



magicpanel⁶⁰²

USER MANUAL V.3.2

ENGLISH VERSION
12 16 2014



AYRTON
Digital Lighting

SUMMARY

- 4 Introduction
- 4 Safety instructions
- 4 Conditions of use
- 5 Presentation and features
- 6 Dimensions
- 6 Description
- 7 Installation instructions
- 7 Installation method using truss hooks
- 7 DMX512 connection
- 8 Instructions for using the wireless internal DMX system
- 9 Control Panel (Menu options)
- 10 MagicPanel 602 control panel menu - Option details
- 13 Master/Slave mode settings
- 14 Led mapping
- 15 DMX Chart
- 16 Care and maintenance
- 17 Technical Specifications
- 18 Warranty

INTRODUCTION

Thank you for selecting the AYRTON MAGICPANEL 602 luminaire.

WARNING !

This product is not suitable for household use.

You now own a professional lighting unit that offers endless possibilities. Before installing, make sure that no damage was done to your luminaire during transport. If this is the case, do not use the product and immediately contact your authorized AYRTON dealer.

For your own safety and that of others, please read this instruction manual carefully before installing this unit.

Anyone involved in installing, operating or servicing the 602 MAGICPANEL must:

- Be a qualified, authorized professional.
- Strictly follow the instructions in this user manual.

Please take the time to read this manual carefully and thoroughly before installing and operating the luminaire. You should have a good knowledge of its operating conditions and all pertinent product information.

After you have become familiar with this manual, we recommend that you keep a copy for future use.

All the information found in this manual is subject to change without notice. AYRTON reserves the right to modify and upgrade its range of products, with no obligation to integrate these changes into products already sold.

SAFETY INSTRUCTIONS

Please read the safety instructions and warnings in this manual carefully before installing and operating the MAGICPANEL 602.

WARNING!

Risk of electric shock.

Use caution when handling. This luminaire requires high voltage, which can result in electric shock.

The MAGICPANEL 602 left our factory in perfect working condition. However, if you notice a defect, immediately contact your authorized AYRTON dealer before use. The manufacturer cannot be held responsible for damages caused by a failure to follow the safety, installation or assembly instructions contained herein, or by any modification made to the luminaire.

Failure to observe the safety, installation or assembly instructions contained herein, or any modification made to the MAGICPANEL 602 luminaire will render the warranty null and void.

Check that the supply voltage does not exceed the maximum authorized limit.

Check that your electrical installation complies with current standards.

In all cases, make sure that the power cables attached to your MAGICPANEL

602 have not been damaged due to cuts and splices or crushed in any way. Handle these cables with extreme caution while they are connected to a power source.

Your MAGICPANEL 602 conforms to Class 1 safety standards. The unit must be grounded electrically.

Make sure that the power source connected to your MAGICPANEL 602 is switched off before attempting any work on it.

Installation and connection to an electrical source must be performed by an authorized installer. AYRTON declines all responsibility should this luminaire be installed by an unqualified person.

Never disconnect your MAGICPANEL 602 by pulling on the power cable! First unlock the connector lock ring on the power cable until it is fully disengaged, and then gently pull on the connector to disconnect the cable.

Do not connect or disconnect the power cable of your MAGICPANEL 602 with wet hands.

At first use, your MAGICPANEL 602 may give off an odor. This is a normal occurrence that should dissipate after a few minutes of operation.

WARNING!

Do not connect or disconnect the power cable at your MAGICPANEL 602 if the cable is energized! This could cause arcing and damage your MAGICPANEL 602, requiring repair.

Be careful to power off your MAGICPANEL 602 by removing the power plug from the source, before connecting or disconnecting the luminaire.

WARNING!

This unit contains Class 2 LED emitters (EN60625-1): 1994)

This luminaire uses multiple high-power (Class 2) LED-type (Light Emitting Diode) lamps. Never look directly into the lamps if lit or stand directly in line with the luminaire if close by.

Installation, removal or replacement of the unit must be performed with power off to prevent any risk of glare and eye injury.

WARNING!

The fixture quickly becomes very hot during operation.

To avoid risk of burn, never handle or adjust the luminaire while it is energized and after it has been lit for more than 10 consecutive minutes. Some parts of the luminaire can reach a high temperature, particularly the body/radiator. Turn off the luminaire and wait for it to cool before handling.

CONDITIONS OF USE

Your MAGICPANEL 602 is a moving-head luminaire equipped with multiple LEDs intended for professional use (e.g., architectural, stage, television, theater, or museum lighting).

The MAGICPANEL 602 luminaire has an IP20 protection rating. It is intended strictly for indoor use. It must never be partially or fully submerged, even temporarily.

Condensation may form on your MAGICPANEL 602 in the following cases:

- Immediately after turning on the heating.
- In places with fog or a high level of humidity.
- When the luminaire is suddenly moved from a cold to a warm environment, or vice versa.

In such cases, you must wait until the luminaire readjusts to the ambient temperature of the room where it will be installed for operation.

Do not shake the MAGICPANEL 602 while installing or handling.

Do not pull the MAGICPANEL 602 by one of its cables to move it. Lift the luminaire by its handles.

Choosing the appropriate place to install the MAGICPANEL 602 is essential. The following points should be observed:

- Do not expose it to a heat source.
- Do not install it near flammable materials.
- Be sure that dust or miscellaneous debris cannot clump around the body of the luminaire as this may interfere with its optimal cooling and proper operation.

The MAGICPANEL 602 must be installed out of reach of the public and all persons not authorized to operate the luminaire.

We recommend a minimum distance of 20 cm between the outside surface of the light and the illuminated object. The color mixture of the MAGICPANEL 602 can be improved if the illuminated surface is very close to the luminaire (up to about 50 cm).

Due to the nature of its cooling principle, you should never prevent air from circulating around the body of the luminaire. You must provide a minimum clearance of 20 cm around your 602 to allow for cooling.

The MAGICPANEL 602 can be installed in a ground pit or any other confined enclosure only under certain conditions. With this kind of installation, a system of forced ventilation should be used up to allow air to circulate freely around the luminaire(s). The air must be constantly renewed because the luminaire cannot be operated in closed system. Failure to comply with these requirements may destroy or prematurely wear the MAGICPANEL 602, and AYRTON cannot be held responsible. Please consult your AYRTON dealer for more information on this type of installation.

No load should be placed on the MAGICPANEL 602. The fixture must not be installed in such a way as to allow a person, vehicle or any object to run over or park on it.

Never lay or drop any hard, heavy, or blunt, objects on the MAGICPANEL 602. This includes items made of glass or porcelain (e.g., bottles, dishware, or glass beads). The luminaire is made of materials such as plastic and extruded aluminum, making it resistant but not unbreakable. Objects made of hard materials such as steel or glass that fall on the unit may cause breakage of the plastic parts or the body. AYRTON cannot be held responsible for the luminaire's broken plastic parts or body, not covered under warranty.

The temperature of the room where the MAGICPANEL 602 is installed must never exceed 45 °C (Ta = 45 °C).

The MAGICPANEL 602 luminaire requires a 110-240 VAC supply voltage. Check that your luminaires have been installed for an application that is compatible with this information.

Check that the bracket on which you hang or attach your MAGICPANEL 602 can sustain the weight of the luminaire (20 kg), taking into consideration all necessary safety factors.

Do not use your MAGICPANEL 602 before being familiar with these recommendations and do not allow unqualified personnel to handle the product.

To transport your MAGICPANEL 602, we strongly recommend that you use the complete original packaging, including the polyfoam inserts.

If your 602 MAGICPANEL is not being used for a long period, you should disconnect the luminaire from the power source.

Never dispose of the MAGICPANEL 602 in a rubbish bin. Ensure that it is recycled. Please consult the current legislation in your country on recycling electronic equipment.

WARNING!

The number of daisy chain, or tandem, connections to the MAGICBLADE-R (power input and output sockets on the luminaires) is limited for safety reasons. The maximum authorized number of connections is as follows, with the power line protected by a 10A circuit breaker:
**5 MAGICPANEL 602 on the same source at 230 VAC or
 2 MAGICPANEL 602 on the same source at 110 VAC.**

PRESENTATION AND FEATURES

MAGICPANEL 602 is a continuous-rotation moving head wash light (IP20 protection rating) using the latest generation of high-performance of LED-type lamps.

