

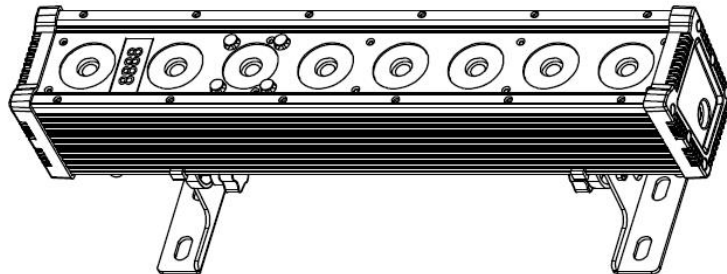
# EXPOLITE

## TourBar 32PIX

# Bedienungsanleitung User Manual

Art.Nr.: led21165

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. 2019-34-41



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.



by

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## Lieferumfang

- Expolite TourBAR 32PIX
- Anschlusskabel für Spannungsversorgung
- Bedienhinweise für Expolite Geräte
- Bedienungsanleitung

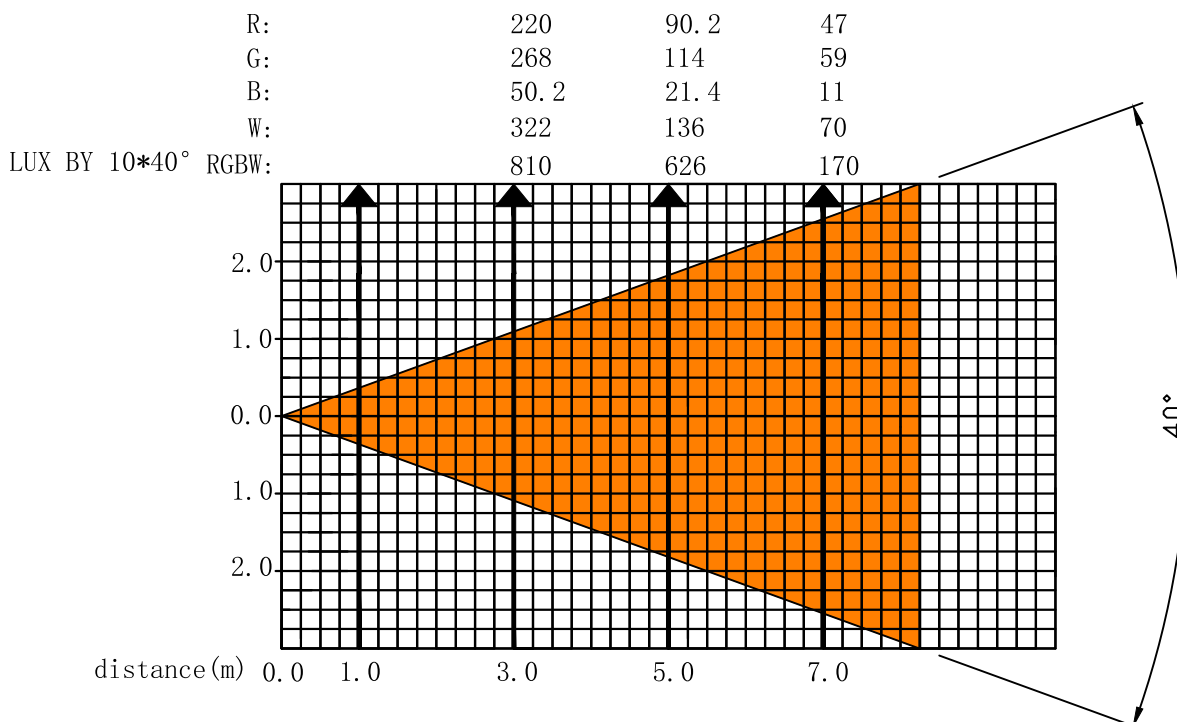
Expolite Geräte werden vor dem Versand sorgfältig geprüft. Sollte der Lieferumfang dennoch nicht vollständig sein, wenden Sie sich bitte umgehend an Ihren Vertriebspartner.

## Technische Daten

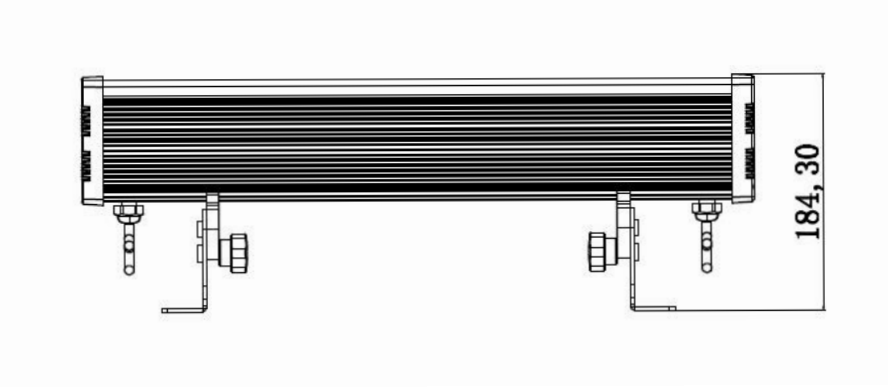
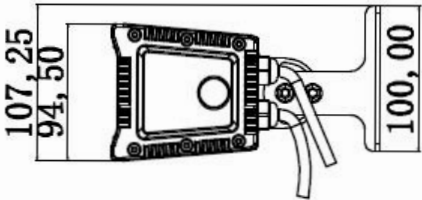
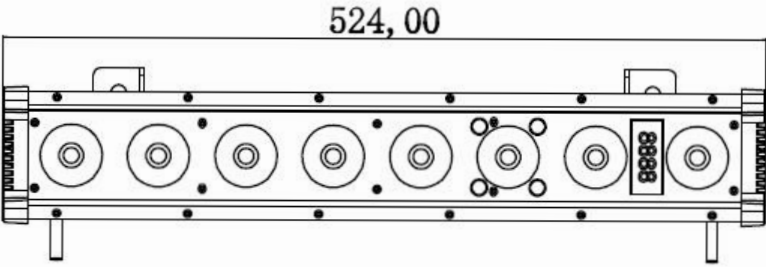
Spannungsversorgung	100V - 240V AC 50/60Hz
Maximale Leistungsaufnahme	100W
Abmessungen	524 x 184 x 108 mm
Gewicht	4,2 kg
Anschlüsse	Power In/Out   DMX In/Out
Betriebstemperatur	-20°C - 45°C
Luftfeuchtigkeit*	< 80%
Schutzklasse	IP 65
Gehäuse	Aluminiumdruckguss Gehäuse
LEDs	8 x 15W 4in1 RGBW**
Abstrahlwinkel	10 x 40°
Steuerung	Stand-Alone / Master-Slave / DMX512
DMX-Kanäle	3 - 40 (3/4/5/10/16/24/24/32/40)

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

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



# Abmessungen



## Installation

### Montage

#### Hängend

Das Gerät kann am Haltebügel hängend montiert werden. Geräte müssen entsprechend der jeweils gültigen Vorschriften sicher montiert und mit einer zweiten Sicherung gegen Herabfallen versehen werden.

#### Stehend

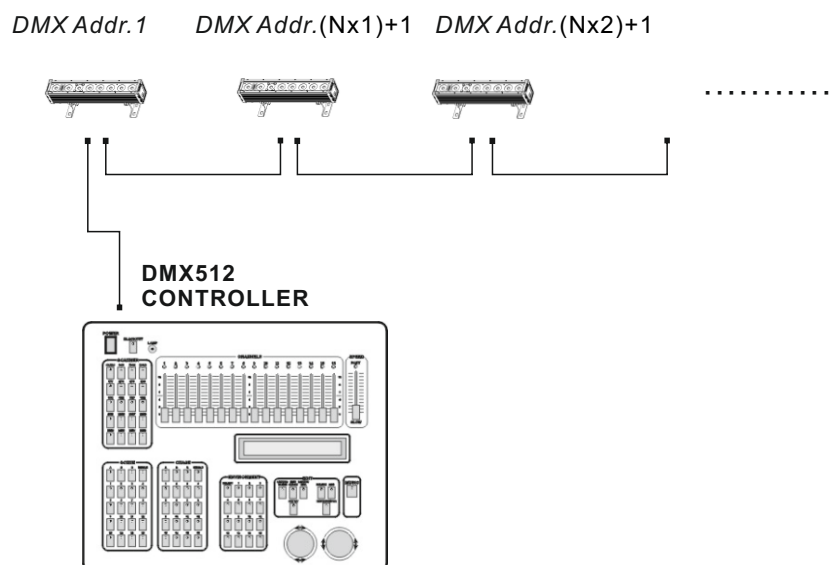
Das Gerät kann stehend auf den montierten Standfüßen betrieben werden. Eine sichere und ausreichend rutschhemmende Standfläche ist sicherzustellen!

