30	CT05
	31-35	CT06
	36-40	CT07
	41-45	CT08
	46-50	CT09
	51-55	CT10
	56-60	Auto 1
	61-65	Auto 2
	66-70	Auto 3
	71-75	Auto 4
	76-80	Auto 5
	81-85	Auto 6
	86-90	Auto 7
	91-95	Auto 8
	96-100	Auto 9
	101-105	Auto 10
	106-110	Auto 11
	111-115	Auto 12
116-120	Auto 13	
121-125	Auto 14	
126-130	Auto 15	
131-135	Auto 16	

EXPOLITE

11	136-140	Auto 17
	141-145	Auto 18
	146-150	Auto 19
	151-155	Auto 20
	156-160	Auto 21
	161-165	Auto 22
	166-170	Auto 23
	171-175	Auto 24
	176-180	Auto 25
	181-185	Auto 26
	186-190	Auto 27
	191-195	Auto 28
	196-200	Auto 29
	201-205	Auto 30
	206-210	Auto 31
	211-215	Auto 32
	216-220	Auto 33
	221-225	Chase 1
226-230	Chase 2	
231-235	Chase 3	
236-255	Reserved	
12	0-255	Auto Speed
13		Virtual Colour Wheel
	0-10	No Effect
	11	Blue
	12-50	Full Blue + Green Increasing
	51	Cyan
	52-90	Full Green + Blue Decreasing
	91	Green
	92-130	Full Green + Red Increasing
	131	Yellow
	132-170	Full Red + Green Decreasing
	171	Red
	172-210	Full Red + Blue Increasing
	211	Magenta
	212-250	Full Blue + Red Decreasing
251-255	Blue	
14		Dimmer Mode
	0-10	Dimmer Mode selected in the menu
	11-20	Linear Curve (not smooth)
	21-30	Square Law Curve (not smooth)
	31-40	Inverse Square Law Curve (not smooth)
	41-50	S-Curve (not smooth)
	51-60	Linear Curve (smooth)
	61-70	Square Law Curve (smooth)
71-80	Inverse Square Law Curve (smooth)	

EXPOLITE

14	81-90	S-Curve (smooth)
	91-255	Dimmer Mode selected in the menu
15		ID Function
	0-10	ID Disable
	11-20	ID Enable
	21-30	ID Address Channel divides by 10 and enable
	31-255	Reserved
16	0-255	ID Address

40CH Mode

1	0-255	Dimmer
2	0-255	Red 1
3	0-255	Green 1
4	0-255	Blue 1
5	0-255	White 1
6	0-255	Red 2
7	0-255	Green 2
8	0-255	Blue 2
9	0-255	White 2
10	0-255	Red 3
11	0-255	Green 3
12	0-255	Blue 3
13	0-255	White 3
14	0-255	Red 4
15	0-255	Green 4
16	0-255	Blue 4
17	0-255	White 4
18	0-255	Red 5
19	0-255	Green 5
20	0-255	Blue 5
21	0-255	White 5
22	0-255	Red 6
23	0-255	Green 6
24	0-255	Blue 6
25	0-255	White 6
26	0-255	Red 7
27	0-255	Green 7
28	0-255	Blue 7
29	0-255	White 7
30	0-255	Red 8
31	0-255	Green 8
32	0-255	Blue 8
33	0-255	White 8

EXPOLITE

34		Strobe
	0-5	No Strobe
	6-20	Not Synchronous Strobe (slow to fast)
	21-60	Synchronous Strobe (slow to fast)
	61-100	Electronic Sine Wave (slow to fast)
	101-140	Random Strobe (slow to fast)
	141-180	Opening Pulse (slow to fast)
	181-220	Closing Pulse (slow to fast)
	221-255	Electronic Square Wave (slow to fast)
35		Effect
	0-5	No Effect
	6-10	CT01 (Custom Colour CT01)
	11-15	CT02
	16-20	CT03
	21-25	CT04
	26-30	CT05
	31-35	CT06
	36-40	CT07
	41-45	CT08
	46-50	CT09
	51-55	CT10
	56-60	Auto 1
	61-65	Auto 2
	66-70	Auto 3
	71-75	Auto 4
	76-80	Auto 5
	81-85	Auto 6
	86-90	Auto 7
	91-95	Auto 8
	96-100	Auto 9
	101-105	Auto 10
	106-110	Auto 11
	111-115	Auto 12
	116-120	Auto 13
	121-125	Auto 14
	126-130	Auto 15
	131-135	Auto 16
	136-140	Auto 17
	141-145	Auto 18
	146-150	Auto 19
	151-155	Auto 20
	156-160	Auto 21
161-165	Auto 22	
166-170	Auto 23	
171-175	Auto 24	
176-180	Auto 25	
181-185	Auto 26	

