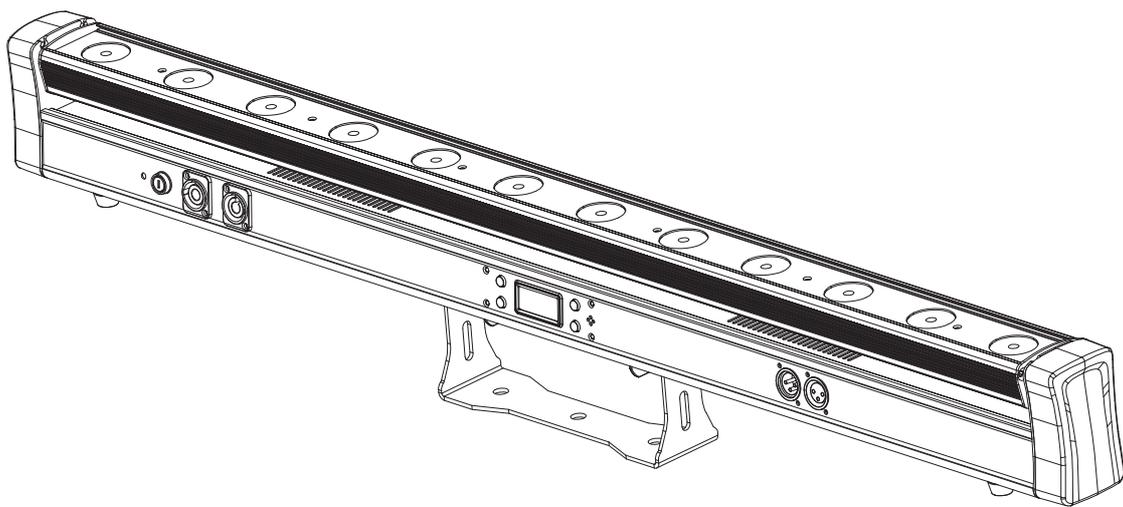


Futurelight[®]

BEDIENUNGSANLEITUNG
USER MANUAL

POS-12 SCAN LED QCL Color Changer



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BEDIENUNGSANLEITUNG

Futurelight®

POS-12 SCAN LED QCL Farbwechsler



ACHTUNG!

Gerät vor Feuchtigkeit und Nässe schützen!
Vor Öffnen des Gerätes vom Netz trennen!

Lesen Sie vor der ersten Inbetriebnahme zur eigenen Sicherheit diese Bedienungsanleitung sorgfältig durch!

Alle Personen, die mit der Aufstellung, Inbetriebnahme, Bedienung, Wartung und Instandhaltung dieses Gerätes zu tun haben, müssen

- entsprechend qualifiziert sein
- diese Bedienungsanleitung genau beachten
- die Bedienungsanleitung als Teil des Produkts betrachten
- die Bedienungsanleitung während der Lebensdauer des Produkts behalten
- die Bedienungsanleitung an jeden nachfolgenden Besitzer oder Benutzer des Produkts weitergeben
- sich die letzte Version der Anleitung im Internet herunterladen

EINFÜHRUNG

Wir freuen uns, dass Sie sich für einen FUTURELIGHT POS-12 SCAN LED QCL entschieden haben. Wenn Sie nachfolgende Hinweise beachten, sind wir sicher, dass Sie lange Zeit Freude an Ihrem Kauf haben werden.

Nehmen Sie den POS-12 SCAN LED QCL aus der Verpackung.

Lieferumfang

| | |
|---|---------------------|
| 1 | Gerät |
| 1 | Montagebügel |
| 1 | Bedienungsanleitung |
| 1 | Anschlussleitung |

SICHERHEITSHINWEISE

**ACHTUNG!**

Seien Sie besonders vorsichtig beim Umgang mit gefährlicher Netzspannung. Bei dieser Spannung können Sie einen lebensgefährlichen elektrischen Schlag erhalten!

Dieses Gerät hat das Werk in sicherheitstechnisch einwandfreiem Zustand verlassen. Um diesen Zustand zu erhalten und einen gefahrlosen Betrieb sicherzustellen, muss der Anwender die Sicherheitshinweise und die Warnvermerke unbedingt beachten, die in dieser Bedienungsanleitung enthalten sind.

**Unbedingt lesen:**

Bei Schäden, die durch Nichtbeachtung der Anleitung verursacht werden, erlischt der Garantieanspruch. Für daraus resultierende Folgeschäden übernimmt der Hersteller keine Haftung.

Das Gerät darf nicht in Betrieb genommen werden, nachdem es von einem kalten in einen warmen Raum gebracht wurde. Das dabei entstehende Kondenswasser kann unter Umständen Ihr Gerät zerstören. Lassen Sie das Gerät solange uneingeschaltet, bis es Zimmertemperatur erreicht hat!

Bitte überprüfen Sie vor der ersten Inbetriebnahme, ob kein offensichtlicher Transportschaden vorliegt. Sollten Sie Schäden an der Netzleitung oder am Gehäuse entdecken, nehmen Sie das Gerät nicht in Betrieb und setzen sich bitte mit Ihrem Fachhändler in Verbindung.

Der Aufbau entspricht der Schutzklasse I. Der Netzstecker darf nur an eine Schutzkontakt-Steckdose angeschlossen werden, deren Spannung und Frequenz mit dem Typenschild des Gerätes genau übereinstimmt. Ungeeignete Spannungen und ungeeignete Steckdosen können zur Zerstörung des Gerätes und zu tödlichen Stromschlägen führen.

Den Netzstecker immer als letztes einstecken. Der Netzstecker muss dabei gewaltfrei eingesetzt werden. Achten Sie auf einen festen Sitz des Netzsteckers.

Lassen Sie die Netzleitung nicht mit anderen Kabeln in Kontakt kommen! Seien Sie vorsichtig beim Umgang mit Netzleitungen und -anschlüssen. Fassen Sie diese Teile nie mit feuchten Händen an! Feuchte Hände können tödliche Stromschläge zur Folge haben.

Netzleitungen nicht verändern, knicken, mechanisch belasten, durch Druck belasten, ziehen, erhitzen und nicht in die Nähe von Hitze- oder Kältequellen bringen. Bei Missachtung kann es zu Beschädigungen der Netzleitung, zu Brand oder zu tödlichen Stromschlägen kommen.

Die Kabeleinführung oder die Kupplung am Gerät dürfen nicht durch Zug belastet werden. Es muss stets eine ausreichende Kabellänge zum Gerät hin vorhanden sein. Andernfalls kann das Kabel beschädigt werden, was zu tödlichen Stromschlägen führen kann.

Achten Sie darauf, dass die Netzleitung nicht gequetscht oder durch scharfe Kanten beschädigt werden kann. Überprüfen Sie das Gerät und die Netzleitung in regelmäßigen Abständen auf Beschädigungen.

Werden Verlängerungsleitungen verwendet muss sichergestellt werden, dass der Adernquerschnitt für die benötigte Stromzufuhr des Gerätes zugelassen ist. Alle Warnhinweise für die Netzleitung gelten auch für evtl. Verlängerungsleitungen.

Gerät bei Nichtbenutzung und vor jeder Reinigung vom Netz trennen! Fassen Sie dazu den Netzstecker an der Grifffläche an und ziehen Sie niemals an der Netzleitung! Ansonsten kann das Kabel und der Stecker beschädigt werden was zu tödlichen Stromschlägen führen kann. Sind Stecker oder Geräteschalter, z. B. durch Einbau nicht erreichbar, so muss netzseitig eine allpolige Abschaltung vorgenommen werden.

Wenn der Netzstecker oder das Gerät staubig ist, dann muss es außer Betrieb genommen werden, der Stromkreis muss allpolig unterbrochen werden und das Gerät mit einem trockenen Tuch gereinigt werden. Staub kann die Isolation reduzieren, was zu tödlichen Stromschlägen führen kann. Stärkere Verschmutzungen im und am Gerät dürfen nur von einem Fachmann beseitigt werden.

Es dürfen unter keinen Umständen Flüssigkeiten aller Art in Steckdosen, Steckverbindungen oder in irgendwelche Geräteöffnungen oder Geräte Ritzen eindringen. Besteht der Verdacht, dass - auch nur minimale - Flüssigkeit in das Gerät eingedrungen sein könnte, muss das Gerät sofort allpolig vom Netz getrennt werden. Dies gilt auch, wenn das Gerät hoher Luftfeuchtigkeit ausgesetzt war. Auch wenn das Gerät scheinbar noch funktioniert, muss es von einem Fachmann überprüft werden ob durch den Flüssigkeitseintritt eventuell Isolationen beeinträchtigt wurden. Reduzierte Isolationen können tödliche Stromschläge hervorrufen.

In das Gerät dürfen keine fremden Gegenstände gelangen. Dies gilt insbesondere für Metallteile. Sollten auch nur kleinste Metallteile wie Heft- und Büroklammern oder größere Metallspäne in das Gerät gelangen, so ist das Gerät sofort außer Betrieb zu nehmen und allpolig vom Netz zu trennen. Durch Metallteile hervorgerufene Fehlfunktionen und Kurzschlüsse können tödliche Verletzungen zur Folge haben.



GESUNDHEITSRISIKO!

Blicken Sie niemals direkt in die Lichtquelle, da bei empfindlichen Menschen u. U. epileptische Anfälle ausgelöst werden können (gilt besonders für Epileptiker)!

Kinder und Laien vom Gerät fern halten!

Das Gerät darf niemals unbeaufsichtigt betrieben werden!

BESTIMMUNGSGEMÄÙE VERWENDUNG

Bei diesem Gerät handelt es sich um einen Effektstrahler, mit dem sich dekorative Lichteffekte erzeugen lassen. Dieses Produkt ist nur für den Anschluss an 100-240 V, 50-60 Hz Wechselspannung zugelassen und wurde ausschließlich zur Verwendung in Innenräumen konzipiert.

Dieses Gerät ist für professionelle Anwendungen, z. B. auf Bühnen, in Diskotheken, Theatern etc. vorgesehen.

Lichteffekte sind nicht für den Dauerbetrieb konzipiert. Denken Sie daran, dass konsequente Betriebspausen die Lebensdauer des Gerätes erhöhen.

Vermeiden Sie Erschütterungen und jegliche Gewaltanwendung bei der Installation oder Inbetriebnahme des Gerätes.

Achten Sie bei der Wahl des Installationsortes darauf, dass das Gerät nicht zu großer Hitze, Feuchtigkeit und Staub ausgesetzt wird. Vergewissern Sie sich, dass keine Kabel frei herumliegen. Sie gefährden Ihre eigene und die Sicherheit Dritter!

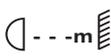
Das Gerät darf nicht in einer Umgebung eingesetzt oder gelagert werden, in der mit Spritzwasser, Regen, Feuchtigkeit oder Nebel zu rechnen ist. Feuchtigkeit oder sehr hohe Luftfeuchtigkeit kann die Isolation reduzieren und zu tödlichen Stromschlägen führen. Beim Einsatz von Nebelgeräten ist zu beachten, dass das Gerät nie direkt dem Nebelstrahl ausgesetzt ist und mindestens 0,5 m von einem Nebelgerät entfernt betrieben wird. Der Raum darf nur so stark mit Nebel gesättigt sein, dass eine gute Sichtweite von mindestens 10 m besteht.

Die Umgebungstemperatur muss zwischen -5° C und +45° C liegen. Halten Sie das Gerät von direkter Sonneneinstrahlung (auch beim Transport in geschlossenen Wägen) und Heizkörpern fern.

Die relative Luftfeuchte darf 50 % bei einer Umgebungstemperatur von 45° C nicht überschreiten.

Dieses Gerät darf nur in einer Höhenlage zwischen -20 und 2000 m über NN betrieben werden.

Verwenden Sie das Gerät nicht bei Gewitter. Überspannung könnte das Gerät zerstören. Das Gerät bei Gewitter allpolig vom Netz trennen (Netzstecker ziehen).

Das Bildzeichen  bezeichnet den Mindestabstand zu beleuchteten Gegenständen. Der Abstand zwischen Lichtaustritt und der zu beleuchteten Fläche darf 0,1 Meter nicht unterschreiten!

Das Gerät darf nur über den Montagebügel installiert werden. Um eine gute Luftzirkulation zu gewährleisten, muss um das Gerät ein Freiraum von mindestens 50 cm eingehalten werden.

Das Gehäuse darf niemals umliegende Gegenstände oder Flächen berühren!

Achten Sie bei der Montage, beim Abbau und bei der Durchführung von Servicearbeiten darauf, dass der Bereich unterhalb des Montageortes abgesperrt ist.