### HINWEIS

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

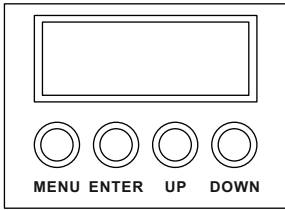
### DMX-Verbindung

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



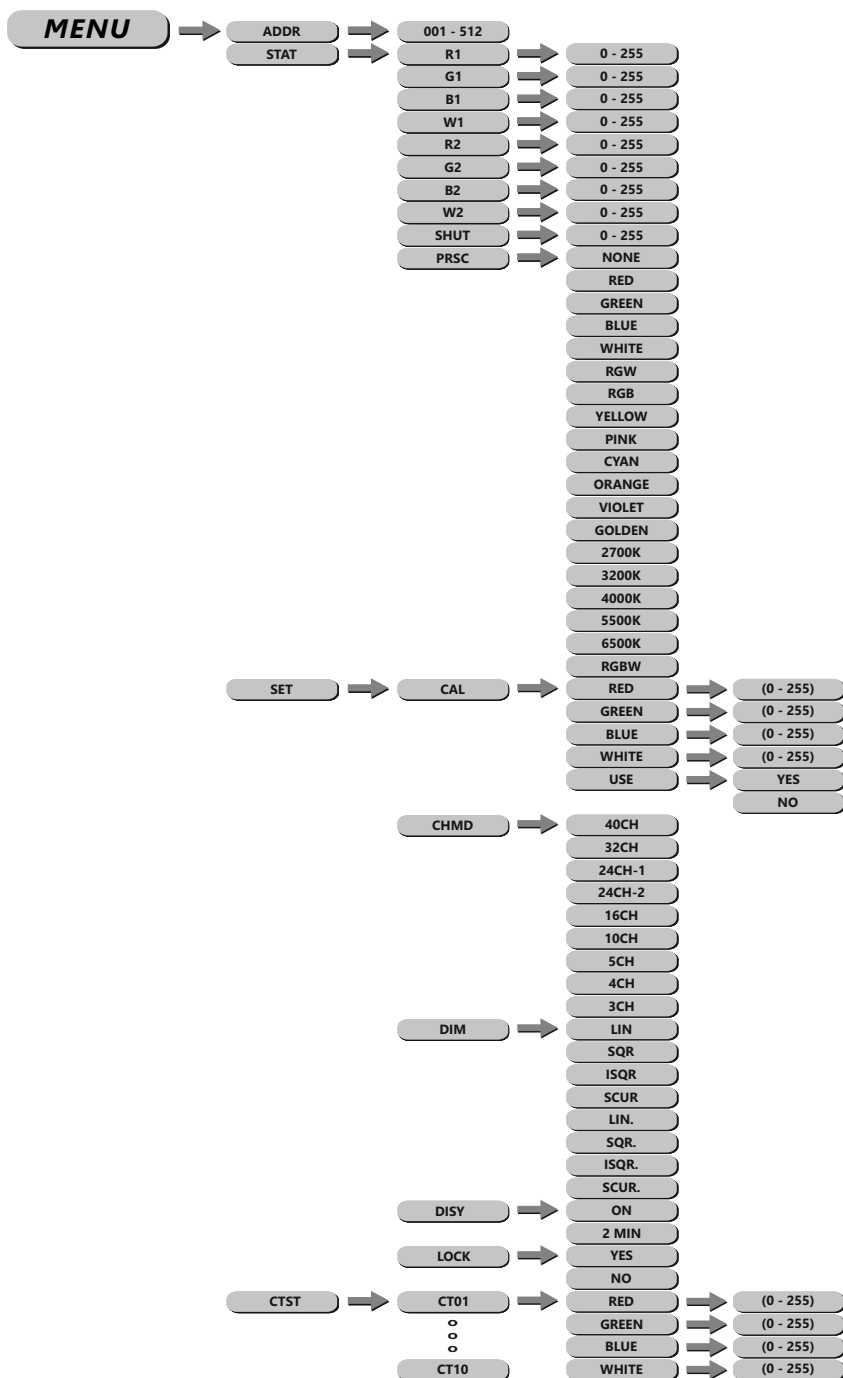
## Bedienung

### Bedienelemente am Gerät



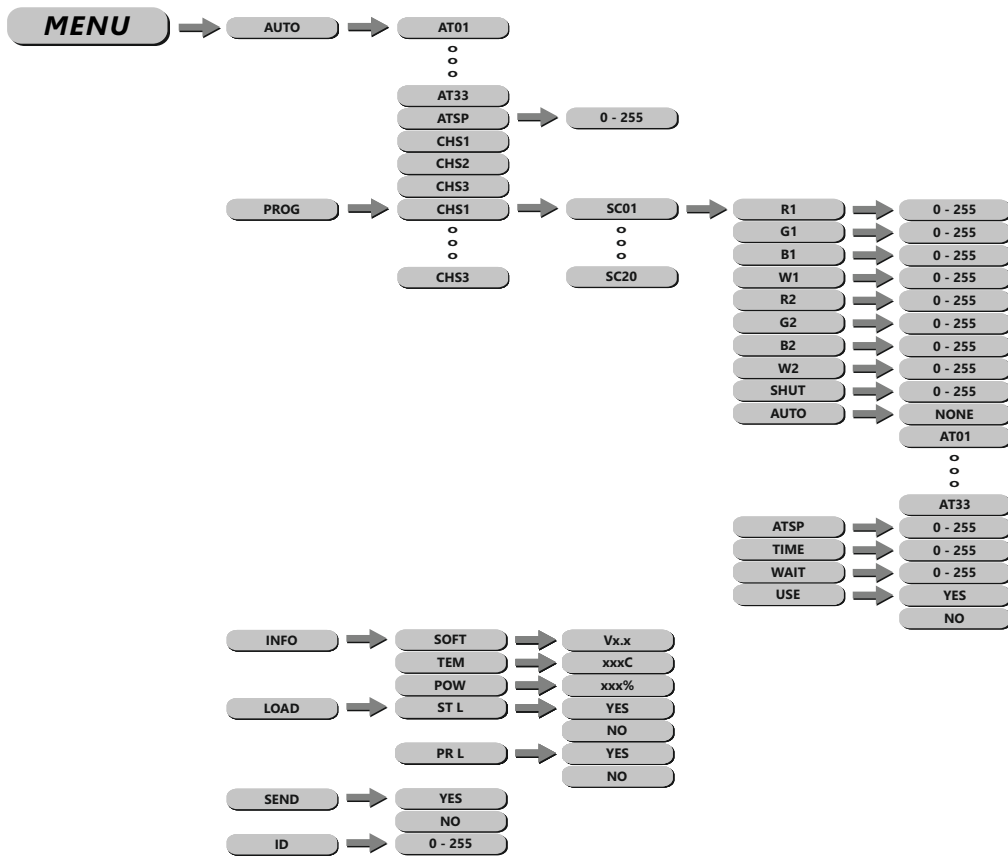
MENU - Taste: Eine Menüebene aufwärts  
 ENTER-Taste: In gewähltes Menü springen; Eingabe bestätigen  
 UP-Taste: Aufwärts blättern; Wert erhöhen  
 DOWN-Taste: Abwärts blättern; Wert verringern

### Menüstruktur





# EXPOLITE

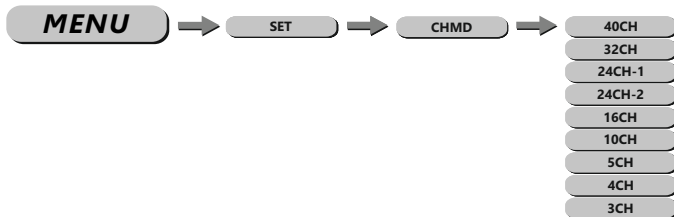


## DMX-Adresse einstellen



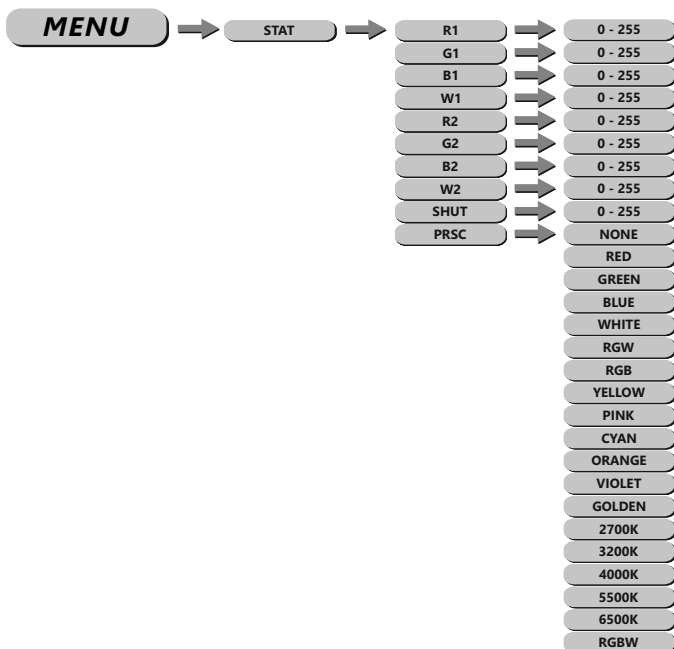
Im Menü wird im Punkt **ADDR** die DMX-Startadresse des Gerätes eingestellt. Diese bleibt auch bei dem Wechsel der Personality erhalten.

