TDC Diamond Scan
LED light effect

User manual

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Introduction

Thank you for purchasing the Ayra TDC Diamond Scan. This versatile lighting effect will raise the party mood with the several coloured LED light sources and the rotating mirrors that aim every beam of light in a different direction. This user manual provides you with all the information you need to make the most of this device.

Read this user manual before you set up the device and familiarise yourself with the product and its accessories. Also check the contents of the box for possible damage or missing parts.

If you encounter any problems during use, contact your local dealer for more information and help.

The TDC Diamond Scan features a durable metal housing and is suitable for permanent as well as mobile setups. The Diamond Scan uses four powerful 10W RGBW LEDs as light sources, each aimed at a diamond-shaped mirror which rotates to reflect the light beams in several directions.

Automatic, music controlled, DMX and master-slave operating modes are available on the TDC Diamond Scan, ensuring that each user has optimal control of the device's features.

All mirrors can move separately and feature a smooth stepper motor with a rotating axle on which the diamond-shaped mirrors are mounted. As the mirrors are not mounted the axle at a straight angle, they rotate in a circle, thus making the reflected beams of light move across the entire room.

The TDC Diamond Scan features a mounting bracket for easy installation, DMX and power daisy-chaining options, a safety eyebolt and convection cooling. With these and other features, the TDC Diamond Scan is ideal for use as a party light and is most commonly installed in party rooms, community centres, bars, dancing studios, roller-skating rinks, bowling venues, etc.

Safety instructions

WARNING!

Always keep this device away from moisture and rain! Hazardous electric shocks may occur!

WARNING!

Only connect this device to a matching power outlet. This device is intended to work on a specific AC current. Connecting this device to power outlets with other voltages may result in permanent damage and possible hazardous situations, such as fire or electric shocks!

WARNING!

Be careful while operating of this device. Touching live wires inside and outside the unit may cause hazardous electric shocks!

This unit must be operated by, or under the supervision of an adult. This device is not suitable for children.

Every person involved with the installation, operation and maintenance of this device has to:
- Be qualified
- Follow the instructions of this manual

- Make sure there is no damage caused by transport. If the device seems damaged from the outside, do not use it and contact your dealer for more information.
- To make sure the device remains in perfect condition and for safe operation, the user must follow the instructions and warning notes of this user manual.
- Damage caused by improper use or modifications to the device are not covered by the warranty.
- This device does not have any user-serviceable parts inside. This device should only be serviced by qualified technicians.
- The light sources in this device are not user replaceable. When a light source reaches the end of its life, the whole fixture must be replaced.

Important notes regarding health and safety:
- Never let the power cord come into contact with other cables. Handle the power cord and all mains connectors with caution.
- Never remove any warning or informative labels from the unit.
- Never leave cables lying around.
- Do not open the device up and do not modify any hardware or software.
- Do not insert objects into the air vents of this device.
- Do not connect this device to a dimmer pack.
- Do not switch the system on and off frequently, as this will reduce the lifespan of the device.
- Do not drive the inputs of the fixture with a signal greater than required to work at full performance.
- Only use this device indoors, avoid contact with water, moisture and other liquids. Do not place items filled

with liquids on top of the unit.
- Avoid nearby flames or heat sources, do not place this device near flammable liquids, gas or flammable items.
- Always disconnect the device when it is not in use for a longer period or time, when servicing is needed, or when the device needs cleaning.
- Only handle the power cord by its connectors. Never pull the cable to remove a connector from its socket, as this could lead to damage and electric shocks.
- Always operate this device with a stable AC current.
- Always operate this device with the AC ground wire connected to the electrical system's ground.
- Never use other types of cables other than those specified in the manual, do not use defective or malfunctioning cables. Contact your dealer if the included or required cables do not work properly with this device.
- If the device has been exposed to considerable temperature changes (for example, transport from outdoors to indoors), do not connect the device immediately. Do not activate the unit until it has reached room temperature as moisture might build up inside the unit, which may cause it to short-circuit and/or cause electric shocks.

