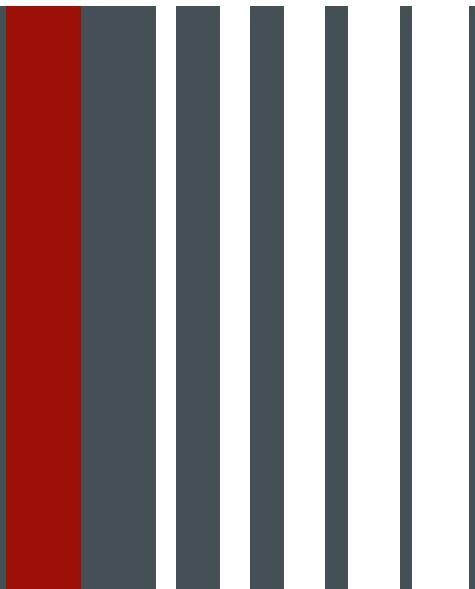


JB LIGHTING



P 18 MK2 WASH

DMX Protokoll | DMX Chart

Version 1.09
Software >= 1.1.0

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Deutsch

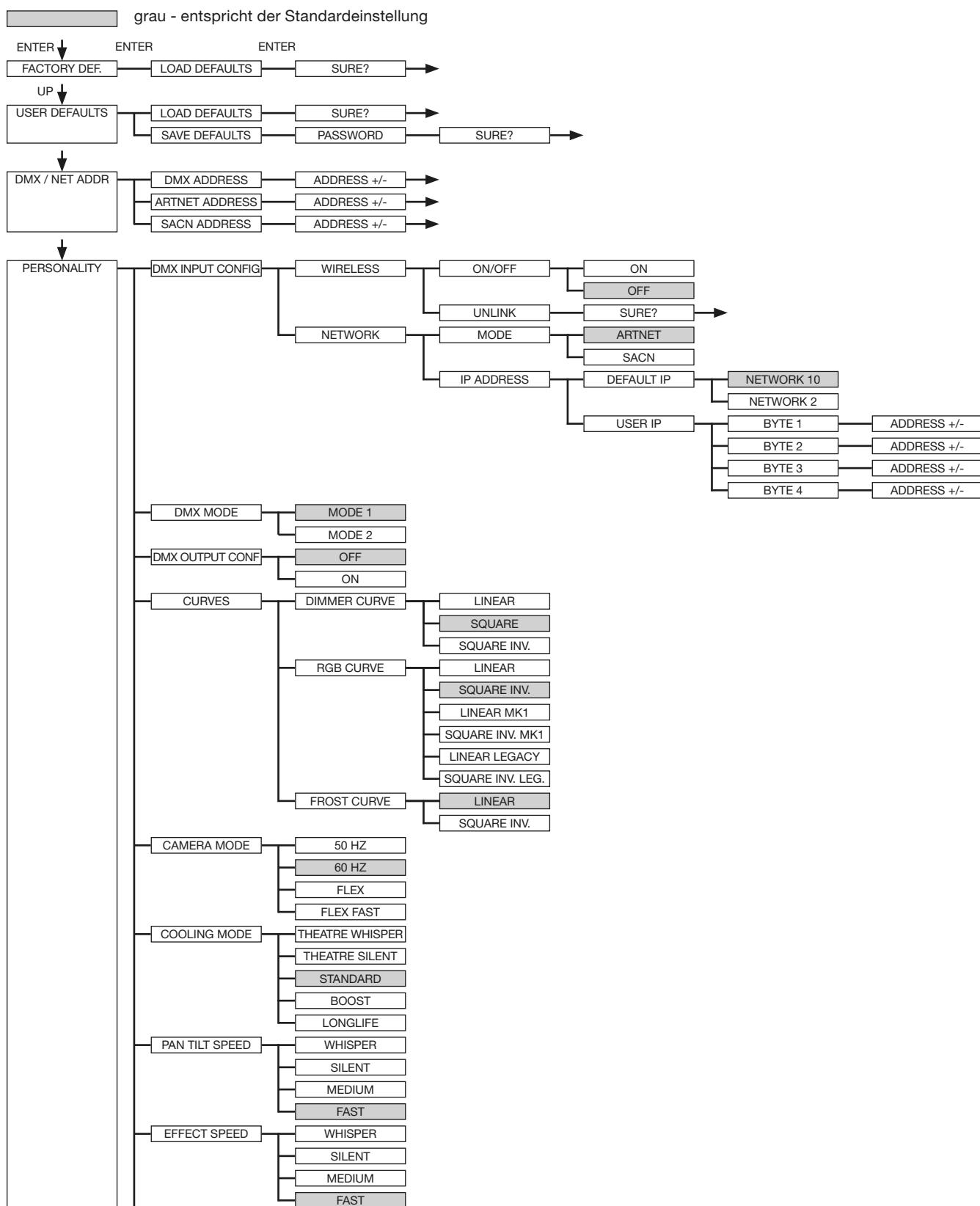
English

1.0 P18 Wash MK2 Modelle

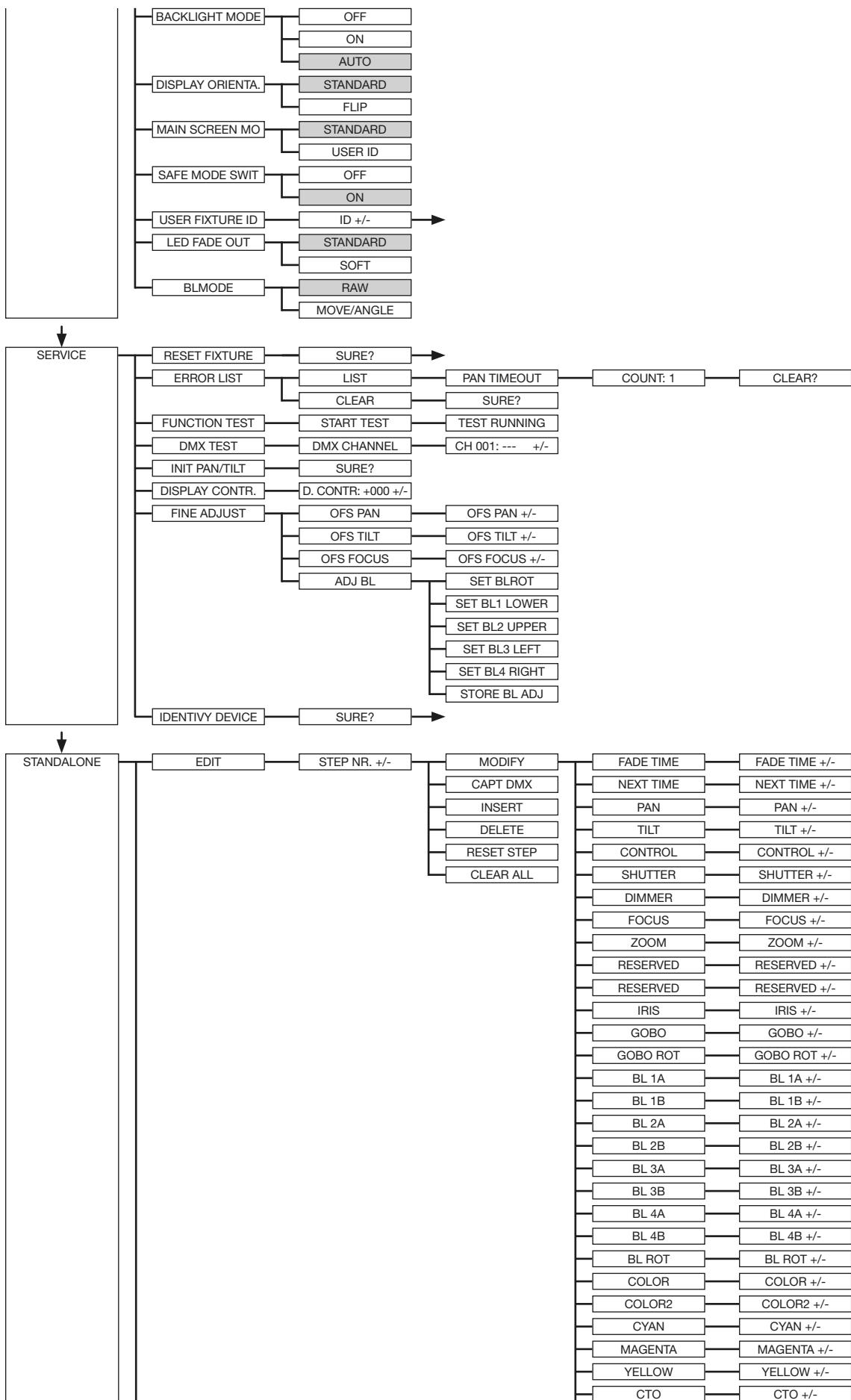
Der P18 Wash MK2 ist in 3 Modellen verfügbar. Die Modelle unterscheiden sich im Lichtmodul und teilweise in den Farbfiltern und in den CTC-Filtern. Die Unterschiede werden jeweils bei den DMX-Kanalfunktionen angegeben.