## DMX-Kanalbelegung einstellen



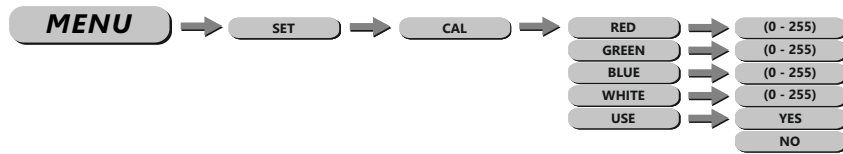
Im Menü wird unter **SET**, Untermenü **CHMD** die Belegung der DMX-Kanäle des Gerätes festgelegt. Es stehen die Modi **3CH** (3 Kanäle), **4CH** (4 Kanäle), **5CH** (5 Kanäle), **10CH** (10 Kanäle), **16CH** (16 Kanäle), **24CH-1** (24 Kanäle), **24CH-2** (24 Kanäle), **32CH** (32 Kanäle) und **40CH** (40 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 1 (**R1**), Grün 1 (**G1**), Blau 1 (**B1**), Weiß 1 (**W1**), Rot 2 (**R2**), Grün 2 (**R2**), Blau 2 (**B2**), Weiß 2 (**W2**), sowie des Stroboskopwertes (**SHUT**) gemischt. Außerdem gibt es die Möglichkeit unter **PRSC** verschiedene vorgefertigte Farben abzurufen. Für den Betrieb im Statik-Mode muss das Menü in der unteren Menüebene stehen. [Display zeigt den Wert eines eingestellten Parameters]

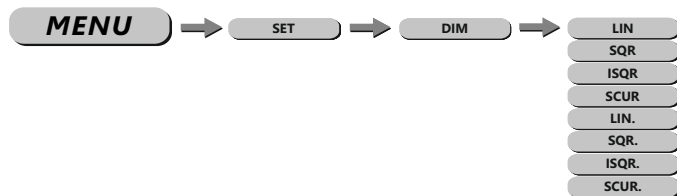
## Kalibrierung



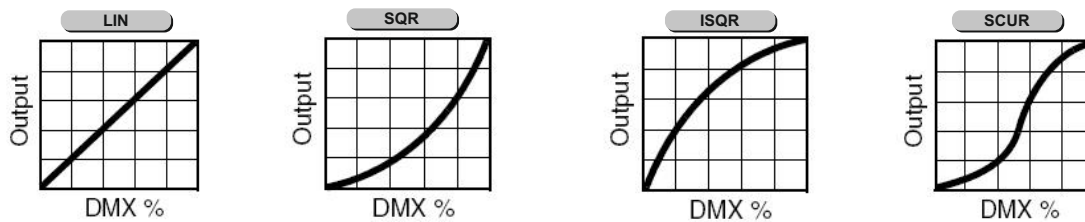
Im Menüpunkt **SET** wird unter **CAL** eine benutzerdefinierte Farbkalibrierung gespeichert. Diese begrenzt die maximale Helligkeit der Farbkanäle bei dem DMX-Wert „255“. Im Untermenü **USE** können diese Einstellungen aktiviert (**YES**) oder deaktiviert werden (**NO**).

**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**, Untermenü **DIM** können verschiedene Dimmerkurven gewählt werden. Bei den Dimmerkurven mit einem „.“ am Ende wird zusätzlich ein Delay im Dimmer aktiviert.



## Display Mode



Im Menü **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.

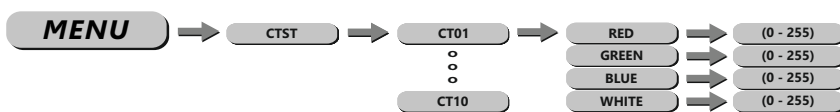
## Aktivieren des Passwortschutzes



Im Menü **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**).

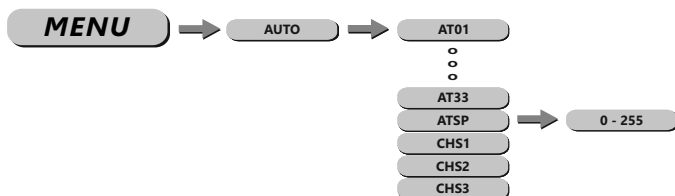
**PASSWORD: UP - DOWN - UP - DOWN - ENTER**

## Benutzerdefinierte statische Szenen



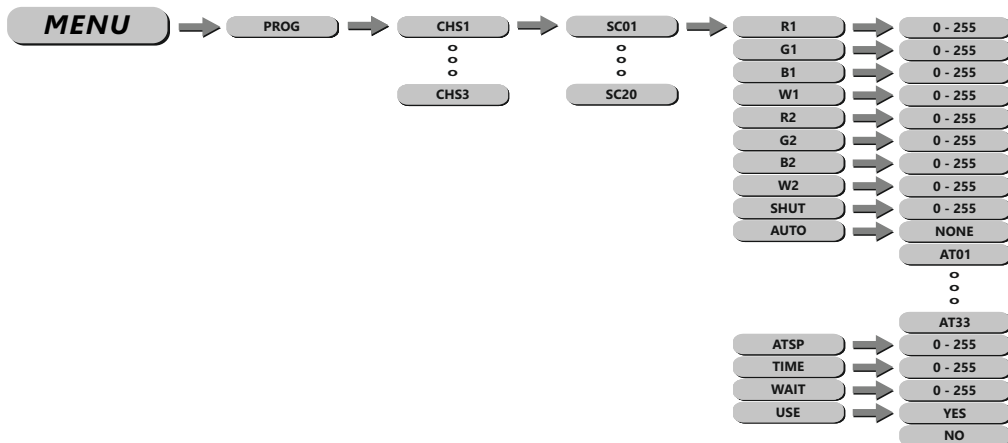
Im Menü **CTST** können zehn benutzerdefinierte Farben (**CT01 - CT10**) aus den Einzelfarben Rot (**R**), Grün (**G**), Blau (**B**) und Weiß (**W**) erstellt werden.

## Automatik-Programme



Im Menü **AUTO** können 33 vorgegebene Auto-Programme (**AT01- AT33**) 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 **RGBW1+RGBW2**, Stroboskop (**SHUT**), **AUTO**, Dauer des Steps (**TIME**) und Überblendzeit (**WAIT**). Über den Parameter **USE**, können einzelne Schritte aktiviert (**YES**) oder deaktiviert (**NO**) werden.

Benutzerprogramme können auf andere Geräte überspielt werden, siehe Master-/Slave Menü.

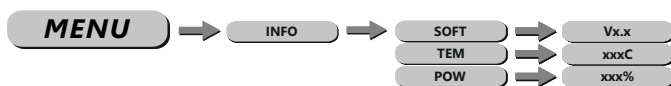
Schrittweise Programmierung des Custom-Stand-Alone Programmes mit bis zu 20 verschiedenen Schritten:

**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	<b>TIME</b> = 4	<b>WAIT</b> = 3	<b>USE</b> = YES
Step 2	<b>TIME</b> = 5	<b>WAIT</b> = 2	<b>USE</b> = YES
Step 3	<b>TIME</b> = 0	<b>WAIT</b> = 0	<b>USE</b> = YES

## Info-Menü

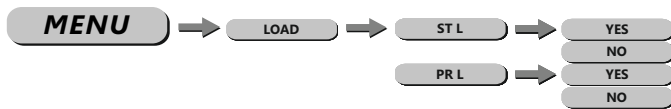


Im Menü **INFO**, Untermenü **SOFT** wird die aktuell installierte Softwareversion des Gerätes angezeigt.

Im Menü **INFO**, Untermenü **TEM** wird die aktuelle Temperatur der Lampenplatine angezeigt.

Im Menü **INFO**, Untermenü **POW** wird die z.Zt. aktive Leistungsreduktion bei Überhitzung der LED-Einheit eingestellt.

## Zurücksetzen auf Werkseinstellungen



Im Menü **LOAD**, Untermenü **ST L** kann das Gerät auf die Werkseinstellungen zurückgesetzt werden. Davon ausgenommen sind die Werte **ADDR**, **CTST** und **PROG**.

Im Menü **LOAD**, Untermenü **PR L** können alle vom User selbst programmierten Parameter (z.B. im Menü **CTST**) zurückgesetzt werden.

## Übertragen von Einstellungen zu anderen Geräten



Im Menü **SEND** können verschiedene Einstellungen zu anderen Geräten des selben Types auf der selben DMX-Linie übertragen werden (**YES**).

- Dafür sollten, falls möglich, alle anderen Geräte (auch das Lichtsteuerpult) von der DMX-Linie getrennt werden.

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

- Falls der Transfer korrekt durchgeführt wurde, fahren die Geräte, die Daten empfangen haben, einen Reset.