This luminaire incorporates multi-chip LEDs using 4 colors: Red, green, blue and white. This color-light luminaire operates on the CMY additive color principle and along with white light can potentially render a palette of 4.2 billion colors.

The MAGICPANEL 602 has a total of 36 15-Watt LEDs that can be controlled independently. The luminaire requires from 18 to 160 DMX channels to be controlled remotely via an external command system that sends a DMX512 signal (see below for details).

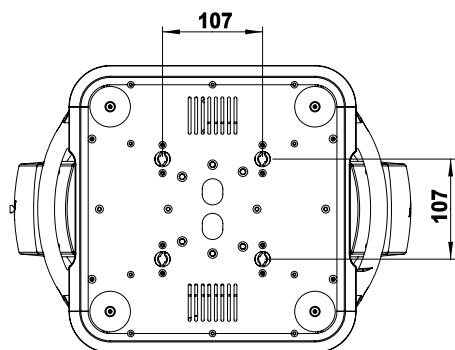
To adjust the settings on the MagicPanel 602 (i.e., DMX address, DMX operating mode and other options), an RDM (Remote Device Management) -type DMX controller may be required. The DMX RDM protocol is a universal, widely used standard.

There are a multitude of RDM DMX controllers on the market from different manufacturers (excluding AYRTON). It is worth noting that an RDM DMX controller is not required to change the settings on the MagicPanel 602. A light console or any standard DMX-type controller is sufficient.

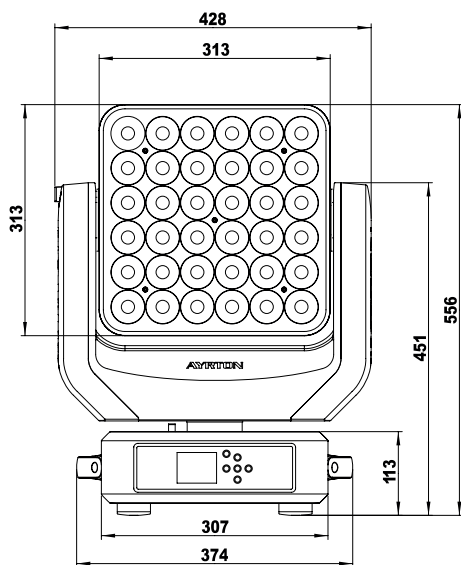
The MagicPanel 602 consists of a metal frame and plastic covers. The luminaire is non-waterproof. The power connectors and DMX512 signal connectors are on the back of the fixture's base.

DIMENSIONS

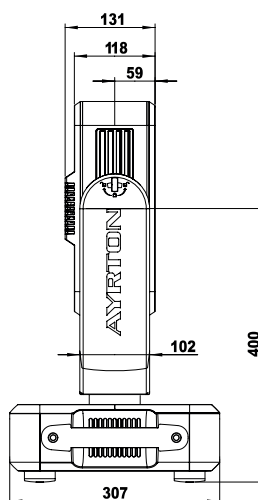
Bottom view



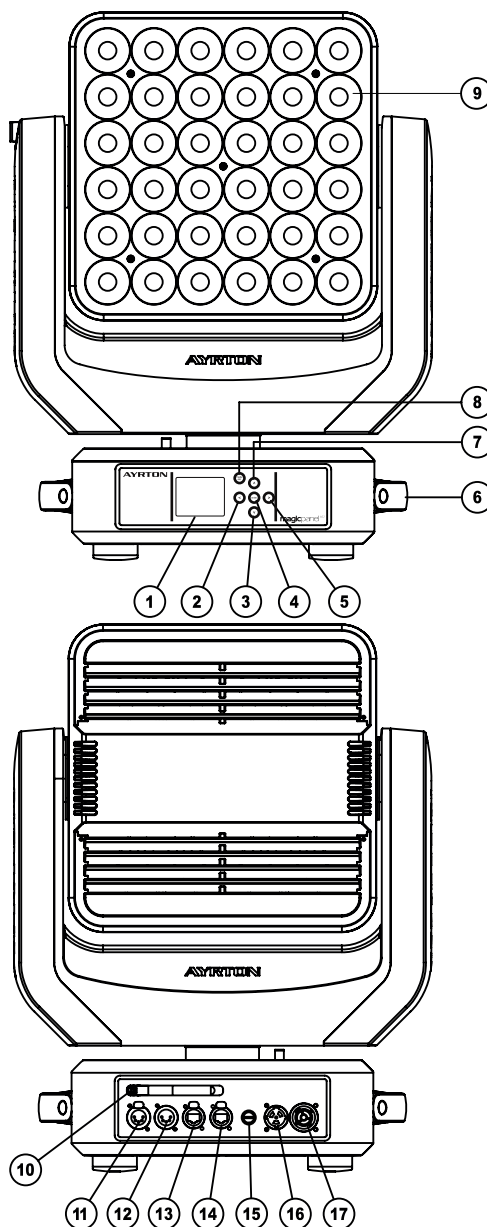
Front view



Side view



DESCRIPTION



1. LCD display
2. Left button
3. Down button
4. Enter button
5. Right button
6. Handle
7. Up button
8. MODE/ESC button
9. Collimators
10. Antenna - Wireless DMX
11. DMX512 output connector (5-pin)
12. DMX512 input connector (5-pin)
13. RJ45 output connector
14. RJ45 input connector
15. Fuse holder
16. Power source input connector
17. Power source output connector

INSTALLATION INSTRUCTIONS

During installation please observe the instructions according to GB7000.15 / EN60598-2-17 standards and other national standards applicable.

This luminaire should be installed by a qualified technician.

The fixture should be used in an environment with a temperature between -5 °C and +45 °C. Do not operate the luminaire outside this temperature range.

The luminaire must be hung so that the weight of this unit multiplied by 10 can be sustained for 1 hour without causing the suspension system or the supporting structure to be deformed.

The installation must always be secured at a second attach point, e.g., by a safety cable of the appropriate size.

Do not stand under the luminaire while it is being installed, dismantled or serviced.

The operator must ensure that a qualified technician has approved the installation of the luminaire for safety before it is first operated.

Installation should be inspected once a year by a qualified technician.

WARNING!

The installation of this luminaire must be validated by a qualified technician before it is used for the first time.

The luminaire should be installed in a location where the public cannot, touch, walk or sit on the luminaire.

Suspending the luminaire and/or installing it high up requires considerable experience, e.g., calculating load, selecting and adapting quality fastening materials, and periodically inspecting the entire installation. Without this skill and knowledge, do not attempt to install this unit by yourself. Improper installation may cause an accident resulting in personal injury or death.

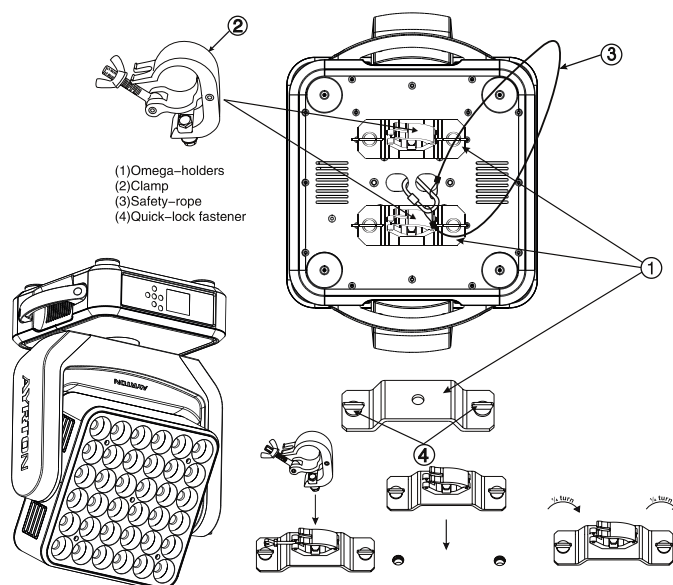
WARNING!

The luminaire should be connected to an electrical source by a qualified electrician.