Guidelines and types of use:
- This device is intended to be used by adults for entertainment lighting in locations such as community centres, bars, dancing schools, roller-skating rinks, bowling alleys etc.
- This device is not suitable for use by children and must always be operated by an adult.
- Only use the device when the environment is suitable and will not cause any damage. Do not use the product in damp or dusty environments, or where long-term damage may occur such as:
    - indoor swimming pools where chlorine is used.
    - Beaches, where sand and salt are present.
    - Outdoors.
    - Indoor areas where intense heat sources are present or where the temperature exceeds levels that are comfortable for humans.
- Use only the included power cable and only connect the device to a suitable power outlet with the correct output voltage. Connecting the device to a power outlet with the wrong type of voltage or using the product with a wrong type of power supply may cause permanent damage to the device.
- Avoid shocks and collisions during use and transport. Do not transport the device while in use. Avoid brute force during the installation and operation of this device.
- Familiarise yourself with the functions of the device before use. Do not allow operation of the device by unskilled or unqualified people.
- Use of the device in ways other than described in this user manual may cause damage and injury. Ayra cannot be held responsible for any damage or injury caused by improper use.

Storage and transport:
- This device is intended for mobile use as well as fixed installations. During transport, use the original packaging of the product, the included flight bag or a fitting flight case, preferably filled with foam.
- This device is not intended for continuous use. Operation breaks will ensure that the lifespan of the device is not reduced.
- If the device is not used for a longer period of time, disconnect it from its power source and store it in its original packaging, or in a fitting flight case.
- Store the device in dry conditions indoors, and do not expose the device to extreme temperature changes.

Housing:
- Inspect the housing of the device frequently. Severe dents, cracks and missing screws should be prevented at all costs. Do not use the device when the housing is not in optimal condition. Contact your dealer or a skilled technician when in doubt about the state of the device.
- Check the fixture and screws for corrosion. Corrosion should not be present on the fixture. Contact your dealer or a skilled technician when corrosion is found on the fixture.
- Every power or signal chassis/connector should be mounted securely. Do not use the device when connectors are not secured.
- Do not use the power cord if the wires are visible. The cable can not be replaced by the user and should only be repaired or replaced by a skilled technician.

- Prevent the build-up of dust and dirt. Clean the exterior of the fixture every month with a dry or damp cloth. If the device is intensively used, the cleaning frequency must be increased. Disconnect the fixture when it is going to be serviced.

Fuses:
- The main fuse of this device is to be found on the rear of the device. In most cases, directly next to the power inlet.
- Only replace a fuse with a new one of the same type and rating! Do not use a fuse with a higher or lower rating.
- Do not bridge the fuse with electrical wires or aluminium foil as the fuse is used for protection against electrical shocks and short circuits.
- Always put the fuse cover back on the fuse compartment.

Symbol clarification:

	**WEEE:** Dispose of this product properly. This product is part of the WEEE directive – the Waste Electrical and Electronic Equipment directive. The requirements stated in this directive apply to all manufacturers and producers of electronic equipment in the EU. Do not dispose of this product together with regular household trash. Contact your local government for more information about proper disposal and recycling of electronic products in your region. By recycling this product properly after use, we can work together to enjoy these products and also protect our environment from being polluted.
	**CE:** The CE mark indicates that the product complies with applicable European directives and regulations.
	**Indoor use only:** This device is designed to be used indoors only. The maximum environmental temperature should not exceed 40 degrees Celsius (104 degrees Fahrenheit)

Contact:
Ayra professional lighting products
Verrijn Stuartweg 18
4462 GE Goes
The Netherlands
Please do not send any products directly to this address. If you wish to return a product for a refund or repair, please contact your local dealer for an RMA (Return Material Authorisation)

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Box contents

Box contents
1x TDC Diamond Scan fixture
1x Power cable IEC C13 to Schuko (3x 1mm²)
1x Power cable IEC C13 to UK (3x 1mm²)

Unit and accessory inspection
- If the cable appears broken or has visible damage, do not use it.
- If the unit is not going to be used for a longer period of time, disconnect it from the power supply and store it in a dust-free environment.
- Always check the unit for possible damage before use. If you suspect that something is wrong with the unit, do not connect it to a power source! If you suspect that your unit is broken or damaged, contact your local dealer or a certified technician to inspect the unit.

Device overview

1. Moving mirrors
2. Light output (lens)
3. Mounting bracket tightening knob
4. Safety eye
5. Cooling heatsink
6. Power input + device fuse
7. Power link output
8. Menu display with control buttons
9. Microphone for sound controlled mode
10. 3-pin XLR DMX input
11. 3-pin XLR DMX output
12. Bracket hook mounting point

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Setting up the unit

To activate the unit, connect the appropriate included power cable to the unit and to a suitable 230V, 50Hz power outlet.