## 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 9 DMX-Personalities (3-/4-/5-/10-/16-/24-/24-/32-/40-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

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

#### 4CH

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

#### 5CH

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

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## 10CH

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 Function
	6-20	Asynchronous 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)
7		Effect
	0-5	No Effect
	6-10	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	AT01
	61-65	AT02
	66-70	AT03
	71-75	AT04
	76-80	AT05
	81-85	AT06
	86-90	AT07
	91-95	AT08
	96-100	AT09
	101-105	AT10
	106-110	AT11
	111-115	AT12
	116-120	AT13
	121-125	AT14
	126-130	AT15
131-135	AT16	
136-140	AT17	
141-145	AT18	
146-150	AT19	



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7	151-155	AT20
	156-160	AT21
	161-165	AT22
	166-170	AT23
	171-175	AT24
	176-180	AT25
	181-185	AT26
	186-190	AT27
	191-195	AT28
	196-200	AT29
	201-205	AT30
	206-210	AT31
	211-215	AT32
	216-220	AT33
	221-225	CHS1
	226-230	CHS2
231-235	CHS3	
236-255	Reserved	
8	0-255	Auto Speed
9		Virtual Colour Wheel
	0-10	No Function
	11	Blue
	12-50	Blue 100% + Green Up
	51	Cyan
	52-90	Green 100% + Blue Down
	91	Green
	92-130	Green 100% + Red Up
	131	Yellow
	132-170	Red 100% + Green Down
	171	Red
	172-210	Red 100% + Blue Up
	211	Magenta
	212-250	Blue 100% + Red Down
251-255	Blue	
10		Dimmer Mode
	0-10	Dimmer Mode set in the Fixture menu is used
	11-20	Linear Curve without Delay
	21-30	Square Law Curve without Delay
	31-40	Inverse Square Law Curve without Delay
	41-50	S-Curve without Delay
	51-60	Linear Curve with Delay
	61-70	Square Law Curve with Delay
	71-80	Inverse Square Law Curve with Delay
	81-90	S-Curve with Delay
	91-255	Dimmer Mode set in the Fixture menu is used

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## 16CH

1	0-255	Dimmer
2	0-255	Red1
3	0-255	Green1
4	0-255	Blue1
5	0-255	White1
6	0-255	Red2
7	0-255	Green2
8	0-255	Blue2
9	0-255	White2
10		Strobe
	0-5	No Function
	6-20	Asynchronous 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
	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	AT01
	61-65	AT02
	66-70	AT03
	71-75	AT04
	76-80	AT05
	81-85	AT06
	86-90	AT07
	91-95	AT08
	96-100	AT09
101-105	AT10	
106-110	AT11	
111-115	AT12	
116-120	AT13	
121-125	AT14	
126-130	AT15	

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11	131-135	AT16
	136-140	AT17
	141-145	AT18
	146-150	AT19
	151-155	AT20
	156-160	AT21
	161-165	AT22
	166-170	AT23
	171-175	AT24
	176-180	AT25
	181-185	AT26
	186-190	AT27
	191-195	AT28
	196-200	AT29
	201-205	AT30
	206-210	AT31
	211-215	AT32
	216-220	AT33
	221-225	CHS1
226-230	CHS2	
231-235	CHS3	
236-255	Reserved	
12	0-255	Auto Speed
13		Virtual Colour Wheel
	0-10	No Function
	11	Blue
	12-50	Blue 100% + Green Up
	51	Cyan
	52-90	Green 100% + Blue Down
	91	Green
	92-130	Green 100% + Red Up
	131	Yellow
	132-170	Red 100% + Green Down
	171	Red
	172-210	Red 100% + Blue Up
	211	Magenta
	212-250	Blue 100% + Red Down
251-255	Blue	

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14		Dimmer Mode
	0-10	Dimmer Mode set in the Fixture menu is used
	11-20	Linear Curve without Delay
	21-30	Square Law Curve without Delay
	31-40	Inverse Square Law Curve without Delay
	41-50	S-Curve without Delay
	51-60	Linear Curve with Delay
	61-70	Square Law Curve with Delay
	71-80	Inverse Square Law Curve with Delay
	81-90	S-Curve with Delay
	91-255	Dimmer Mode set in the Fixture menu is used
15	0-255	ID Function
16	0-255	ID Address

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## 24CH-1

1	0-255	Dimmer
2	0-255	Red1
3	0-255	Green1
4	0-255	Blue1
5	0-255	White1
6	0-255	Red2
7	0-255	Green2
8	0-255	Blue2
9	0-255	White2
10	0-255	Red3
11	0-255	Green3
12	0-255	Blue3
13	0-255	White3
14	0-255	Red4
15	0-255	Green4
16	0-255	Blue4
17	0-255	White4
18		Strobe
	0-5	No Function
	6-20	Asynchronous 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)	
19		Effect
	0-5	No Effect
	6-10	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	AT01
	61-65	AT02
	66-70	AT03
	71-75	AT04
	76-80	AT05
81-85	AT06	
86-90	AT07	

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19	91-95	AT08
	96-100	AT09
	101-105	AT10
	106-110	AT11
	111-115	AT12
	116-120	AT13
	121-125	AT14
	126-130	AT15
	131-135	AT16
	136-140	AT17
	141-145	AT18
	146-150	AT19
	151-155	AT20
	156-160	AT21
	161-165	AT22
	166-170	AT23
	171-175	AT24
	176-180	AT25
	181-185	AT26
	186-190	AT27
	191-195	AT28
	196-200	AT29
	201-205	AT30
	206-210	AT31
211-215	AT32	
216-220	AT33	
221-225	CHS1	
226-230	CHS2	
231-235	CHS3	
236-255	Reserved	
20	0-255	Auto Speed
21		Virtual Colour Wheel
	0-10	No Function
	11	Blue
	12-50	Blue 100% + Green Up
	51	Cyan
	52-90	Green 100% + Blue Down
	91	Green
	92-130	Green 100% + Red Up
	131	Yellow
	132-170	Red 100% + Green Down
	171	Red
	172-210	Red 100% + Blue Up
	211	Magenta
	212-250	Blue 100% + Red Down
251-255	Blue	

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22		Dimmer Mode
	0-10	Dimmer Mode set in the Fixture menu is used
	11-20	Linear Curve without Delay
	21-30	Square Law Curve without Delay
	31-40	Inverse Square Law Curve without Delay
	41-50	S-Curve without Delay
	51-60	Linear Curve with Delay
	61-70	Square Law Curve with Delay
	71-80	Inverse Square Law Curve with Delay
	81-90	S-Curve with Delay
	91-255	Dimmer Mode set in the Fixture menu is used
23	0-255	ID Function
24	0-255	ID Address

## 24CH-2

1	0-255	Red1
2	0-255	Green1
3	0-255	Blue1
4	0-255	Red2
5	0-255	Green2
6	0-255	Blue2
7	0-255	Red3
8	0-255	Green3
9	0-255	Blue3
10	0-255	Red4
11	0-255	Green4
12	0-255	Blue4
13	0-255	Red5
14	0-255	Green5
15	0-255	Blue5
16	0-255	Red6
17	0-255	Green6
18	0-255	Blue6
19	0-255	Red7
20	0-255	Green7
21	0-255	Blue7
22	0-255	Red8
23	0-255	Green8
24	0-255	Blue8

# EXPOLITE

## 32CH

1	0-255	Red1
2	0-255	Green1
3	0-255	Blue1
4	0-255	White1
5	0-255	Red2
6	0-255	Green2
7	0-255	Blue2
8	0-255	White2
9	0-255	Red3
10	0-255	Green3
11	0-255	Blue3
12	0-255	White3
13	0-255	Red4
14	0-255	Green4
15	0-255	Blue4
16	0-255	White4
17	0-255	Red5
18	0-255	Green5
19	0-255	Blue5
20	0-255	White5
21	0-255	Red6
22	0-255	Green6
23	0-255	Blue6
24	0-255	White6
25	0-255	Red7
26	0-255	Green7
27	0-255	Blue7
28	0-255	White7
29	0-255	Red8
30	0-255	Green8
31	0-255	Blue8
32	0-255	White8



# EXPOLITE

## 40CH

1	0-255	Dimmer
2	0-255	Red1
3	0-255	Green1
4	0-255	Blue1
5	0-255	White1
6	0-255	Red2
7	0-255	Green2
8	0-255	Blue2
9	0-255	White2
10	0-255	Red3
11	0-255	Green3
12	0-255	Blue3
13	0-255	White3
14	0-255	Red4
15	0-255	Green4
16	0-255	Blue4
17	0-255	White4
18	0-255	Red5
19	0-255	Green5
20	0-255	Blue5
21	0-255	White5
22	0-255	Red6
23	0-255	Green6
24	0-255	Blue6
25	0-255	White6
26	0-255	Red7
27	0-255	Green7
28	0-255	Blue7
29	0-255	White7
30	0-255	Red8
31	0-255	Green8
32	0-255	Blue8
33	0-255	White8
34		Strobe
	0-5	No Function
	6-20	Asynchronous 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