EXPOLITE

36	186-190	Auto 27
	191-195	Auto 28
	196-200	Auto 29
	201-205	Auto 30
	206-210	Auto 31
	211-215	Auto 32
	216-220	Auto 33
	221-225	Chase 1
	226-230	Chase 2
	231-235	Chase 3
	236-255	Reserved
36	0-255	Auto Speed
37		Virtual Colour Wheel
	0-10	No Effect
	11	Blue
	12-50	Full Blue + Green Increasing
	51	Cyan
	52-90	Full Green + Blue Decreasing
	91	Green
	92-130	Full Green + Red Increasing
	131	Yellow
	132-170	Full Red + Green Decreasing
	171	Red
	172-210	Full Red + Blue Increasing
	211	Magenta
	212-250	Full Blue + Red Decreasing
251-255	Blue	
38		Dimmer Mode
	0-10	Dimmer Mode selected in the menu
	11-20	Linear Curve (not smooth)
	21-30	Square Law Curve (not smooth)
	31-40	Inverse Square Law Curve (not smooth)
	41-50	S-Curve (not smooth)
	51-60	Linear Curve (smooth)
	61-70	Square Law Curve (smooth)
	71-80	Inverse Square Law Curve (smooth)
	81-90	S-Curve (smooth)
91-255	Dimmer Mode selected in the menu	
39		ID Function
	0-10	ID Disable
	11-20	ID Enable
	21-30	ID Address Channel divides by 10 and enable
	31-255	Reserved
40	0-255	ID Address

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48CH Mode		
1	0-255	Red 1
2	0-255	Green 1
3	0-255	Blue 1
4	0-255	Red 2
5	0-255	Green 2
6	0-255	Blue 2
7	0-255	Red 3
8	0-255	Green 3
9	0-255	Blue 3
10	0-255	Red 4
11	0-255	Green 4
12	0-255	Blue 4
13	0-255	Red 5
14	0-255	Green 5
15	0-255	Blue 5
16	0-255	Red 6
17	0-255	Green 6
18	0-255	Blue 6
19	0-255	Red 7
20	0-255	Green 7
21	0-255	Blue 7
22	0-255	Red 8
23	0-255	Green 8
24	0-255	Blue 8
25	0-255	Red 9
26	0-255	Green 9
27	0-255	Blue 9
28	0-255	Red 10
29	0-255	Green 10
30	0-255	Blue 10
31	0-255	Red 11
32	0-255	Green 11
33	0-255	Blue 11
34	0-255	Red 12
35	0-255	Green 12
36	0-255	Blue 12
37	0-255	Red 13
38	0-255	Green 13
39	0-255	Blue 13
40	0-255	Red 14
41	0-255	Green 14
42	0-255	Blue 14
43	0-255	Red 15
44	0-255	Green 15

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45	0-255	Blue 15
46	0-255	Red 16
47	0-255	Green 16
48	0-255	Blue 16

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64CH Mode

1	0-255	Red 1
2	0-255	Green 1
3	0-255	Blue 1
4	0-255	White 1
5	0-255	Red 2
6	0-255	Green 2
7	0-255	Blue 2
8	0-255	White 2
9	0-255	Red 3
10	0-255	Green 3
11	0-255	Blue 3
12	0-255	White 3
13	0-255	Red 4
14	0-255	Green 4
15	0-255	Blue 4
16	0-255	White 4
17	0-255	Red 5
18	0-255	Green 5
19	0-255	Blue 5
20	0-255	White 5
21	0-255	Red 6
22	0-255	Green 6
23	0-255	Blue 6
24	0-255	White 6
25	0-255	Red 7
26	0-255	Green 7
27	0-255	Blue 7
28	0-255	White 7
29	0-255	Red 8
30	0-255	Green 8
31	0-255	Blue 8
32	0-255	White 8
33	0-255	Red 9
34	0-255	Green 9
35	0-255	Blue 9
36	0-255	White 9
37	0-255	Red 10
38	0-255	Green 10
39	0-255	Blue 10
40	0-255	White 10
41	0-255	Red 11
42	0-255	Green 11
43	0-255	Blue 11
44	0-255	White 11

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45	0-255	Red 12
46	0-255	Green 12
47	0-255	Blue 12
48	0-255	White 12
49	0-255	Red 13
50	0-255	Green 13
51	0-255	Blue 13
52	0-255	White 13
53	0-255	Red 14
54	0-255	Green 14
55	0-255	Blue 14
56	0-255	White 14
57	0-255	Red 15
58	0-255	Green 15
59	0-255	Blue 15
60	0-255	White 15
61	0-255	Red 16
62	0-255	Green 16
63	0-255	Blue 16
64	0-255	White 16