Before installing the luminaire make sure that the selected installation spot can support at least 10 times the weight of the unit. Connect the luminaire to the power source by the power cord.

INSTALLATION METHOD USING TRUSS HOOKS

Refer to the following diagram:



- Attach the clamp to the omega bracket using an M12 screw.
- Insert the quick-lock fasteners of the first omega bracket into the respective holes on the base of the unit. Turn the quick fasteners fully clockwise.
- Install the second Omega bracket.
- Insert the safety cable through the holes at the bottom of the base and the truss or a stable attachment point. Insert the end into the hole and tighten the safety screw.

Note: This step is very important to ensure that the luminaire does not fall.

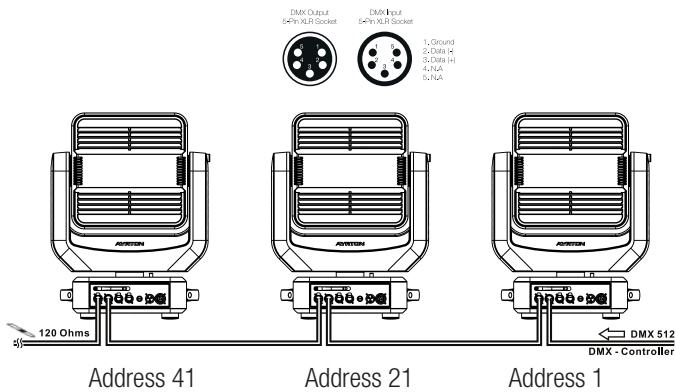
DMX512 CONNECTION

Connect the DMX input (XLR connector) cable of the luminaire to the DMX output (female XLR connector) of your controller.

You can connect multiple luminaires to this same DMX line in a daisy chain.

The DMX cable must be a shielded twisted pair that is equipped with male and female XLR connectors.

Refer to the following diagram:



Warning:

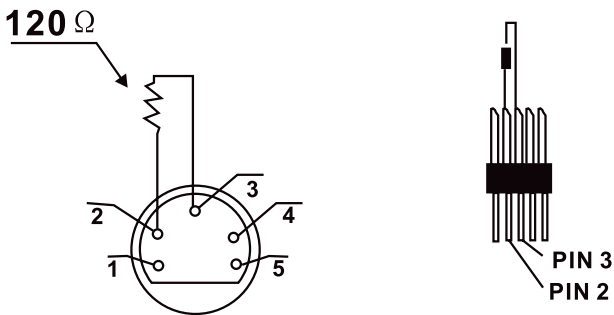
To ensure maximum stability at a 100-120 VAC, no more than two luminaires should be connected together. A third luminaire should be connected to another power source.

When the power voltage is 220-240 VAC, a maximum of five luminaires can be connected together in this way. A sixth luminaire should be connected to another power source.

DMX512 CONNECTION WITH TERMINATION PLUG

For installations where the DMX cable must extend over long distances, or if it is located near areas with major electrical disturbance, it is recommended to use a DMX termination plug. This helps prevent luminaires from malfunctioning due to interference. The DMX termination plug, composed simply of a male XLR input connector with a 120-Ohm resistor, is soldered between pins 2 and 3. This plug must be connected to the DMX output of the last luminaire in the chain.

Refer to the following diagram:



USING DMX VIA ART-NET

To control the MagicPanel 602 DMX via ART-NET, the fixtures must be interconnected with CAT5 RJ45 cable. Be careful to enter all necessary information into the ART-NET universe being used and specify in the menu that the MagicPanel 602 is controlled through ART-NET (see OPTION DETAILS in the "OPTION" menu).

WARNING! The MagicPanel 602 can only read the first twelve universes of an ART-NET packet. If you have more than 12 universes in your network, you must use a configurable switch to filter each RJ45 output.

THE LUMINAIRE'S DMX ADDRESS SETTING

All luminaires have a DMX start address correctly set when using a DMX signal to control them. The DMX start address is the channel from which the luminaire "listens" to the digital control information sent by the DMX controller.

The start address must conform to the one recorded on the DMX controller to run the luminaire. This address is the DMX value that appears on the luminaire's display. You can set the same address for all the luminaires, or a group of them, but you can also set a different address for each luminaire, as needed.

If you set the same address for all the luminaires, they will all "listen" from the DMX channel that you have set. The orders sent by the DMX controller will affect all luminaires at the same time.

If you set a different address per luminaire, each can be controlled independently by the DMX controller. If, for instance, the fixtures are preset in 20-channel DMX mode (required for full control), you will need to adjust the DMX address for the luminaires as follows: The first unit with DMX address 001, the second with DMX address 021 (20 + 1), the third with DMX address 041 (20 + 21), etc.

INSTRUCTIONS FOR USING THE WIRELESS INTERNAL DMX SYSTEM

1. REQUIRED HARDWARE

DMX512 controller, LumenRadio™ wireless transmitter, and MagicPanel 602 luminaires with wireless receivers.

2. WIRELESS INDICATOR – FIXTURE SCREEN

- Solid green: Connected to transmitter and receiving DMX data.
- Solid red: No connection to transmitter.

3. W-DMX IN THE FIXTURE MENU:

This part of the menu allows you to select if the unit will be controlled by wireless DMX (See WDMX in OPTION DETAILS)

Choose the WDMX option in the "Signal Select" submenu under the "OPTION" menu. The fixture will always return the DMX signal through the XLR 5 output.

REST WDMX: Antenna – In the "Wireless DMX" submenu. This function allows you to remove a luminaire from a wireless network, e.g., to pair it with another transmitter.

4. CONFIGURING THE WIRELESS SYSTEM:

- Connect the transmitter to the DMX controller.
- The fixture's indicator should default to red.
- Press the configuration button on the transmitter for 3 seconds. Wait 5-10 seconds for the pairing to occur. The "wireless" indicator on the receiver fixture should be green.
- Once pairing is achieved, the receiver fixture retains the connection

in memory. When the installation is powered on, pairing will be done automatically.

5. REMOVE RECEIVER FROM TRANSMITTER T1 AND PAIR WITH ANOTHER TRANSMITTER T2.

Case 1: Removing a receiver

- Activate the REST WDMX function in the fixture menu (see OPTION DETAILS).
- The “wireless” indicator on the fixture screen should be red. The receiver fixture is then disconnected from transmitter T1.
- Press the configuration button on transmitter T2 for at least 3 seconds, and the unit will start to pair with the receiver fixture.

Case 2: Removing all receivers from transmitter T1 to pair all to transmitter T2

- Press the configuration button on transmitter T1 for at least 5 seconds to reset pairing with receiver fixtures.
- All green indicators on the receiving fixtures will turn red, indicating that the receiver fixtures are no longer paired with transmitter T1.
- Press the configuration button on transmitter T2 for at least 3 seconds to pair it with the receiver fixtures.





Note:

- Unpair receiver fixtures from transmitter after use.
- Do not connect the DMX console to the fixture when it is controlled via wireless. This could cause interference between the two modes of operation.

CONTROL PANEL (MENU OPTIONS)

A large number of settings are accessible from the fixture’s control panel. A good working knowledge of it will enhance the fixture’s possibilities.

You can access the Main Menu by pressing the  key until the display flashes.

Cycling through the menus is performed by pressing the , ,  or  keys, as required:

Press the  key to select the desired menu.

Change the selection by pressing the ,  or ,  keys.

Confirm your selection by pressing the  key.

Exit a menu at any time by pressing the  key.

Notes:

You can return to the display by pressing the  or  keys from the basic display.

If the screen fails to respond, hold the “Mode Esc” key down for at least 3 seconds to free up the display.

