# Instruction Manual

## PROFESSIONAL SHOW LIGHT

### LED Smart Par1941

*Unpacking:* Thank you for purchasing the LED light. Every fixture has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact the manufacturer or your dealer for further instructions. Do not return this unit to your dealer without first contacting.

**FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE POWERING OR INSTALLING VELLO SMART PAR1941 WASH. SAVE IT FOR FUTURE REFERENCE.**

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**Warning!** To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

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**PLEASE** consider that damages caused by manual modifications to the device are not subject to warranty.

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**Caution!** There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact the manufacturer or your dealer.

**PLEASE recycle the shipping carton when ever possible.**

**General Instructions:** To optimize the performance of this product, please read these operating instructions carefully to familiarize you with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit.

### Features

- Multi-Colors
- Color Strobe
- Electronic Dimming 0-100%
- DMX-512 protocol
- Master/Slave synchronization
- LED operation menu with function buttons
- Daisy Chain Units Together in DMX Mode

### Safety Precautions

- To reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only; use of this product outdoors voids all warranties.

- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See "Cleaning" for details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
  A. The power-supply cord or the plug has been damaged.
  B. Objects have fallen, or liquid has been spilled into the appliance.
  C. The appliance has been exposed to rain or water.
  D. The appliance does not appear to operate normally or exhibits a marked change in performance.

## Set Up:

**Power Supply:** Before plugging your unit in, be sure the source voltage in your area matches the required voltage for the fixture, The model is Auto power supply, It is workable in 90-250V/50~60Hz. Please make sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture.

### Connection to the mains
For protection from electric shock, the fixture must be earthed!
Install a suitable plug on the power cord, note that the cores in the power cord are colored according to the following table. The earth has to be connected!
If you have any doubts about proper installation, consult a qualified electrician.

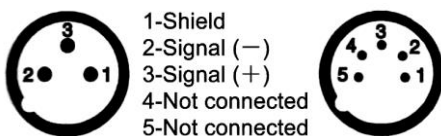| Core **(EU)** | Core (US) | Connection | Plug Terminal Marking |
|---|---|---|---|
| Brown | Black | Live | L |
| Light blue | White | Neutral | N |
| Yellow/Green | Green | Earth | ⏚ |

### DMX512 connection
The fixture is equipped with both 3-pin or 5-pin XLR sockets for DMX input and output. The sockets are wired in parallel.
Only use a shielded twisted-pair cable designed for RS-485 and 3-pin or 5-pin XLR-plugs and connectors in order to connect the controller with the fixture or one fixture with another.
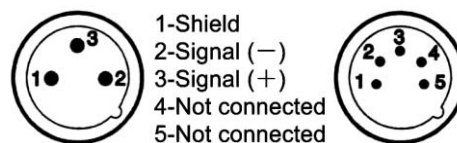
DMX-output
XLR mounting-sockets (rear view):

DMX-input
XLR mounting-plugs (rear view):



1-Shield
2-Signal (−)
3-Signal (+)
4-Not connected
5-Not connected

1-Shield
2-Signal (−)
3-Signal (+)
4-Not connected
5-Not connected

**DMX Linking:** To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence

the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

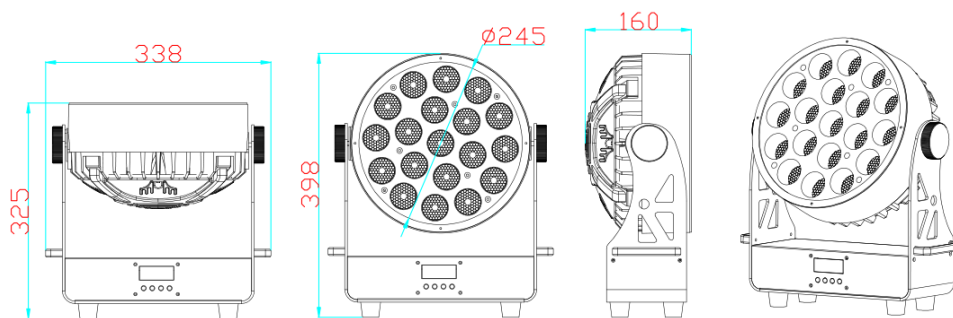**Building a serial DMX-chain:**
Connect the DMX-output of the first fixture in the DMX-chain with the DMX-input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected.
Caution: At the last fixture, the DMX-cable has to be terminated with a terminator. Solder a 120Ω resistor between Signal (－) and Signal (＋) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.