35		Effect
	0-5	No Effect
	6-10	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	AT01
	61-65	AT02
	66-70	AT03
	71-75	AT04
	76-80	AT05
	81-85	AT06
	86-90	AT07
	91-95	AT08
	96-100	AT09
	101-105	AT10
	106-110	AT11
	111-115	AT12
	116-120	AT13
	121-125	AT14
	126-130	AT15
	131-135	AT16
	136-140	AT17
	141-145	AT18
	146-150	AT19
	151-155	AT20
	156-160	AT21
	161-165	AT22
	166-170	AT23
171-175	AT24	
176-180	AT25	
181-185	AT26	
186-190	AT27	
191-195	AT28	
196-200	AT29	
201-205	AT30	
206-210	AT31	
211-215	AT32	
216-220	AT33	
221-225	CHS1	
226-230	CHS2	

# EXPOLITE

35	231-235	CHS3
	236-255	Reserved
36	0-255	Auto Speed
37		Virtual Colour Wheel
	0-10	No Function
	11	Blue
	12-50	Blue 100% + Green Up
	51	Cyan
	52-90	Green 100% + Blue Down
	91	Green
	92-130	Green 100% + Red Up
	131	Yellow
	132-170	Red 100% + Green Down
	171	Red
	172-210	Red 100% + Blue Up
	211	Magenta
	212-250	Blue 100% + Red Down
251-255	Blue	
38		Dimmer Mode
	0-10	Dimmer Mode set in the Fixture menu is used
	11-20	Linear Curve without Delay
	21-30	Square Law Curve without Delay
	31-40	Inverse Square Law Curve without Delay
	41-50	S-Curve without Delay
	51-60	Linear Curve with Delay
	61-70	Square Law Curve with Delay
	71-80	Inverse Square Law Curve with Delay
	81-90	S-Curve with Delay
91-255	Dimmer Mode set in the Fixture menu is used	
39	0-255	ID Function
40	0-255	ID Address



## Delivery

- Expolite TourBAR 32PIX
- Power connection cable
- General Information for Expolite Units
- User Manual

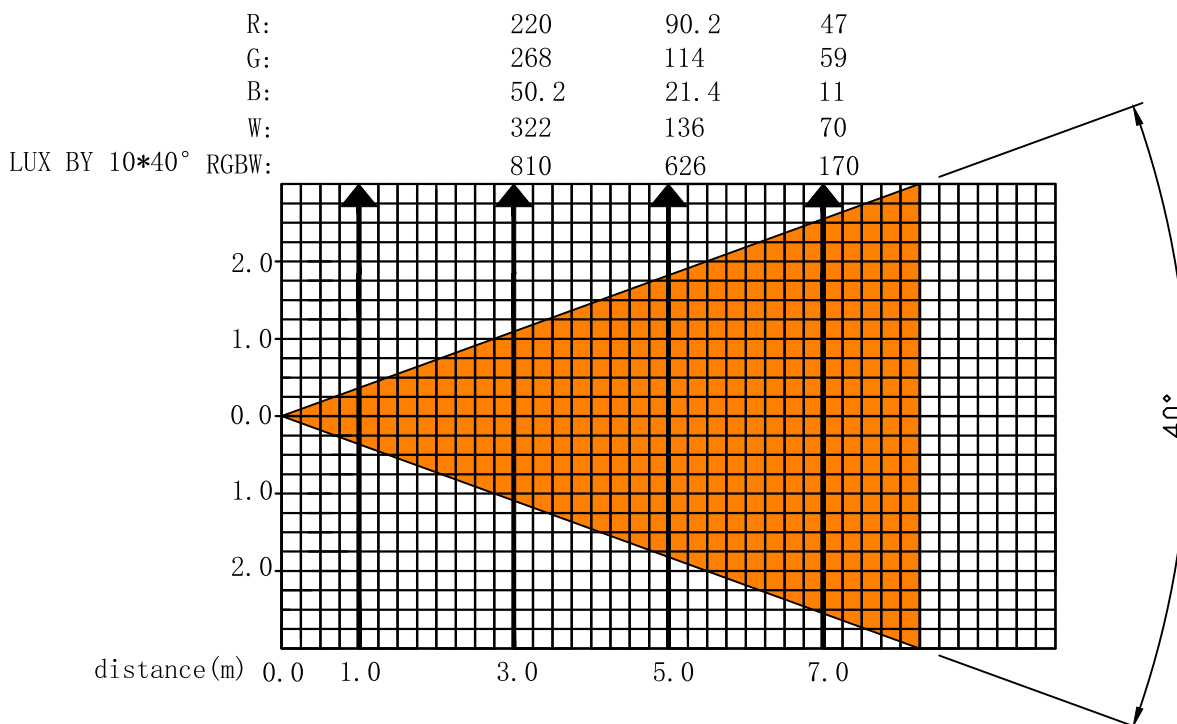
Expolite devices are carefully checked before shipment. If the delivery is not complete, please contact your distributor immediately.

## Product Information

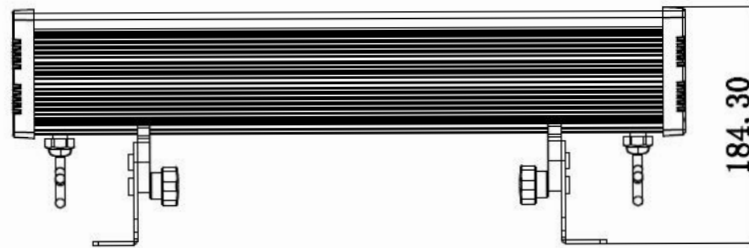
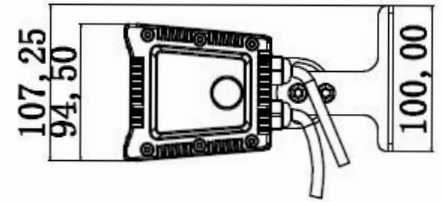
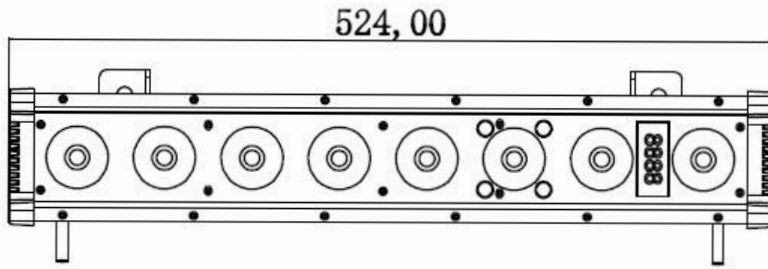
Voltage	100V - 240V AC 50/60Hz
Power Consumption	100W
Dimensions	524 x 184 x 108 mm
Weight	4,2 kg
Connectors	Power In/Out   DMX In/Out
Ambient Temperature	-20°C - 45°C
Humidity*	< 80%
Protection	IP 65
Housing	Die-cast aluminium
LEDs	8 x 15W 4in1 RGBW**
Optics	10 x 40°
Control	Stand-Alone / Master-Slave / DMX512
DMX-Channels	3 - 40 (3/4/5/10/16/24/24/32/40)

\* 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

### Hanging

The fixture can be mounted in a hanging position using the mounting bracket. Fixture must be safe mounted in accordance with the relevant regulations and provided with a safety cord to prevent falling.

### Standing

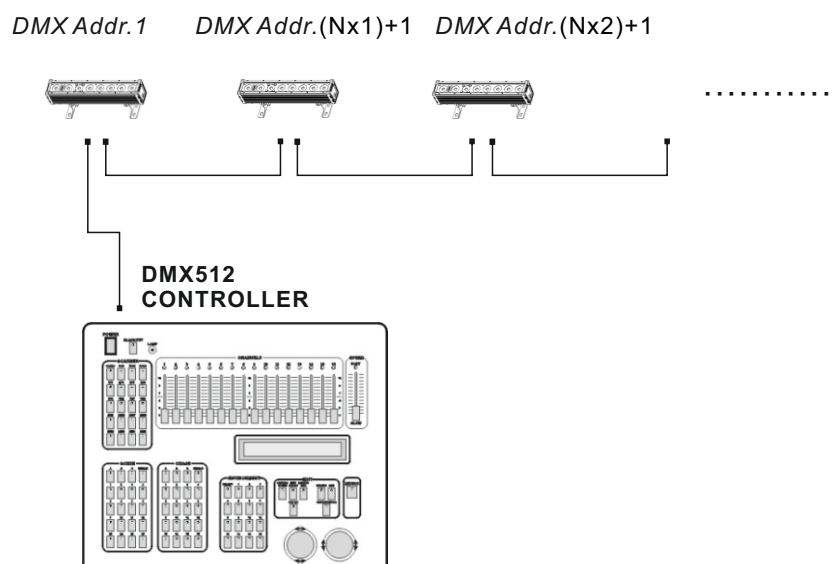
The fixture can be used in an upright position, using the mounted stands. A safe and sufficient anti-slip ground must be ensured!