The fixture’s menu functions are described in the following table:

| Address | Set Dmx Addr | A001–A0XX | DMX address setting | |
|-------------|--------------------------|---|---|---|
| Users Mode | User Mode | Stand Mode Basic Mode Extend Mode User Mode A User Mode B User Mode C | User’s mode to change channel numbers | |
| | Edit User | Max channel PAN : | Preset User modes | |
| Options | Status | Addr via DMX No DMX Mode Pan Reverse Tilt Reverse Pan Degree Tilt Degree Feedback Pan/Tilt Spd Mic Sens. Hibernation | ON/OFF Close/Hold/Auto/Music ON/OFF ON/OFF 630/540 270/540 ON/OFF Speed 1 ~ 4 0~99% OFF, 01M~99M,15M | Add. via DMX Auto run if no DMX Pan Reverse movement Tilt Reverse movement Pan Degree Select Movement Feedback Reset Pan/Tilt Sensitivity of Mic. Stand by Mode |
| | Service PIN | Service PIN RDM PID Set IP Set Device ID Set LED BIN Change To BIN | Password=XXX xxxxxx xxx.xxx.xxx.xxx xx LED BIN Change To LED BIN | Service Code*=050* RDM PID Code |
| | Fans Control | Head Control | Auto High Low | Head Fans Speed Mode Select |
| | Disp.Setting | Shutoff Time Flip Display Key Lock DispFlash | 02~<60m> <05m> ON/OFF ON/OFF ON/OFF | Display shutoff time Reverse 180 degree Key Lock No Signal Flash |
| | Signal Select | DMX WDMX Art-Net | | |
| | LED Control | Kling-Net OFF Kling-Net RGB Kling-Net RGBW | | |
| | Set Universe | xx | | |
| | Temp. C/F | Celsius Fahrenheit | | Temperature switch between °C/°F |
| | Initial Pos. | PAN =XXX | | Initial effect position |
| | Wireless DMX | Act&Data Out Rest WDMX | | |
| | Trigger | DMX Value Disp. Set To Slave Auto Program Music Ctrl. | PAN Slave1,Slave2,Slave3 Master / Alone Master / Alone | DMX value display Slave setting Auto program Music control |
| | Reset Default | ON/OFF | | Restore factory sett. |
| Info | Time Info. | Current Time Til Life Hrs Last Run Hrs Timer PIN Clr Last Run | XXXX(Hours) XXXX(Hours) XXXX(Hours) Password=XXX ON/OFF | |
| | Temp. Info | Head Temp. | XXX °C/°F | |
| | Software Ver | V1.0..... | Software version | |
| | Network | IP,Mask,Mac | | |
| Test | Home | All Pan&Tilt | Reset all motors Reset Pan&Tilt | |
| | Test Channel | PAN | Test function | |
| | Manual Ctrl. | PAN =XXX : | Fine adjustment of parameters | |
| Calibration | --Password-- PAN : | | Password “050” Calibrate and adjust the effects to standard/right position | |
| Preset | Select Prog. | Prog. Part 1 = Program 1 ~ 10 Program 1 Prog. Part 2 = Program 1 ~ 10 Program 2 Prog. Part 3 = Program 1 ~ 10 Program 3 | Select programs to be run | |
| | Edit Prog. | Program 1 : Program 10 | Testing program Step 01=SCxxx Step 04=SCxxx | |
| | Edit Scenes | Edit Scene 001 ~ Edit Scene 250 | Pan,Tilt,..... --Fade Time-- --Secne Time-- Input By Outside | Save and automatically return manual scenes edit |
| | Scenes Input | XX-XX | | Automat. scenes rec |

MAGICPANEL 602 CONTROL PANEL MENU – OPTION DETAILS

The following section provides details on the options that can be selected through the control panel menu. Refer to the table above.

Note: You can exit this menu at any time by pressing “Mode Esc” repeatedly until you return to the home screen.

ADDRESS

Allows you to change a DMX address from the fixture’s control panel.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Go to the “ADDRESS” menu and press “Enter”, then find “Set DMX Address.”
- ◆ Use the up/down arrows to scroll through until you locate the desired address and press “Enter” to confirm.

MODE

USERS MODE

Allows you to select the DMX mode from the following: “Basic Mode” (18 DMX channels), “Standard Mode” (20 DMX channels), “Extended Mode” (160 DMX channels), “User Mode A”, “User Mode B”, “User Mode C.”

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “MODE” menu and press “Enter.” Then from “User Mode” choose one of the 6 modes above. Consult the “CHART DMX” table for more information on Basic, Standard and Extended Mode. “User Modes A”, “B”, or “C” are user-definable.

EDIT USER A, B, C

To customize the mode, go to “MODE” and select “Edit User A, B or C” and press “Enter.” Scroll through each setting and press “Enter” to set the desired address.

OPTIONS

STATUS

No DMX Mode

Defines the fixture’s state when there is no command signal from the DMX controller. The fixture either can launch a program automatically, close the Shutter, or even remain in the state when the last DMX values (Hold) were received. The default setting is “Hold.”

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to select “Status.” Finally, use the left/right arrow keys to select “No DMX Mode.”
- ◆ Scroll through the different options using the left/right arrows and press “Enter” to confirm.

Pan Reverse

Reverses the PAN movement.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to select “Status.” Finally, use the left/right arrow keys to select “Pan Reverse.”
- ◆ Scroll through the different options using the left/right arrows and press “Enter” to confirm.

Tilt Reverse

Reverses the direction of the TILT movement.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to select “Status.” Finally, use the left/right arrow keys to select “Tilt Reverse.”
- ◆ Scroll through the different options using the left/right arrows and press “Enter” to confirm.

Pan Degree

Adjusts the amplitude of the PAN movement at 630° or 540°.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to select “Status.” Finally, use the left/right arrow keys to select “Pan Degree.”
- ◆ Scroll through the different options using the left/right arrows and press “Enter” to confirm.

Tilt Degree

Adjusts the amplitude of the TILT movement at 540° or 270°. The 540° function allows you, for instance, to add an accessory to the rear part of the fixture head.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to select “Status.” Finally, use the left/right arrow keys to select “Tilt Degree.”
- ◆ Scroll through the different options using the left/right arrows and press “Enter” to confirm.

Feedback

Readjusts the PAN and TILT positions automatically in the event of accidental shifting due to a physical shock.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to select “Status.” Finally, use the left/right arrow keys to select “Feedback.”
- ◆ Scroll through the different options using the left/right arrows and press “Enter” to confirm.

Pan/Tilt Spd

You can choose between four movement speeds, from “Speed 1” to “Speed 4.” The “Speed 1” setting is the fastest.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to select “Status.” Finally, use the left/right arrow keys to select “Pan/Tilt Spd.”
- ◆ Scroll through the different options using the left/right arrows and press “Enter” to confirm.

Hibernation — Standby mode

The LEDs and the pan/tilt motors will be powered down if the luminaire receives no DMX signal for 15 minutes (default setting). If the DMX signal is restored after this time limit, the luminaire will perform a RESET before resuming normal operation.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to select “Status.” Finally, use the left/right arrow keys to select “Hibernation.”
- ◆ Scroll through the different options using the left/right arrows and press “Enter” to confirm.

SERVICE PIN

WARNING! For normal operation the "Service pin" menu information should not be changed. Contact your dealer for more information.

Service PIN

Allows you to enter a password to access the advanced options such as RDM PID, Set IP, Set Device IP, Set LED BIN and Change to bin (pwd: 50).

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Finally, use the left/right arrow keys to select "Service Pin."
- ◆ Scroll up to "50" using the left/right arrows and press "Enter" to confirm.

RDM PID

Allows you to set the fixture's RDM PID code.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to access the "OPTION" menu and press "Enter." Then use the left/right arrow keys to select "Service Pin." Finally, use the left/right arrow keys to select "RDM PID."
- ◆ Use the up/down arrow keys to change the value and left/right to move from one number to the next. Press "Enter" to confirm.

Set IP

Allows you to change the fixture's IP address. The fixture's default IP address is associated with the serial number.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Then use the left/right arrow keys to select "Service Pin." Finally, use the left/right arrow keys to select "Set IP."
- ◆ Use the up/down arrow keys to change the value and left/right to move from one number to the next. Press "Enter" to confirm.

Set Device ID

Allows you to change the fixture's identifier.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Then use the left/right arrow keys to select "Service Pin." Finally, use the left/right arrow keys to select "Set Device ID."
- ◆ Use the left/right arrow keys to change the value displayed. Press "Enter" to confirm.