Das Gerät ist immer mit einem geeigneten Sicherungsseil zu sichern.

Die maximale Umgebungstemperatur $T_a = 45^\circ \text{C}$ darf niemals überschritten werden.

Nehmen Sie das Gerät erst in Betrieb, nachdem Sie sich mit seinen Funktionen vertraut gemacht haben. Lassen Sie das Gerät nicht von Personen bedienen, die sich nicht mit dem Gerät auskennen. Wenn Geräte nicht mehr korrekt funktionieren, ist das meist das Ergebnis von unsachgemäßer Bedienung!

Reinigen Sie das Gerät niemals mit Lösungsmitteln oder scharfen Reinigungsmitteln, sondern verwenden Sie ein weiches und angefeuchtetes Tuch.

Soll das Gerät transportiert werden, verwenden Sie bitte die Originalverpackung, um Transportschäden zu vermeiden. Achten Sie bitte unbedingt darauf, dass das Gerät im Lieferzustand verpackt wird.

Beachten Sie bitte, dass eigenmächtige Veränderungen an dem Gerät aus Sicherheitsgründen verboten sind.

Der Serienbarcode darf niemals vom Gerät entfernt werden, da ansonsten der Garantieanspruch erlischt.

Wird das Gerät anders verwendet als in dieser Bedienungsanleitung beschrieben, kann dies zu Schäden am Produkt führen und der Garantieanspruch erlischt. Außerdem ist jede andere Verwendung mit Gefahren, wie z. B. Kurzschluss, Brand, elektrischem Schlag, Abstürzen etc. verbunden.

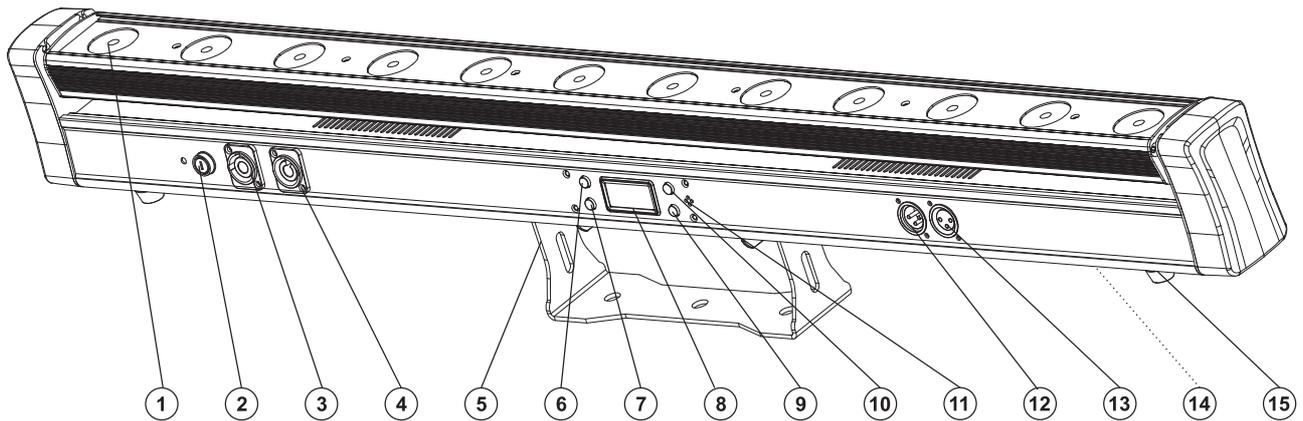
GERÄTEBESCHREIBUNG

Features

LED-Farbwechslerleiste mit TILT-Bewegung und 8-W-QCLs

- Stufenlose Kippbewegung über Steuereinheit oder DMX
- Ausgestattet mit 12 Quadcolor-LEDs in den Farben rot, grün, blau und weiß
- 6, 8, 12 oder 54 DMX-Kanäle wählbar
- Jede LED kann einzeln angesteuert werden
- Hängende als auch stehende Montage möglich
- Funktionen: RGBW-Farbmischung, Farbvoreinstellungen, 11 programmierte Farbtemperaturwerte, automatischer Farbwechsel, interne Programme, Dimmer, Strobe-Effekt, Musiksteuerung, Master/Slave-Betrieb
- Dimmgeschwindigkeit (Sprungantwort) einstellbar
- Automatische Positionskorrektur
- Musikgetaktet über eingebautes Mikrofon
- Mikrofonempfindlichkeit über das Control Board einstellbar
- DMX-gesteuerter Betrieb oder Standalone-Betrieb mit Master-/Slave-Funktion möglich
- Komfortable Adressierung und Einstellung über Control-Board mit vier Bedientasten und LCD-Display
- Schaltnetzteiltechnologie, automatische Anpassung der Netzspannung zwischen 100 und 240 Volt ohne Umschaltung
- Netzanschluss über Neutrik PowerCon-Buchse und beiliegendes Netzkabel
- Durchschleifausgang zur Spannungsversorgung eines weiteren Gerätes
- Nach jeweils 8 Geräten muss neu eingespeist werden
- DMX512-Steuerung über jeden handelsüblichen DMX-Controller möglich

Geräteübersicht



- | | |
|---------------------------------|-------------------------|
| (1) LED | (9) Down-Taste |
| (2) Sicherungshalter | (10) Up-Taste |
| (3) Spannungsversorgungseingang | (11) Mikrofon |
| (4) Spannungsversorgungsausgang | (12) DMX-Eingangsbuchse |
| (5) Montagebügel | (13) DMX-Ausgangsbuchse |
| (6) Mode-Taste | (14) Fangsicherung |
| (7) Enter-Taste | (15) Gummifuß |
| (8) Display | |

INSTALLATION

Montage

Das Gerät kann direkt auf den Boden gestellt werden oder in jeder möglichen Position im Trussing installiert werden, ohne seine funktionellen Eigenschaften zu verändern.

Überkopfmontage



LEBENSGEFAHR!

Bei der Installation sind insbesondere die Bestimmungen der BGV C1 und EN 60598-2-17 zu beachten! Die Installation darf nur vom autorisierten Fachhandel ausgeführt werden!

Die Aufhängevorrichtungen des Gerätes muss so gebaut und bemessen sein, dass sie 1 Stunde lang ohne dauernde schädliche Deformierung das 10-fache der Nutzlast aushalten kann.

Die Installation muss immer mit einer zweiten, unabhängigen Aufhängung, z. B. einem geeigneten Fangnetz, erfolgen. Diese zweite Aufhängung muss so beschaffen und angebracht sein, dass im Fehlerfall der Hauptaufhängung kein Teil der Installation herabfallen kann.

Während des Auf-, Um- und Abbaus ist der unnötige Aufenthalt im Bereich von Bewegungsflächen, auf Beleuchterbrücken, unter hochgelegenen Arbeitsplätzen sowie an sonstigen Gefahrenbereichen verboten.

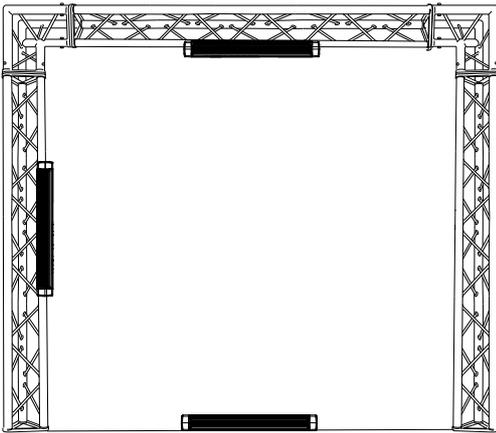
Der Unternehmer hat dafür zu sorgen, dass sicherheitstechnische und maschinentechnische Einrichtungen vor der ersten Inbetriebnahme und nach wesentlichen Änderungen vor der Wiederinbetriebnahme durch Sachverständige geprüft werden.

Der Unternehmer hat dafür zu sorgen, dass sicherheitstechnische und maschinentechnische Einrichtungen mindestens alle vier Jahre durch einen Sachverständigen im Umfang der Abnahmeprüfung geprüft werden. Der Unternehmer hat dafür zu sorgen, dass sicherheitstechnische und maschinentechnische Einrichtungen mindestens einmal jährlich durch einen Sachkundigen geprüft werden.

Vorgehensweise:

Das Gerät sollte idealerweise außerhalb des Aufenthaltsbereiches von Personen installiert werden.

WICHTIG! ÜBERKOPFMONTAGE ERFORDERT EIN HOHES MAß AN ERFAHRUNG. Dies beinhaltet (aber beschränkt sich nicht allein auf) Berechnungen zur Definition der Tragfähigkeit, verwendetes Installationsmaterial und regelmäßige Sicherheitsinspektionen des verwendeten Materials und des Gerätes. Versuchen Sie niemals, die Installation selbst vorzunehmen, wenn Sie nicht über eine solche Qualifikation verfügen, sondern beauftragen Sie einen professionellen Installateur. Unsachgemäße Installationen können zu Verletzungen und/oder zur Beschädigung von Eigentum führen.



Das Gerät muss außerhalb des Handbereichs von Personen installiert werden.

Wenn das Gerät von der Decke oder hochliegenden Trägern etc. abgehängt werden soll, muss immer mit Traversensystemen gearbeitet werden. Das Gerät darf niemals frei schwingend im Raum befestigt werden.

Achtung: Hängend installierte Geräte können beim Herabstürzen erhebliche Verletzungen verursachen! Wenn Sie Zweifel an der Sicherheit einer möglichen Installationsform haben, installieren Sie das Gerät NICHT!

Vergewissern Sie sich vor der Montage, dass die Montagefläche mindestens die 10-fache Punktbelastung des Eigengewichtes des Gerätes aushalten kann.



BRANDGEFAHR!

Achten Sie bei der Installation des Gerätes bitte darauf, dass sich im Abstand von mind. 0,5 m keine leicht entflammaren Materialien (Deko, etc.) befinden.



ACHTUNG!

Montieren Sie den Projektor ausschließlich über einen geeigneten Haken. Achten Sie darauf, dass das Gerät sicher befestigt wird. Vergewissern Sie sich, dass die Verankerung stabil ist.



Befestigen Sie das Gerät über einen geeigneten Haken an Ihrem Traversensystem.

Sichern Sie das Gerät bei Überkopfmontage immer mit einem geeigneten Sicherheitsseil.

Es dürfen nur Sicherheitsseile und Schnellverbindungsglieder gemäß DIN 56927, Schäkel gemäß DIN EN 1677-1 und BGV C1 Kettbinder eingesetzt werden. Die Fangseile, Schnellverbindungsglieder, Schäkel und Kettbinder müssen auf Grundlage der aktuellsten Arbeitsschutzbestimmungen (z. B. BGV C1, BGI 810-3) ausreichend dimensioniert sein und korrekt angewendet werden.

Bitte beachten Sie: Bei Überkopfmontage in öffentlichen bzw. gewerblichen Bereichen ist eine Fülle von Vorschriften zu beachten, die hier nur auszugsweise wiedergegeben werden können. Der Betreiber muss sich selbständig um die Beschaffung der geltenden Sicherheitsvorschriften bemühen und diese einhalten!

Der Hersteller haftet nicht für Schäden, die durch unsachgemäße Installation und unzureichende Sicherheitsvorkehrungen verursacht werden!

Hängen Sie das Sicherheitsfangseil an dem dafür vorgesehenen Loch im Bodenblech ein und führen Sie es über die Traverse bzw. einen sicheren Befestigungspunkt. Hängen Sie das Ende in dem Schnellverschlussglied ein und ziehen Sie die Sicherungsmutter gut fest.

Der maximale Fallabstand darf 20 cm nicht überschreiten.

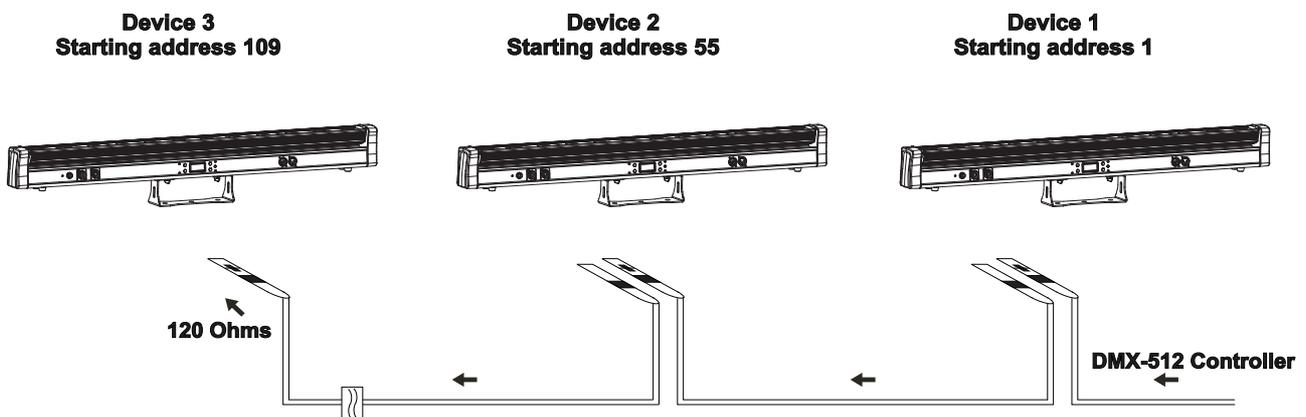
Ein Sicherungsseil, das einmal der Belastung durch Absturz ausgesetzt war oder beschädigt ist, darf nicht mehr als Sicherungsseil eingesetzt werden.