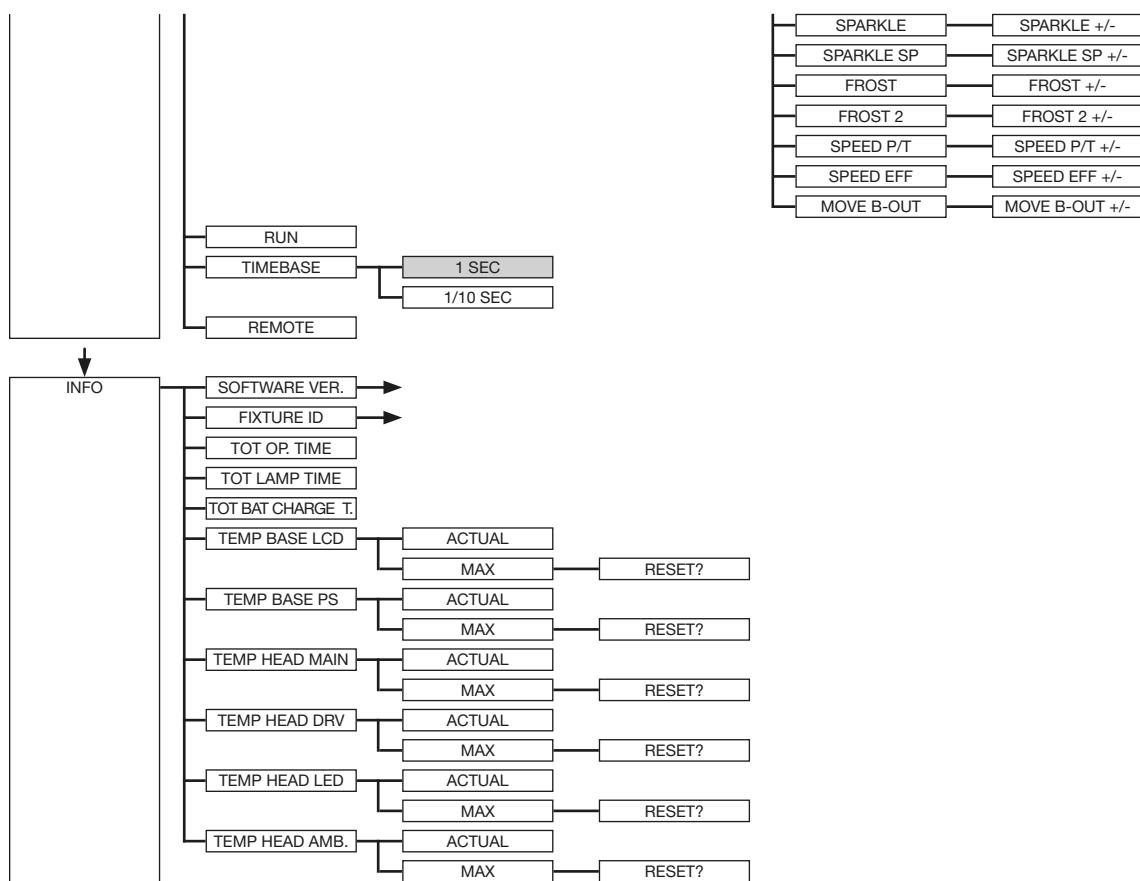
- P18 Wash MK2 HP (High Power)
- P18 Wash MK2 HC (High CRI)
- P18 Wash MK2 WW (Warm weiß)

2.0 Menü-Übersicht



P18 MK2 WASH





3.0 Kanalbelegung

3.1 DMX

3.1.1 Übersicht DMX-Kanäle

Der P18 Wash MK2 verfügt über 2 unterschiedliche DMX-Modi. Der jeweilige Modus lässt sich im Menüpunkt PERSONALITY -> DMX MODE einstellen. Der eingestellte Mode wird im Hauptmenü angezeigt.

| | Mode 1(M1) | Mode 2 (M2) |
|----------|--------------------------|----------------------|
| Kanal 1 | Pan | Pan |
| Kanal 2 | Pan fein | Pan fein |
| Kanal 3 | Tilt | Tilt |
| Kanal 4 | Tilt fein | Tilt fein |
| Kanal 5 | Steuerkanal | Steuerkanal |
| Kanal 6 | Shutter | Shutter |
| Kanal 7 | Dimmer | Dimmer |
| Kanal 8 | Fokus | Dimmer fein |
| Kanal 9 | Zoom | Fokus |
| Kanal 10 | Reserve | Fokus fein |
| Kanal 11 | Reserve | Zoom |
| Kanal 12 | Iris | Zoom fein |
| Kanal 13 | Gobo 1 | Reserve |
| Kanal 14 | Gobo 1 Rotation | Reserve |
| Kanal 15 | Blende 1a | Iris |
| Kanal 16 | Blende 1b | Iris fein |
| Kanal 17 | Blende 3a | Gobo 1 |
| Kanal 18 | Blende 3b | Gobo 1 Rotation |
| Kanal 19 | Blende 2a | Gobo 1 Rotation fein |
| Kanal 20 | Blende 2b | Blende 1a |
| Kanal 21 | Blende 4a | Blende 1a fein |
| Kanal 22 | Blende 4b | Blende 1b |
| Kanal 23 | Blende-Rotation | Blende 1b fein |
| Kanal 24 | Farbrad 1 | Blende 3a |
| Kanal 25 | Farbrad 2 | Blende 3a fein |
| Kanal 26 | Cyan | Blende 3b |
| Kanal 27 | Magenta | Blende 3b fein |
| Kanal 28 | Yellow | Blende 2a |
| Kanal 29 | CTO (CTB Modell WW) | Blende 2a fein |
| Kanal 30 | Sparkle | Blende 2b |
| Kanal 31 | Sparkle Geschwindigkeit | Blende 2b fein |
| Kanal 32 | Frost 1 | Blende 4a |
| Kanal 33 | Frost 2 | Blende 4a fein |
| Kanal 34 | Pan/Tilt-Geschwindigkeit | Blende 4b |
| Kanal 35 | Effekt-Geschwindigkeit | Blende 4b fein |
| Kanal 36 | Blackout Move | Blende-Rotation |
| Kanal 37 | | Blende-Rotation fein |
| Kanal 38 | | Farbrad 1 |
| Kanal 39 | | Farbrad 2 |

| | |
|----------|-------------------------------|
| Kanal 40 | Cyan |
| Kanal 41 | Cyan fein |
| Kanal 42 | Magenta |
| Kanal 43 | Magenta fein |
| Kanal 44 | Yellow |
| Kanal 45 | Yellow fein |
| Kanal 46 | CTO (CTB Modell WW) |
| Kanal 47 | CTO fein (CTB fein Modell WW) |
| Kanal 48 | Sparkle |
| Kanal 49 | Sparkle Geschwindigkeit |
| Kanal 50 | Frost 1 |
| Kanal 51 | Frost 2 |
| Kanal 52 | Pan/Tilt-Geschwindigkeit |
| Kanal 53 | Effekt-Geschwindigkeit |
| Kanal 54 | Blackout Move |

3.1.2 DMX-Kanalbelegung Mode 1 und Mode 2

| M1 | M2 | M3 | Funktion | DMX |
|----|----|----|--|-------------------------------|
| 1 | 1 | | Pan (X) Bewegung 546,74° | 000-255 |
| 2 | 2 | | Pan (X) fein (16 Bit) | 000-255 |
| 3 | 3 | | Tilt (Y) Bewegung 281,16° | 000-255 |
| 4 | 4 | | Tilt (Y) fein (16 Bit) | 000-255 |
| 5 | 5 | | Steuerkanal Um gleichmäßiges Ausdimmen manuell über Fader für alle Lichtmischpulte zu ermöglichen stehen 5 verschiedene Einstellungen für die DMX-Glättung zur Verfügung. Sollte bei manchen DMX-Pulten das DMX-Signal abreißen oder zu wenige Pakete gesendet werden, kann mit diesem Kanal das Ansprechverhalten des Scheinwerfers angepasst werden. Die Einstellung für minimale DMX-Glättung sollte bei den meisten gängigen Pulten funktionieren. Die Werte für DMX-Glättung müssen Dauerhaft an den Scheinwerfer gesendet werden. Bei den anderen Werten wie z.B. Cooling Mode, Farbtemperatur usw. müssen die Werte für 2 Sekunden anliegen, dann wird das Gerät dauerhaft umgeschaltet. (Wie bei der Umstellung im Menü PERSONALITY) Einstellung für minimale DMX-Glättung (Eine gedimmte Shuttersequenz ist möglich) Dimmer Fade out über Fader (schnell - langsam) nicht belegt | 000-007 008-031 |
| | | | Einstellung für minimale/mittlere DMX-Glättung Dimmer Fade out über Fader (schnell - langsam) nicht belegt | 032-039 040-063 |
| | | | Einstellung für mittlere DMX-Glättung Dimmer Fade out über Fader (schnell - langsam) nicht belegt | 064-071 072-095 |
| | | | Einstellung für mittlere/maximale DMX-Glättung Dimmer Fade out über Fader (schnell - langsam) | 096-103 |
| | | | BACKLIGHT MODE - Display-Hintergrundbeleuchtung AUTO - der Scheinwerfer steuert die Hintergrundbeleuchtung automatisch ON - die Hintergrundbeleuchtung ist immer an OFF - die Hintergrundbeleuchtung ist immer aus, bis eine Taste gedrückt wird | 104-104 105-105 106-106 |
| | | | DISPLAY ORIENTATION - Displayausrichtung STANDARD - das display ist zu lesen wenn der Scheinwerfer steht FLIP - die Displayausrichtung ist um 180° gedreht, hängend lesbar nicht belegt | 107-107 108-108 109-109 |
| | | | MAIN SCREEN MODE - Ansicht Hauptbildschirm STANDARD - zeigt die DMX-Adresse, -Mode und bei akt. Wireless die Feldstärke USER FIXTURE ID - zeigt die frei definierbare Fixture-ID / Scheinwerfernummer nicht belegt | 110-110 111-111 112-112 |
| | | | USER FIXTURE ID SET - Scheinwerfernummer setzen SET - hiermit kann die USER ID eingestellt werden. der Scheinwerfer übernimmt den 16Bit Wert von Pan für die USER ID nicht belegt | 113-113 114-127 |