Set LED BIN

Allows you to change the model of LED card used in the fixture. The last part of the serial number indicates the LED card binning (6 binnings: BINA, BINB, BIN B21/B23, BIN B25/B27 BIN B28 and BIN B22).

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Then use the left/right arrow keys to select "Service Pin." Finally, use the left/right arrow keys to select "LED BIN."
- ◆ Use the left/right arrow keys to change the value displayed. Press "Enter" to confirm.

Change to BIN

This option makes it possible for several fixtures that do not have the same model of LED card to operate compatibly. Simply select a reference BIN which will be used for each fixture.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Then use the left/right arrow keys to select "Service Pin." Finally, use the left/right arrow keys to select "Change to bin."
- ◆ Use the left/right arrow keys to change the value displayed. Press "Enter" to confirm.

FAN CONTROL

Head Control

Allows you to choose the fan speed on the fixture head. The options are AUTO, HIGH or LOW.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Then use the left/right arrow keys to select "Fan Control."
- ◆ Use the left/right arrow keys to select the fan option. Press "Enter" to confirm.

DISP.SETTING

Shut off Time

Allows the fixture's LCD display to be turned off after a period of 2 to 59 minutes.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Then use the left/right arrow keys to select "Disp.Setting." Finally, use the left/right arrow keys to select "Shut off Time."
- ◆ Use the left/right arrow keys to change the value displayed. Press "Enter" to confirm.

Flip Display

Allows you to rotate the display by 180°. This can be highly useful when the fixture is installed with the head facing down.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Then use the left/right arrow keys to select "Disp.Setting." Finally, use the left/right arrow keys to select "Flip Display."
- ◆ Use the left/right arrow keys to select ON or OFF. Press "Enter" to confirm.

Key Lock

Activates the automatic keypad lock. If this function is enabled, the keys will be automatically locked 15 seconds after exiting edit mode. Hold the MENU key down for 3 seconds to deactivate this function.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Then use the left/right arrow keys to select "Disp.Setting." Finally, use the left/right arrow keys to select "Key Lock."
- ◆ Use the left/right arrow keys to select ON or OFF. Press "Enter" to confirm.

DispFlash

Causes the display to flash as a warning that there is no DMX signal.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Then use the left/right arrow keys to access the "Disp.Setting" submenu. Finally, use the left/right arrow keys to select "DispFlash."
- ◆ Use the left/right arrow keys to select ON or OFF. Press "Enter" to confirm.

SIGNAL SELECT

This menu allows you to choose what type of signal is used to control the fixture (DMX, Art-Net or WDMX).

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "OPTION" menu and press "Enter." Then use the left/right arrow keys to access the "Signal Select" submenu.
- ◆ Use the left/right arrow keys to select the signal type used. Press "Enter" to confirm.

LED CONTROL

Defines whether the Kling-Net Protocol is used to control the LEDs. Kling-Net is a protocol designed by Arkaos™ that simplifies use of their media server with LED panels if so equipped.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to access the “LED Control” submenu.
- ◆ Use the left/right arrow keys to activate the Kling-Net option, if desired. Press “Enter” to confirm.

SET UNIVERSE

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to access the “Set Universe” submenu.
- ◆ Use the up/down arrows to scroll through until you locate the desired universe and press “Enter” to confirm.

TEMP. C/F

Allows you to select the unit of measurement for the temperature values, in either Celsius or Fahrenheit.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to access the “Temp. C/F” submenu.
- ◆ Use the left/right arrow keys to select the unit of measurement. Press “Enter” to confirm.

INITIAL POS.

Controls the initial position of the fixture’s effects.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to access the “Initial Pos” submenu.
- ◆ Use the left/right arrow keys to select the desired setting, press “Enter”, and use the left/right arrow keys to change the value. Press “Enter” to confirm.

WIRELESS DMX

This menu allows you to “reset” wireless pairing.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to access the “Wireless DMX” submenu.
- ◆ Use the left/right arrow keys to activate the setting. Press “Enter” to confirm.

TRIGGER**DMX Value Disp.**

Allows you to view the DMX value received for each setting. The “ALL” option will display only the setting being edited.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to access the “Trigger” submenu. Use the right/left arrow keys to select “DMX value Disp.”
- ◆ Use the left/right arrow keys to select which setting to display. Press “Enter” to confirm.

Set To Slave

Sets the fixture to SLAVE Mode for receiving instructions from a master luminaire (see Master/Save mode settings, below).

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to access the “Trigger” submenu. Use the right/left arrow keys to select “Set To Slave.”
- ◆ Use the right/left arrow keys to define whether the fixture is Slave 1, Slave 2 or Slave 3, accordingly. Press “Enter” to confirm.

Auto Program

Allows you to run an internal program (a sequence of scenes) by selecting whether the fixture is operating alone or as a master.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to access the “Trigger” submenu. Use the right/left arrow keys to select “Auto Program.”
- ◆ Use the right/left arrow keys to select whether the fixture is “Alone” or “Master.” Press “Enter” to confirm.

Note: See “AUTO” menu to create internal programs.

RESETDEFAULT

Restores the factory default settings on the fixture.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “OPTION” menu and press “Enter.” Then use the left/right arrow keys to access the “ResetDefault” submenu.
- ◆ Use the right/left arrow keys to select ON to perform a reset to defaults. Press “Enter” to confirm.

INFO**TIME INFO.****Current Time**

Shows the number of hours the fixture has been operating since it was powered on.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “INFO” menu and press “Enter.” Then use the left/right arrow keys to access the “Time Info” submenu.
- ◆ Use the left/right arrow keys to select “Current Time”, and press “Enter” to display the value.

Ttl Life Hrs

Shows the fixture’s total number of hours of operation.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “INFO” menu and press “enter.” Then use the left/right arrow keys to access the access the “Time Info” submenu.
- ◆ Use the left/right arrow keys to select “Ttl Life Hrs”, and press “Enter” to display the value.

Last Run Hrs

Shows the fixture’s length of operation since the last time this counter was reset.

- ◆ Access the menu by pressing the “Mode Esc” key.
- ◆ Use the up/down arrow keys to reach the “INFO” menu and press “Enter.” Then use the left/right arrow keys to access the access the “Time Info” submenu.
- ◆ Use the left/right arrow keys to select “Ttl Life Hrs”, and press “Enter” to display the value.

Timer PIN

The "Timer PIN" is the password required to reset the counter for "Last Run Hrs." The PWD is 038.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "INFO" menu and press "Enter." Then use the left/right arrow keys to select "Time Info." Finally, use the left/right arrow keys to select "Timer PIN."
- ◆ Scroll through using the left/right arrows until 038 appears and press "Enter" to confirm.

CLR LAST RUN

After entering the "Timer PIN", you can reset the value for "Last Run Hrs" through this menu.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "INFO" menu and press "Enter." Then use the left/right arrow keys to access "Clr Last Run" submenu.
- ◆ Use the left/right arrow keys to select "ON" to validate the reset.

TEMP. INFO**Head Temp.**

Shows the current temperature of the fixture head.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "INFO" menu and press "Enter." Then use the left/right arrow keys to access the "Temp.Info" submenu.
- ◆ Press "Enter" once again to display the temperature of the head.

SOFTWARE VER

Displays the software version of the fixture.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "INFO" menu and press "Enter." Then use the left/right arrow keys to access the "Software ver" submenu.
- ◆ Press "Enter" once again to display the software version.

NETWORK

This menu directly displays the following network information for the fixture: IP address, subnet mask, and MAC address.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "INFO" menu and press "Enter." Then use the left/right arrow keys to access the "Network" submenu.
- ◆ Press "Enter" once again to display the information.

TEST**HOME**

Allows you to reset the functions from a DMX controller. You can select these functions by adjusting the channel.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "TEST" menu and press "Enter." Then use the left/right arrow keys to access the "Home" submenu.
- ◆ Press "Enter" once again to select "All" or "Pan&Tilt."

TEST CHANNEL

Tests each of the fixture's settings (e.g., PAN, TILT).

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "TEST" menu and press "Enter." Then use the left/right arrow keys to access the "Test Channel" submenu.
- ◆ The fixture then runs in test position. Use the left/right arrow keys to scroll through and test each setting.

MANUAL CTRL.

