impressionXL

# Instruction Manual

WWC & CCW

WWC & CCW

from software version 1.01/30
(Instruction version 1.03)

GLP
GERMAN LIGHT PRODUCTS
since 1994
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# Preface

This manual serves for both systems the **IMPRESSION XL WWC** as well as the **IMPRESSION XL CCW.** The two systems differ from each other only by the number of cold- respectively warm- white LEDs.

**WWC version:** 84x LEDs cold white, 156x LEDs warm white

**CCW version:** 156x LEDs cold white, 84x LEDs warm white

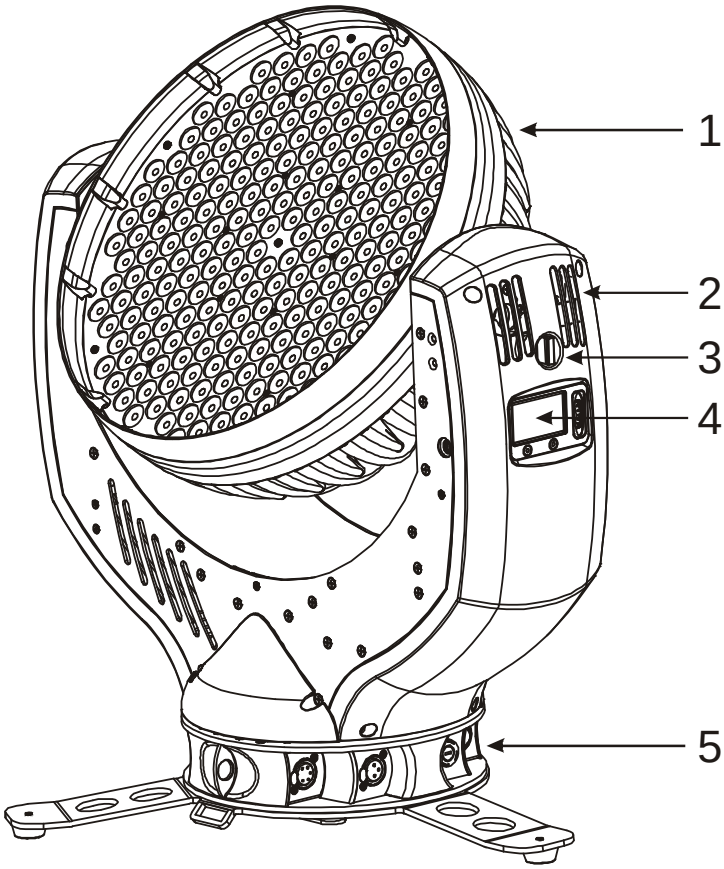
Notes:

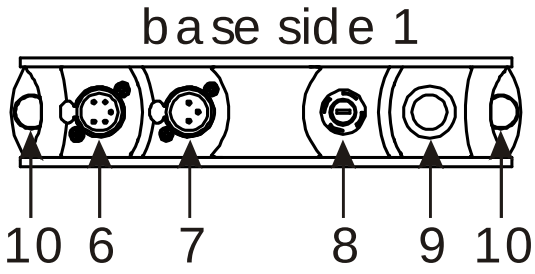
# Table of content

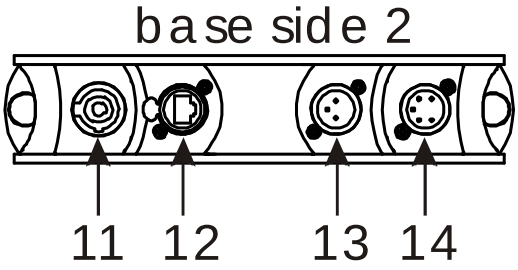
# 1 Description of Device

1. Moving head (actively and passively cooled)
2. Arm with various cooling vents
3. Tilt-Lock to secure head against unmeant movements → see also 1.1
4. LCD-Display/Menu (data entry)
5. Base with various connectors and Camlock mounting system

→ **Eyelets for safety cable**




6. DMX- Output (5 pole)
7. DMX- Output (3 pole)
8. Micro-fuse 6.3x32mm, T15A
9. Power On/Off
10. 2x eyelets for safety cable
11. Mains supply (Powercon)
12. Blank panel
13. DMX- Input (3 pole)
14. DMX- Input (5 pole)

**<u>Note:</u> Only connect one cable to the DMX-Out/Input at a time!**

## *1.1 Safety Instructions*

The **IMPRESSION XL** is an advanced technology product. To guarantee smooth operation, it is necessary to follow the following instructions.