Verschrauben Sie einen Haken über eine M10 Schraube und Mutter mit dem Montagebügel.

Führen Sie die beiden Schnellverschlüsse des Montagebügels in die dafür vorgesehenen Öffnungen an der Geräteunterseite ein. Drehen Sie die Schnellverschlüsse im Uhrzeigersinn bis zum Anschlag fest.

 **LEBENSGEFAHR!** Vor der ersten Inbetriebnahme muss die Einrichtung durch einen Sachverständigen geprüft werden!

DMX512-Ansteuerung



 **Achten Sie darauf, dass die Adern der Datenleitung an keiner Stelle miteinander in Kontakt treten. Die Geräte werden ansonsten nicht bzw. nicht korrekt funktionieren.** 

 **Beachten Sie, dass die Startadresse abhängig vom verwendeten Controller ist. Unbedingt Bedienungsanleitung des verwendeten Controllers beachten.** 

Die Verbindung zwischen Controller und Gerät sowie zwischen den einzelnen Geräten sollte mit einem DMX-Kabel erfolgen. Die Steckverbindung geht über 3-polige XLR-Stecker und -Kupplungen.

Belegung der XLR-Verbindung:



Wenn Sie Controller mit dieser XLR-Belegung verwenden, können Sie den DMX-Ausgang des Controllers direkt mit dem DMX-Eingang des ersten Gerätes der DMX-Kette verbinden. Sollen DMX-Controller mit anderen XLR-Ausgängen angeschlossen werden, müssen Adapterkabel verwendet werden.

Aufbau einer seriellen DMX-Kette:

Schließen Sie den DMX-Ausgang des ersten Gerätes der Kette an den DMX-Eingang des nächsten Gerätes an. Verbinden Sie immer einen Ausgang mit dem Eingang des nächsten Gerätes bis alle Geräte angeschlossen sind.

Achtung: Am letzten Gerät muss das DMX-Kabel durch einen Abschlusswiderstand abgeschlossen werden. Dazu wird ein XLR-Stecker in den DMX-Ausgang am letzten Gerät gesteckt, bei dem zwischen Signal (-) und Signal (+) ein 120-Ω-Widerstand eingelötet ist.

Anschluss ans Netz

Schließen Sie das Gerät über die beiliegende Netzanschlussleitung ans Netz an.

Die Belegung der Anschlussleitungen ist wie folgt:

| Leitung | Pin | International |
|-----------|---------------|---|
| Braun | Außenleiter | L |
| Blau | Neutralleiter | N |
| Gelb/Grün | Schutzleiter |  |

Der Schutzleiter muss unbedingt angeschlossen werden!

Wenn das Gerät direkt an das örtliche Stromnetz angeschlossen wird, muss eine Trennvorrichtung mit mindestens 3 mm Kontaktöffnung an jedem Pol in die festverlegte elektrische Installation eingebaut werden.

Das Gerät darf nur an eine Elektroinstallation angeschlossen werden, die den VDE-Bestimmungen DIN VDE 0100 entspricht. Die Hausinstallation muss mit einem Fehlerstromschutzschalter (RCD) mit 30 mA Bemessungsdifferenzstrom ausgestattet sein.

Lichteffekte dürfen nicht über Dimmerpacks geschaltet werden.

Das Gerät ist mit einer verriegelbaren Netzanschlussbuchse ausgestattet. Schließen Sie das Netzkabel an und drehen Sie es nach rechts bis es einrastet. Stecken Sie den Netzstecker in eine geerdete Schutzkontaktsteckdose ein.

An der Rückseite der Geräte befindet sich eine Einbaubuchse (Power Out). Verbinden Sie den Ausgang mit dem Netzanschluss des nächsten Gerätes bis alle Geräte angeschlossen sind.

Bitte beachten: Es dürfen max. 8 Geräte in Reihe betrieben werden. Nach jeweils 8 Geräten muss erneut die Spannungsversorgung angeschlossen werden.

BEDIENUNG

Wenn Sie das Gerät an die Spannungsversorgung angeschlossen haben, nimmt der FUTURELIGHT POS-12 Scan LED QCL den Betrieb auf. Während des Reset justieren sich die Motoren aus und das Gerät ist danach betriebsbereit.

Das Display leuchtet auf und Sie können die gewünschten Einstellungen mit den Tasten MODE, ENTER, UP und DOWN auswählen.

Standalone-Modus

Der FUTURELIGHT POS-12 Scan LED QCL lässt sich im Standalone-Betrieb ohne Controller einsetzen.

Trennen Sie dazu den FUTURELIGHT POS-12 Scan LED QCL vom Controller. Bitte beachten Sie die Hinweise im Kapitel Control Board.

Master/Slave-Betrieb

Im Master/Slave-Betrieb lassen sich mehrere Geräte synchronisieren, die dann von einem Mastergerät gesteuert werden.

An der Rückseite des POS-12 Scan LED QCLs befindet sich eine XLR-Einbaubuchse (DMX Out) und ein XLR-Einbaustecker (DMX In), über die sich mehrere Geräte miteinander verbinden lassen.

Wählen Sie das Gerät aus, das zur Steuerung der Effekte dienen soll. Dieses Gerät arbeitet dann als Master-Gerät und steuert alle weiteren Slave-Geräte, die über ein DMX-Kabel mit dem Master-Gerät verbunden werden. Stecken Sie das DMX-Kabel in die DMX OUT-Buchse und verbinden Sie es mit dem DMX IN-Stecker des nächsten Gerätes.

Stellen Sie beim Master-Gerät den gewünschten Master-Modus und bei allen Slave-Geräten den Slave-Modus ein (siehe hierzu Kapitel Control Board).

DMX-Modus

Das Gerät verfügt über vier verschiedene DMX-Kanal-Modi. Über das Control Board können Sie, wie im Folgenden beschrieben, den DMX-Kanal-Modus definieren.

Adressierung des Geräts

Um die Startadresse einzustellen drücken Sie die MODE-Taste bis das Display „Address“ anzeigt. Sie können nun die gewünschte Adresse über die UP- oder DOWN-Taste auswählen. Drücken Sie die ENTER-Taste zur Bestätigung. Die Startadresse ist der erste Kanal, auf den das Gerät auf Signale vom Controller reagiert.

Wenn Sie, z. B. im 54-Kanal-Modus, die Startadresse auf 55 definieren, belegt der Projektor die Steuerkanäle 55 bis 108.

Bitte vergewissern Sie sich, dass sich die Steuerkanäle nicht mit anderen Geräten überlappen, damit der FUTURELIGHT POS-12 Scan LED QCL korrekt und unabhängig von anderen Geräten in der DMX-Verbindung funktioniert. Werden mehrere POS-12 Scan LED QCL auf eine Adresse definiert, arbeiten sie synchron.

Ansteuerung:

Nachdem Sie die Startadresse definiert haben, können Sie den POS-12 Scan LED QCL über Ihren Controller ansteuern.

DMX-Protokoll

| Mode/Channel | | | | Decimal | Hexad. | Percentage | S/F | Eigenschaft | | | |
|--------------|----------|-----------|-----------|---------|--------|------------|-----|-------------------------|------|---|--|
| 6 Ch | 8 Ch | 12 Ch | 54 Ch | | | | | | | | |
| | 5 | 1 | 51 | | | | | Dimmerintensität | | | |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Allmähliche Einstellung der Dimmerintensität von 0 bis 100 % |
| 1 | 1 | 2 | | | | | | | | | Rot |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Rot 0 - 100 % zunehmend |
| 2 | 2 | 3 | | | | | | | | | Grün |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Grün 0 - 100 % zunehmend |
| 3 | 3 | 4 | | | | | | | | | Blau |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Blau 0 - 100 % zunehmend |
| 4 | 4 | 5 | | | | | | | | | Weiß |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Weiß 0 - 100 % zunehmend |
| 5 | 7 | 11 | 53 | | | | | | | | Vertikale Bewegung (TILT) |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Wenn Sie den Regler verschieben, bewegen Sie den Kopf vertikal (TILT). Allmähliches Einstellen des Kopfes bei langsamen Schieben des Reglers (0-255, 128-Mitte). Der Kopf kann an jeder gewünschten Einstellung angehalten werden. |
| 6 | 8 | 12 | 54 | | | | | | | | Geschwindigkeit TILT-Bewegung |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Abnehmende Geschwindigkeit |
| | | 6 | 52 | | | | | | | | Strobe |
| | | | | 0 | 10 | 00 | 0A | 0% | 4% | S | Keine Funktion |
| | | | | 11 | 255 | 0B | FF | 4% | 100% | F | Strobe-Effekt mit zunehmender Geschwindigkeit |
| | 6 | | | | | | | | | | Strobe |
| | | | | 0 | 0 | 00 | 00 | 0% | 0% | S | Neutral |
| | | | | 1 | 5 | 01 | 05 | 0% | 2% | S | Musiksteuerung |
| | | | | 6 | 10 | 06 | 0A | 2% | 4% | S | Neutral |
| | | | | 11 | 255 | 0B | FF | 4% | 100% | F | Strobe-Effekt mit zunehmender Geschwindigkeit |
| | | 7 | | | | | | | | | Farbvoreinstellungen |
| | | | | 0 | 10 | 00 | 0A | 0% | 4% | S | Keine Funktion |
| | | | | 11 | 30 | 0B | 1E | 4% | 12% | F | Rot 100% / Grün zunehmend / Blau 0% |
| | | | | 31 | 50 | 1F | 32 | 12% | 20% | F | Rot abnehmend / Grün 100% / Blau 0% |
| | | | | 51 | 70 | 33 | 46 | 20% | 27% | F | Rot 0% / Grün 100% / Blau zunehmend |
| | | | | 71 | 90 | 47 | 5A | 28% | 35% | F | Rot 0% / Grün abnehmend / Blau 100% |
| | | | | 91 | 110 | 5B | 6E | 36% | 43% | F | Rot zunehmend / Grün 0% / Blau 100% |
| | | | | 111 | 130 | 6F | 82 | 44% | 51% | F | Rot 100% / Grün 0% / Blau abnehmend |
| | | | | 131 | 150 | 83 | 96 | 51% | 59% | F | Rot 100% / Grün zunehmend / Blau zunehmend |
| | | | | 151 | 170 | 97 | AA | 59% | 67% | F | Rot abnehmend / Grün abnehmend / Blau 100% |
| | | | | 171 | 200 | AB | C8 | 67% | 78% | F | Rot 100% / Grün 100% / Blau 100% / Weiß 100% |
| | | | | 201 | 205 | C9 | CD | 79% | 80% | S | Weiß Farbtemperaturwert 1 warm |