Allows you to access all the fixture's settings manually. The shutter and the electronic dimmer are by default 100% open.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "TEST" menu and press "Enter." Then use the left/right arrow keys to access the "Manual Ctrl" submenu.
- ◆ Use the left/right arrow keys to scroll through and check each setting.

CALIBRATION

Calibrates certain settings such as Pan, Tilt and Zoom. The password required to access the calibration function is 050.

- ◆ Access the menu by pressing the "Mode Esc" key.
- ◆ Use the up/down arrow keys to reach the "TEST" menu and press "Enter." Then use the left/right arrow keys to access the "Calibration" submenu.
- ◆ Press "Enter" once again to access the password (050), and press "Enter" to confirm.
- ◆ Use the left/right arrow keys to move from one setting to another and press "Enter" to access the calibration function of the setting. Finally, press "Enter" to confirm the change.

PRESET**SELECT PROG.**

Allows to choose the program for "Program Run."

EDIT PROG.

Allows you to edit internal programs.

EDIT SCENES

Allows you to edit scenes within the internal programs.

SCENES INPUT

The fixture features a DMX recorder, which can receive the scenes programmed on your DMX controller.

Set the desired number of scenes from the control panel. Then run the scenes from your controller. They will be automatically transmitted to the fixture.

MASTER/SLAVE MODE SETTINGS

A MASTER fixture can send up to 3 different sets of data to a SLAVE fixture (e.g., a MASTER fixture can control 3 different SLAVE fixtures which will each perform 3 different programs). The MASTER fixture sends the 3 programs in a continuous loop.

The SLAVE fixture receives data from the MASTER fixture according to the group to which the SLAVE fixture is assigned. For example, if the SLAVE fixture has been assigned to "Slave 1" in the menu "Set to Slave", the

MASTER fixture sends "Auto Program Part 1" to this SLAVE fixture. If it was assigned to "Slave 2", the SLAVE fixture would receive the program "Auto Program Part 2" from the MASTER fixture.

To launch a program, follow this procedure:

1. Slave Settings - SLAVE fixture adjustment

Use the buttons to select "Function Mode."
 Press ENTER to confirm.
 Use the buttons to select "Set slave to."
 Press ENTER to confirm.
 Use the buttons to select "Slave 1", "Slave 2" or "Slave 3."
 Press ENTER to confirm.
 Press MODE/ESC to return to the main menu.

2. Automatic Program Run

Use the buttons to select "Function Mode."
 Press ENTER to confirm.
 Use the buttons to select "Auto Program."
 Press ENTER to confirm.
 Use the buttons to select "Master" or "Alone." "Master" sets the fixture as the master.
 Press ENTER to confirm.
 Press MODE/ESC to return to the main menu.

3. Program selection for Auto Pro Part

Use the buttons to select "Edit program."
 Press ENTER to confirm.
 Use the buttons to select "Select programs."
 Press ENTER to confirm.
 Select "Auto Program Part 1", "Auto Program Part 2" or "Auto Program Part 3", for the Slave program to be sent. Selecting "Part 1" will cause the SLAVE to run the same program as the MASTER fixture.
 Press ENTER to confirm.
 Press MODE/ESC to return to the main menu.

4. Program selection for Edit Program

Use the buttons to select "Edit program."
 Press ENTER to confirm.
 Use the buttons to select "Edit program."
 Press ENTER to confirm.
 Use the buttons to select the desired program.
 You can edit specific scenes in a given program.
 Press ENTER to confirm.
 Press MODE/ESC to return to the main menu.

5. Automatic Scene Recording

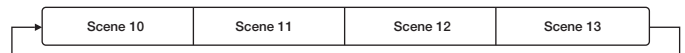
Use the buttons to select "Edit program."
 Press ENTER to confirm.
 Use the buttons to select "Edit scenes."
 Use the buttons to select the number of desired scenes. (maximum amount: 250 scenes)
 Press ENTER to confirm.
 Press MODE/ESC to return to the main menu.

Example:

- "Program 2" includes scenes: 10, 11, 12, 13.
- "Program 4" includes scenes: 8, 9, 10.
- "Program 6" includes scenes: 12, 13, 14, 15.
- "Auto Program Part 1" is "Program 2."
- "Auto Program Part 2" is "Program 3."
- "Auto Program Part 3" is "Program 6."

The 3 groups of SLAVE fixtures run the "Auto Program" in the following sequence:

Part 1:



Part 2:

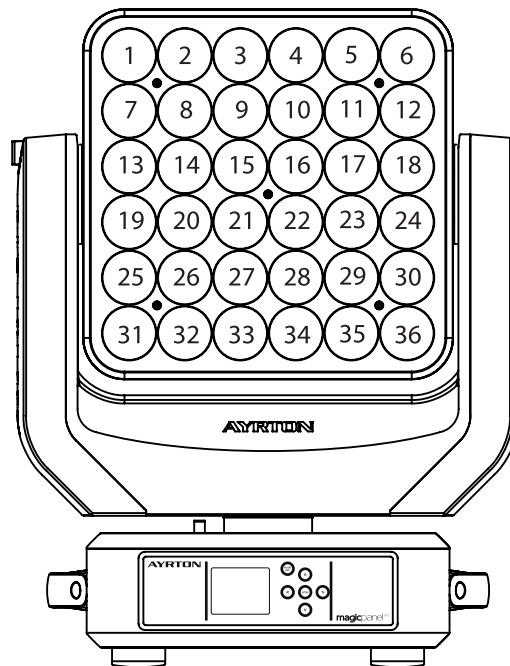


Part 3:



LED MAPPING

The diagram shows the order of the LED addresses from a front view of the fixture and control panel, with the latch to the left.



DMX CHART

| DMX channel's functions and their values (160 DMX channels) | | | | |
|---|----|-----|---------|---|
| Mode/Channel | | | Value | Function |
| St | Ba | Ex | | |
| 1 | 1 | 1 | | PAN Movement 8bit |
| | | | 0-255 | Pan Movement |
| 2 | | 2 | | Pan Fine 16bit |
| | | | 0-255 | Fine control of Pan movement |
| 3 | 2 | 3 | | TILT Movement 8bit |
| | | | 0-255 | Tilt Movement |
| 4 | | 4 | | Tilt Fine 16bit |
| | | | 0-255 | Fine control of Tilt movement |
| 5 | 3 | 5 | | Speed Pan/Tilt movement |
| | | | 0-225 | max to min speed |
| | | | 226-235 | blackout by movement |
| | | | 226-235 | no function |
| 6 | 4 | 6 | | Pan Motor continuous rotation |
| | | | 0-127 | no function |
| | | | 128-189 | Forwards Pan rotation from fast to slow |
| | | | 190-193 | No rotation |
| | | | 194-255 | Backwards Pan rotation from slow to fast |
| 7 | 5 | 7 | | Tilt Motor continuous rotation |
| | | | 0-127 | no function |
| | | | 128-189 | Forwards Tilt rotation from fast to slow |
| | | | 190-193 | No rotation |
| | | | 194-255 | Backwards Tilt rotation from slow to fast |
| 8 | 6 | | | Red LED - all arrays |
| | | | 0-255 | Red (0-Black , 255-100% Red) |
| 9 | 7 | | | Green LED-all arrays : |
| | | | 0-255 | Green (0-Black , 255-100% Green) |
| 10 | 8 | | | Blue LED -all arrays : |
| | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| 11 | 9 | | | White LED -all arrays : |
| | | | 0-255 | White (0-Black , 255-100% White) |
| | | 17 | | Red LED -array 1 : |
| | | | 0-255 | Red (0-Black , 255-100% Red) |
| | | 18 | | Green LED-array 1 : |
| | | | 0-255 | Green (0-Black , 255-100% Green) |
| | | 19 | | Blue LED -array 1 : |
| | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| | | 20 | | White LED -array 1 : |
| | | | 0-255 | White (0-Black , 255-100% White) |
| | | 21 | | Red LED -array 2 : |
| | | | 0-255 | Red (0-Black , 255-100% Red) |
| | | 22 | | Green LED-array 2 : |
| | | | 0-255 | Green (0-Black , 255-100% Green) |
| | | 23 | | Blue LED -array 2 : |
| | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| | | 24 | | White LED -array 2 : |
| | | | 0-255 | White (0-Black , 255-100% White) |
| | | | ... | |
| | | 157 | | Red LED -array 36 : |
| | | | 0-255 | Red (0-Black , 255-100% Red) |
| | | 158 | | Green LED-array 36 : |
| | | | 0-255 | Green (0-Black , 255-100% Green) |
| | | 159 | | Blue LED -array 36 : |
| | | | 0-255 | Blue (0-Black , 255-100% Blue) |
| | | 160 | | White LED -array 36 : |
| | | | 0-255 | White (0-Black , 255-100% White) |