The manufacturer of this device will not take responsibility of damages through any disregard of the information in this user manual. Warranty claims will also be cancelled in the event of the system casing being opened.

1. Make sure that before powering up the fixture, the fans and air inlets are clean and not blocked by anything.
2. Before powering up the fixture, ensure that the moving head part of the fixture can rotate unhindered through its full range of movement.
3. A safety distance of at least 0.5 m to any easily flammable material (e.g. decoration material) must be adhered to.
4. **Attention!** Don't touch the device during operation. Parts of the fixture can become hot and can cause injuries and / or damages.
5. The system doesn't contain any user serviceable parts. Opening the fixture will void the manufacturers warranty.
6. Danger of burning. Wait at least 15 minutes after disconnecting the AC power before changing the optical carrier on the fixture. Pay attention to possible hot parts of the system.
7. **Never look directly into the beam of light or one of the LEDs.** Never use optical apertures with a distance less than 0.5 m to observe the beam of light. **LED Class 2M.** Not following these precautions can result in serious injury to your eyes and in particular, your retina.

**Attention:** LED Class 2M can cause injuries of your eyes even without optical instruments in front of them or within a distance of less than 0.5m and short exposure time.

**Avoid direct radiation to your eyes!**

8. To ensure proper operation, you must also follow the installation guide described in chapter 2 of this manual. Operating the **IMPRESSION XL** without suitable mounting devices can increase the risk of an accident.
9. The **IMPRESSION XL** features a unique small and lightweight design with no specific carrying handles. Care needs to be shown when handling the fixture to ensure that no unnecessary damage should occur. Fragile areas include the LCD display and cover on one side arm and the front bezel.

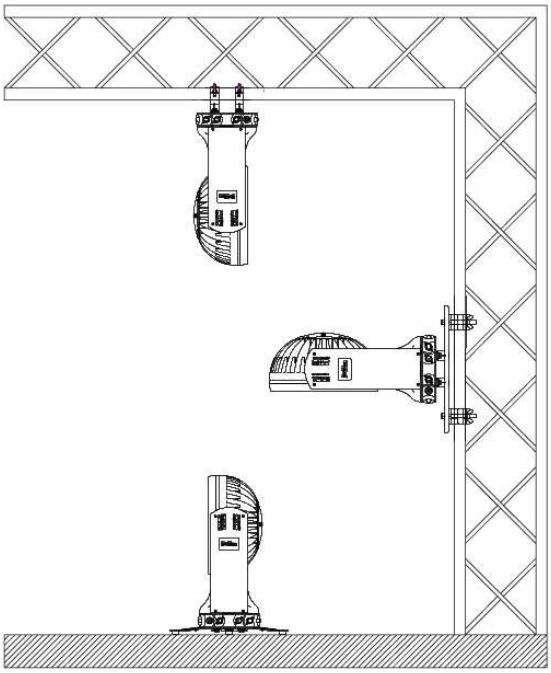
Pressure in these areas could result in damages which will not be covered by the standard warranty.

10. Repair-, maintenance- and installation work should only be performed by qualified or GLP certified staff. You need to pay attention to the common rules of technology that are not explicit mentioned in this manual.
11. Use only original spare parts. Any structural modification on the system will terminate all warranty claims.
12. Please keep this instruction manual for future reference.

# 2 Preparation and Installation

## *2.1 Mounting*

The **IMPRESSION XL** is fully operational whether it hangs or is mounted to a wall. It can also be operated while standing on the floor. Keep a safety distance of 0.5 m from any easily inflammable materials (decoration etc.).