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|--|--|----------|-----|-----|----|----|-----|------|---|---|
| | | | 206 | 210 | CE | D2 | 81% | 82% | S | Weiß Farbtemperaturwert 2 |
| | | | 211 | 215 | D3 | D7 | 83% | 84% | S | Weiß Farbtemperaturwert 3 |
| | | | 216 | 220 | D8 | DC | 85% | 86% | S | Weiß Farbtemperaturwert 4 |
| | | | 221 | 225 | DD | E1 | 87% | 88% | S | Weiß Farbtemperaturwert 5 |
| | | | 226 | 230 | E2 | E6 | 89% | 90% | S | Weiß Farbtemperaturwert 6 |
| | | | 231 | 235 | E7 | EB | 91% | 92% | S | Weiß Farbtemperaturwert 7 |
| | | | 236 | 240 | EC | F0 | 93% | 94% | S | Weiß Farbtemperaturwert 8 |
| | | | 241 | 245 | F1 | F5 | 95% | 96% | S | Weiß Farbtemperaturwert 9 |
| | | | 246 | 250 | F6 | FA | 96% | 98% | S | Weiß Farbtemperaturwert 10 |
| | | | 251 | 255 | FB | FF | 98% | 100% | S | Weiß Farbtemperaturwert 11 kalt |
| | | | | | | | | | | Interne Programme |
| | | | 0 | 10 | 00 | 0A | 0% | 4% | S | Keine Funktion |
| | | | 11 | 30 | 0B | 1E | 4% | 12% | S | Internes Programm 1 |
| | | | 31 | 50 | 1F | 32 | 12% | 20% | S | Internes Programm 2 |
| | | | 51 | 70 | 33 | 46 | 20% | 27% | S | Internes Programm 3 |
| | | | 71 | 90 | 47 | 5A | 28% | 35% | S | Internes Programm 4 |
| | | | 91 | 110 | 5B | 6E | 36% | 43% | S | Internes Programm 5 |
| | | 8 | 111 | 130 | 6F | 82 | 44% | 51% | S | Internes Programm 6 |
| | | | 131 | 150 | 83 | 96 | 51% | 59% | S | Internes Programm 7 |
| | | | 151 | 170 | 97 | AA | 59% | 67% | S | Internes Programm 8 |
| | | | 171 | 190 | AB | BE | 67% | 75% | S | Internes Programm 9 |
| | | | 191 | 210 | BF | D2 | 75% | 82% | S | Internes Programm 10 |
| | | | 211 | 230 | D3 | E6 | 83% | 90% | S | Internes Programm 11 |
| | | | 231 | 250 | E7 | FA | 91% | 98% | S | Internes Programm 12 |
| | | | 251 | 255 | FB | FF | 98% | 100% | S | Musiksteuerung |
| | | 9 | | | | | | | | Geschwindigkeit interne Programme |
| | | | 0 | 255 | 00 | FF | 0% | 100% | F | Zunehmende Geschwindigkeit |
| | | | | | | | | | | Dimmergeschwindigkeit (Sprungantwort) |
| | | | 0 | 51 | 00 | 33 | 0% | 20% | S | Dimmergeschwindigkeit aus Control Board Einstellung |
| | | | 52 | 101 | 34 | 65 | 20% | 40% | S | Neutral |
| | | | 102 | 152 | 66 | 98 | 40% | 60% | S | Dimmergeschwindigkeit 1 |
| | | | 153 | 203 | 99 | CB | 60% | 80% | S | Dimmergeschwindigkeit 2 |
| | | | 204 | 255 | CC | FF | 80% | 100% | S | Dimmergeschwindigkeit 3 |
| | | | | | | | | | | Rot 1 |
| | | | 0 | 255 | 00 | FF | 0% | 100% | F | Rot 0 - 100 % zunehmend |
| | | | | | | | | | | Grün 1 |
| | | | 0 | 255 | 00 | FF | 0% | 100% | F | Grün 0 - 100 % zunehmend |
| | | | | | | | | | | Blau 1 |
| | | | 0 | 255 | 00 | FF | 0% | 100% | F | Blau 0 - 100 % zunehmend |
| | | | | | | | | | | Weiß 1 |
| | | | 0 | 255 | 00 | FF | 0% | 100% | F | Weiß 0 - 100 % zunehmend |
| | | | | | | | | | | Rot 2 |

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|--|--|--|-----------|---|-----|-----|----|----|------|------|-------------------------|
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Rot 0 - 100 % zunehmend |
| | | | 6 | | | | | | | | Grün 2 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 7 | | | | | | | | Blau 2 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 8 | | | | | | | | Weiß 2 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 9 | | | | | | | | Rot 3 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 10 | | | | | | | | Grün 3 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 11 | | | | | | | | Blau 3 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 12 | | | | | | | | Weiß 3 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 13 | | | | | | | | Rot 4 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 14 | | | | | | | | Grün 4 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 15 | | | | | | | | Blau 4 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 16 | | | | | | | | Weiß 4 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 17 | | | | | | | | Rot 5 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 18 | | | | | | | | Grün 5 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 19 | | | | | | | | Blau 5 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 20 | | | | | | | | Weiß 5 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 21 | | | | | | | | Rot 6 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 22 | | | | | | | | Grün 6 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 23 | | | | | | | | Blau 6 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 24 | | | | | | | | Weiß 6 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 25 | | | | | | | | Rot 7 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 26 | | | | | | | | Grün 7 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |
| | | | 27 | | | | | | | | Blau 7 |
| | | | | | 0 | 255 | 00 | FF | 0% | 100% | F |

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|--|--|--|----|---|-----|----|----|----|------|----------------------------|
| | | | | | | | | | | Weiß 7 |
| | | | 28 | 0 | 255 | 00 | FF | 0% | 100% | F Weiß 0 - 100 % zunehmend |
| | | | | | | | | | | Rot 8 |
| | | | 29 | 0 | 255 | 00 | FF | 0% | 100% | F Rot 0 - 100 % zunehmend |
| | | | | | | | | | | Grün 8 |
| | | | 30 | 0 | 255 | 00 | FF | 0% | 100% | F Grün 0 - 100 % zunehmend |
| | | | | | | | | | | Blau 8 |
| | | | 31 | 0 | 255 | 00 | FF | 0% | 100% | F Blau 0 - 100 % zunehmend |
| | | | | | | | | | | Weiß 8 |
| | | | 32 | 0 | 255 | 00 | FF | 0% | 100% | F Weiß 0 - 100 % zunehmend |
| | | | | | | | | | | Rot 9 |
| | | | 33 | 0 | 255 | 00 | FF | 0% | 100% | F Rot 0 - 100 % zunehmend |
| | | | | | | | | | | Grün 9 |
| | | | 34 | 0 | 255 | 00 | FF | 0% | 100% | F Grün 0 - 100 % zunehmend |
| | | | | | | | | | | Blau 9 |
| | | | 35 | 0 | 255 | 00 | FF | 0% | 100% | F Blau 0 - 100 % zunehmend |
| | | | | | | | | | | Weiß 9 |
| | | | 36 | 0 | 255 | 00 | FF | 0% | 100% | F Weiß 0 - 100 % zunehmend |
| | | | | | | | | | | Rot 10 |
| | | | 37 | 0 | 255 | 00 | FF | 0% | 100% | F Rot 0 - 100 % zunehmend |
| | | | | | | | | | | Grün 10 |
| | | | 38 | 0 | 255 | 00 | FF | 0% | 100% | F Grün 0 - 100 % zunehmend |
| | | | | | | | | | | Blau 10 |
| | | | 39 | 0 | 255 | 00 | FF | 0% | 100% | F Blau 0 - 100 % zunehmend |
| | | | | | | | | | | Weiß 10 |
| | | | 40 | 0 | 255 | 00 | FF | 0% | 100% | F Weiß 0 - 100 % zunehmend |
| | | | | | | | | | | Rot 11 |
| | | | 41 | 0 | 255 | 00 | FF | 0% | 100% | F Rot 0 - 100 % zunehmend |
| | | | | | | | | | | Grün 11 |
| | | | 42 | 0 | 255 | 00 | FF | 0% | 100% | F Grün 0 - 100 % zunehmend |
| | | | | | | | | | | Blau 11 |
| | | | 43 | 0 | 255 | 00 | FF | 0% | 100% | F Blau 0 - 100 % zunehmend |
| | | | | | | | | | | Weiß 11 |
| | | | 44 | 0 | 255 | 00 | FF | 0% | 100% | F Weiß 0 - 100 % zunehmend |
| | | | | | | | | | | Rot 12 |
| | | | 45 | 0 | 255 | 00 | FF | 0% | 100% | F Rot 0 - 100 % zunehmend |
| | | | | | | | | | | Grün 12 |
| | | | 46 | 0 | 255 | 00 | FF | 0% | 100% | F Grün 0 - 100 % zunehmend |
| | | | | | | | | | | Blau 12 |
| | | | 47 | 0 | 255 | 00 | FF | 0% | 100% | F Blau 0 - 100 % zunehmend |
| | | | | | | | | | | Weiß 12 |
| | | | 48 | 0 | 255 | 00 | FF | 0% | 100% | F Weiß 0 - 100 % zunehmend |

Control Board

Das Control Board bietet mehrere Möglichkeiten: so lassen sich z. B. die DMX-Startadresse eingeben, das vorprogrammierte Programm abspielen oder der DMX-Kanal Modus auswählen.



Durch Drücken der Mode-Taste können Sie sich im Hauptmenü bewegen. Zur Auswahl des gewünschten Menüpunktes drücken Sie die Enter-Taste. Durch Drücken der Up/Down-Taste können Sie die Auswahl verändern. Bestätigen Sie jede Änderung durch Drücken der Enter-Taste. Der jeweilige Modus kann durch die Mode-Taste verlassen werden. Die jeweiligen Funktionen werden im Folgenden aufgeführt.

| | Menu level 1 | Menu level 2 (flash) | Flash | Comment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|---|-------|---------|----|----|---|---|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|----|---|---|---|----|---|---|----|---|---|---|----|---|---|----|---|---|--|--|---|---|---|---|---|---|---|---|---|---|--|---|---|---|--|---|---|---|---|---|---|--|---|---|---|---|---|--|
| 1 | <table border="1"> <tr><td>A</td><td>u</td><td>t</td><td>o</td><td></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>1</td><td>></td></tr> </table> | A | u | t | o | | | < | A | u | t | o | 1 | > | <table border="1"> <tr><td>A</td><td>u</td><td>t</td><td>o</td><td></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>1</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>2</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>3</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>4</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>5</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>6</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>7</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>8</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>9</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>10</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>11</td><td>></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>12</td><td>></td></tr> <tr><td><</td><td>F</td><td>a</td><td>d</td><td>e</td><td></td><td>></td></tr> </table> | A | u | t | o | | | < | A | u | t | o | 1 | > | < | A | u | t | o | 2 | > | < | A | u | t | o | 3 | > | < | A | u | t | o | 4 | > | < | A | u | t | o | 5 | > | < | A | u | t | o | 6 | > | < | A | u | t | o | 7 | > | < | A | u | t | o | 8 | > | < | A | u | t | o | 9 | > | < | A | u | t | o | 10 | > | < | A | u | t | o | 11 | > | < | A | u | t | o | 12 | > | < | F | a | d | e | | > | <table border="1"> <tr><td>S</td><td>p</td><td>e</td><td>e</td><td>d</td><td></td><td></td></tr> <tr><td><</td><td>1</td><td>0</td><td>0</td><td>></td></tr> </table> | S | p | e | e | d | | | < | 1 | 0 | 0 | > | <table border="1"> <tr><td>T</td><td>S</td><td>p</td><td>e</td><td>e</td><td>d</td><td></td></tr> <tr><td><</td><td>1</td><td>0</td><td>0</td><td>></td></tr> </table> | T | S | p | e | e | d | | < | 1 | 0 | 0 | > | <p>Interne Programme (12 + Fade-Programm)</p> <p>Geschwindigkeit: 0 – 100 (zunehmend) Vorgabewert: 100</p> <p>TILT-Winkel/ Geschwindigkeit TILT-Winkel 0 – 50 (0 – 240°) TILT-Geschwindigkeit: 51 – 100 (zunehmend) Vorgabewert: 25</p> |
| A | u | t | o | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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REINIGUNG UND WARTUNG

Der Unternehmer hat dafür zu sorgen, dass sicherheitstechnische und maschinentechnische Einrichtungen mindestens alle vier Jahre durch einen Sachverständigen im Umfang der Abnahmeprüfung geprüft werden.

Der Unternehmer hat dafür zu sorgen, dass sicherheitstechnische und maschinentechnische Einrichtungen mindestens einmal jährlich durch einen Sachkundigen geprüft werden.

Dabei muss unter anderem auf folgende Punkte besonders geachtet werden:

- 1) Alle Schrauben, mit denen das Gerät oder Geräteteile montiert sind, müssen fest sitzen und dürfen nicht korrodiert sein.
- 2) An Gehäuse, Befestigungen und Montageort (Decke, Abhängung, Traverse) dürfen keine Verformungen sichtbar sein.
- 3) Mechanisch bewegte Teile wie Achsen, Ösen u. Ä. dürfen keinerlei Verschleißspuren zeigen (z.B. Materialabrieb oder Beschädigungen) und dürfen sich nicht unwuchtig drehen.
- 4) Die elektrischen Anschlussleitungen dürfen keinerlei Beschädigungen, Materialalterung (z.B. poröse Leitungen) oder Ablagerungen aufweisen. Weitere, auf den jeweiligen Einsatzort und die Nutzung abgestimmte Vorschriften werden vom sachkundigen Installateur beachtet und Sicherheitsmängel behoben.



LEBENSGEFAHR!

Vor Wartungsarbeiten unbedingt allpolig vom Netz trennen!