| | | |
|--|---|--|
| | Einstellung für maximale DMX-Glättung Dimmer Fade out über Fader (schnell - langsam) | 128-135 |
| | DIMMER CURVE - Einstellung der Dimmerkurve LINEAR - lineare Dimmerkurve SQUARE - exponentielle Dimmerkurve SQUARE INVERS - exponentiell inverse Dimmerkurve nicht belegt | 136-136 137-137 138-138 139-139 |
| | RGB/CMY CURVE - Einstellung der RGB/CMY-Kurve LINEAR - lineare RGB/CMY-Kurve SQUARE INVERS - exponentiell inverse RGB/CMY-Kurve LINEAR MK1 - lineare RGB/CMY-Kurve angepasst an P18 MK1 | 140-140 141-141 142-142 |
| | FROST CURVE - Einstellung der Frostkurve LINEAR - lineare Frostkurve SQUARE INVERS - exponentiell inverse Frostkurve nicht belegt | 143-143 144-144 145-145 |
| | PAN/TILT SPEED - Pan/Tilt-Geschwindigkeit WHISPER SILENT MEDIUM FAST | 146-146 147-147 148-148 149-149 |
| | EFFECT SPEED - Effekt-Geschwindigkeit WHISPER SILENT MEDIUM FAST | 150-150 151-151 152-152 153-153 |
| | LED FADE OUT MODE - Art der Ausdimmung STANDARD SOFT | 154-154 155-155 156-159 |
| | BLMODE - Art der Blendenschieberansteuerung RAW MOVE/ANGLE nicht belegt | 156-156 157-157 158-159 |
| | COOLING MODE - Einstellung der Lüfterlautstärke und der Helligkeit Die Umschaltung erfolgt mit Dimmer/Shutter zu (DMX 000) dann nach 2 Sekunden außer die Schalter "SAFE MODE SWITCH" im PERSONALITY-Menü steht auf OFF, dann kann die Umschaltung direkt erfolgen ohne dass Dimmer und Shutter zu sein müssen. THEATRE WHISPER THEATRE SILENT STANDARD BOOST LONGLIFE nicht belegt | 160-160 161-161 162-162 163-163 164-164 165-207 |
| | CAMERA MODE - Einstellung der LED-Wiederhofrequenz 50Hz 60Hz FLEX - 600Hz High FLEX - 3kHz nicht belegt | 208-215 216-223 224-227 228-231 232-239 |
| | RESET - ein Grundreset des Scheinwerfers wird durchgeführt Reset (nach 2 Sekunden) nicht belegt | 240-247 248-255 |

| | | | |
|----|----|--|---|
| 6 | 6 | Shutter Shutter zu Shutter auf Shutter pulsierend öffnen >20Hz (schnell - langsam) Shutter auf Fade-Effekt mit Dimmer (langsam - schnell) Shutter auf Shutter zu Shutter pulsierend öffnen <20Hz (schnell - langsam) Shutter auf Shutter pulsierend schließen (schnell - langsam) Shutter zu Shutter fade, 0% (schnell - langsam) Shutter auf Shutter fade, 100% (schnell - langsam) Shutter zu Shutter Zufall 100% (schnell - langsam) Shutter auf Shutter Zufall 0% (schnell - langsam) Shutter zu Shutter Zufall fade 0% (schnell - langsam) Shutter auf Shutter Zufall fade 100% (schnell - langsam) Shutter auf | 000-015 016-095 096-110 111-111 112-125 126-126 127-126 128-142 143-143 144-158 159-159 160-174 175-175 176-190 191-191 192-206 207-207 208-222 223-223 224-238 239-239 240-254 255-255 |
| 7 | 7 | Dimmer 0 - 100% | 000-255 |
| | 8 | Dimmer fein (16Bit) | 000-255 |
| 8 | 9 | Fokus 0-100% | 000-255 |
| | 10 | Fokus fein (16 Bit) | 000-255 |
| 9 | 11 | Zoom 0 -100% (nah 13° - weit 65°) | 000-255 |
| | 12 | Zoom fein (16 Bit) | 000-255 |
| 10 | 13 | Reserve nicht belegt | 000-255 |
| 11 | 14 | Reserve nicht belegt | 000-255 |
| 12 | 15 | Iris 0-100% (offen -> zu) | 000-255 |
| | 16 | Iris fein (16Bit) | 000-255 |
| 13 | 17 | Goborad 2 - rotierende Gobos Gobo 0 Gobo 1 | 000-007 008-015 |

| | | | | |
|----|----|--|---|---|
| | | Gobo 2 | | 016-023 |
| | | Gobo 3 | | 024-031 |
| | | Gobo 4 | | 032-039 |
| | | Gobo 5 | | 040-047 |
| | | Gobo 6 | | 048-127 |
| | | Gobo 0 Shake (schnell - langsam) Gobo 1 Shake (schnell - langsam) Gobo 2 Shake (schnell - langsam) Gobo 3 Shake (schnell - langsam) Gobo 4 Shake (schnell - langsam) Gobo 5 Shake (schnell - langsam) Gobo 6 Shake (schnell - langsam) Goboradotation (schnell - langsam) Goboradotation (langsam - schnell) | | 128-135 136-143 144-151 152-159 160-167 168-175 176-191 192-223 224-255 |
| 14 | 18 | Gobopositionierung / -rotation 2 Gobopositionierung 0°-540° Goborotation rechts (schnell - langsam) Goborotation Stop Goborotation links (langsam - schnell) | | 000-191 192-222 223-224 225-255 |
| | 19 | Gobopositionierung / -rotation 2 fein (16 Bit) | | 000-255 |
| 15 | 20 | Blende 1a 0-100% | <p>Blendenschieberrotation</p> <p>DMX 000 -65°</p> <p>DMX 255 65°</p> <p>1A 1B</p> <p>4B 2A</p> <p>4A 2B</p> <p>3B 3A</p> | 000-255 |
| | 21 | Blende 1a fein (16 Bit) | | 000-255 |
| 16 | 22 | Blende 1b 0-100% | | 000-255 |
| | 23 | Blende 1b fein (16 Bit) | | 000-255 |
| 17 | 24 | Blende 3a 0-100% | | 000-255 |
| | 25 | Blende 3a fein (16 Bit) | | 000-255 |
| 18 | 26 | Blende 3b 0-100% | | 000-255 |
| | 27 | Blende 3b fein (16 Bit) | | 000-255 |
| 19 | 28 | Blende 2a 0-100% | | 000-255 |
| | 29 | Blende 2a fein (16 Bit) | | 000-255 |