### NOTE

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

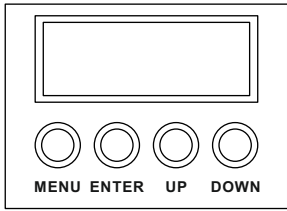
### DMX-Connection

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



## Operation

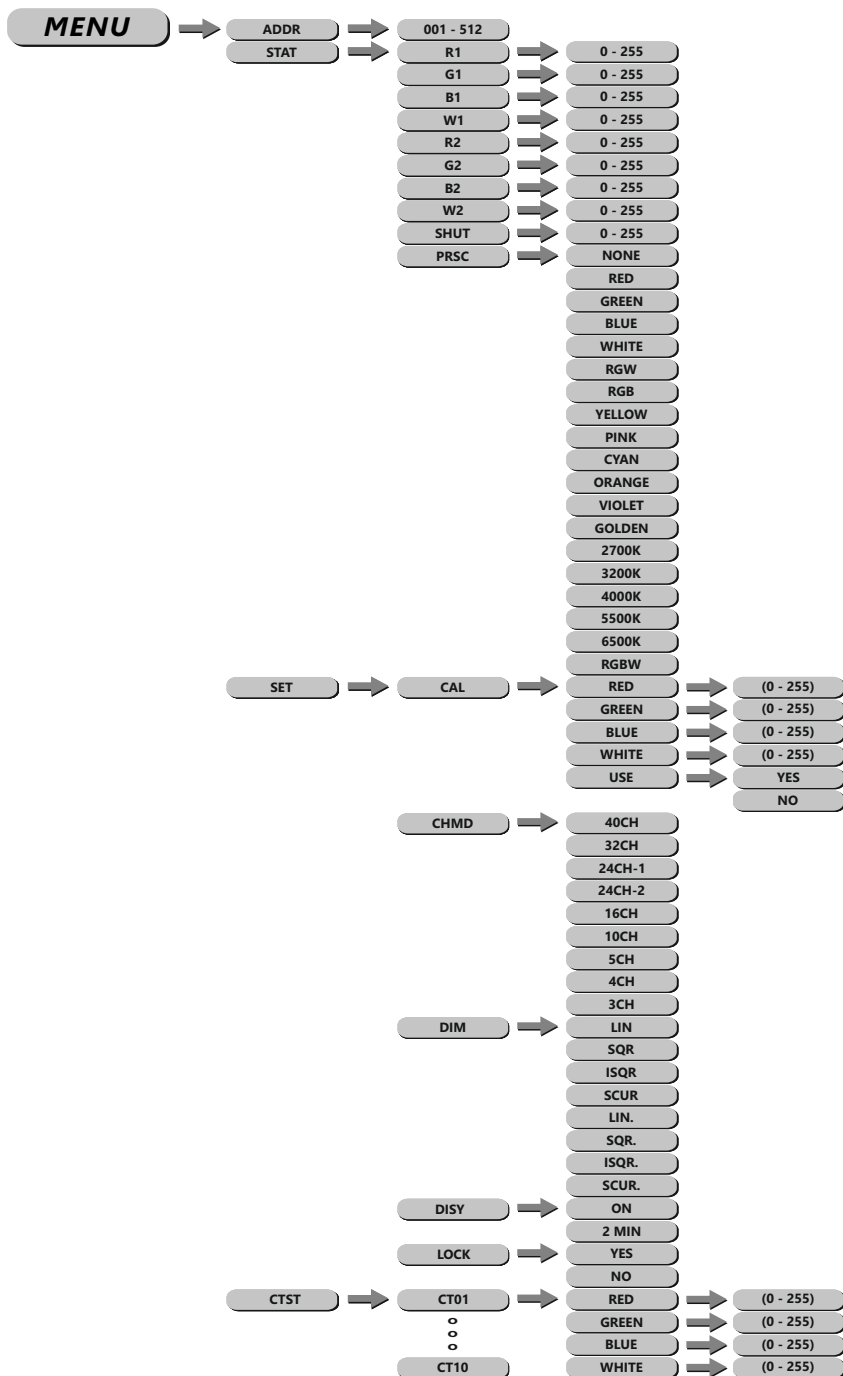
### Display Operation



MENU:  
ENTER:  
UP:  
DOWN:

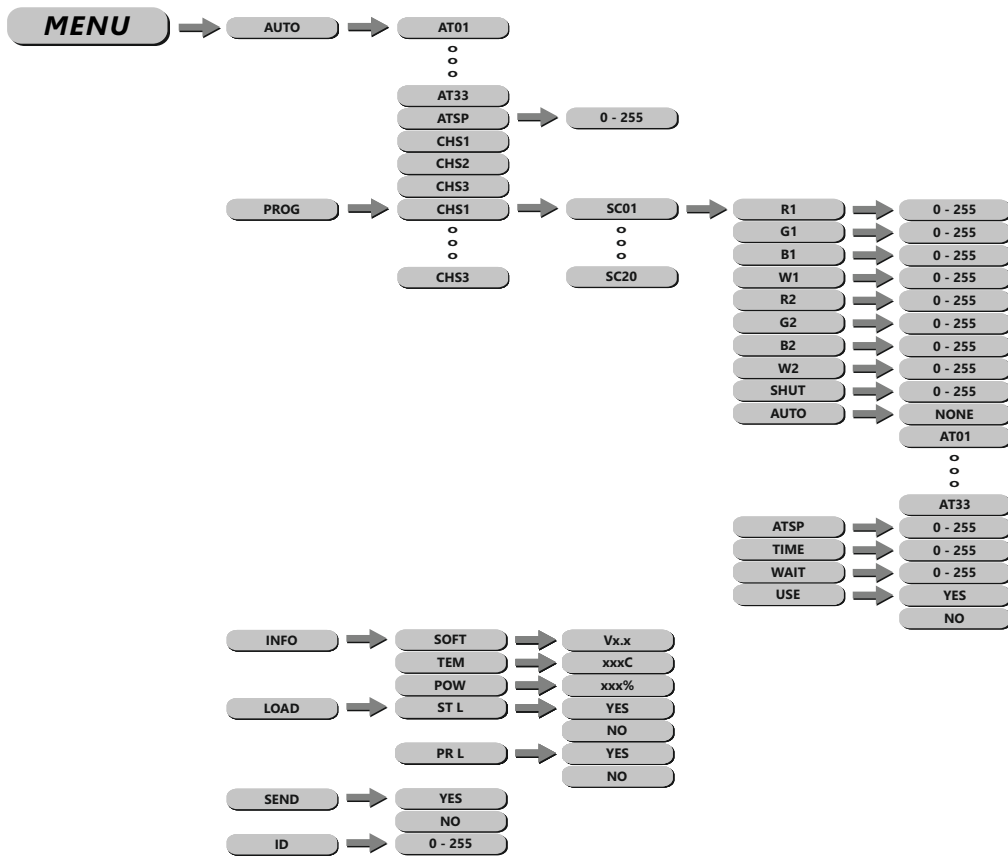
Return to previous menu  
Enter currently selected menu  
Scroll Up, Increase value  
Scroll down: Decrease value

### Menu Map





# EXPOLITE

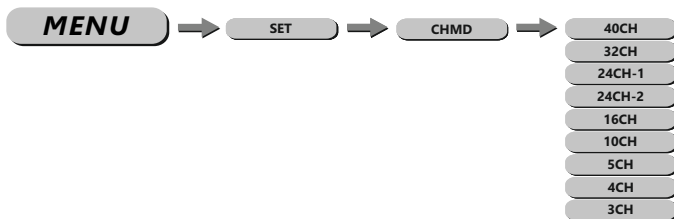


## Setting DMX-Address



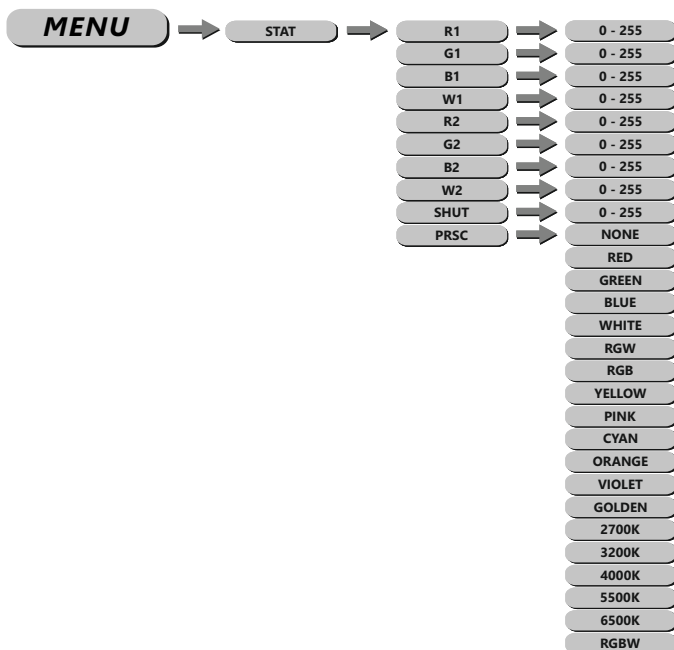
The DMX start address of the fixture is set in the menu **ADDR**. This is retained even when changing the personality.