Das Gerät sollte regelmäßig von Verunreinigungen wie Staub usw. gereinigt werden. Verwenden Sie zur Reinigung ein fusselfreies, angefeuchtetes Tuch. Auf keinen Fall Alkohol oder irgendwelche Lösungsmittel zur Reinigung verwenden!

Im Geräteinneren befinden sich außer der Sicherung keine zu wartenden Teile. Wartungs- und Servicearbeiten sind ausschließlich dem autorisierten Fachhandel vorbehalten!

Sicherungswechsel

Wenn die Feinsicherung des Gerätes defekt ist, darf diese nur durch eine Sicherung gleichen Typs ersetzt werden.

Vor dem Sicherungswechsel ist das Gerät allpolig von der Netzspannung zu trennen (Netzstecker ziehen).

Vorgehensweise:

Schritt 1: Drehen Sie den Sicherungshalter an der Geräterückseite mit einem passenden Schraubendreher aus dem Gehäuse (gegen den Uhrzeigersinn).

Schritt 2: Entfernen Sie die defekte Sicherung aus dem Sicherungshalter.

Schritt 3: Setzen Sie die neue Sicherung in den Sicherungshalter ein.

Schritt 4: Setzen Sie den Sicherungshalter wieder im Gehäuse ein und drehen Sie ihn fest.

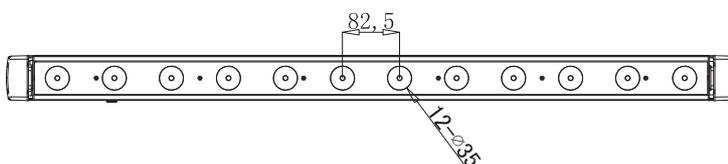
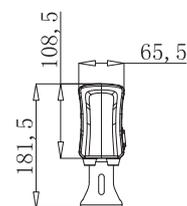
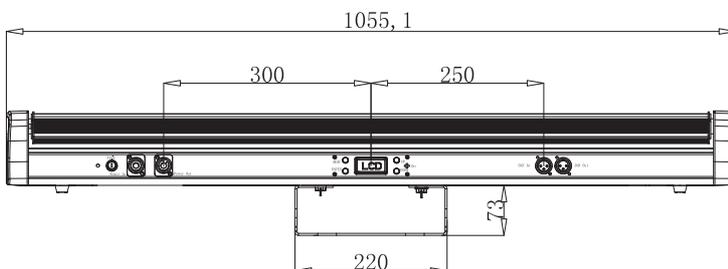
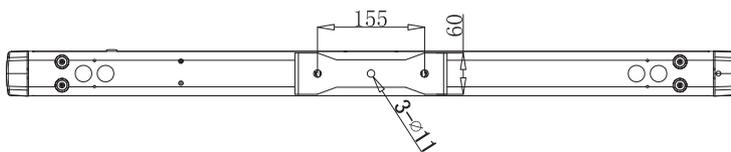
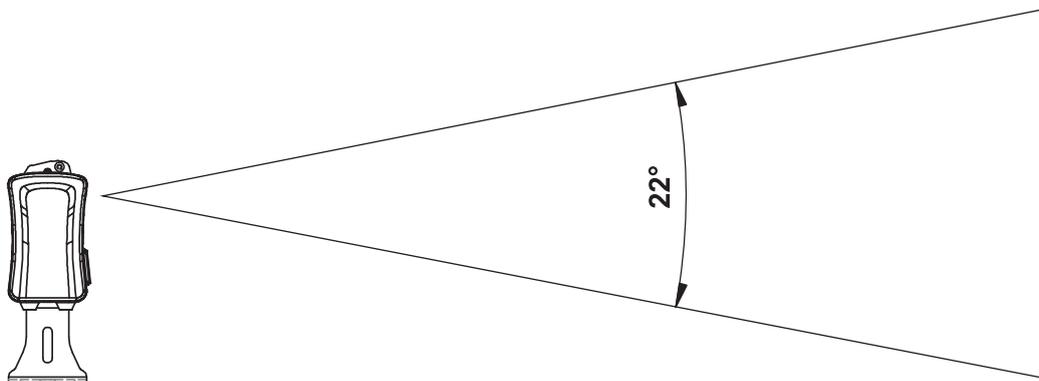
Sollten einmal Ersatzteile benötigt werden, verwenden Sie bitte nur Originalersatzteile.

Wenn die Anschlussleitung dieses Gerätes beschädigt wird, muss sie durch eine besondere Anschlussleitung ersetzt werden, die von Ihrem Fachhändler erhältlich ist.

Sollten Sie noch weitere Fragen haben, steht Ihnen Ihr Fachhändler jederzeit gerne zur Verfügung.

TECHNISCHE DATEN

| | |
|--|---------------------------|
| Spannungsversorgung: | 100-240 V AC, 50/60 Hz ~ |
| Gesamtanschlusswert: | 140 W |
| DMX-Steuerkanäle: | 6/8/12/54 |
| DMX512-Anschluss: | 3-pol. XLR |
| Musiksteuerung: | über eingebautes Mikrofon |
| Blitzrate: | 30 Hz |
| LED-Typ: | 8-W-QCL |
| Anzahl der LEDs: | 12 |
| Max. Kippbewegung (TILT): | 240° |
| Abstrahlwinkel: | 22° |
| Maße (LxBxH): | 1055 x 66 x 109 mm |
| Gewicht: | 5 kg |
| Maximale Umgebungstemperatur T_a : | 45° C |
| Maximale Leuchtentemperatur im Beharrungszustand T_c : | 75° C |
| Mindestabstand zu entflammaren Oberflächen: | 0,5 m |
| Mindestabstand zum angestrahlten Objekt: | 0,1 m |
| Sicherung: | T 3,15 A, 250 V |
| Zubehör: | |
| FUTURELIGHT OC-8 Omega-Halter | Best.-Nr. 51836977 |



Bitte beachten Sie: Technische Änderungen ohne vorherige Ankündigung und Irrtum vorbehalten.
02.09.2013 ©

USER MANUAL

Futurelight®

POS-12 SCAN LED QCL Color Changer



CAUTION!

Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

For your own safety, please read this user manual carefully before you initially start-up.

Every person involved with the installation, operation and maintenance of this device has to

- be qualified
- follow the instructions of this manual
- consider this manual to be part of the total product
- keep this manual for the entire service life of the product
- pass this manual on to every further owner or user of the product
- download the latest version of the user manual from the Internet

INTRODUCTION

Thank you for having chosen a FUTURELIGHT POS-12 SCAN LED QCL. If you follow the instructions given in this manual, we are sure that you will enjoy this device for a long period of time.

Unpack your POS-12 SCAN LED QCL.

Delivery includes

| | |
|---|--------------------|
| 1 | Device |
| 1 | Mounting bracket |
| 1 | User manual |
| 1 | Power supply cable |

SAFETY INSTRUCTIONS



CAUTION!

Be careful with your operations. With a dangerous voltage you can suffer a dangerous electric shock when touching the wires!

This device has left our premises in absolutely perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.



Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.

Please make sure that there are no obvious transport damages. Should you notice any damages on the A/C connection cable or on the casing, do not take the device into operation and immediately consult your local dealer.

This device falls under protection-class I. The power plug must only be plugged into a protection class I outlet. The voltage and frequency must exactly be the same as stated on the device. Wrong voltages or power outlets can lead to the destruction of the device and to mortal electrical shock.

Always plug in the power plug last. The power plug must always be inserted without force. Make sure that the plug is tightly connected with the outlet.

Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution! Never touch them with wet hands, as this could lead to mortal electrical shock.

Never modify, bend, strain mechanically, put pressure on, pull or heat up the power cord. Never operate next to sources of heat or cold. Disregard can lead to power cord damages, fire or mortal electrical shock. The cable insert or the female part in the device must never be strained. There must always be sufficient cable to the device. Otherwise, the cable may be damaged which may lead to mortal damage.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

If extension cords are used, make sure that the core diameter is sufficient for the required power consumption of the device. All warnings concerning the power cords are also valid for possible extension cords.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord. Otherwise, the cable or plug can be damaged leading to mortal electrical shock. If the power plug or the power switch is not accessible, the device must be disconnected via the mains.

If the power plug or the device is dusty, the device must be taken out of operation, disconnected and then be cleaned with a dry cloth. Dust can reduce the insulation which may lead to mortal electrical shock. More severe dirt in and at the device should only be removed by a specialist.

There must never enter any liquid into power outlets, extension cords or any holes in the housing of the device. If you suppose that also a minimal amount of liquid may have entered the device, it must immediately be disconnected. This is also valid, if the device was exposed to high humidity. Also if the device is still running, the device must be checked by a specialist if the liquid has reduced any insulation. Reduced insulation can cause mortal electrical shock.

There must never be any objects entering into the device. This is especially valid for metal parts. If any metal parts like staples or coarse metal chips enter into the device, the device must be taken out of operation and disconnected immediately. Malfunction or short-circuits caused by metal parts may cause mortal injuries.



HEALTH HAZARD!

Never look directly into the light source, as sensitive persons may suffer an epileptic shock (especially meant for epileptics)!

Keep away children and amateurs!
Never leave this device running unattended.

OPERATING DETERMINATIONS

This device is a lighting effect for creating decorative effects. This product is only allowed to be operated with an alternating voltage of 100-240 V, 50-60 Hz and was designed for indoor use only.

This device is designed for professional use, e.g. on stages, in discotheques, theatres etc.

Lighting effects are not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.

Do not shake the device. Avoid brute force when installing or operating the device.

When choosing the installation-spot, please make sure that the device is not exposed to extreme heat, moisture or dust. There should not be any cables lying around. You endanger your own and the safety of others!

This device must never be operated or stockpiled in surroundings where splash water, rain, moisture or fog may harm the device. Moisture or very high humidity can reduce the insulation and lead to mortal electrical shocks. When using smoke machines, make sure that the device is never exposed to the direct smoke jet and is installed in a distance of 0.5 meters between smoke machine and device. The room must only be saturated with an amount of smoke that the visibility will always be more than 10 meters.

The ambient temperature must always be between -5°C and $+45^{\circ}\text{C}$. Keep away from direct insulation (particularly in cars) and heaters.

The relative humidity must not exceed 50 % with an ambient temperature of 45°C .

This device must only be operated in an altitude between -20 and 2000 m over NN.

Never use the device during thunderstorms. Over voltage could destroy the device. Always disconnect the device during thunderstorms.

The symbol  determines the minimum distance from lighted objects. The minimum distance between light-output and the illuminated surface must be more than 0.1 meters.

This device is only allowed for an installation via the mounting bracket. In order to safeguard sufficient ventilation, leave 50 cm of free space around the device.

The housing must never touch surrounding surfaces or objects.

Make sure that the area below the installation place is blocked when rigging, derigging or servicing the fixture.

Always fix the fixture with an appropriate safety bond.

The maximum ambient temperature $T_a = 45^{\circ}\text{C}$ must never be exceeded.

Operate the device only after having become familiarized with its functions. Do not permit operation by persons not qualified for operating the device. Most damages are the result of unprofessional operation!

Never use solvents or aggressive detergents in order to clean the device! Rather use a soft and damp cloth.

Please use the original packaging if the device is to be transported. Make sure that you pack the device in the original state.

Please consider that unauthorized modifications on the device are forbidden due to safety reasons!

Never remove the serial barcode from the device as this would make the guarantee void.