Scheinwerfer stehend mit Display in Front
Pan: Center DMX 128
Tilt: Linse nach hinten schauend DMX 200

| | | | |
|----|----|--|---|
| 20 | 30 | Blende 2b 0-100% | 000-255 |
| | 31 | Blende 2b fein (16 Bit) | 000-255 |
| 21 | 32 | Blende 4a 0-100% | 000-255 |
| | 33 | Blende 4a fein (16 Bit) | 000-255 |
| 22 | 34 | Blende 4b 0-100% | 000-255 |
| | 35 | Blende 4b fein (16 Bit) | 000-255 |
| 23 | 36 | Blendenschieber-Rotation -45° / +45° | 000-255 |
| | 37 | Blendenschieber-Rotation fein (16 Bit) | 000-255 |
| 24 | 38 | Farbrad 1 Weiss Weiss / Rot Rot Rot / Gelb Gelb Gelb / Magenta Magenta Magenta / Grün Grün Grün / Orange Orange Orange / Dunkelblau Dunkelblau Dunkelblau / HCRI (Pink Modell HC und WW) HCRI (Pink Modell HC und WW) HCRI (Pink Modell HC und WW) / Weiss Farben linear: Weiss - Rot - Gelb - Magenta - Grün - Orange - Dunkelblau - HCRI (Pink Modell HC und WW) - Weiss Farbraddurchlauf rechts (schnell - langsam) Farbraddurchlauf links (langsam - schnell) | 000-001 002-003 004-005 006-007 008-009 010-011 012-013 014-015 016-017 018-019 020-021 022-023 024-025 026-027 028-029 030-031 064-191 192-223 224-255 |
| 25 | 39 | Farbrad 2 Open 2700K 3200K 4200K 7000K 9000K 12000K Dunkelblau | 000-001 004-005 008-009 012-013 016-017 020-021 024-025 028-029 |
| 26 | 40 | Cyan (8 Bit) 0-100% | 000-255 |
| | 41 | Cyan fein (16 Bit) | 000-255 |
| 27 | 42 | Magenta (8 Bit) 0-100% | 000-255 |
| | 43 | Magenta fein (16 Bit) | 000-255 |
| 28 | 44 | Yellow (Gelb) (8 Bit) 0-100% | 000-255 |

| | | | |
|----|----|---|--|
| | 45 | Yellow (Gelb) fein (16 Bit) | 000-255 |
| 29 | 46 | CTO (8 Bit) 0-100% (CTB (8 Bit) 0-100% bei Modell WW) | 000-255 |
| | 47 | CTO fein (16 Bit) (CTB fein (16 Bit) bei Modell WW) | 000-255 |
| 30 | 48 | Sparkle - Glittereffekt Sparkle Effekt inaktiv Sparkle Effekt Intensität (minimum - maximum) | 000-000 001-255 |
| 31 | 49 | Sparkle Geschwindigkeit Sparkle Effekt gefadet (langsam -> schnell) Sparkle Effekt geschaltet (langsam -> schnell) Wiederholung der Fade- und Schaltblöcke | 000-031 032-063 064-255 |
| 32 | 50 | Frost 1 Frost 0-100% | 000-255 |
| 33 | 51 | Frost 2 Frost 0-100% | 000-255 |
| 34 | 52 | Pan/Tilt Geschwindigkeit Bewegung in Echtzeit Bewegung zeitverzögert (schnell - langsam) | 000-003 004-255 |
| 35 | 53 | Effektgeschwindigkeit Effekte in Echtzeit Effekte zeitverzögert (schnell - langsam) | 000-003 004-255 |
| 36 | 54 | Blackout Move Nicht belegt Blackout bei Pan/Tilt Blackout bei Farbe, CMY, Iris, Frost Blackout bei Farbe, CMY, Iris, Frost, Zoom, Fokus Blackout bei Farbe, CMY, Iris, Frost, Pan/Tilt Blackout bei Farbe, CMY, Iris, Frost, Zoom, Fokus, Pan/Tilt | 000-095 096-127 128-159 160-191 192-223 224-255 |

3.1.3 Steuerkanal

Über den Steuerkanal können verschiedene Funktionen des Scheinwerfers permanent umgeschaltet werden. Folgende Funktionen können über den Steuerkanal umgeschaltet werden.

Ansprechverhalten des Scheinwerfers beim Ausdimmen über Fader

BACKLIGHT MODE - Display Hintergrundbeleuchtung

DISPLAY ORIENTATION - Displayausrichtung

MAIN SCREEN MODE - Ansicht Hauptbildschirm

USER FIXTURE ID SET - Scheinwerfernummer setzen

DIMMER CURVE - Einstellung der Dimmerkurve

RGB/CMY CURVE - Einstellung der RGB/CMY-Kurve

FROST CURVE - Einstellung der Frostkurve

PAN/TILT SPEED - Pan/Tilt-Geschwindigkeit

EFFECT SPEED - Effekt-Geschwindigkeit

LED FADE OUT MODE - Art der Ausdimmung

BL MODE - Art der Blendenschieberansteuerung

COOLING MODE - Einstellung der Lüfterlautstärke und der Helligkeit

CAMERA MODE - Einstellung der LED-Wiederholfrequenz

RESET - Ein Grundreset des Scheinwerfers wird durchgeführt

Die Details hierzu siehe DMX-Kanalfunktionen für den P18 Wash MK2 auf der Seite 08

3.1.4 Sparkle Effekt, Sparklegeschwindigkeit

Über diesen Kanal können in Verbindung mit dem Fokus Animationseffekte erzeugt werden. Je nach Intensität wird die Abbildung mehr oder weniger zum pulsieren angeregt. Dieser Effekt kann gefadet oder geschaltet werden.

3.2 Artnet

Der Scheinwerfer kann über Artnet - ArtNET 4 angesteuert werden. Hierzu über den Menüpunkt DMX / NET ADDR -> ARTNET ADDRESS die Artnetadresse einstellen und zusätzlich über den Menüpunkt PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> MODE -> ARTNET auswählen. Zusätzlich noch die IP-Adresse des Scheinwerfers über PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> IP ADDRESS definieren.

3.3 Streaming ACN

Der Scheinwerfer kann über sACN - Streaming ACN angesteuert werden. Hierzu über den Menüpunkt DMX / NET ADDR -> SACN ADDRESS die sACN-Adresse einstellen und zusätzlich über den Menüpunkt PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> MODE -> SACN auswählen. Zusätzlich noch die IP-Adresse des Scheinwerfers über PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> IP ADDRESS definieren.

3.4 Wireless-DMX

Der P18 MK2 Wash ist mit einem Lumen-Radio CRMX-Empfänger für Wireless DMX ausgestattet. Der Empfänger kann sowohl DMX als auch RDM verarbeiten. Sollte eine Kabel und Wirelessverbindung am P18 MK2 Wash anliegen hat die Kabelverbindung Vorrang! Das empfangene Signal kann über den DMX-Anschluß ausgegeben werden. Hierzu im Menü PERSONALITY die Einstellung DMX OUTPUT CONFIG auf ON stellen, nach Bestätigung mit ENTER gibt der Scheinwerfer das komplette über Wireless-DMX empfangene Universum aus.

3.5 RDM

Der P18 kann über RDM (Remote Device Management) gemäß ESTA American National Standard E1.20-2006 kommunizieren. RDM ist ein bidirektionales Kommunikationsprotokoll für den Einsatz in DMX512-Steuerungssystemen. Es ist der offene Standard für die Konfiguration und Statusüberwachung von DMX-512-Geräten. Das RDM-Protokoll ermöglicht das Einfügen von Datenpaketen in einen DMX-512-Datenstrom, ohne dass bestehende Nicht-RDM-Geräte beeinträchtigt werden. Es ermöglicht einer Konsole oder einem dedizierten RDM-Controller, Befehle an bestimmte Geräte zu senden und Nachrichten zu empfangen. Der P18 kann RDM über Art-net 4 und DMX senden und empfangen. Ebenfalls ist der Scheinwerfer dafür ausgelegt RDM über sACN zu senden und über Artnet zu empfangen. Die RDM-Funktionalität ist abhängig vom eingesetzten Lichtsteuerpult, hierzu muss ebenfalls die Bedienungsanleitung des jeweiligen Pultherstellers beachtet werden.

3.5.1 RDM-UID

Jeder P18 hat eine werkseitig festgelegte RDM-UID (eindeutige Identifikationsnummer), die ihn in RDM-Systemen adressierbar und identifizierbar macht.

3.5.2 RDM-PIDs

Der P18 unterstützt die gemäß ESTA erforderlichen RDM-PIDs (Parameter-IDs) sowie hersteller-spezifische PIDs.

3.5.3 Standard RDM-Parameter-IDs

| RDM-Parameter-ID | GET Befehl | SET Befehl | DISCO- COVERY | Anmerkungen |
|-----------------------------|---------------|---------------|------------------|--------------------------------------|
| RDM-Identifikation | | | | |
| DISC_UNIQUE_BRANCH | | | ✓ | dient der Scheinwerferidentifikation |
| DISC_MUTE | | | ✓ | dient der Scheinwerferidentifikation |
| DISC_UN_MUTE | | | ✓ | dient der Scheinwerferidentifikation |
| RDM-Statusermittlung | | | | |
| QUEUED_MESSAGE | ✓ | | | |
| STATUS_MESSAGES | ✓ | | | |
| STATUS_ID_DESCRIPTION | ✓ | | | |
| CLEAR_STATUS_ID | | ✓ | | |
| RDM-Information | | | | |
| SUPPORTED_PARAMETERS | ✓ | | | |
| RDM-Konfiguration | | | | |
| DEVICE_MODEL_DESCRIPTION | ✓ | | | |
| MANUFACTURER_LABEL | ✓ | | | |
| FACTORY_DEFAULTS | | ✓ | | |
| SOFTWARE_VERSION_LABEL | ✓ | | | |
| DMX_PERSONALITY | | ✓ | | |
| DMX_PERSONALITY_DESCRIPTION | ✓ | | | |
| DMX_START_ADDRESS | | ✓ | | |
| SENSOR_DEFINITION | ✓ | | | |
| DEVICE_HOURS | ✓ | | | |
| LAMP_HOURS | ✓ | | | |
| IDENTIFY_DEVICE | | ✓ | | |
| RESET_DEVICE | | ✓ | | |
| PERFORM_SELFTEST | | ✓ | | |
| SELFTEST_DESCRIPTION | ✓ | | | |