## Setting DMX-Personality



The personality is set in the menu **SET**, submenu **CHMD**. There are five different modes which can be chosen: **3CH** (3 channels), **4CH** (4 channels), **5CH** (5 channels), **10CH** (10 channels), **16CH** (16 channels), **24CH-1** (24 channels), **24CH-2** (24 channels), **32CH** (32 channels) and **40CH** (40 channels).

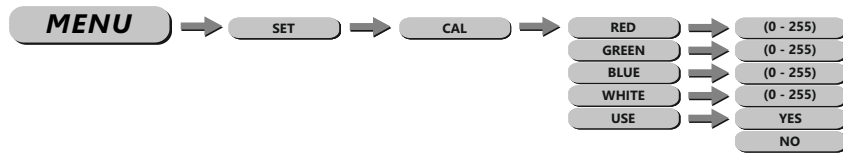
## Edit Static Colours



In the menu, **STAT** static colours for stand-alone operation can be set. These are mixed using the DMX value scale 0-255 for red 1 (**R1**), green 1 (**G1**), blue 1 (**B1**) and white 1 (**W1**), red 2 (**R2**), green 2 (**G2**), blue 2 (**B2**) and white 2 (**W2**), as well as the stroboscope value (**SHUT**). Via **PRSC** it is also possible to select different preset colours. For static operation the menu needs to be set to the lowest menu-level. [Display shows set value of the parameter]

# EXPOLITE

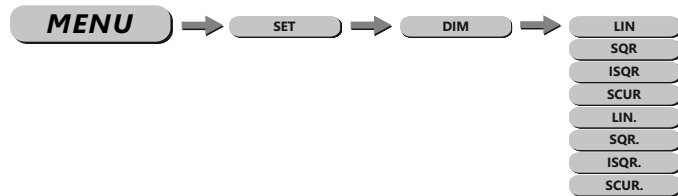
## Calibration



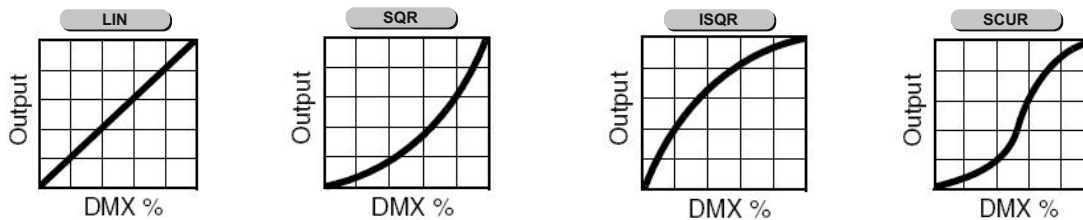
In the menu **SET**, submenu **CAL** a custom colour calibration is stored. This calibration limits the maximum brightness of the colour channels at the DMX value "255". This settings can be activated (**YES**) or deactivated (**NO**) in the submenu **USE**.

**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**, submenu **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**, submenu **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**).

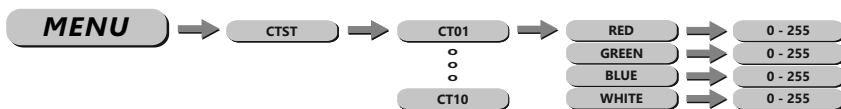
## Activating Device Lock



In the menu **SET**, submenu **LOCK** you can lock (**ON**) or unlock (**OFF**) the display to prevent the fixture from unauthorised access. Enter password to unlock the display.

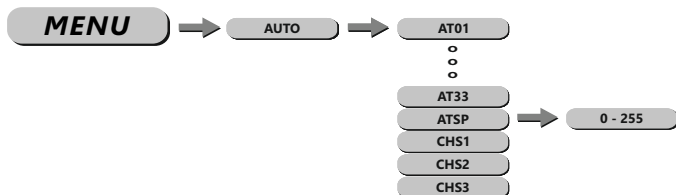
**PASSWORD: UP - DOWN - UP - DOWN - ENTER**

## Setting individual static scenes



In the menu **CTST** up to ten custom colours (**CT01 - CT10**) can be created using red (**R**), green (**G**), blue (**B**) and white (**W**).

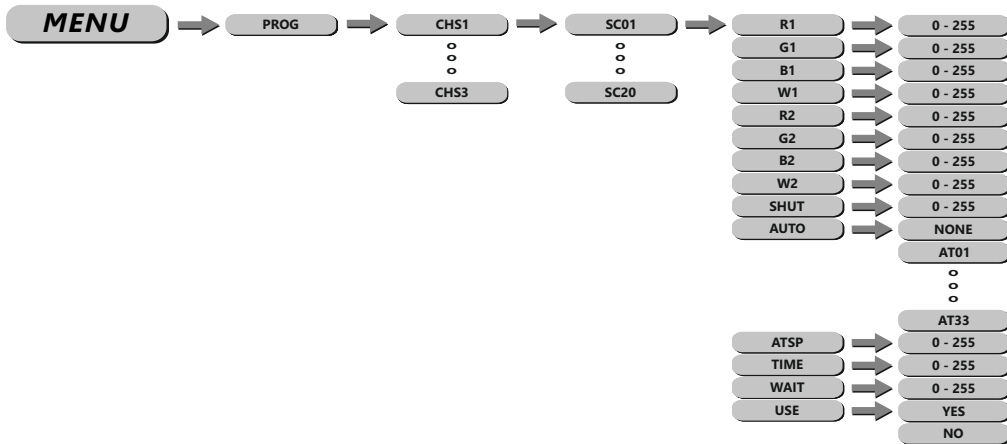
## Activating Auto Programs



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**.

# EXPOLITE

## Edit User Programs



The user programs **CHS1** to **CHS3** are edited in the menu **PROG**.

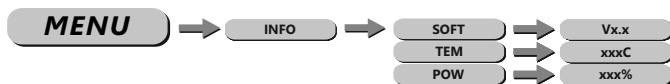
Each program can use up to 20 steps. Each step contains the parameters colour **RGBW1+RGBW2**, stroboscope (**SHUT**), **AUTO**, duration of the step (**TIME**) and crossfade time (**WAIT**). By setting the parameter **USE**, single steps can be activated (**YES**) or deactivated (**NO**).

**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	<b>TIME</b> = 4	<b>WAIT</b> = 3	<b>USE</b> = YES
Step 2	<b>TIME</b> = 5	<b>WAIT</b> = 2	<b>USE</b> = YES
Step 3	<b>TIME</b> = 0	<b>WAIT</b> = 0	<b>USE</b> = YES

## Info-Menu

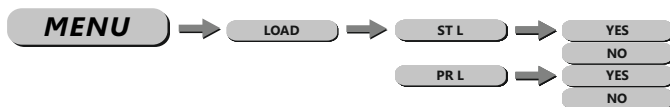


In the menu **INFO**, submenu **SOFT** the currently installed software version of the fixture is shown.

In the menu **INFO**, submenu **TEM** the current temperature of the lamp board is shown.

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

## Factory Defaults



# EXPOLITE

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 (for example **CTST**) of the user programs can be reset.

## Sending Parameters to other Fixtures



In the menu **SEND** fixture paramters 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 run a reset.



# 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 nine DMX personalities with 3, 4, 5, 10, 16, 24, 24, 32, and 40 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

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

### 4CH

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

### 5CH

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

**10CH**

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 Function
	6-20	Asynchronous 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)	
7		Effect
	0-5	No Effect
	6-10	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	AT01
	61-65	AT02
	66-70	AT03
	71-75	AT04
	76-80	AT05
	81-85	AT06
	86-90	AT07
	91-95	AT08
96-100	AT09	
101-105	AT10	
106-110	AT11	
111-115	AT12	
116-120	AT13	
121-125	AT14	
126-130	AT15	
131-135	AT16	
136-140	AT17	
141-145	AT18	
146-150	AT19	



# EXPOLITE

7	151-155	AT20
	156-160	AT21
	161-165	AT22
	166-170	AT23
	171-175	AT24
	176-180	AT25
	181-185	AT26
	186-190	AT27
	191-195	AT28
	196-200	AT29
	201-205	AT30
	206-210	AT31
	211-215	AT32
	216-220	AT33
	221-225	CHS1
	226-230	CHS2
231-235	CHS3	
236-255	Reserved	
8	0-255	Auto Speed
9		Virtual Colour Wheel
	0-10	No Function
	11	Blue
	12-50	Blue 100% + Green Up
	51	Cyan
	52-90	Green 100% + Blue Down
	91	Green
	92-130	Green 100% + Red Up
	131	Yellow
	132-170	Red 100% + Green Down
	171	Red
	172-210	Red 100% + Blue Up
	211	Magenta
	212-250	Blue 100% + Red Down
251-255	Blue	
10		Dimmer Mode
	0-10	Dimmer Mode set in the Fixture menu is used
	11-20	Linear Curve without Delay
	21-30	Square Law Curve without Delay
	31-40	Inverse Square Law Curve without Delay
	41-50	S-Curve without Delay
	51-60	Linear Curve with Delay
	61-70	Square Law Curve with Delay
	71-80	Inverse Square Law Curve with Delay
	81-90	S-Curve with Delay
91-255	Dimmer Mode set in the Fixture menu is used	