If this device will be operated in any way different to the one described in this manual, the product may suffer damages and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

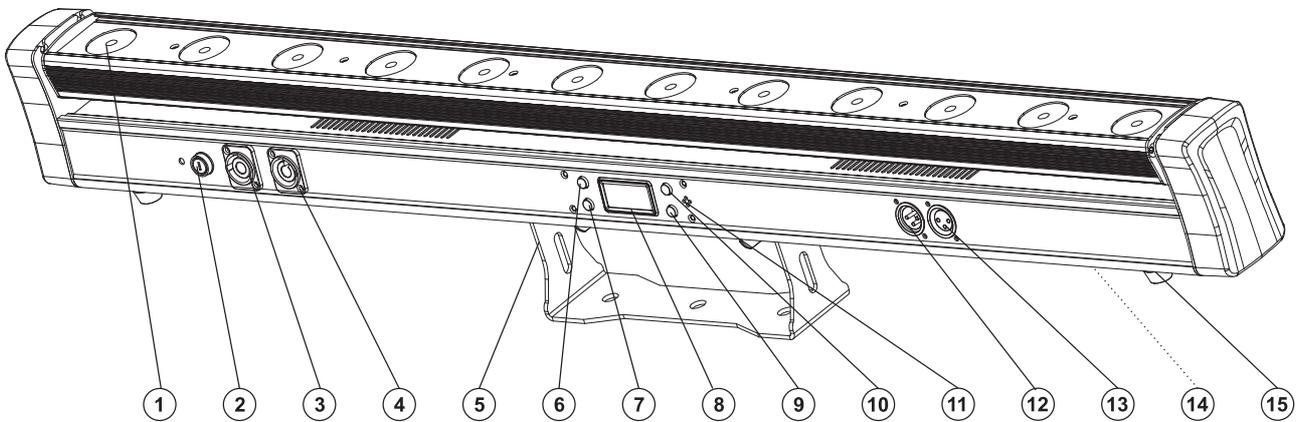
DESCRIPTION OF THE DEVICE

Features

LED color changing bar with TILT movement and 8 W QCLs

- Stepless vertical movement via control panel or DMX
- Equipped with 12 quadcolor LEDs in the colors red, green, blue and white
- 6, 8, 12 or 54 DMX channels selectable
- Each LED can be controlled individually
- Hanging as well as standing installation possible
- Functions: RGBW color mixture, color presets, 11 preset color temperatures, automatic color change, built-in programs, dimmer, strobe effect, sound-control, Master/Slave operation
- Dimmer speed (step response) adjustable
- Automatic position correction
- Sound-controlled via built-in microphone
- Adjustable microphone sensitivity via Control Board
- DMX-controlled operation or stand-alone operation with Master/Slave function
- Comfortable addressing and setting via Control Board with LCD display and four operating buttons
- Switch-mode power supply, automatic power supply adaption between 100 and 240 Volts without power selector
- Power connection via Neutrik PowerCon jack and included power cable
- Feed-through output allows to power another device
- After every 8 devices the fixtures must have a renewed connection with the power mains
- DMX control via every standard DMX controller

Overview



- | | |
|----------------------|---------------------|
| (1) LED | (9) Down button |
| (2) Fuseholder | (10) Up button |
| (3) Power input | (11) Microphone |
| (4) Power output | (12) DMX-In socket |
| (5) Mounting bracket | (13) DMX-Out socket |
| (6) Mode button | (14) Safety eyelet |
| (7) Enter button | (15) Rubber foot |
| (8) Display | |

INSTALLATION

Rigging

The device can be placed directly on the stage floor or rigged in any orientation on a truss without altering its operation characteristics.

Overhead rigging



DANGER TO LIFE!

Please consider the EN 60598-2-17 and the respective national standards during the installation! The installation must only be carried out by an authorized dealer!

The installation of the device has to be built and constructed in a way that it can hold 10 times the weight for 1 hour without any harming deformation.

The installation must always be secured with a secondary safety attachment, e.g. an appropriate catch net. This secondary safety attachment must be constructed in a way that no part of the installation can fall down if the main attachment fails.

When rigging, derigging or servicing the device staying in the area below the installation place, on bridges, under high working places and other endangered areas is forbidden.

The operator has to make sure that safety-relating and machine-technical installations are approved by an expert before taking into operation for the first time and after changes before taking into operation another time.

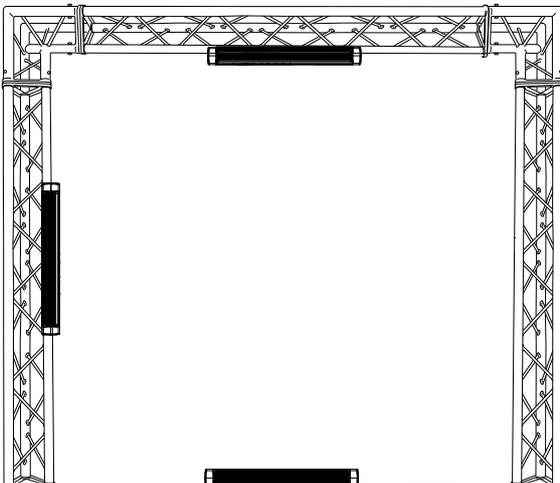
The operator has to make sure that safety-relating and machine-technical installations are approved by an expert after every four year in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are approved by a skilled person once a year.

Procedure:

The device should be installed outside areas where persons may walk by or be seated.

IMPORTANT! OVERHEAD RIGGING REQUIRES EXTENSIVE EXPERIENCE, including (but not limited to) calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the device. If you lack these qualifications, do not attempt the installation yourself, but instead use a professional structural rigger. Improper installation can result in bodily injury and or damage to property.



The device has to be installed out of the reach of people.

If the device shall be lowered from the ceiling or high joists, professional trussing systems have to be used. The device must never be fixed swinging freely in the room.

Caution: Devices in hanging installations may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do NOT install the device!

Before rigging make sure that the installation area can hold a minimum point load of 10 times the device's weight.



DANGER OF FIRE!

When installing the device, make sure there is no highly-inflammable material (decoration articles, etc.) within a distance of min. 0.5 m.



CAUTION!

Use 1 appropriate clamp to rig the fixture on the truss.
Make sure that the device is fixed properly! Ensure that
the structure (truss) to which you are attaching the fixtures is secure.



Mount the device to your trussing system using an appropriate clamp.

For overhead use, always install an appropriate safety bond.

You must only use safety bonds and quick links complying with DIN 56927, shackles complying with DIN EN 1677-1 and BGV C1 carabines. The safety bonds, quick links, shackles and the carabines must be sufficiently dimensioned and used correctly in accordance with the latest industrial safety regulations (e. g. BGV C1, BGI 810-3).

Please note: for overhead rigging in public or industrial areas, a series of safety instructions have to be followed that this manual can only give in part. The operator must therefore inform himself on the current safety instructions and consider them.

The manufacturer cannot be made liable for damages caused by incorrect installations or insufficient safety precautions!

Pull the safety bond through the hole on the bottom of the base and over the trussing system or a safe fixation spot. Insert the end in the quick link and tighten the safety screw.

The maximum drop distance must never exceed 20 cm.

A safety bond which already held the strain of a crash or which is defective must not be used again.

Adjust the desired inclination-angle via the mounting-bracket and tighten the fixation screws.

Screw a clamp via a M10 screw and nut onto the mounting bracket.

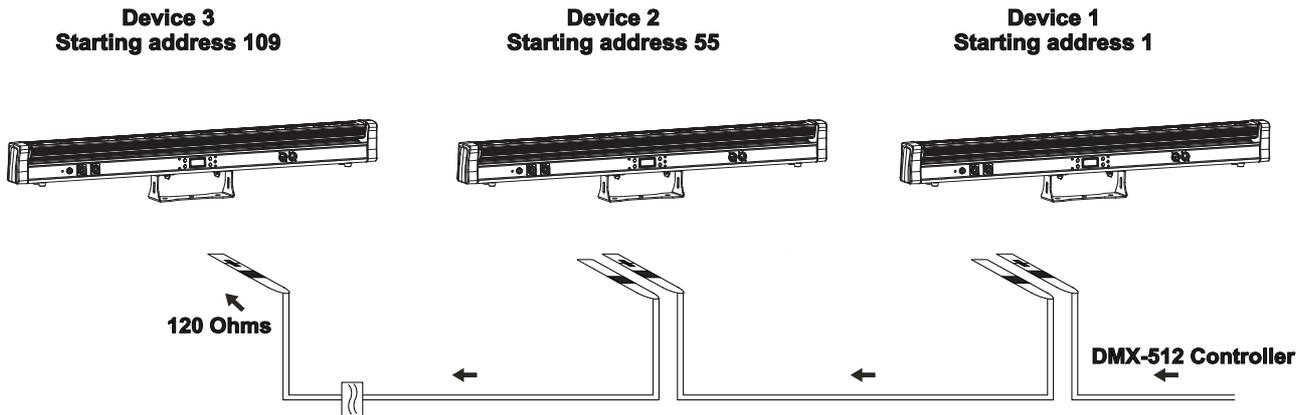
Insert the quick-lock fasteners of the mounting bracket into the respective holes on the bottom of the device. Tighten the quick-lock fasteners fully clockwise.



DANGER TO LIFE!

Before taking into operation for the first time, the installation has to be approved by an expert!

DMX-512 connection



The wires must not come into contact with each other, otherwise the fixtures will not work at all, or will not work properly.



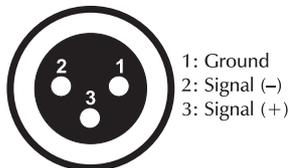
Please note, the starting address depends upon which controller is being used.



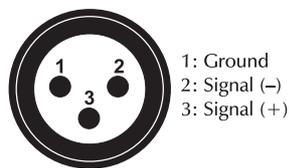
Only use a stereo shielded cable and 3-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.

Occupation of the XLR-connection:

DMX-output
XLR mounting-socket:



DMX-input
XLR mounting-plug:



If you are using controllers with this occupation, you can connect the DMX-output of the controller directly with the DMX-input of the first fixture in the DMX-chain. If you wish to connect DMX-controllers with other XLR-outputs, you need to use adapter-cables.

Building a serial DMX-chain:

Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.

Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120 Ω resistor between Signal (-) and Signal (+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

Connection with the mains

Connect the device to the mains with the enclosed power supply cable.

The occupation of the connection-cables is as follows:

| Cable | Pin | International |
|--------------|---------|---|
| Brown | Live | L |
| Blue | Neutral | N |
| Yellow/Green | Earth |  |

The earth has to be connected!

If the device will be directly connected with the local power supply network, a disconnection switch with a minimum opening of 3 mm at every pole has to be included in the permanent electrical installation.

The device must only be connected with an electric installation carried out in compliance with the IEC-standards. The electric installation must be equipped with a Residual Current Device (RCD) with a maximum fault current of 30 mA.

Lighting effects must not be connected to dimming-packs.

The device is equipped with a lockable power input connector. Plug in the power cord and turn it to the right until it locks. Plug the power cord into a grounded electrical outlet that matches the rated voltage of the machine.

On the rear panel, there is a socket (Power Out). Connect the output with the mains input of the next fixture until all fixtures are connected.

Please note: A maximum of 8 devices may be linked together. After every 8 devices, the fixtures must have a renewed connection with the power mains.

OPERATION

After you connected the spot to the mains, the FUTURELIGHT POS-12 Scan LED QCL starts running. During the Reset, the motors are trimmed and the device is ready for use afterwards.

The display lights up and you can choose the desired mode via the buttons MODE, ENTER, UP and DOWN.

Stand-alone mode

In the stand-alone mode, the FUTURELIGHT POS-12 Scan LED QCL can be used without controller.

Disconnect the FUTURELIGHT POS-12 Scan LED QCL from the controller. Please refer to the instructions under chapter Control Board.

Master/Slave-operation

The master/slave-operation enables, that several devices can be synchronized and controlled by one master-device.

On the rear panel of the POS-12 Scan LED QCL you can find an XLR-jack (DMX Out) and an XLR-plug (DMX In), which can be used for connecting several devices.

Choose the device which is to control the effects. This device then works as master device and controls all other slave devices, which are to be connected to the master device via a DMX cable. Connect the DMX OUT jack with the DMX IN plug of the next device.

Set the desired master-mode for the master-device and the slave-mode for all slave-devices. Please refer to the instructions under chapter Control Board.

DMX-Mode

The device has four different DMX channel modes. The Control Board allows you, as described below, to assign the DMX channel mode.

Addressing

Press the MODE button until the display shows **Address**. You can now set the desired address via the UP or DOWN buttons. Press ENTER to confirm. The Control Board allows you to assign the DMX fixture address, which is defined as the first channel from which the FUTURELIGHT POS-12 Scan LED QCL will respond to the controller.

If you set, for example in the 54 channel mode, the address to channel 55, the device will use the channel 55 to 108 for control.

Please, be sure that you don't have any overlapping channels in order to control each FUTURELIGHT POS-12 Scan LED QCL correctly and independently from any other fixture on the DMX-chain.

If several POS-12 Scan LED QCL are addressed similarly, they will work synchronically.

Controlling:

After having addressed the POS-12 Scan LED QCL, you may now start operating it via your lighting controller.