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72CH Mode

1	0-255	Dimmer
2	0-255	Red 1
3	0-255	Green 1
4	0-255	Blue 1
5	0-255	White 1
6	0-255	Red 2
7	0-255	Green 2
8	0-255	Blue 2
9	0-255	White 2
10	0-255	Red 3
11	0-255	Green 3
12	0-255	Blue 3
13	0-255	White 3
14	0-255	Red 4
15	0-255	Green 4
16	0-255	Blue 4
17	0-255	White 4
18	0-255	Red 5
19	0-255	Green 5
20	0-255	Blue 5
21	0-255	White 5
22	0-255	Red 6
23	0-255	Green 6
24	0-255	Blue 6
25	0-255	White 6
26	0-255	Red 7
27	0-255	Green 7
28	0-255	Blue 7
29	0-255	White 7
30	0-255	Red 8
31	0-255	Green 8
32	0-255	Blue 8
33	0-255	White 8
34	0-255	Red 9
35	0-255	Green 9
36	0-255	Blue 9
37	0-255	White 9
38	0-255	Red 10
39	0-255	Green 10
40	0-255	Blue 10
41	0-255	White 10
42	0-255	Red 11
43	0-255	Green 11

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44	0-255	Blue 11
45	0-255	White 11
46	0-255	Red 12
47	0-255	Green 12
48	0-255	Blue 12
49	0-255	White 12
50	0-255	Red 13
51	0-255	Green 13
52	0-255	Blue 13
53	0-255	White 13
54	0-255	Red 14
55	0-255	Green 14
56	0-255	Blue 14
57	0-255	White 14
58	0-255	Red 15
59	0-255	Green 15
60	0-255	Blue 15
61	0-255	White 15
62	0-255	Red 16
63	0-255	Green 16
64	0-255	Blue 16
65	0-255	White 16
66		Strobe
	0-5	No Strobe
	6-20	Not Synchronous Strobe (slow to fast)
	21-60	Synchronous Strobe (slow to fast)
	61-100	Electronic Sine Wave (slow to fast)
	101-140	Random Strobe (slow to fast)
	141-180	Opening Pulse (slow to fast)
	181-220	Closing Pulse (slow to fast)
221-255	Electronic Square Wave (slow to fast)	
67		Effect
	0-5	No Effect
	6-10	CT01 (Custom Colour CT01)
	11-15	CT02
	16-20	CT03
	21-25	CT04
	26-30	CT05
	31-35	CT06
	36-40	CT07
	41-45	CT08
	46-50	CT09
	51-55	CT10
	56-60	Auto 1
	61-65	Auto 2
66-70	Auto 3	

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67	71-75	Auto 4
	76-80	Auto 5
	81-85	Auto 6
	86-90	Auto 7
	91-95	Auto 8
	96-100	Auto 9
	101-105	Auto 10
	106-110	Auto 11
	111-115	Auto 12
	116-120	Auto 13
	121-125	Auto 14
	126-130	Auto 15
	131-135	Auto 16
	136-140	Auto 17
	141-145	Auto 18
	146-150	Auto 19
	151-155	Auto 20
	156-160	Auto 21
	161-165	Auto 22
	166-170	Auto 23
	171-175	Auto 24
	176-180	Auto 25
	181-185	Auto 26
	186-190	Auto 27
	191-195	Auto 28
	196-200	Auto 29
	201-205	Auto 30
	206-210	Auto 31
	211-215	Auto 32
	216-220	Auto 33
221-225	Chase 1	
226-230	Chase 2	
231-235	Chase 3	
236-255	Reserved	
68	0-255	Auto Speed
69		Virtual Colour Wheel
	0-10	No Effect
	11	Blue
	12-50	Full Blue + Green Increasing
	51	Cyan
	52-90	Full Green + Blue Decreasing
	91	Green
	92-130	Full Green + Red Increasing
	131	Yellow
	132-170	Full Red + Green Decreasing
	171	Red
	172-210	Full Red + Blue Increasing

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69	211	Magenta
	212-250	Full Blue + Red Decreasing
	251-255	Blue
70		Dimmer Mode
	0-10	Dimmer Mode selected in the menu
	11-20	Linear Curve (not smooth)
	21-30	Square Law Curve (not smooth)
	31-40	Inverse Square Law Curve (not smooth)
	41-50	S-Curve (not smooth)
	51-60	Linear Curve (smooth)
	61-70	Square Law Curve (smooth)
	71-80	Inverse Square Law Curve (smooth)
	81-90	S-Curve (smooth)
	91-255	Dimmer Mode selected in the menu
71		ID Function
	0-10	ID Disable
	11-20	ID Enable
	21-30	ID Address Channel divides by 10 and enable
	31-255	Reserved
72	0-255	ID Address

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CE RoHS