3.5.4 Herstellerspezifische RDM-Parameter-IDs

| RDM-Parameter-ID | GET Befehl | SET Befehl | DISCO- VERY | Anmerkungen |
|-----------------------|---------------|---------------|----------------|-------------|
| RDM-Konfiguration | | | | |
| Battery Charge Hours | ✓ | | | |
| Error Number | ✓ | | | |
| Error | ✓ | | | |
| Select Next Error | | ✓ | | |
| Remove Error | | ✓ | | |
| Remove New Error Flag | | ✓ | | |
| User Defaults | | ✓ | | |
| User Fixture ID | | ✓ | | |
| Fixture Lock On/Off | ✓ | ✓ | | |
| Dimmer Curve | ✓ | ✓ | | |
| RGB Curve | ✓ | ✓ | | |
| Frost Curve | ✓ | ✓ | | |
| Camera Mode | ✓ | ✓ | | |
| Cooling Mode | ✓ | ✓ | | |
| Pan Tilt Speed | ✓ | ✓ | | |
| Effect Speed | ✓ | ✓ | | |
| Backlight Mode | ✓ | ✓ | | |
| Disp Orientation | ✓ | ✓ | | |
| Main Screen Mode | ✓ | ✓ | | |
| Safe Mode Switch | ✓ | ✓ | | |
| LED Fade Out Mode | ✓ | ✓ | | |
| Blade Mode | ✓ | ✓ | | |

3.5.5 RDM-Sensoren-IDs

| RDM-Sensor-ID | GET Befehl | SET Befehl | DISCO- COVERY | Anmerkungen |
|--------------------|---------------|---------------|------------------|-------------|
| RDM-Sensoren | | | | |
| Temp Sens Base LCD | ✓ | ✓ | | |
| Temp Sens Base PS | ✓ | ✓ | | |
| Temp Sens Head PCB | ✓ | ✓ | | |
| Temp Sens Head Drv | ✓ | ✓ | | |
| Temp Sens Head LED | ✓ | ✓ | | |
| Temp Sens Head Air | ✓ | ✓ | | |

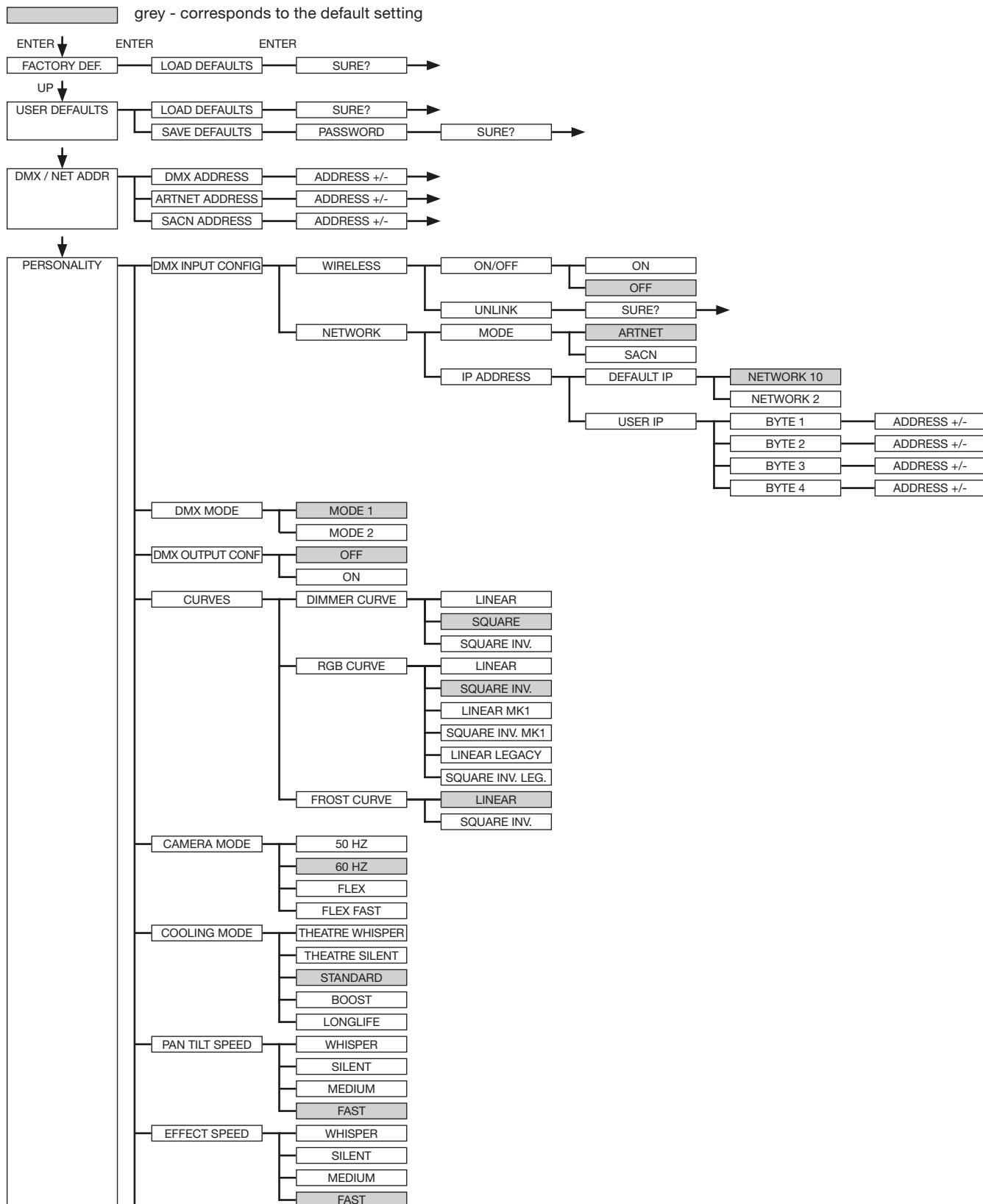
English

4.0 P18 Wash MK2 models

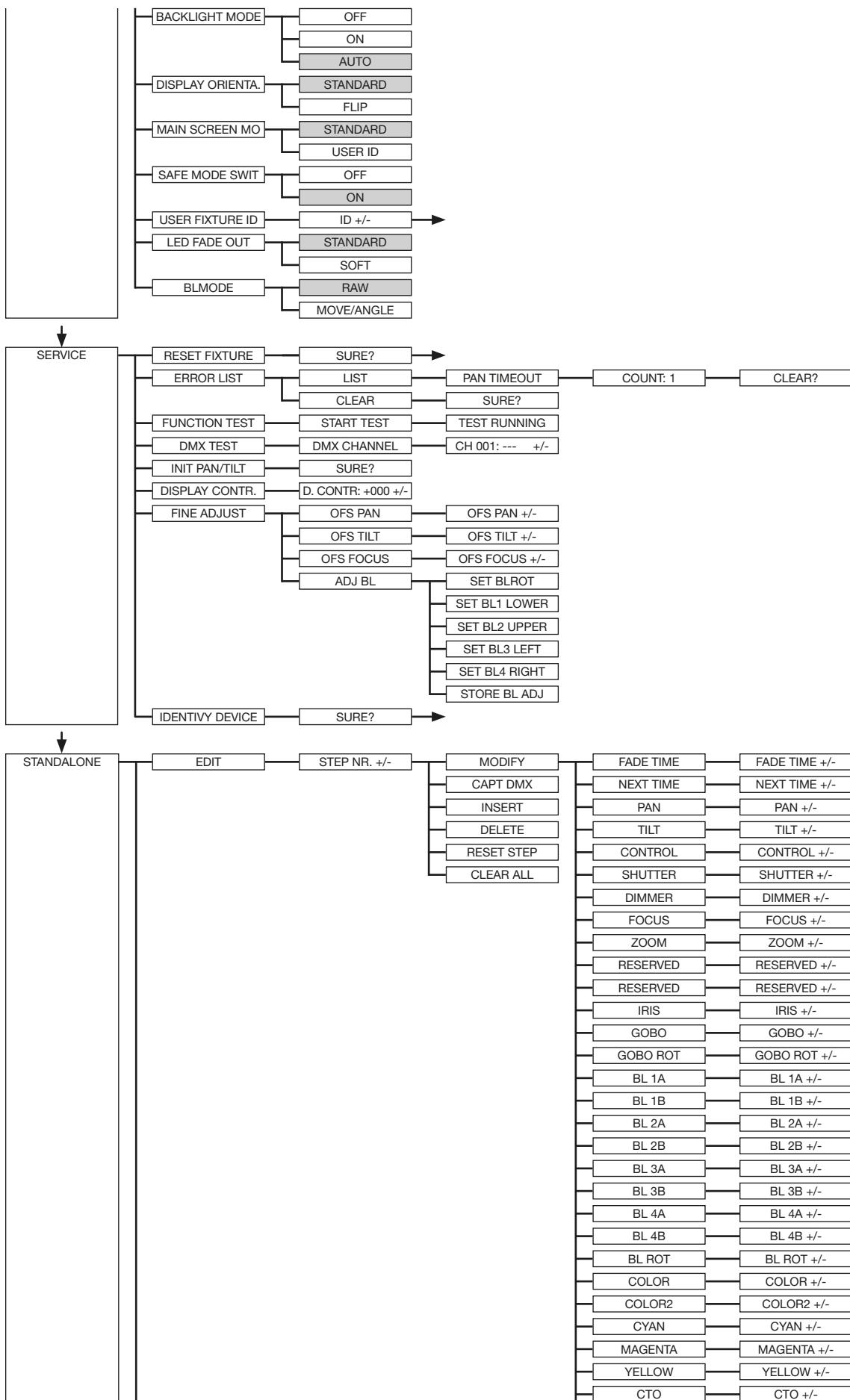
The P18 Wash MK2 is available in 3 models. The models differ in the light module and partly in the color filters and in the CTC filters. The differences can be found in the DMX channel functions.