DMX protocol

| Mode/Channel | | | | Decimal | Hexad. | Percentage | S/F | Feature | | | |
|--------------|------|-------|-------|---------|--------|------------|-----|---------------------------------|------|---|--|
| 6 Ch | 8 Ch | 12 Ch | 54 Ch | | | | | | | | |
| | 5 | 1 | 51 | | | | | Dimmer intensity | | | |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Gradual adjustment of the dimmer intensity from 0 to 100 % |
| 1 | 1 | 2 | | | | | | Red | | | |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Red 0 - 100 % increasing |
| 2 | 2 | 3 | | | | | | Green | | | |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Green 0 - 100 % increasing |
| 3 | 3 | 4 | | | | | | Blue | | | |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Blue 0 - 100 % increasing |
| 4 | 4 | 5 | | | | | | White | | | |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | White 0 - 100 % increasing |
| 5 | 7 | 11 | 53 | | | | | Vertical movement (TILT) | | | |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Push slider up in order to move the head vertically (TILT). Gradual head adjustment from one end of the slider to the other (0-255, 128-center). The head can be stopped at any position you wish. |
| 6 | 8 | 12 | 54 | | | | | TILT speed | | | |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Decreasing speed |
| | | 6 | 52 | | | | | Strobe | | | |
| | | | | 0 | 10 | 00 | 0A | 0% | 4% | S | No function |
| | | | | 11 | 255 | 0B | FF | 4% | 100% | F | Strobe-effect with increasing speed |
| | 6 | | | | | | | Strobe | | | |
| | | | | 0 | 0 | 00 | 00 | 0% | 0% | S | Neutral |
| | | | | 1 | 5 | 01 | 05 | 0% | 2% | S | Music control |
| | | | | 6 | 10 | 06 | 0A | 2% | 4% | S | Neutral |
| | | | | 11 | 255 | 0B | FF | 4% | 100% | F | Strobe-effect with increasing speed |
| | | 7 | | | | | | Color presets | | | |
| | | | | 0 | 10 | 00 | 0A | 0% | 4% | S | No function |
| | | | | 11 | 30 | 0B | 1E | 4% | 12% | F | Red 100% / green increasing / blue 0% |
| | | | | 31 | 50 | 1F | 32 | 12% | 20% | F | Red decreasing / green 100% / blue 0% |
| | | | | 51 | 70 | 33 | 46 | 20% | 27% | F | Red 0% / green 100% / blue increasing |
| | | | | 71 | 90 | 47 | 5A | 28% | 35% | F | Red 0% / green decreasing / blue 100% |
| | | | | 91 | 110 | 5B | 6E | 36% | 43% | F | Red increasing / green 0% / blue 100% |
| | | | | 111 | 130 | 6F | 82 | 44% | 51% | F | Red 100% / green 0% / blue decreasing |
| | | | | 131 | 150 | 83 | 96 | 51% | 59% | F | Red 100% / green increasing / blue increasing |
| | | | | 151 | 170 | 97 | AA | 59% | 67% | F | Red decreasing / green decreasing / blue 100% |
| | | | | 171 | 200 | AB | C8 | 67% | 78% | F | Red 100% / green 100% / blue 100% / white 100% |
| | | | | 201 | 205 | C9 | CD | 79% | 80% | S | WHITE color temperature 1 warm |
| | | | | 206 | 210 | CE | D2 | 81% | 82% | S | WHITE color temperature 2 |
| | | | | 211 | 215 | D3 | D7 | 83% | 84% | S | WHITE color temperature 3 |
| | | | | 216 | 220 | D8 | DC | 85% | 86% | S | WHITE color temperature 4 |

English

| | | | | | | | | | | |
|--|--|-----------|-----|-----|----|----|-----|------|---|-------------------------------------|
| | | | 221 | 225 | DD | E1 | 87% | 88% | S | WHITE color temperature 5 |
| | | | 226 | 230 | E2 | E6 | 89% | 90% | S | WHITE color temperature 6 |
| | | | 231 | 235 | E7 | EB | 91% | 92% | S | WHITE color temperature 7 |
| | | | 236 | 240 | EC | F0 | 93% | 94% | S | WHITE color temperature 8 |
| | | | 241 | 245 | F1 | F5 | 95% | 96% | S | WHITE color temperature 9 |
| | | | 246 | 250 | F6 | FA | 96% | 98% | S | WHITE color temperature 10 |
| | | | 251 | 255 | FB | FF | 98% | 100% | S | WHITE color temperature 11 cold |
| | | | | | | | | | | Internal programs |
| | | | 0 | 10 | 00 | 0A | 0% | 4% | S | No function |
| | | | 11 | 30 | 0B | 1E | 4% | 12% | S | Internal program 1 |
| | | | 31 | 50 | 1F | 32 | 12% | 20% | S | Internal program 2 |
| | | | 51 | 70 | 33 | 46 | 20% | 27% | S | Internal program 3 |
| | | | 71 | 90 | 47 | 5A | 28% | 35% | S | Internal program 4 |
| | | | 91 | 110 | 5B | 6E | 36% | 43% | S | Internal program 5 |
| | | 8 | 111 | 130 | 6F | 82 | 44% | 51% | S | Internal program 6 |
| | | | 131 | 150 | 83 | 96 | 51% | 59% | S | Internal program 7 |
| | | | 151 | 170 | 97 | AA | 59% | 67% | S | Internal program 8 |
| | | | 171 | 190 | AB | BE | 67% | 75% | S | Internal program 9 |
| | | | 191 | 210 | BF | D2 | 75% | 82% | S | Internal program 10 |
| | | | 211 | 230 | D3 | E6 | 83% | 90% | S | Internal program 11 |
| | | | 231 | 250 | E7 | FA | 91% | 98% | S | Internal program 12 |
| | | | 251 | 255 | FB | FF | 98% | 100% | S | Music control |
| | | 9 | | | | | | | | Speed internal programs |
| | | | 0 | 255 | 00 | FF | 0% | 100% | F | Increasing speed |
| | | | | | | | | | | Dimmer speed (step response) |
| | | | 0 | 51 | 00 | 33 | 0% | 20% | S | Control Board setting dimmer speed |
| | | | 52 | 101 | 34 | 65 | 20% | 40% | S | Neutral |
| | | 10 | 102 | 152 | 66 | 98 | 40% | 60% | S | Dimmer speed 1 |
| | | | 153 | 203 | 99 | CB | 60% | 80% | S | Dimmer speed 2 |
| | | | 204 | 255 | CC | FF | 80% | 100% | S | Dimmer speed 3 |
| | | | | | | | | | | Red 1 |
| | | 1 | 0 | 255 | 00 | FF | 0% | 100% | F | Red 0 - 100 % increasing |
| | | | | | | | | | | Green 1 |
| | | 2 | 0 | 255 | 00 | FF | 0% | 100% | F | Green 0 - 100 % increasing |
| | | | | | | | | | | Blue 1 |
| | | 3 | 0 | 255 | 00 | FF | 0% | 100% | F | Blue 0 - 100 % increasing |
| | | | | | | | | | | White 1 |
| | | 4 | 0 | 255 | 00 | FF | 0% | 100% | F | White 0 - 100 % increasing |
| | | | | | | | | | | Red 2 |
| | | 5 | 0 | 255 | 00 | FF | 0% | 100% | F | Red 0 - 100 % increasing |
| | | | | | | | | | | Green 2 |
| | | 6 | 0 | 255 | 00 | FF | 0% | 100% | F | Green 0 - 100 % increasing |
| | | | | | | | | | | Blue 2 |
| | | 7 | 0 | 255 | 00 | FF | 0% | 100% | F | Blue 0 - 100 % increasing |

English

| | | | | | | | | | | | |
|--|--|--|-----------|---|-----|----|----|----|------|---|----------------------------|
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Green 0 - 100 % increasing |
| | | | 31 | | | | | | | | Blue 8 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Blue 0 - 100 % increasing |
| | | | 32 | | | | | | | | White 8 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | White 0 - 100 % increasing |
| | | | 33 | | | | | | | | Red 9 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Red 0 - 100 % increasing |
| | | | 34 | | | | | | | | Green 9 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Green 0 - 100 % increasing |
| | | | 35 | | | | | | | | Blue 9 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Blue 0 - 100 % increasing |
| | | | 36 | | | | | | | | White 9 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | White 0 - 100 % increasing |
| | | | 37 | | | | | | | | Red 10 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Red 0 - 100 % increasing |
| | | | 38 | | | | | | | | Green 10 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Green 0 - 100 % increasing |
| | | | 39 | | | | | | | | Blue 10 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Blue 0 - 100 % increasing |
| | | | 40 | | | | | | | | White 10 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | White 0 - 100 % increasing |
| | | | 41 | | | | | | | | Red 11 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Red 0 - 100 % increasing |
| | | | 42 | | | | | | | | Green 11 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Green 0 - 100 % increasing |
| | | | 43 | | | | | | | | Blue 11 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Blue 0 - 100 % increasing |
| | | | 44 | | | | | | | | White 11 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | White 0 - 100 % increasing |
| | | | 45 | | | | | | | | Red 12 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Red 0 - 100 % increasing |
| | | | 46 | | | | | | | | Green 12 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Green 0 - 100 % increasing |
| | | | 47 | | | | | | | | Blue 12 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | Blue 0 - 100 % increasing |
| | | | 48 | | | | | | | | White 12 |
| | | | | 0 | 255 | 00 | FF | 0% | 100% | F | White 0 - 100 % increasing |

Control Board

The Control Board offers several features: you can simply set the starting address, run the pre-programmed program or select a DMX channel mode.



Browse through the menu by pressing Mode. Press Enter in order to select the desired menu. You can change the selection by pressing Up or Down. Press Enter in order to confirm. You can leave every mode by pressing Mode. The functions provided are listed in the following sections.