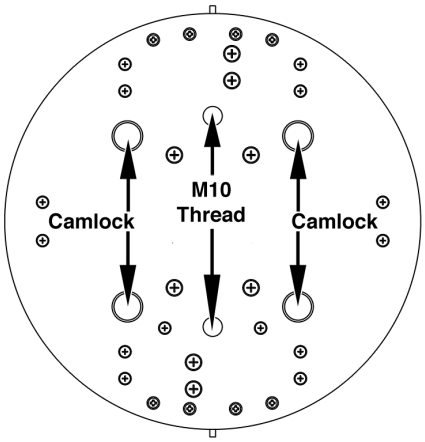


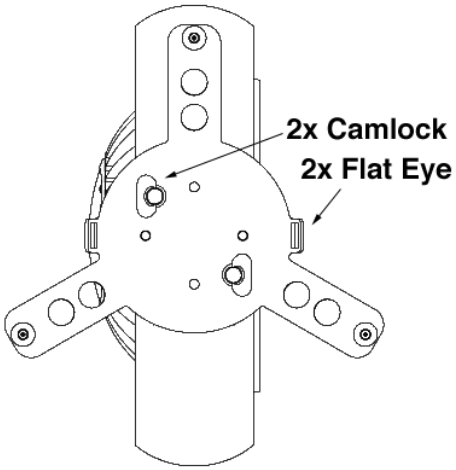
**Pay attention to the regulations of: BGV C1 (former VBG 70) and DIN VDE 0711-217.**
**The installation shall be done by qualified personal only.**

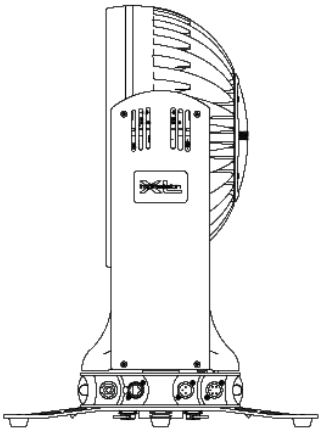
For the various mounting positions of the **IMPRESSION XL** (standing on the floor, sideways or hanging) different accessories kits are available. Using any required kits, along with the standard mounting connectors on the base of the fixture, will ensure a safe and firm installation.

### *2.1.1 Mounting on the floor (upright)*

To operate the **IMPRESSION XL** in an upright position, please use the dedicated floor-stand which ships with all original fixtures. The floor stand is mounted to the base of the fixture using the two Camlock quarter turn fasteners. Line up and engage the camlock connectors from the floor stand into the base of the fixture and turn the two fasteners 90° to lock them. Do the opposite to release them again. On both sides you'll find eyelets to pull though a fixing strap. This allows additional bracing of the floor-stand during the upright operation.

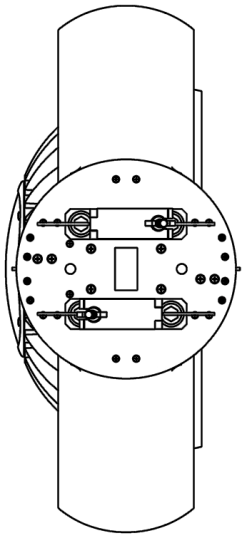


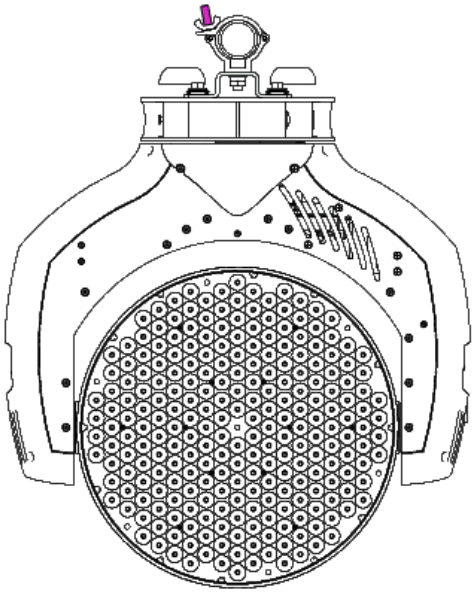



### *2.1.2 Mounting in hanging position (Head down)*

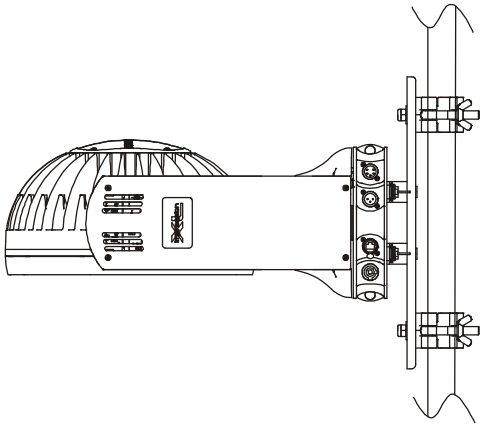
To operate the **IMPRESSION XL** in a hanging position, two omega brackets can be mounted directly to the bottom of the base using the four Camlock connectors.