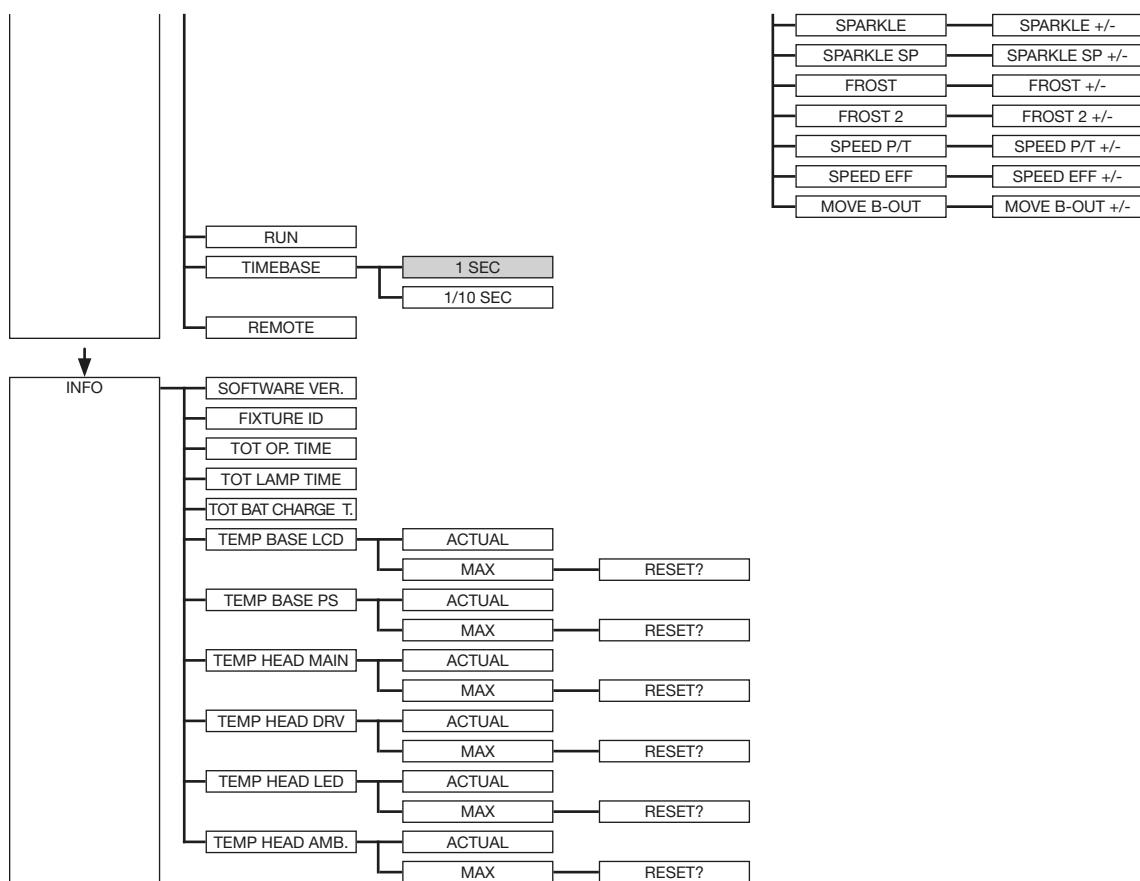
- P18 Wash MK2 HP (High Power)
- P18 Wash MK2 HC (High CRI)
- P18 Wash MK2 WW (Warm white)

5.0 Menu overview



P18 MK2 WASH





6.0 Control options

6.1 DMX

6.1.1 Operating modes

The P18 Wash MK2 offers 2 different channel modes. Menu PERSONALITY -> DMX MODE you can select your mode. The used mode will be displayed in the main menu.

| | Mode 1(M1) | Mode 2 (M2) |
|------------|--------------------|------------------------|
| Channel 1 | Pan | Pan |
| Channel 2 | Pan fine | Pan fine |
| Channel 3 | Tilt | Tilt |
| Channel 4 | Tilt fine | Tilt fine |
| Channel 5 | Control channel | Control channel |
| Channel 6 | Shutter | Shutter |
| Channel 7 | Dimmer | Dimmer |
| Channel 8 | Focus | Dimmer fine |
| Channel 9 | Zoom | Focus |
| Channel 10 | Reserved | Fine focus |
| Channel 11 | Reserved | Zoom |
| Channel 12 | Iris | Fine zoom |
| Channel 13 | Gobo 1 | Reserved |
| Channel 14 | Gobo Rotation 1 | Reserved |
| Channel 15 | Aperture 1a | Iris |
| Channel 16 | Aperture 1b | Fine iris |
| Channel 17 | Aperture 3a | Gobo 1 |
| Channel 18 | Aperture 3b | Gobo rotation 1 |
| Channel 19 | Aperture 2a | Gobo rotation 1 fine |
| Channel 20 | Aperture 2b | Aperture 1a |
| Channel 21 | Aperture 4a | Aperture 1a fine |
| Channel 22 | Aperture 4b | Aperture 1b |
| Channel 23 | Aperture rotation | Aperture 1b fine |
| Channel 24 | Colour wheel 1 | Aperture 3a |
| Channel 25 | Colour wheel 2 | Aperture 3a fine |
| Channel 26 | Cyan | Aperture 3b |
| Channel 27 | Magenta | Aperture 3b fine |
| Channel 28 | Yellow | Aperture 2a |
| Channel 29 | CTO (CTB model WW) | Aperture 2a fine |
| Channel 30 | Sparkle | Aperture 2b |
| Channel 31 | Sparkle speed | Aperture 2b fine |
| Channel 32 | Frost 1 | Aperture 4a |
| Channel 33 | Frost 2 | Aperture 4a fine |
| Channel 34 | Pan/tilt speed | Aperture 4b |
| Channel 35 | Effect speed | Aperture 4b fine |
| Channel 36 | Blackout Move | Aperture rotation |
| Channel 37 | | Fine aperture rotation |
| Channel 38 | | Colour wheel |
| Channel 39 | | Colour wheel |

| | |
|------------|------------------------------|
| Channel 40 | Cyan |
| Channel 41 | Fine cyan |
| Channel 42 | Magenta |
| Channel 43 | Fine magenta |
| Channel 44 | Yellow |
| Channel 45 | Fine yellow |
| Channel 46 | CTO (CTB model WW) |
| Channel 47 | CTO fine (CTB fine model WW) |
| Channel 48 | Sparkle |
| Channel 49 | Sparkle speed |
| Channel 50 | Frost 1 |
| Channel 51 | Frost 2 |
| Channel 52 | Pan/tilt speed |
| Channel 53 | Effect speed |
| Channel 54 | Blackout Move |

6.1.2 DMX channel assignment Mode 1 and Mode 2

| M1 | M2 | Function | DMX |
|----|----|--|---|
| 1 | 1 | Pan (X) movement 546.74° | 000-255 |
| 2 | 2 | Pan (X) fine (16 Bit) | 000-255 |
| 3 | 3 | Tilt (Y) movement 281.16° | 000-255 |
| 4 | 4 | Tilt (Y) fine (16 Bit) | 000-255 |
| 5 | 5 | <p>Control channel To enable uniform dimming manually via faders for all light mixing consoles, 5 different settings for the DMX smoothing are available. If the DMX signal is interrupted or too few packets are sent on some DMX consoles, the response of the Sparx 18/30 can be adjusted with this channel. The Minimum DMX Smoothing setting should work on most popular consoles. The values for DMX smoothing must be permanent. For the other values, such as cooling mode, color temperature, zoom modes, camera mode, reset, the values must be applied for 2 seconds, then the device will be permanently switched (Same setting as in the PERSONALITY menu).</p> <p>Setting for minimal DMX smoothing (A dimmed shutter sequence is possible) Dimmer fade out via fader (fast - slow) not used</p> <p>Setting for minimum / medium DMX smoothing Dimmer fade out via fader (fast - slow) not used</p> <p>Setting for medium DMX smoothing Dimmer fade out via fader (fast - slow) not used</p> <p>Setting for medium / maximum DMX smoothing Dimmer fade out via fader (fast - slow)</p> <p>BACKLIGHT MODE - Display backlight configuration AUTO - the fixture controls the backlight automatically ON - the backlight is always on OFF - the backlight is always off until a key is pressed</p> <p>DISPLAY ORIENTATION - display flip or not STANDARD - the display can be read when the headlamp is on a surface FLIP - the display orientation is rotated by 180 °, hanging readable not used</p> <p>MAIN SCREEN MODE - view of the main screen STANDARD - the main screen displays the DMX address, the DMX mode, and when wireless is enabled, the field strength. USER FIXTURE ID - the main screen displays the user definable fixture ID / headlight number not used</p> <p>USER FIXTURE ID SET - set of fixture number SET - the USER ID can be set. The headlamp takes the 16-bit value of Pan for the USER ID not used</p> <p>Setting for maximum DMX smoothing Dimmer fade out via fader (fast - slow)</p> | 000-007 008-031 032-039 040-063 064-071 072-095 096-103 104-104 105-105 106-106 107-107 108-108 109-109 110-110 111-111 112-112 113-113 114-127 128-135 |