**Operating Modes:** You can use the LED light Wash in 4 ways:

- Auto Mode - The unit automatically chase through the different colors and built-in programs.
- Slave Mode – The unit is available work by slave mode.
- DMX control mode - This function allows you to control each individual fixtures traits with a standard DMX 512 controller.

- Sound control-This function allows you activate fixtures by sound.
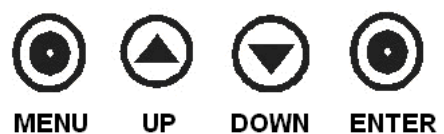
## Chart Size(mm)



**DMX Mode:** Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights.

1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
2. The LED uses 8/16 DMX channels (RGBW version) to operate. Please see "DMX Values and Functions" for the DMX traits.
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. Set your desired DMX address following the setup specifications that come with your DMX controller.

**Touch Buttons:**   There are four buttons under the LCD display below:
There are four touch buttons under the LED display: Menu, Up, Down, Enter. Normally, the LED will display the current DMX address code of the fixture. At this time, presses up and down to choose the functions you want.



**LED Operation Menu:** LED screen with four touch buttons**: MENU, UP, DOWN and ENTER.**

**Manu details below:**

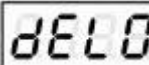| Main Menu | Value | Functions |
|---|---|---|
| `8001` | 001-512 | DMX address setting |
| `CH16` | / | 8/16 channels mode selection |
| `CC70` | 00-99 | Color selective |
| `r000` | 000-255 | Red intensity |
| `G000` | 000-255 | Green intensity |
| `b000` | 000-255 | Blue intensity |
| `E000` | 000-255 | White intensity |
| `Soun` | / | Sound |
| `dEL0` | `dEL0` | Dimmer curve 1 |
| | `dEL1` | Dimmer curve 2 |
| | `dEL2` | Dimmer curve 3 |

**DMX CHANNEL MODE:**

| Reduced Mode | Standard Mode | Value | Function |
|---|---|---|---|
| 1 | 1 | 000-255 | Master dimmer |
| 2 | 2 | 000-010 | Off |
| | | 011-110 | Strobe    fast-slow |
| | | 111-115 | Open |
| | | 116-165 | Pulse strobe1    slow-fast |
| | | 166-170 | Open |
| | | 171-220 | Pulse strobe 2    slow-fast |
| | | 221-230 | Open |
| | | 231-245 | Random strobe |
| | | 246-266 | Open |
| 3 | 3 | | **<Color Macro >** |
| | | 207-255 | Alice Blue |
| | | 191-206 | Congo Blue |
| | | 184-190 | Dark Steel Blue |
| | | 180-183 | Deep lavender |
| | | 179 | Lilac Tint |
| | | 175-178 | Daylight Blue |
| | | 174 | Flame Red |