# EXPOLITE

## 16CH

1	0-255	Dimmer
2	0-255	Red1
3	0-255	Green1
4	0-255	Blue1
5	0-255	White1
6	0-255	Red2
7	0-255	Green2
8	0-255	Blue2
9	0-255	White2
10		Strobe
	0-5	No Function
	6-20	Asynchronous 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
	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	AT01
	61-65	AT02
	66-70	AT03
	71-75	AT04
	76-80	AT05
	81-85	AT06
	86-90	AT07
	91-95	AT08
	96-100	AT09
101-105	AT10	
106-110	AT11	
111-115	AT12	
116-120	AT13	
121-125	AT14	
126-130	AT15	

# EXPOLITE

11	131-135	AT16
	136-140	AT17
	141-145	AT18
	146-150	AT19
	151-155	AT20
	156-160	AT21
	161-165	AT22
	166-170	AT23
	171-175	AT24
	176-180	AT25
	181-185	AT26
	186-190	AT27
	191-195	AT28
	196-200	AT29
	201-205	AT30
	206-210	AT31
	211-215	AT32
	216-220	AT33
	221-225	CHS1
226-230	CHS2	
231-235	CHS3	
236-255	Reserved	
12	0-255	Auto Speed
13		Virtual Colour Wheel
	0-10	No Function
	11	Blue
	12-50	Blue 100% + Green Up
	51	Cyan
	52-90	Green 100% + Blue Down
	91	Green
	92-130	Green 100% + Red Up
	131	Yellow
	132-170	Red 100% + Green Down
	171	Red
	172-210	Red 100% + Blue Up
	211	Magenta
	212-250	Blue 100% + Red Down
251-255	Blue	

# EXPOLITE

14		Dimmer Mode
	0-10	Dimmer Mode set in the Fixture menu is used
	11-20	Linear Curve without Delay
	21-30	Square Law Curve without Delay
	31-40	Inverse Square Law Curve without Delay
	41-50	S-Curve without Delay
	51-60	Linear Curve with Delay
	61-70	Square Law Curve with Delay
	71-80	Inverse Square Law Curve with Delay
	81-90	S-Curve with Delay
	91-255	Dimmer Mode set in the Fixture menu is used
15	0-255	ID Function
16	0-255	ID Address

# EXPOLITE

## 24CH-1

1	0-255	Dimmer
2	0-255	Red1
3	0-255	Green1
4	0-255	Blue1
5	0-255	White1
6	0-255	Red2
7	0-255	Green2
8	0-255	Blue2
9	0-255	White2
10	0-255	Red3
11	0-255	Green3
12	0-255	Blue3
13	0-255	White3
14	0-255	Red4
15	0-255	Green4
16	0-255	Blue4
17	0-255	White4
18		Strobe
	0-5	No Function
	6-20	Asynchronous 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)	
19		Effect
	0-5	No Effect
	6-10	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	AT01
	61-65	AT02
	66-70	AT03
	71-75	AT04
	76-80	AT05
81-85	AT06	
86-90	AT07	

# EXPOLITE

19	91-95	AT08
	96-100	AT09
	101-105	AT10
	106-110	AT11
	111-115	AT12
	116-120	AT13
	121-125	AT14
	126-130	AT15
	131-135	AT16
	136-140	AT17
	141-145	AT18
	146-150	AT19
	151-155	AT20
	156-160	AT21
	161-165	AT22
	166-170	AT23
	171-175	AT24
	176-180	AT25
	181-185	AT26
	186-190	AT27
	191-195	AT28
	196-200	AT29
	201-205	AT30
	206-210	AT31
211-215	AT32	
216-220	AT33	
221-225	CHS1	
226-230	CHS2	
231-235	CHS3	
236-255	Reserved	
20	0-255	Auto Speed
21		Virtual Colour Wheel
	0-10	No Function
	11	Blue
	12-50	Blue 100% + Green Up
	51	Cyan
	52-90	Green 100% + Blue Down
	91	Green
	92-130	Green 100% + Red Up
	131	Yellow
	132-170	Red 100% + Green Down
	171	Red
	172-210	Red 100% + Blue Up
	211	Magenta
	212-250	Blue 100% + Red Down
251-255	Blue	

# EXPOLITE

22		Dimmer Mode
	0-10	Dimmer Mode set in the Fixture menu is used
	11-20	Linear Curve without Delay
	21-30	Square Law Curve without Delay
	31-40	Inverse Square Law Curve without Delay
	41-50	S-Curve without Delay
	51-60	Linear Curve with Delay
	61-70	Square Law Curve with Delay
	71-80	Inverse Square Law Curve with Delay
	81-90	S-Curve with Delay
	91-255	Dimmer Mode set in the Fixture menu is used
23	0-255	ID Function
24	0-255	ID Address

## 24CH-2

1	0-255	Red1
2	0-255	Green1
3	0-255	Blue1
4	0-255	Red2
5	0-255	Green2
6	0-255	Blue2
7	0-255	Red3
8	0-255	Green3
9	0-255	Blue3
10	0-255	Red4
11	0-255	Green4
12	0-255	Blue4
13	0-255	Red5
14	0-255	Green5
15	0-255	Blue5
16	0-255	Red6
17	0-255	Green6
18	0-255	Blue6
19	0-255	Red7
20	0-255	Green7
21	0-255	Blue7
22	0-255	Red8
23	0-255	Green8
24	0-255	Blue8

# EXPOLITE

## 32CH

1	0-255	Red1
2	0-255	Green1
3	0-255	Blue1
4	0-255	White1
5	0-255	Red2
6	0-255	Green2
7	0-255	Blue2
8	0-255	White2
9	0-255	Red3
10	0-255	Green3
11	0-255	Blue3
12	0-255	White3
13	0-255	Red4
14	0-255	Green4
15	0-255	Blue4
16	0-255	White4
17	0-255	Red5
18	0-255	Green5
19	0-255	Blue5
20	0-255	White5
21	0-255	Red6
22	0-255	Green6
23	0-255	Blue6
24	0-255	White6
25	0-255	Red7
26	0-255	Green7
27	0-255	Blue7
28	0-255	White7
29	0-255	Red8
30	0-255	Green8
31	0-255	Blue8
32	0-255	White8



# EXPOLITE

## 40CH

1	0-255	Dimmer
2	0-255	Red1
3	0-255	Green1
4	0-255	Blue1
5	0-255	White1
6	0-255	Red2
7	0-255	Green2
8	0-255	Blue2
9	0-255	White2
10	0-255	Red3
11	0-255	Green3
12	0-255	Blue3
13	0-255	White3
14	0-255	Red4
15	0-255	Green4
16	0-255	Blue4
17	0-255	White4
18	0-255	Red5
19	0-255	Green5
20	0-255	Blue5
21	0-255	White5
22	0-255	Red6
23	0-255	Green6
24	0-255	Blue6
25	0-255	White6
26	0-255	Red7
27	0-255	Green7
28	0-255	Blue7
29	0-255	White7
30	0-255	Red8
31	0-255	Green8
32	0-255	Blue8
33	0-255	White8
34		Strobe
	0-5	No Function
	6-20	Asynchronous 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

35		Effect
	0-5	No Effect
	6-10	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	AT01
	61-65	AT02
	66-70	AT03
	71-75	AT04
	76-80	AT05
	81-85	AT06
	86-90	AT07
	91-95	AT08
	96-100	AT09
	101-105	AT10
	106-110	AT11
	111-115	AT12
	116-120	AT13
	121-125	AT14
	126-130	AT15
	131-135	AT16
	136-140	AT17
	141-145	AT18
	146-150	AT19
	151-155	AT20
	156-160	AT21
	161-165	AT22
	166-170	AT23
171-175	AT24	
176-180	AT25	
181-185	AT26	
186-190	AT27	
191-195	AT28	
196-200	AT29	
201-205	AT30	
206-210	AT31	
211-215	AT32	
216-220	AT33	
221-225	CHS1	
226-230	CHS2	

# EXPOLITE

35	231-235	CHS3
	236-255	Reserved
36	0-255	Auto Speed
37		Virtual Colour Wheel
	0-10	No Function
	11	Blue
	12-50	Blue 100% + Green Up
	51	Cyan
	52-90	Green 100% + Blue Down
	91	Green
	92-130	Green 100% + Red Up
	131	Yellow
	132-170	Red 100% + Green Down
	171	Red
	172-210	Red 100% + Blue Up
	211	Magenta
	212-250	Blue 100% + Red Down
251-255	Blue	
38		Dimmer Mode
	0-10	Dimmer Mode set in the Fixture menu is used
	11-20	Linear Curve without Delay
	21-30	Square Law Curve without Delay
	31-40	Inverse Square Law Curve without Delay
	41-50	S-Curve without Delay
	51-60	Linear Curve with Delay
	61-70	Square Law Curve with Delay
	71-80	Inverse Square Law Curve with Delay
	81-90	S-Curve with Delay
91-255	Dimmer Mode set in the Fixture menu is used	
39	0-255	ID Function
40	0-255	ID Address

**EXPOLITE**

**CE RoHS**