| | | |
|--|--|--|
| | DIMMER CURVE - selection of dimmer curve LINEAR - linear dimmer curve SQUARE - exponential dimmer curve SQUARE INVERSE - exponential inverse dimmer curve not used | 128-135 136-136 137-137 138-138 139-139 |
| | RGB/CMY CURVE - selection of RGB/CMY curve LINEAR - linear RGB/CMY curve SQUARE INVERSE - Exponential inverse RGB/CMY curve LINEAR MK1 - linear RGB/CMY curve adapted to P18 MK1 | 140-140 141-141 142-142 |
| | FROST CURVE - selection of frost curve LINEAR - linear frost curve SQUARE INVERSE - Exponential inverse frost curve not used | 143-143 144-144 145-145 |
| | PAN/TILT SPEED - selection of PAN/TILT speed WHISPER SILENT MEDIUM FAST | 146-146 147-147 148-148 149-149 |
| | EFFECT SPEED - selection of effect speed WHISPER SILENT MEDIUM FAST | 150-150 151-151 152-152 153-153 |
| | LED FADE OUT MODE - selection of dimming out STANDARD SOFT not used | 154-154 155-155 156-159 |
| | BLMODE - type of shutter control RAW MOVE/ANGLE not used | 156-156 157-157 158-159 |
| | COOLING MODE - Adjust the fan volume and brightness This takes place with dimmer / shutter set to closed (DMX 000) then after 2 seconds the fixture will switch this option, except the switch "SAFE MODE SWITCH" in the PERSONALITY menu is set to OFF, then the changeover can take place directly without dimmer and shutter having to be closed. THEATRE WHISPER THEATRE SILENT STANDARD BOOST LONGLIFE not used | 160-160 161-161 162-162 163-163 164-164 165-207 |
| | CAMERA MODE - Setting the LED refresh rate 50Hz 60Hz FLEX - 600Hz High FLEX - 3kHz not used | 208-215 216-223 224-227 228-231 232-239 |
| | RESET - a basic reset of the fixture is carried out Reset not used | 240-247 248-255 |

P18 MK2 WASH

| | | | |
|----|----|--|---|
| 6 | 6 | Shutter Shutter closed Shutter open Open pulsing shutter >20Hz (rapid - slow) Shutter open Fade effect with dimmer (slow - rapid) Shutter open Shutter closed Open pulsing shutter <20Hz (rapid - slow) Shutter open Close pulsing shutter >20Hz (rapid - slow) Shutter closed Shutter fade, 0% (rapid - slow) Shutter open Shutter fade, 100% (rapid - slow) Shutter closed Random shutter 100% (rapid - slow) Shutter open Random shutter 0% (rapid - slow) Shutter closed Random shutter fade, 0% (rapid- slow) Shutter open Random shutter fade, 100% (rapid- slow) Shutter open | 000-015 016-095 096-110 111-111 112-125 126-126 127-127 128-142 143-143 144-158 159-159 160-174 175-175 176-190 191-191 192-206 207-207 208-222 223-223 224-238 239-239 240-254 255-255 |
| 7 | 7 | Dimmer 0 - 100% | 000-255 |
| | 8 | Fine dimmer (16Bit) | 000-255 |
| 8 | 9 | Focus 0-100% | 000-255 |
| | 10 | Fine focus (16 Bit) | 000-255 |
| 9 | 11 | Zoom 0 -100% (near 13° - far 65°) | 000-255 |
| | 12 | Fine zoom (16 Bit) | 000-255 |
| 10 | 13 | Reserved not used | 000-255 |
| 11 | 14 | Reserved not used | 000-255 |
| 12 | 15 | Iris 0-100% (open -> closed) | 000-255 |
| | 16 | Fine iris (16Bit) | 000-255 |
| 13 | 17 | Gobo wheel 1 - rotating gobos Gobo 0 Gobo 1 | 000-007 008-015 |

| | | | | |
|----|----|--|--|---|
| | | Gobo 2 | | 016-023 |
| | | Gobo 3 | | 024-031 |
| | | Gobo 4 | | 032-039 |
| | | Gobo 5 | | 040-047 |
| | | Gobo 6 | | 048-127 |
| | | Gobo 0 shake (fast - slow) Gobo 1 shake (fast - slow) Gobo 2 shake (fast - slow) Gobo 3 shake (fast - slow) Gobo 4 shake (fast - slow) Gobo 5 shake (fast - slow) Gobo 6 shake (fast - slow) Gobo wheel rotation (fast - slow) Gobo wheel rotation (slow - fast) | | 128-135 136-143 144-151 152-159 160-167 168-175 176-191 192-223 224-255 |
| 14 | 18 | Gobo positioning/rotation 1 Gobo positioning 0° - 540° Gobo rotation, right (rapid - slow) Stop gobo rotation Gobo rotation, left (slow - rapid) | | 000-191 192-222 223-224 225-255 |
| | 19 | Fine gobo positioning/rotation 1 (16 Bit) | | 000-255 |
| 15 | 20 | Aperture 1a 0-100% | <p>shaper rotation center DMX 128</p> <p>DMX 000 -65°</p> <p>DMX 255 65°</p> <p>1A 1B</p> <p>4B 2A</p> <p>4A 3B</p> <p>3A 2B</p> | 000-255 |
| | 21 | Aperture 1a fine (16 Bit) | | 000-255 |
| 16 | 22 | Aperture 1b 0-100% | | 000-255 |
| | 23 | Aperture 1b fine (16 Bit) | | 000-255 |
| 17 | 24 | Aperture 3a 0-100% | | 000-255 |
| | 25 | Aperture 3a fine (16 Bit) | | 000-255 |
| 18 | 26 | Aperture 3b 0-100% | | 000-255 |
| | 27 | Aperture 3b fine (16 Bit) | | 000-255 |
| 19 | 28 | Aperture 2a 0-100% | | 000-255 |
| | 29 | Aperture 2a fine (16 Bit) | | 000-255 |

fixture standing with display to the front
Pan: center DMX 128
Tilt: lens looking backwards DMX 200

| | | | |
|----|----|--|---|
| 20 | 30 | Aperture 2b 0-100% | 000-255 |
| | 31 | Aperture 2b fine (16 Bit) | 000-255 |
| 21 | 32 | Aperture 4a 0-100% | 000-255 |
| | 33 | Aperture 4a fine (16 Bit) | 000-255 |
| 22 | 34 | Aperture 4b 0-100% | 000-255 |
| | 35 | Aperture 4b fine (16 Bit) | 000-255 |
| 23 | 36 | Aperture slider rotation -65° / +65° | 000-255 |
| | 37 | Fine aperture slider rotation (16 Bit) | 000-255 |
| 24 | 38 | Colour wheel 1 White White / Red Red Red / Yellow Yellow Yellow / Magenta Magenta Magenta / Green Green Green / Orange Orange Orange / Dark Blue Dark Blue Dark Blue / HCRI (Pink model HC and WW) HCRI (Pink model HC and WW) HCRI (Pink model HC and WW) / White Linear colours: White - Red - Yellow - Magenta - Green - Orange - Dark Blue - HCRI (Pink model HC and WW) - White Colour cycle, right (rapid - slow) Colour cycle, left (slow - rapid) | 000-001 002-003 004-005 006-007 008-009 010-011 012-013 014-015 016-017 018-019 020-021 022-023 024-025 026-027 028-029 030-031 064-191 192-223 224-255 |
| 25 | 39 | Color wheel 2 Open 2700K 3200K 4200K 7000K 9000K 12000K Dark blue | 000-001 004-005 008-009 012-013 016-017 020-021 024-025 028-029 |
| 26 | 40 | Cyan (8 Bit) 0-100% | 000-255 |
| | 41 | Fine cyan (16 Bit) | 000-255 |
| 27 | 42 | Magenta (8 Bit) 0-100% | 000-255 |
| | 43 | Fine magenta (16 Bit) | 000-255 |