| | | | |
|---|---|---|---|
| | | 172-173 | Bastard Amber |
| | | 168-171 | Deep Orange |
| | | 162-167 | Pale Gold |
| | | 157-161 | Apricot |
| | | 151-156 | Bright Blue |
| | | 149-150 | Primary Green |
| | | 147-148 | Special lavender |
| | | 146 | Pale Lavender |
| | | 145 | Deep Golden Amber |
| | | 142-144 | Medium Blue |
| | | 138-141 | Bright Pink |
| | | 137 | Mauve |
| | | 134-135 | Dark Green |
| | | 131-133 | Leaf Green |
| | | 129-130 | Dark Blue |
| | | 128 | Light Blue |
| | | 127 | Steel Blue |
| | | 126 | Med Blue Green |
| | | 125 | Peacock Blue |
| | | 123-124 | Magenta |
| | | 121-122 | Dark Pink |
| | | 120 | Middle Rose |
| | | 119 | Light Salmon |
| | | 118 | English Rose |
| | | 117 | Light Rose |
| | | 115-116 | Orange |
| | | 114 | Deep Amber |
| | | 113 | Straw |
| | | 112 | Light Amber |
| | | 110-111 | Spring Yellow |
| | | 100-109 | Dark yellow green |
| | | 089-099 | Just Blue |
| | | 078-088 | Sky Blue |
| | | 068-077 | Lavender |
| | | 062-067 | Light Lavender |
| | | 049-061 | Pink Carnation |
| | | 046-048 | Medium Pink |
| | | 045 | Light Pink |
| | | 035-044 | Sunrise Red |
| | | 032-034 | Dark Amber |
| | | 031 | Gold Amber |
| | | 030 | Medium Amber |
| | | 029 | Fire |
| | | 027-028 | Surprise Peach |
| | | 023-026 | Straw Tint |
| | | 020-022 | Medium Yellow |
| | | 019 | Black |

| | | 018 | White 5000°K |
|---|---|---|---|
| | | 017 | White 3700°K |
| | | 016 | White 7000°K |
| | | 015 | Magenta |
| | | 014 | Yellow |
| | | 013 | Cyan |
| | | 012 | Blue |
| | | 011 | Green |
| | | 010 | Red |
| | | 000-009 | No function |
| 4 | 4 | 000-255 | Auto |
| 5 | 5 | 000-255 | Red color intensity |
| 6 | 6 | 000-255 | Green color intensity |
| 7 | 7 | 000-255 | Blue color intensity |
| 8 | 8 | 000-255 | White color intensity |
| * | 9 | 000-255 | LED 1 Red color intensity |
| * | 10 | 000-255 | LED 1 Green color intensity |
| * | 11 | 000-255 | LED 1 Blue color intensity |
| * | 12 | 000-255 | LED 1 White color intensity |
| * | 13 | 000-255 | LED 2 Red color intensity |
| * | 14 | 000-255 | LED 2 Green color intensity |
| * | 15 | 000-255 | LED 2 Blue color intensity |
| * | 16 | 000-255 | LED 2 White color intensity |

## Rigging the fixture

**Caution**: Fixture may cause severe injuries when crashing down! If you have doubts concerning the safety of a possible installation, do not install the moving head!

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

When installing the device, make sure there is no highly inflammable material (decoration articles, etc.) in a distance of min. 1.0 m.
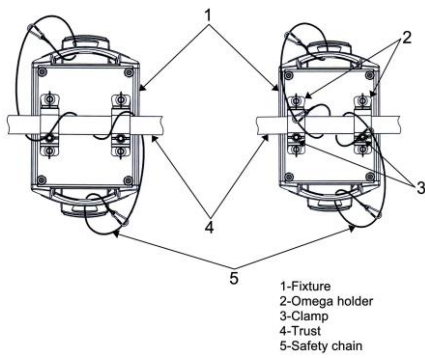
**CAUTION!**

Use an appropriate clamp to ring the fixture on the truss.

Follow the instructions mentioned at the bottom of the base.

Make sure that the device is fixed properly! Ensure that the structure (truss) to which you are attaching the fixtures is secure.

Securing the fixture via one safety wire        Securing the fixture via two safety wires

1-Fixture
2-Omega holder
3-Clamp
4-Trust
5-Safety chain

## Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

> **TROUBLE SHOOTING:** *Listed below are a few common problems the user may encounter, with solutions.*

# Parameter Description

Power:300W
Voltage:110-250V/50-60Hz
Workign position:Any safe working position
Lamp:High power 9090 LED 4in1(RGBW,15W)*19pcs
Beam angle: 8/25
LED display,
8/16DMX channels
9pcs LEDs and 10pcs LEDs two zones control
Protection Rating:IP20
Control mode: Master/Slave synchronization,Stand-alone
　　　　　　DMX512 control and Music Control
Fixture dimension:338*160*398mm
N.W: 7.2kgs
G.W: 9.5kgs

*Note: All information is subject to change without prior notice.*