| DMX channel's functions and their values (44 DMX channels) | | | | | | | |
|--|---------------|----|---------|---------------------------------------|----|-----|-----------------------|
| Mode/Channel | | | Value | Function | | | |
| St | Ba | Ex | | | | | |
| 12 | 10 | 8 | | Shutter, strobe: | | | |
| | | | 0-31 | Led trun off | | | |
| | | | 32-63 | Led turn on | | | |
| | | | 64-95 | Strobe effect slow to fast | | | |
| | | | 96-127 | Led turn on | | | |
| | | | 128-159 | Pulse-effect in sequences | | | |
| | | | 160-191 | Led turn on | | | |
| | | | 192-223 | Random strobe effect slow to fast | | | |
| | | | 224-255 | Led turn on | | | |
| 13 | 11 | 9 | | Dimmer intensity: | | | |
| | | | 0-255 | Intensity 0 to 100% | | | |
| 14 | 12 | 10 | | Color Macro: | | | |
| | | | 0-7 | No function | | | |
| | | | 8-39 | from RED to YELLOW | | | |
| | | | 40-71 | from YELLOW to GREEN | | | |
| | | | 72-103 | from GREEN to CYAN | | | |
| | | | 104-135 | from CYAN to BLUE | | | |
| | | | 136-167 | from BLUE to MAGENTA | | | |
| | | | 168-199 | from MAGENTA to RED | | | |
| | | | 200-231 | from RED to WHITE | | | |
| | | | 232-255 | Crossfading colours from slow to fast | | | |
| | | | 15 | 13 | 11 | | Color Presets: |
| | | | | | | 0-4 | No function |
| | | | | | | 5-9 | White2700k |
| 10-14 | White3200k | | | | | | |
| 15-19 | White4200k | | | | | | |
| 20-24 | White5600k | | | | | | |
| 25-29 | White6500k | | | | | | |
| 30-34 | White8000k | | | | | | |
| 35-39 | Yellow | | | | | | |
| 40-44 | Magenta | | | | | | |
| 45-49 | Cyan | | | | | | |
| 50-54 | Salmon | | | | | | |
| 55-59 | Turquoise | | | | | | |
| 60-64 | Light Green | | | | | | |
| 65-69 | Steel Blue | | | | | | |
| 70-74 | Orange | | | | | | |
| 75-79 | Straw | | | | | | |
| 80-84 | Pale Lavander | | | | | | |
| 85-89 | Pink | | | | | | |
| 90-94 | Red | | | | | | |
| 95-99 | Green | | | | | | |
| 100-104 | Blue | | | | | | |
| 105-109 | Rainbow1 | | | | | | |
| 110-114 | Rainbow2 | | | | | | |
| 115-119 | Rainbow3 | | | | | | |
| 120-124 | Rainbow4 | | | | | | |
| 125-129 | Rainbow5 | | | | | | |
| 130-134 | Rainbow6 | | | | | | |
| 135-139 | Rainbow7 | | | | | | |
| 140-144 | Rainbow8 | | | | | | |
| 145-149 | Rainbow9 | | | | | | |
| 150-154 | Rainbow10 | | | | | | |
| 155-159 | Rainbow11 | | | | | | |
| 160-164 | Rainbow12 | | | | | | |

| DMX channel's functions and their values (44 DMX channels) | | | | |
|--|----------|----|----------|------------------------------|
| Mode/Channel | | | Value | Function |
| St | Ba | Ex | | |
| 15 | 13 | 11 | | Color Presets: |
| | | | 165-169 | Rainbow13 |
| | | | 170-174 | Rainbow14 |
| | | | 175-179 | Rainbow15 |
| | | | 180-184 | Rainbow16 |
| | | | 185-189 | Rainbow17 |
| | | | 190-194 | Rainbow18 |
| | | | 195-199 | Rainbow19 |
| | | | 200-255 | Reserved |
| 19 | 17 | 15 | | Color Presets Dimmer: |
| | | | 0-255 | Dimmer 100 to 0% |
| 16 | 14 | 12 | | Chase Patterns: |
| | | | 0--9 | Led trun off |
| | | | 10--13 | Chase 1 |
| | | | 14--17 | Chase 2 |
| | | | 18--21 | Chase 3 |
| | | | 22--25 | Chase 4 |
| | | | 26--29 | Chase 5 |
| | | | 30--33 | Chase 6 |
| | | | 34--37 | Chase 7 |
| | | | 38--41 | Chase 8 |
| | | | 42--45 | Chase 9 |
| | | | 46-49 | Chase 10 |
| | | | 50--53 | Chase 11 |
| | | | 54--57 | Chase 12 |
| | | | 58--61 | Chase 13 |
| | | | 62--65 | Chase 14 |
| | | | 66--69 | Chase 15 |
| | | | 70--73 | Chase 16 |
| | | | 74--77 | Chase 17 |
| | | | 78--81 | Chase 18 |
| | | | 82--85 | Chase 19 |
| | | | 86--89 | Chase 20 |
| | | | 90--93 | Chase 21 |
| | | | 94--97 | Chase 22 |
| | | | 98--101 | Chase 23 |
| | | | 102--105 | Chase 24 |
| | | | 106--109 | Chase 25 |
| | | | 110--113 | Chase 26 |
| | | | 114--117 | Chase 27 |
| | | | 118--121 | Chase 28 |
| | | | 122--125 | Chase 29 |
| | | | 126--129 | Chase 30 |
| | | | 130--133 | Chase 31 |
| | | | 134--137 | Chase 32 |
| | | | 138--141 | Chase 33 |
| | | | 142--145 | Chase 34 |
| | | | 146--149 | Chase 35 |
| | | | 150--153 | Chase 36 |
| | | | 154--157 | Chase 37 |
| | | | 158--161 | Chase 38 |
| | | | 162--165 | Chase 39 |
| | | | 166--167 | Chase 40 |
| | | | 170--173 | Chase 41 |
| | | | 174--177 | Chase 42 |
| | | | 178--181 | Chase 43 |
| | | | 182--185 | Chase 44 |
| 186--189 | Chase 45 | | | |
| 190--193 | Chase 46 | | | |

| DMX channel's functions and their values (44 DMX channels) | | | | |
|--|------------------------------------|----------------------|----------|---|
| Mode/Channel | | | Value | Function |
| St | Ba | Ex | | |
| 16 | 14 | 12 | | Chase Patterns: |
| | | | 194--197 | Chase 47 |
| | | | 198--201 | Chase 48 |
| | | | 202--205 | Chase 49 |
| | | | 206--209 | Chase 50 |
| | | | 210--213 | Chase 51 |
| | | | 214--217 | Chase 52 |
| | | | 218--221 | Chase 53 |
| | | | 222--225 | Chase 54 |
| | | | 226--229 | Chase 55 |
| | | | 230--233 | Chase 56 |
| | 234--237 | Chase 57 | | |
| | 238--255 | Reserved | | |
| 17 | 15 | 13 | | Chase Speed: |
| | | | 0-125 | Fast to Slow Backward |
| | | | 126-130 | Stop(Speed=0) |
| | 131-255 | Slow to Fast Forward | | |
| 18 | 16 | 14 | | Chase Fade: |
| | | | 0-255 | Fade Chase |
| 20 | 18 | 16 | | Reset, internal programs: |
| | | | 0-79 | Normal |
| | | | 80-84 | All motor reset |
| | | | 85-87 | Scan motor reset |
| | | | 88-90 | no function |
| | | | 91-93 | no function |
| | | | 94-96 | no function |
| | | | 97-99 | Others motor reset |
| | | | 100-119 | Internal program 1 (secne1~8 of EEPROM) |
| | | | 120-139 | Internal program 2 (secne9~16 of EEPROM) |
| | | | 140-159 | Internal program 3 (secne17~24 of EEPROM) |
| | | | 160-179 | Internal program 4 (secne25~32 of EEPROM) |
| | | | 180-199 | Internal program 5 (secne33~40 of EEPROM) |
| | | | 200-219 | Internal program 6 (secne41~48 of EEPROM) |
| | | | 220-239 | Internal program 7 (secne49~56 of EEPROM) |
| 240-255 | Music Control (secne of Program 1) | | | |

CARE AND MAINTENANCE

The care and maintenance of your MAGICPANEL 602 should be ensured by a qualified technician. Your MAGICPANEL 602 requires regular servicing. The frequency depends essentially on its operating conditions and environment. Intensive use in a dusty environment, or a lack of ventilation around the fixture, may disrupt operation, result in overheating and cause damage that is not covered by the warranty.