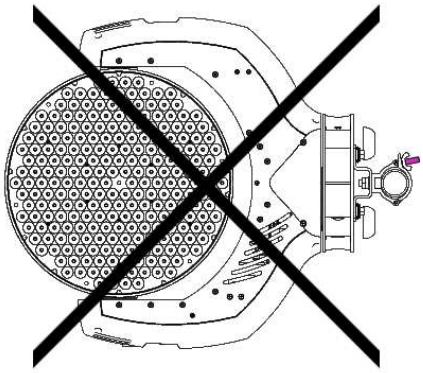




### *2.1.3 Mounting in sideway position*

To operate the **IMPRESSION XL** in a sideways position, please use an additional mounting bar, available from GLP or one of their agents.. This mounting bar is fixed via the four camlock quick-release connectors. Two half-couplers or clamps are then used to hang the mounting bar. This technique is necessary to cope with the additional torque in this mounting position. Never use the "Mounting in hanging position" technique described above to secure the fixture in a sideway position, as the fixtures base can become damaged, and a secure installation cannot be assured.





Without mounting bar

### *2.2 Securing the Device*

Regardless of the mounting method of the **IMPRESSION XL** you'll have to use a secondary safety wire. This safety wire can be attached to the fixture by threading it through one of the two holes provided on the base of the fixture. Ensure that the safety wire is securely fastened through the fixture and the fixtures mounting support. Install a safety wire that can hold at least 10 times the weight of the fixture

### *2.3 Connections*

#### *2.3.1 Power Supply*

~100-240 Volt AC, 50-60 Hz, earth contact type plug - Powercon

Connected load 1200 VA (W) <=> T15A (micro-fuse 6.3x32mm)

Please see printing on the case for the correct mains supply!

**Disconnect from the mains supply for changing the fuse and use only the above described micro-fuse type.**

#### *2.3.2 DMX*

USITT DMX-512 Standard input/output in 3 pole and 5 pole connectors.

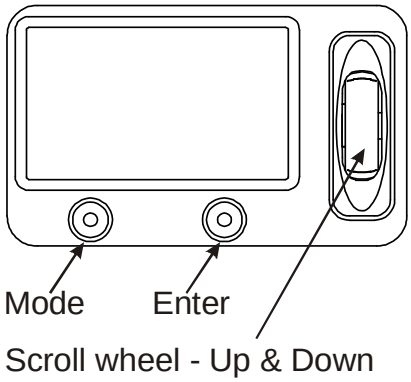
3 pole: Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+]

5 pole: Pin 1 = [Ground] / Pin 2 = [-] / Pin 3 = [+] / Pin 4/5 n.c.

The DMX- Addressing starts at the DMX- Address [001].

## 3 The Menu Field

You'll find the control board on the side of the arm. It allows you to make all necessary adjustments of the **IMPRESSION XL.** With the **Mode-**key you get into the main menu. Afterwards you can navigate through the menu with the **Up/Down-**keys. Push the **Enter-**key to get to the next menu level or to confirm your settings. Select **ON/ OFF** function settings with the **Up/Down-**keys. Confirm and save with the **Enter-**key (the display shows **OK**). Push the **Mode-**key to cancel the entry and go back to the main menu.




**← MODE - ENTER →**

**← DOWN - UP →**

| Level1 | Level 2 | Level 3 | Level 4 | Remark |
|---|---|---|---|---|
| **DMX Start Address** | | | | Define the DMX start address |
| **Special** | **Manual DMX** | | | Manual control of all system functions |
| | | **Pan** | | Manual control for Pan (X-movement) |
| | | **Speed Movements** | | Speed adjustment for Pan/Tilt movements → see also item below |
| | | **Pan/Tilt Movements** | | Manual control for Pan/Tilt movement |
| | | **Special** | | Activate the White- or Full-Power Mode; see also DMX table |
| | | **Dimmer** | | Manual control for dimmer |
| | | **Shutter** | | Manual control for shutter |
| | | **1/3 White** | | Manual control for 1/3 white, 30x LEDs (either warm- or cold white depending on the system) |
| | | **2/3 White** | | Manual control for 2/3 white, 60x LEDs (either warm- or cold white depending on the system) |
| | | **Tilt** | | Manual control for tilt (Y-movement) |
| | **Display Contrast** | | | Adjustment for the Display contrast |
| | **Default Set** | | | Resetting all functions to original values |
| | **Set Dimmer Frequency** | | | Changes PMW frequency between 600Hz and 1200Hz |
| | **Adjust** | **Key code xxxx** | | Use the code for entering the calibration menu (for authorized persons only) |
| | | **Pan Offset** | | Calibration for Pan-Offset |
| | | **Tilt Offset** | | Calibration for Tilt-Offset |
| | | **Clear EEPROM** | | Erase EEPROM memory |
| | | **Diagnose** | | Diagnose functions |
| | | | **Pos Feed Pan Delta** | Internal data and function diagnosis |
| | | | **Anz Ti0-Int-Err** | Internal data and function diagnosis |