| | Menu level 1 | Menu level 2 (flash) | Flash | Comment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 1 | <table border="1"> <tr><td>A</td><td>u</td><td>t</td><td>o</td><td></td><td></td><td></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>1</td><td>></td><td></td></tr> </table> | A | u | t | o | | | | | < | A | u | t | o | 1 | > | | <table border="1"> <tr><td>A</td><td>u</td><td>t</td><td>o</td><td></td><td></td><td></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>1</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>2</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>3</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>4</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>5</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>6</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>7</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>8</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>9</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>10</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>11</td><td>></td><td></td></tr> <tr><td><</td><td>A</td><td>u</td><td>t</td><td>o</td><td>12</td><td>></td><td></td></tr> <tr><td><</td><td>F</td><td>a</td><td>d</td><td>e</td><td></td><td>></td><td></td></tr> </table> | A | u | t | o | | | | | < | A | u | t | o | 1 | > | | < | A | u | t | o | 2 | > | | < | A | u | t | o | 3 | > | | < | A | u | t | o | 4 | > | | < | A | u | t | o | 5 | > | | < | A | u | t | o | 6 | > | | < | A | u | t | o | 7 | > | | < | A | u | t | o | 8 | > | | < | A | u | t | o | 9 | > | | < | A | u | t | o | 10 | > | | < | A | u | t | o | 11 | > | | < | A | u | t | o | 12 | > | | < | F | a | d | e | | > | | <table border="1"> <tr><td>S</td><td>p</td><td>e</td><td>e</td><td>d</td><td></td><td></td><td></td></tr> <tr><td><</td><td>1</td><td>0</td><td>0</td><td>></td><td></td><td></td><td></td></tr> </table> | S | p | e | e | d | | | | < | 1 | 0 | 0 | > | | | | <table border="1"> <tr><td>T</td><td>S</td><td>p</td><td>e</td><td>e</td><td>d</td><td></td><td></td></tr> <tr><td><</td><td>1</td><td>0</td><td>0</td><td>></td><td></td><td></td><td></td></tr> </table> <p>Auto program (12 + fade program)</p> <p>Speed: 0-100 (increasing) Default setting: 100</p> <p>TILT angle/speed: TILT angle: 0-50 (0-240°) TILT speed: 51-100 (increasing) Default setting: 25</p> | T | S | p | e | e | d | | | < | 1 | 0 | 0 | > | | | |
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| 7 | | <table border="1"> <tr><td>A</td><td>u</td><td>t</td><td>o</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>T</td><td>e</td><td>s</td><td>t</td><td></td></tr> </table> | A | u | t | o | | | | | | | | T | e | s | t | | <table border="1"> <tr><td>A</td><td>u</td><td>t</td><td>o</td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td>T</td><td>e</td><td>s</td><td>t</td><td></td></tr> </table> | A | u | t | o | | | | | | | | T | e | s | t | | <p>Testing program</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| <table border="1"> <tr><td>I</td><td>n</td><td>f</td><td>o</td><td></td><td></td><td></td><td></td></tr> </table> | I | n | f | o | | | | | <table border="1"> <tr><td>F</td><td>i</td><td>x</td><td>H</td><td>o</td><td>u</td><td>r</td><td>s</td></tr> <tr><td><</td><td></td><td></td><td>0</td><td>h</td><td>></td></tr> </table> | F | i | x | H | o | u | r | s | < | | | 0 | h | > | | <p>Fixture running time 0-9999H (hours)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | <table border="1"> <tr><td>V</td><td>e</td><td>r</td><td>s</td><td>i</td><td>o</td><td>n</td></tr> <tr><td><</td><td>V</td><td>1</td><td>.</td><td>0</td><td>></td></tr> </table> | V | e | r | s | i | o | n | < | V | 1 | . | 0 | > | | <p>Software version</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 8 | <table border="1"> <tr><td>A</td><td>d</td><td>d</td><td>r</td><td>e</td><td>s</td><td>s</td></tr> <tr><td><</td><td>0</td><td>0</td><td>1</td><td>></td></tr> </table> | A | d | d | r | e | s | s | < | 0 | 0 | 1 | > | <table border="1"> <tr><td>A</td><td>d</td><td>d</td><td>r</td><td>e</td><td>s</td><td>s</td></tr> <tr><td><</td><td>5</td><td>1</td><td>2</td><td>></td></tr> </table> | A | d | d | r | e | s | s | < | 5 | 1 | 2 | > | | <p>DMX address setting Default setting: 1 Limit the DMX address according to DMX channel mode 6Ch : (1 --507) 8Ch : (1 --505) 12Ch : (1 --501) 54Ch : (1 - 459)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 9 | <table border="1"> <tr><td>C</td><td>h</td><td>a</td><td>n</td><td>n</td><td>e</td><td>l</td></tr> <tr><td><</td><td>6</td><td>C</td><td>h</td><td>></td></tr> </table> | C | h | a | n | n | e | l | < | 6 | C | h | > | <table border="1"> <tr><td>C</td><td>h</td><td>a</td><td>n</td><td>n</td><td>e</td><td>l</td></tr> <tr><td><</td><td>6</td><td>C</td><td>h</td><td>></td></tr> <tr><td><</td><td>8</td><td>C</td><td>h</td><td>></td></tr> <tr><td><</td><td>1</td><td>2</td><td>C</td><td>h</td><td>></td></tr> <tr><td><</td><td>5</td><td>4</td><td>C</td><td>h</td><td>></td></tr> </table> | C | h | a | n | n | e | l | < | 6 | C | h | > | < | 8 | C | h | > | < | 1 | 2 | C | h | > | < | 5 | 4 | C | h | > | | <p>Setting DMX channel mode Default setting: 12 Ch</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 10 | <table border="1"> <tr><td>M</td><td>&</td><td>S</td><td></td><td></td><td>M</td><td>d</td></tr> <tr><td><</td><td>M</td><td>a</td><td>s</td><td>t</td><td>e</td><td>r</td><td>></td></tr> </table> | M | & | S | | | M | d | < | M | a | s | t | e | r | > | <table border="1"> <tr><td>M</td><td>&</td><td>S</td><td></td><td></td><td>M</td><td>d</td></tr> <tr><td><</td><td>M</td><td>a</td><td>s</td><td>t</td><td>e</td><td>r</td><td>></td></tr> <tr><td><</td><td>S</td><td>l</td><td>a</td><td>v</td><td>e</td><td>></td></tr> </table> | M | & | S | | | M | d | < | M | a | s | t | e | r | > | < | S | l | a | v | e | > | | <p>Master/Slave mode Default setting: Slave</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 11 | <table border="1"> <tr><td>W</td><td>h</td><td>i</td><td>t</td><td>e</td><td></td><td></td><td></td></tr> <tr><td>B</td><td>a</td><td>l</td><td>a</td><td>n</td><td>c</td><td>e</td><td></td></tr> </table> | W | h | i | t | e | | | | B | a | l | a | n | c | e | | <table border="1"> <tr><td>B</td><td>a</td><td>l</td><td>a</td><td>n</td><td>c</td><td>e</td></tr> <tr><td><</td><td>R</td><td>=</td><td>2</td><td>5</td><td>5</td><td>></td></tr> <tr><td><</td><td>G</td><td>=</td><td>2</td><td>5</td><td>5</td><td>></td></tr> <tr><td><</td><td>B</td><td>=</td><td>2</td><td>5</td><td>5</td><td>></td></tr> </table> | B | a | l | a | n | c | e | < | R | = | 2 | 5 | 5 | > | < | G | = | 2 | 5 | 5 | > | < | B | = | 2 | 5 | 5 | > | <table border="1"> <tr><td>V</td><td>a</td><td>l</td><td>u</td><td>e</td><td></td><td></td><td></td></tr> <tr><td><</td><td>R</td><td>=</td><td>2</td><td>5</td><td>5</td><td>></td></tr> <tr><td><</td><td>G</td><td>=</td><td>2</td><td>5</td><td>5</td><td>></td></tr> <tr><td><</td><td>B</td><td>=</td><td>2</td><td>5</td><td>5</td><td>></td></tr> </table> | V | a | l | u | e | | | | < | R | = | 2 | 5 | 5 | > | < | G | = | 2 | 5 | 5 | > | < | B | = | 2 | 5 | 5 | > | <p>White balance RGB Default setting: 255 (125 -255)</p> |
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| 12 | <table border="1"> <tr><td>T</td><td>i</td><td>l</td><td>t</td><td></td><td></td><td></td><td></td></tr> <tr><td>O</td><td>f</td><td>f</td><td>s</td><td>e</td><td>t</td><td></td><td></td></tr> </table> | T | i | l | t | | | | | O | f | f | s | e | t | | | <table border="1"> <tr><td>O</td><td>f</td><td>f</td><td>s</td><td>e</td><td>t</td><td></td><td></td></tr> <tr><td><</td><td>1</td><td>2</td><td>8</td><td>></td></tr> </table> | O | f | f | s | e | t | | | < | 1 | 2 | 8 | > | | <p>TILT adjustment Default setting: 128 (0-255)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 13 | <table border="1"> <tr><td>T</td><td>i</td><td>l</td><td>t</td><td></td><td></td><td>M</td></tr> <tr><td><</td><td>N</td><td>o</td><td>></td></tr> </table> | T | i | l | t | | | M | < | N | o | > | <table border="1"> <tr><td>T</td><td>i</td><td>l</td><td>t</td><td></td><td></td><td>M</td></tr> <tr><td><</td><td>N</td><td>o</td><td>></td></tr> <tr><td><</td><td>Y</td><td>e</td><td>s</td><td>></td></tr> </table> | T | i | l | t | | | M | < | N | o | > | < | Y | e | s | > | | <p>Reverse Tilt movement Default setting: NO</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 14 | <table border="1"> <tr><td>E</td><td>n</td><td>c</td><td>o</td><td>d</td><td>e</td><td>r</td></tr> <tr><td><</td><td>N</td><td>o</td><td>></td></tr> </table> | E | n | c | o | d | e | r | < | N | o | > | <table border="1"> <tr><td>E</td><td>n</td><td>c</td><td>o</td><td>d</td><td>e</td><td>r</td></tr> <tr><td><</td><td>O</td><td>f</td><td>></td></tr> <tr><td><</td><td>O</td><td>n</td><td>></td></tr> </table> | E | n | c | o | d | e | r | < | O | f | > | < | O | n | > | | <p>Automatic TILT calibration Default setting: On</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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CLEANING AND MAINTENANCE

The operator has to make sure that safety-relating and machine-technical installations are inspected by an expert after every four years in the course of an acceptance test.

The operator has to make sure that safety-relating and machine-technical installations are inspected by a skilled person once a year.

The following points have to be considered during the inspection:

- 1) All screws used for installing the devices or parts of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on housings, fixations and installation spots (ceiling, suspension, trussing).
- 3) Mechanically moved parts like axles, eyes and others must not show any traces of wearing (e.g. material abrading or damages) and must not rotate with unbalances.
- 4) The electric power supply cables must not show any damages, material fatigue (e.g. porous cables) or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.



DANGER TO LIFE!

Disconnect from mains before starting maintenance operation!

We recommend a frequent cleaning of the device. Please use a soft lint-free and moistened cloth. Never use alcohol or solvents!

There are no serviceable parts inside the device except for the fuse. Maintenance and service operations are only to be carried out by authorized dealers.

Replacing the fuse

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.

Before replacing the fuse, unplug mains lead.

Procedure:

- Step 1:** Unscrew the fuseholder on the rearpanel with a fitting screwdriver from the housing (anti-clockwise).
- Step 2:** Remove the old fuse from the fuseholder.
- Step 3:** Install the new fuse in the fuseholder.
- Step 4:** Replace the fuseholder in the housing and fix it.

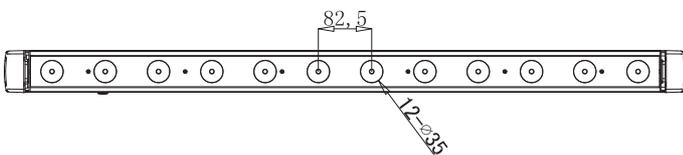
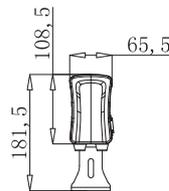
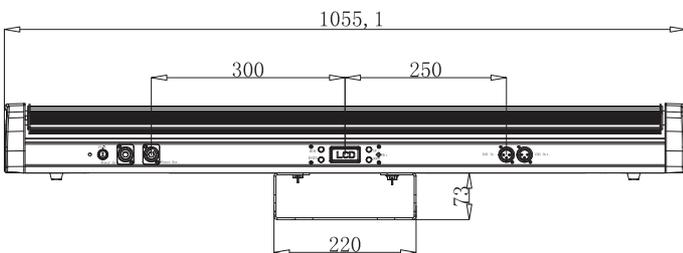
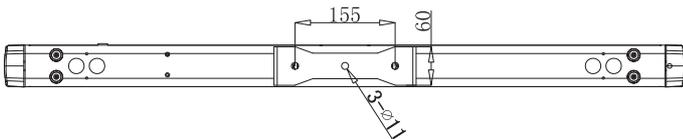
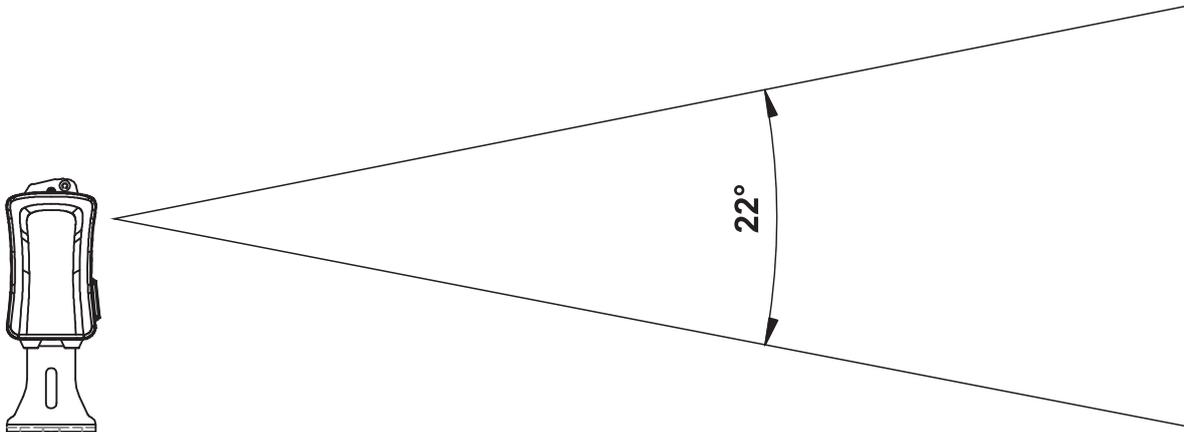
Should you need any spare parts, please use genuine parts.

If the power supply cable of this device becomes damaged, it has to be replaced by a special power supply cable available at your dealer.

Should you have further questions, please contact your dealer.

TECHNICAL SPECIFICATIONS

| | |
|---|--------------------------|
| Power supply: | 100-240 V AC, 50/60 Hz ~ |
| Power consumption: | 140 W |
| DMX control channels: | 6/8/12/54 |
| DMX512 connection: | 3-pin XLR |
| Sound-control: | via built-in microphone |
| Flash-rate: | 30 Hz |
| LED type: | 8 W QCL |
| Number of LEDs: | 12 |
| Maximum TILT-movement: | 240° |
| Beam angle: | 22° |
| Dimensions (LxWxH): | 1055 x 66 x 109 mm |
| Weight: | 5 kg |
| Maximum ambient temperature T_a : | 45° C |
| Maximum housing temperature T_c (steady state): | 75° C |
| Min.distance from flammable surfaces: | 0.5 m |
| Min.distance to lighted object: | 0.1 m |
| Fuse: | T 3.15 A, 250 V |
| Accessory: | |
| FUTURELIGHT OC-8 Omega clamp | No. 51836977 |



Please note: Every information is subject to change without prior notice. 02.09.2013 ©