| | | | |
|----|----|--|--|
| 28 | 44 | Yellow (8 Bit) 0-100% | 000-255 |
| | 45 | Fine yellow (16 Bit) | 000-255 |
| 29 | 46 | CTO (8 Bit) 0-100% (CTB model WW (8 Bit) 0-100%) | 000-255 |
| | 47 | Fine CTO (16 Bit) (Fine CTB model WW (16 Bit)) | 000-255 |
| 30 | 48 | Sparkle - Glitter effect Sparkle effect inactive Sparkle effect intensity (minimum - maximum) | 000-000 001-255 |
| 31 | 49 | Sparkle speed Faded sparkle effect (slow -> rapid) Switched sparkle effect (slow -> rapid) Repetition of the fading and switching blocks | 000-031 032-063 064-255 |
| 32 | 50 | Frost 1 Frost 0-100% | 000-255 |
| 33 | 51 | Frost 2 Frost 0-100% | 000-255 |
| 34 | 52 | Pan/tilt speed Real-time motion Delayed motion (rapid - slow) | 000-003 004-255 |
| 35 | 53 | Effects speed Real-time effects Delayed effects (rapid - slow) | 000-003 004-255 |
| 36 | 54 | Blackout Move Not assigned Blackout during pan/tilt Blackout during Colour, CMY, Iris, Frost Blackout during Colour, CMY, Iris, Frost, Zoom, Focus Blackout during Colour, CMY, Iris, Frost, Pan/Tilt Blackout during Colour, CMY, Iris, Frost, Zoom, Focus, Pan/Tilt | 000-095 096-127 128-159 160-191 192-223 224-255 |

6.1.3 Control channel

Via the control channel different functions of the fixture can be permanently switched. The following functions can be switched via the control channel.

Response of the headlamp when dimming via faders
BACKLIGHT MODE - display backlight
DISPLAY ORIENTATION - display orientation
MAIN SCREEN MODE - main screen view
USER FIXTURE ID SET - set headlight number
DIMMER CURVE - dimmer curve adjustment
RGB / CMY CURVE - adjust the RGB / CMY curve
FROST CURVE - setting the frost curve
PAN / TILT SPEED - pan / tilt speed
EFFECT SPEED - effect speed
LED FADE OUT MODE - type of dimming
BL MODE - type of shutter control
COOLING MODE - adjust the fan volume and brightness
CAMERA MODE - sets the LED refresh rate
RESET - a basic reset of the headlight is performed

For details, see DMX Channel functions for the P18 Profile on page 22.

6.1.4 Sparkle effect, sparkle speed

Animation effects can be created via this channel in connection with the focus. Depending on the intensity, the projection can be made to shake more or less. This effect can be dimmed or switched.

6.2 Artnet

The spotlight can be controlled via Artnet - ArtNET 4. To do this, set the Artnet address via the menu item DMX / NET ADDR -> ARTNET ADDRESS and also select it via the menu item PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> MODE -> ARTNET. In addition, define the IP address of the spotlight via PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> IP ADDRESS.

6.3 Streaming ACN

The headlight can be controlled via sACN - Streaming ACN. To do this, set the sACN address via the menu item DMX / NET ADDR -> SACN ADDRESS and also select it via the menu item PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> MODE -> SACN. In addition, define the IP address of the spotlight via PERSONALITY -> DMX INPUT CONFIG -> NETWORK -> IP ADDRESS.

6.4 Wireless-DMX

The P18 MK2 Wash is equipped with a Lumen Radio CRMx receiver for wireless DMX. The receiver can process both DMX and RDM. If there is a cable and wireless connection to the P18 MK2 Wash, the cable connection has priority! The received signal can be output via the DMX connection. To do this, set the DMX OUTPUT CONFIG setting to ON in the PERSONALITY menu. After confirming with ENTER, the spotlight will output the entire universe received via wireless DMX.

6.5 RDM

The P18 MK2 Wash can communicate via RDM (Remote Device Management) in accordance with ESTA American National Standard E1.20-2006. RDM is a bidirectional communication protocol for use in DMX512 control systems. It is the open standard for the configuration and status monitoring of DMX-512 devices. The RDM protocol enables data packets to be inserted into a DMX-512 data stream without affecting existing non-RDM devices. It enables a console or dedicated RDM controller to send commands to specific devices and receive messages. The P18 can send and receive RDM via DMX and Artnet 4. The spotlight is also designed to send RDM via sACN and receive it via Artnet. The RDM functionality depends on the lighting control desk used, the operating instructions of the respective desk manufacturer must also be observed.

6.5.1 RDM-UID

Every P18 MK2 Wash has a factory-set RDM-UID (unique identification number), which makes it addressable and identifiable in RDM systems.

6.5.2 RDM-PIDs

The P18 MK2 Wash supports the RDM PIDs (parameter IDs) required by ESTA as well as manufacturer-specific PIDs.

6.5.3 Standard RDM parameter IDs

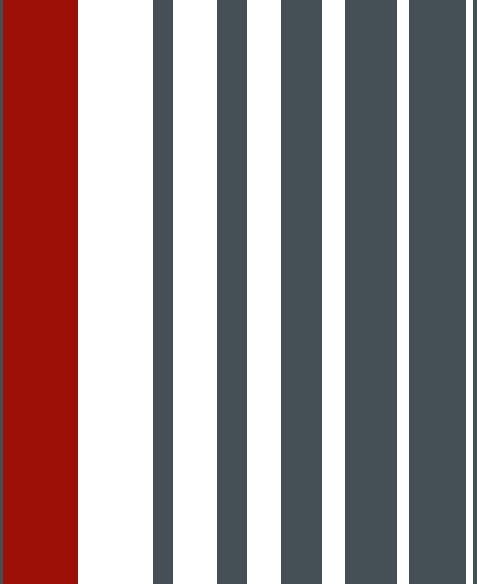
| RDM parameter ID | GET | SET | DISCO- COVERY | Note |
|-----------------------------|-----|-----|------------------|------------------------------------|
| RDM identification | | | | |
| DISC_UNIQUE_BRANCH | | | ✓ | is used for fixture identification |
| DISC_MUTE | | | ✓ | is used for fixture identification |
| DISC_UN_MUTE | | | ✓ | is used for fixture identification |
| RDM status determination | | | | |
| QUEUED_MESSAGE | ✓ | | | |
| STATUS_MESSAGES | ✓ | | | |
| STATUS_ID_DESCRIPTION | ✓ | | | |
| CLEAR_STATUS_ID | | ✓ | | |
| RDM information | | | | |
| SUPPORTED_PARAMETERS | ✓ | | | |
| RDM configuration | | | | |
| DEVICE_MODEL_DESCRIPTION | ✓ | | | |
| MANUFACTURER_LABEL | ✓ | | | |
| FACTORY_DEFAULTS | | ✓ | | |
| SOFTWARE_VERSION_LABEL | ✓ | | | |
| DMX_PERSONALITY | | ✓ | | |
| DMX_PERSONALITY_DESCRIPTION | ✓ | | | |
| DMX_START_ADDRESS | | ✓ | | |
| SENSOR_DEFINITION | ✓ | | | |
| DEVICE_HOURS | ✓ | | | |
| LAMP_HOURS | ✓ | | | |
| IDENTIFY_DEVICE | | ✓ | | |
| RESET_DEVICE | | ✓ | | |
| PERFORM_SELFTEST | | ✓ | | |
| SELFTEST_DESCRIPTION | ✓ | | | |

6.5.4 Manufacturer specific RDM parameter IDs

| RDM parameter ID | GET | SET | DISCO- VERY | Note |
|-----------------------|-----|-----|----------------|------|
| RDM configuration | | | | |
| Battery Charge Hours | ✓ | | | |
| Error Number | ✓ | | | |
| Error | ✓ | | | |
| Select Next Error | | ✓ | | |
| Remove Error | | ✓ | | |
| Remove New Error Flag | | ✓ | | |
| User Defaults | | ✓ | | |
| User Fixture ID | | ✓ | | |
| Fixture Lock On/Off | ✓ | ✓ | | |
| Dimmer Curve | ✓ | ✓ | | |
| RGB Curve | ✓ | ✓ | | |
| Frost Curve | ✓ | ✓ | | |
| Camera Mode | ✓ | ✓ | | |
| Cooling Mode | ✓ | ✓ | | |
| Pan Tilt Speed | ✓ | ✓ | | |
| Effect Speed | ✓ | ✓ | | |
| Backlight Mode | ✓ | ✓ | | |
| Disp Orientation | ✓ | ✓ | | |
| Main Screen Mode | ✓ | ✓ | | |
| Safe Mode Switch | ✓ | ✓ | | |
| LED Fade Out Mode | ✓ | ✓ | | |
| Blade Mode | ✓ | ✓ | | |

6.5.5 RDM sensor IDs

| RDM sensor ID | GET | SET | DISCO- VERY | Note |
|--------------------|-----|-----|----------------|------|
| RDM sensors | | | | |
| Temp Sens Base LCD | ✓ | ✓ | | |
| Temp Sens Base PS | ✓ | ✓ | | |
| Temp Sens Head PCB | ✓ | ✓ | | |
| Temp Sens Head Drv | ✓ | ✓ | | |
| Temp Sens Head LED | ✓ | ✓ | | |
| Temp Sens Head Air | ✓ | ✓ | | |



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