| | | | |
|---|---|---|---|
| | | **Dimmerwert für DIM1** | Internal data and function diagnosis |
| | | **Dimmerwert für DIM2** | Internal data and function diagnosis |
| | | **Dimmerwert für DIM3** | Internal data and function diagnosis |
| | | **PFC Voltage** | Shows the present PFC voltage |
| | | **Pos Feed Tilt Delta** | Internal data and function diagnosis |
| | **Temperature Arm** | | Indicates the arm temperature |
| | **Temperature Head** | | Indicates the head temperature |
| | **PAN/TILT Motor Power** | | Switches power for Pan/Tilt ON or OFF (disconnected from power) |
| | **PAN/TILT Silent Mode** | | Reduces maximum speed for Pan/Tilt |
| | **DMX Hold** | | Defines whether the last DMX signal is stored or the lamp is switched OFF in case of signal interruption |
| | **Position Feedback** | | Automatically position feedback (correction) for Pan/Tilt movement |
| | **Set DMX Image** | | Stores the Scene currently sent to the unit |
| | **DMX input Monitor** | | Indicates the presently received DMX signal per DMX channel |
| | | **Pan** | Current value for Pan |
| | | **Speed Movements** | Speed adjustment for Pan/Tilt movements → see item below |
| | | **Pan/Tilt Movements** | Instantaneous value for Pan/Tilt movements |
| | | **Special** | Instantaneous value for Special |
| | | **Dimmer** | Instantaneous value for Dimmer |
| | | **Shutter** | Instantaneous value for Shutter |
| | | **1/3 White** | Instantaneous value for 1/3 White, 30x LEDs (either warm- or cold white depending on the system) |
| | | **2/3 White** | Instantaneous value for 2/3 White, 60x LEDs (either warm- or cold white depending on the system) |
| | | **Tilt** | Instantaneous value for Tilt movement |
| **Self Test** | | | Performs an automatic self-test |
| **Live time** | | | Indicates the overall operation time of the system |
| **Display** | | | Adjust the display |
| | **Blackout** | | ON/OFF: Display OFF |
| **Select DMX Mode** | | | Please select the desired DMX Mode |
| | **Compressed** | | Fixture works in "Compressed" mode → see also sectiion 4 |
| | **Normal** | | Fixture works in "Normal" mode → see also section 4 |
| | **High-Resolution** | | Fixture works in "High Resolution" mode → see also section 4 |
| **Reverse Pan** | | | Selects Inverse Pan, on or off |

**↓ DOWN - UP →**

| | |
|---|---|
| **Reverse Tilt** | SelectsInverse Tilt on or off |
| **Reset** | RESET all functions |