WARNING!

Disconnect from mains before servicing.

UPDATING THE LUMINAIRE

Ayrton is continually upgrading this product line. It is therefore possible

that a new software version is available that will increase the unit's capabilities.

Updates are performed using Ayrton's update box. Contact your dealer for more information.

To display the version of your , go into the "Info" menu and select "Software version" (see options details under the "INFO" menu). It is advisable to use the same software version for multiple fixtures.

CLEANING

Your MAGICPANEL 602 requires cleaning at regular intervals. Be aware that accumulated dust and residue on the air vents, body and glass of the fixture may reduce efficiency and impair proper operation.

Before cleaning, disconnect the power cable from source.

Use compressed air to blow away dust particles accumulated on and between the cooling fins at the rear of the luminaire's optical system.

Clean the glass of the fixture with a slightly damp soft cloth. When necessary, use a non-alcohol glass cleaner. Never use harsh solvents!

WARNING!

Never use alcohol or any chemical agent to clean the optical system of an Ayrton product.

COMPLIANCE CHECK

Your installation should be checked regularly by certified service center. In addition, the following should be checked once a year by a qualified technician. Be sure to observe the following:

- The fixture's attachment system must be correctly installed and show no sign of corrosion.
- The fixture's mounting bracket should not be distorted in any way or show any trace of corrosion.
- The safety cable should be attached at the appropriate spot.
- Mechanical parts should show no sign of wear.
- The electrical cables should show no sign of wear, cuts or splices.

TECHNICAL SPECIFICATIONS

OPTICAL

- Optical efficiency: 85% maximum
- Opening angle of the beam: 7.5°

SOURCE

- 36 high-power multicolor LED emitters
- Brightness: up to 14,000 lumen
- Estimated lifespan of LED emitters: 50,000 hours
- Guaranteed "no-flicker" effect perfectly suited for television applications and all video recorded events

COLORS

System of 4-color mixing (red, green, blue and white) ensuring a high color-rendering index (CRI)

Uniformly produced light, without shadows, and offering rich saturated

shades and pastel hues in 4.29 billion colors (8-bit resolution).

Virtual color wheel including white light presets

Fixed colors and reprogrammed dynamic color change

DIMMER, STROBE

Electronic dimmer for light adjustment from 0 to 100% without color change (16-bit)

High-speed strobe effect in white or color at 1 to 25 flashes/second

Pre-programmed variable strobe effect

SOFTWARE FEATURES

Full menus for setting DMX address and advanced functions

Compatible with the DMX/RDM (Remote Device Management) protocol

Pre-programmed macro modes

Information menu including: timer, temperature, software version, etc.

CONTROL

USITT DMX512

Automatic features for managing your fixture without a DMX console

DMX RDM-compatible

Integrated control panel with LCD display and 5 buttons

DMX512 input/output

DMX adapter cables with XLR5 connectors included

Choice of 3 DMX modes (18, 20, 160 channels)

Wireless System: LumenRadio

POWER

Electronic power distribution with Power factor Correction (PFC) from 110-240 VAC, 50/60 Hz

600 W maximum power

Power supply via powerCON TRUE1 connector

Supplied AC power cable

COOLING

Forced air cooling system

Fan with automatically adjustable speed to reduce noise level (in AUTO mode)

User-selectable air-cooling modes

CONSTRUCTION

Covers: molded PC-ABS thermoplastic, class V0 (fire retardant)

Chassis: steel plates and aluminum

2 handles for transport

Protection rating: IP20 (indoor use only)

Finish: Carbon (black)

INSTALLATION

2 OMEGA brackets with quarter-turn locks included

Floor-mounting attachments

OPERATING PARAMETERS

Operating positions: all

Maximum authorized ambient temperature (Ta Max): 45 °C (104 °F)

Minimum authorized ambient temperature (Ta Min): -5 °C (23 °F)

Minimum projection distance: 0.2 m (8 inches)

DIMENSIONS

Product: 424 mm x 556 mm x 307 mm (W x H x D)

Packing: 530 mm x 670 mm x 425 mm (W x H x D)

WEIGHT

Product: 20 kg

Product in the packaging with accessories: 25 kg

PRODUCT CODE

015550

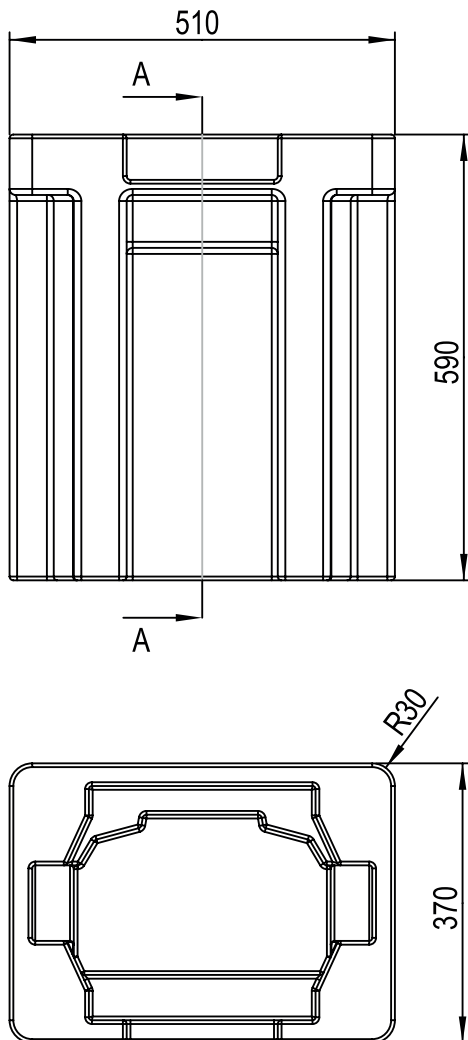
FOAM FOR FLIGHT CASE

MAGICPANEL 602 is delivered in a carton packed with a dense protective foam surrounding the fixture.

This reusable protective shell is intended for a flight case that can be custom built for the luminaire.

AYRTON does not offer custom flight cases for the MAGICPANEL 602. This accessory is to be provided by the user.

The main dimensions of the protective shell appear in the following diagram:



WARRANTY

The AYRTON MAGICPANEL 602 fixture is guaranteed against manufacturing defects for the duration of one (1) year from the date of purchase.

This warranty does not cover the unit for evidence of physical shock or damage caused by abuse or any use not in accordance with the operating conditions set forth in the present user manual.

In addition, cosmetic defects caused by the normal wear and tear of the unit are not covered under the warranty.

Any modification to the fixture will void the warranty. AYRTON cannot under any circumstances be held liable for quality and conformity regarding the installation of this product, which is the responsibility of the installer.

Broken glass lenses on the MAGICPANEL 602, and any damage that could arise thereof, are excluded from the warranty. Any possible cosmetic defects, provided you report them to your AYRTON dealer upon unpacking the device and before use, may be covered by the warranty.

Note:

The manufacturer is not responsible for any errors or omissions that may occur in this document. All information contained in this manual is subject to change without notice.



AYRTON
Digital Lighting