# 4 DMX Channel Selection (DMX Protocol)

## Normal-Mode 11 DMX channels

| Channel | Function | | | Time and Value | DMX | HEX | % |
|---|---|---|---|---|---|---|---|
| **1) PAN-coarse** | 0 .. 660° | | | min. 3,2 sec. | 0..255 | 00..FF | 0..100 |
| **2) PAN-fine** | High- Pos ... High- Pos + 2,6°(16 Bit) | | | | 0..255 | 00. .FF | 0..100 |
| **3) Tilt-coarse** | 0 .. 300° | | | min. 1,5 sec. | 0..255 | 00..FF | 0..100 |
| **4) Tilt-fine** | High- Pos … High- Pos + 1,2°(16 Bit) | | | | 0..255 | 00..F F | 0..100 |
| **5) White 2/3** | White Color, 156x LEDs (either warm- or cold white depending on the system) | | | 0 - 100% | 0..255 | 00..FF | 0..100 |
| **6) White 1/3** | White Color, 84x LEDs (either warm- or cold white depending on the system) | | | 0 - 100% | 0..255 | 00..FF | 0..100 |
| **7) Shutter** | Shutter closed | | | | 0..15 | 00..0F | 0..5,5 |
| | Random Pulse effect | | | slow - fast | 16..47 | 10..2F | 6..18,5 |
| | Up-dimming then Shutter closing (random patterns) | | | slow - fast | 48..79 | 30..4F | 19..31 |
| | Shutter open then down-dimming (random patterns) | | | slow - fast | 80..111 | 50..6F | 32..43 |
| | Up-dimming then down-dimming (random patterns) | | | slow - fast | 112..143 | 70..8F | 44..56 |
| | Strobe effect, stop break | | | 5 sec. - 1 sec. | 144..199 | A0..C7 | 57..77 |
| | Strobe effect, slow - fast | | | 1 Hz .. 10 Hz | 200..239 | C8..EF | 78..94 |
| | Shutter open | | | | 240..255 | F0..FF | 95..100 |
| **8) Dimmer** | Dimmer | | | 0 - 100% | 0..255 | 0..FF | 0..100 |
| **9) Special** | Fan min. as long as temp. < 90℃ | | | | 224..249 | E0..E5 | 88..89,5 |
| | **RESET (Normal Mode)** | | | | **250..255** | **FA..FF** | **98..100** |
| **10) Move-ment** | **No Movement** | | | | 0 | 00 | 0 |
| | **Movement** | **Size** | **Phase** | | | | |
| | PAN | 1 | 0° | | 01..01 | 01..01 | 0,5 |
| | | 1 | 90° | | 02..03 | 02..03 | 1,0 |
| | | 1 | 180° | | 04..05 | 04..05 | 1,7 |
| | | 1 | 270° | | 06..07 | 06..07 | 2,5 |
| | PAN | 2 | 0° | | 08..09 | 08..09 | 3,3 |
| | | 2 | 90° | | 10..11 | 0A..0B | 4,1 |
| | | 2 | 180° | | 12..13 | 0C..0D | 4,9 |
| | | 2 | 270° | | 14..15 | 0E..0F | 5,7 |
| | PAN | 3 | 0° | | 16..17 | 11..11 | 6,5 |
| | | 3 | 90° | | 18..19 | 12..13 | 7,3 |
| | | 3 | 180° | | 20..21 | 14..15 | 8,0 |
| | | 3 | 270° | | 22..23 | 16..17 | 8,8 |
| | PAN | 4 | 0° | | 24..25 | 18..19 | 9,6 |
| | | 4 | 90° | | 26..27 | 1A..1B | 10,4 |
| | | 4 | 180° | | 28..29 | 1C..1D | 11,2 |
| | | 4 | 270° | | 30..31 | 1E..1F | 12 |
| | TILT | | size / phase see also PAN | | 32..63 | 20..3F | 13..25 |
| | PAN / TILT | | size / phase see also PAN | | 64..95 | 40..5F | 26..37 |

| Channel | Function | | Time and Value | DMX | HEX | % |
|---|---|---|---|---|---|---|
| | PAN / TILT (inverse) | size / phase see also PAN | | 96..127 | 60..7F | 38..50 |
| | Circle | size / phase see also PAN | | 128..159 | 80..9F | 51..62 |
| | Circle (inverse) | size / phase see also PAN | | 160..191 | A0..BF | 63..75 |
| | Lying eight | size / phase see also PAN | | 192..223 | C0..DF | 76..87 |
| | Random movement | size see also PAN | | 224..255 | E0..FF | 88..100 |
| **11) Speed Pan/Tilt** | Pan/Tilt relative movement | | | 0..1 | 00..01 | 0..0,5 |
| | Pan/Tilt slow – fast<br>Use this channel also for the SPEED of the movements | | Pan Min. 660° = 200s<br>Pan Max. 660°<br>Tilt Min. 300° = 110s<br>Tilt Max. 300° | 2..255 | 02..FF | 1..100 |

## Compress-Mode 8 DMX channels

| Channel | Function | Time and Value | DMX | HEX | % |
|---|---|---|---|---|---|
| **1) PAN-coarse** | 0 .. 660° | min. 3,2 s | 0..255 | 00..FF | 0..100 |
| **2) PAN-fine** | High- Pos ... High- Pos + 2,6°(16 Bit) | | 0..255 | 00. .FF | 0..100 |
| **3) Tilt-coarse** | 0 .. 300° | min. 1,5 s | 0..255 | 00..FF | 0..100 |
| **4) Tilt-fine** | High- Pos … High- Pos + 1,2°(16 Bit) | | 0..255 | 00..F F | 0..100 |
| **5) White 2/3** | White Color, 156x LEDs (either warm- or cold white depending on the system) | 0 - 100% | 0..255 | 00..FF | 0..100 |
| **6) White 1/3** | White Color, 84x LEDs (either warm- or cold white depending on the system) | 0 - 100% | 0..255 | 00..FF | 0..100 |
| **7) Shutter** | Shutter closed | | 0..15 | 00..0F | 0..5,5 |
| | Random Pulse effect | slow - fast | 16..47 | 10..2F | 6..18,5 |
| | Up-dimming then Shutter closing (random patterns) | slow - fast | 48..79 | 30..4F | 19..31,5 |
| | Shutter open then down-dimming (random patterns) | slow - fast | 80..111 | 50..6F | 32..43 |
| | Up-dimming then down-dimming (random patterns) | slow - fast | 112..143 | 70..8F | 44..56 |
| | Strobe effect, stop break | 5 sec. - 1 sec. | 144..199 | A0..C7 | 57..77 |
| | Strobe effect, slow - fast | 1 Hz .. 10 Hz | 200..239 | C8..EF | 78..94 |
| | Shutter open | | 240..249 | F0..F9 | 95..97,5 |
| | **RESET** | **Min. 3 Sec.** | **250** | **FA** | **98** |
| | Shutter open | | 251..255 | FB..FF | 99..100 |
| **8) Dimmer** | Dimmer | 0 - 100% | 0..255 | 0..FF | 0..100 |

## High Resolution (Extended) -Mode 11 DMX channels

| Channel | Function | Time and Value | DMX | HEX | % |
|---|---|---|---|---|---|
| **1) PAN-coarse** | 0 .. 660° | min. 3,2 s | 0..255 | 00..FF | 0..100 |
| **2) PAN-fine** | High- Pos ... High- Pos + 2,6°(16 Bit) | | 0..255 | 00. .FF | 0..100 |
| **3) Tilt-coarse** | 0 .. 300° | min. 1,5 s | 0..255 | 00..FF | 0..100 |
| **4) Tilt-fine** | High- Pos … High- Pos + 1,2°(16 Bit) | | 0..255 | 00..F F | 0..100 |

| Channel | Function | Time and Value | DMX | HEX | % |
|---|---|---|---|---|---|
| **5) White 2/3 coarse** | White Color, 156x LEDs (either warm- or cold white depending on the system) | 0 - 100% | 0..255 | 00..FF | 0..100 |
| **6) White 2/3 fine** | White - fine/low | | 0..255 | 00..FF | 0..100 |
| **7) White 1/3 coarse** | White Color, 84x LEDs (either warm- or cold white depending on the system) | 0 - 100% | 0..255 | 00..FF | 0..100 |
| **8) White 1/3 fine** | White - fine/low | | 0..255 | 00..FF | 0..100 |
| **9) Shutter** | Shutter closed | | 0..15 | 00..0F | 0..5,5 |
| | Random Pulse effect | slow - fast | 16..47 | 10..2F | 6..18,5 |
| | Up-dimming then Shutter closing (random patterns) | slow - fast | 48..79 | 30..4F | 19..31,5 |
| | Shutter open then down-dimming (random patterns) | slow - fast | 80..111 | 50..6F | 32..43 |
| | Up-dimming then down-dimming (random patterns) | slow - fast | 112..143 | 70..8F | 44..56 |
| | Strobe effect, stop break | 5 sec. - 1 sec. | 144..199 | A0..C7 | 57..77 |
| | Strobe effect, slow - fast | 1 Hz .. 10 Hz | 200..239 | C8..EF | 78..94 |
| | **RESET** | **Min. 3 Sec.** | **250** | **FA** | **98** |
| | Shutter closed | | 0..15 | 00..0F | 0..5,5 |
| | Shutter open | | 251..255 | FB..FF | 99..100 |
| **10) Dimmer- coarse** | Dimmer - High | 0 - 100% | 0..255 | 0..FF | 0..100 |
| **11) Dimmer- fine** | Dimmer - Low | | 0..255 | 0..FF | 0..100 |

**Locking and unlocking the Control Panel**

You can lock and unlock the control panel by pressing the menu keys **MODE & ENTER & UP** at the same time.

**Additional shortcut features when switching on the fixture**

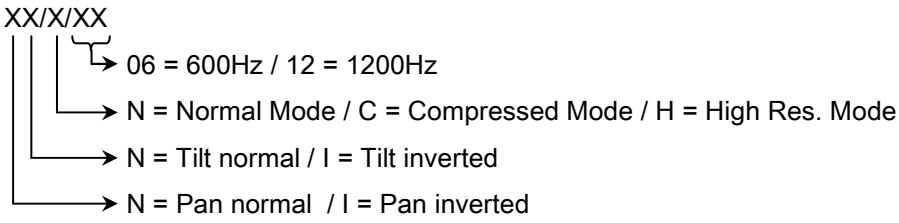
a) 1200Hz Mode (Hold down the **UP- button** during power ON)
After switching on, the fixture the LEDs will be operated with a Pulse Width Modulation (PWM) of 1200Hz.
In addition, all standard settings will be loaded (DMX start address [001], Normal Mode).

b) 600Hz Mode (Hold down the **DOWN- button** during power ON)
After switching on, the fixture the LEDs will be operated with a Pulse Width Modulation (PWM) of 600Hz.
In addition, all standard settings will be loaded (DMX start address [001], Normal Mode).

c) Standard Mode (Hold down the **ENTER- button** during power ON)
After switching on the fixture, the DMX start address will be set to [001]. All other settings will remain unchanged.

**Additional Display Indications**

As a default you'll find the following additional information in the first row of the LCD display:




# 5 Maintaining and Cleaning the IMPRESSION XL

The **IMPRESSION XL** is a low maintenance fixture. It is only necessary to clean the air inlets and outlets as well as the optical LED lenses from time to time. For safe operation it is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on, or within, the fixture. If they do, the fixture's light output will be significantly reduced, and damages to the fixture may occur. Regular cleaning will not only ensure the maximum light output, but will also allow the fixture to operate reliably throughout its entire life.

**A soft lint-free cloth moistened with any good glass cleaning fluid is recommended. Under no circumstances should alcohol or solvents be used to clean the fixture or its lenses!**

## *5.1 Safety regulations*

- **Disconnect the fixture from the mains power before commencing any maintenance work!**
- Wait minimum 15 minutes after removing the power to allow the fixture to cool down.

## *5.2 Maintenance Intervals (rule-of-thumb)*

The maintenance schedule of any given fixture depends on the installation environment. Hence no specific guidelines can be given. The cleaning intervals given below are suggestions, based on practical experience. We suggest that you start with these and develop your own maintenance schedule as you see the fixtures performance in your specific environment.

| Maintenance Task | Interval | How |
|---|---|---|
| Cleaning of LED lenses and optical system | weekly | soft brush /lint-free cloth |
| Cleaning of fans and air channels | monthly | vacuum cleaner, airbrush, etc. |

**Attention:**

- **Never let optical parts come into contact with oil or fat.**
- **Before running the fixture wait until all parts are touch dry.**
- **Never touch lenses with bare fingers.**

# 6 Technical Specifications

| | |
|---|---|
| **Power supply** | |
| **Power consumption** | 1200 VA (Watt) |
| **Power Input** | ~100-240 V AC, 50-60 Hz (auto sensing input) |
| **Fuse protection** | Micro-fuse 6.3x32 mm, T15A |
| **Operational Parameters** | |
| **Max. Ambient Temperature** | 45℃ / 113℉ (integrated overheating switch) |
| **Mounting Position** | Any (see chapter mounting) |
| **Lighting System - Additive Color mixing (8/16 Bit)** | |
| **LED Type** | 240x Luxeon K2 High-power- LEDs |
| **Lifetime** | 50.000 h |
| → **CCW version:** 156x LEDs cold white, 84x LEDs warm white<br>→ **WWC version:** 84x LEDs cold white, 156x LEDs warm white | |
| **Optical System** | |
| High efficient Collimator cluster | |
| Exchangeable optical carrier with 10° light distrib ution angle (25° optional) | |
| Scattering light aperture | |
| **Shutter / Dimmer (8/16 Bit)** | |
| Strobe- Effect with variable speed between 1 - 10 flashes per second, Random-Strobe, Pulse-Effects | |
| Continuous Dimmer 0 - 100% | |
| **DMX Control** | |
| Standard USITT DMX-512, 3/5 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1.<br>DMX- Addressing starts at the DMX channel [001]. | |
| **Pan / Tilt (8/16 Bit)** | |
| **Pan- movement** | **660° (Position Feedback)** |
| **Tilt- movement** | **300° (Position Feedback)** |
| **Weights and Measures** | |
| **Width of the base** | **521 mm** |
| **Length of the base** | **217 mm** |
| **Height (head vertical)** | **550 mm** |
| **Fixture weight (net)** | **23,5 kg** |
| **Floor Mount weight (net)** | **2 kg** |

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