During start-up, the stepper motors of the mirror need to calibrate. It's possible that you notice the fixture shaking and rattling a bit; this is perfectly normal as long as it takes no longer than 30 seconds. During start-up the display reads 'AYRA' and the fixture cannot be used. Do not try to enter the menu during start-up. When the start-up process is complete, the last used mode will be shown and the settings and values can be changed. For a new product, this is usually the DMX mode with the value set to 001. If no DMX signal is present, the device will turn to an auto or music-controlled mode.
Through the menu and the buttons below the display, you are able to adjust settings and read data from the fixture.

Use the display and the menu buttons on the bottom to set preferences, change settings and scroll through the menu. “Enter” is used to save a certain setting or preset; press “Menu” for at least 2 seconds to return to the main menu.
The table below shows an explanation for every feature and value.

display	Mode	Function
ADDR	DMX address setting	Address 001 … 512
CHND	Channel mode selection	1CH / 5CH / 10CH / 11CH
SLND	Slave mode	Master Slave 1 (identical) Slave 2 (in sound mode, random sync/mirrored mode)
SHND	Select automatic program with user set speed	Show 1-8+auto Speed 1-9 (only for auto mode)
SOUN	Sound mode operation	Sound on/off
SENS	Sound sense mode	Set sensitivity 0-100%
LED	LED mode	Display LED ON/OFF (shuts down automatically when not in use)
DISP	Display flip function	Idsp / dspl
TEST	Self test mode	Test
HOUR	Amount of working hours	Amount of hours 0 – 9999
Ver.	Software version	Displays software version
RSET	Reset device	Resets the device (as if you've removed and reconnected the power supply

ADDR: DMX address setting, used to determine the DMX starting channel. From this channel on, the fixture will respond to values corresponding with the number of channels that the fixture is occupying. (For example, when you set the starting address to value 003, the fixture will respond to channels 3, 4, 5 etc.)

CHND: The channel mode of the fixture makes it possible to use the correct channel mode setting for every application. For simple and basic setups, users may prefer to use the 1CH mode. For optimal control of every function, select the 11CH mode.

SLND: Select the right master or slave operation for the fixture. The usual mode is the master mode. If you select Slave mode 1 or 2 (2 is partially reversed in music controlled mode), the fixture only listens to a signal provided by the master fixture.

To use the master-slave mode, connect two TDC Diamond Scan fixtures together with standard 3P XLR male – 3P XLR female cable (not included). Connect the DMX output of the master device to the DMX input of the slave device. . The slave will mimic the actions of the master fixture, regardless which mode (AutoRun, Sound-controlled, etc.) is selected.

NOTE: Please note that it is not possible to switch to another operating mode if the Slave mode is active on your fixture!

SHND: Select one of the built-in shows for the music controlled mode. Please note that the Sound State needs to be deactivated for this function to be used effectively. The Auto mode is a complete light show, where the user can set a desired speed. For weddings the speed may be set slow and smooth, for disco applications the user may want to set the speed higher.

SOUN: The sound state shows if the unit's built-in microphone is active or not. It can be enabled or disabled in the menu with the ON/OFF selection.

SENS: The sensitivity of the built-in microphone is adjustable, in order to optimise the built-in sound-controlled mode. For example, when your music source (speakers) is placed far away, it is possible to increase the sensitivity to make sure that the fixture responds to the sound accurately. The sensitivity can be adjusted from 0 to 100, where 100 is the most sensitive.

LED: LED display on/off. When using this device in a club or theatre, the environment is mostly dark. Therefore, it is possible to shut off the LED menu display light when it is not in use. The default setting is ON, which means that the LED display remains on all the time. When OFF is selected, the display will turn off after it's not used for approximately 1 minute.

DISP: Display flip function. When you invert the display status, the status of the buttons will also change. From the correct reading position, Menu is always left and Enter is always right. This may be practical if you mount the device to a wall, for instance, and can not read the status easily.

TEST: When this mode is selected, the unit will test each LED colour, all LED colours together and the mirror movement. After this, the LED colours are tested again, etc. This process continues until it is disabled through the menu.

HOUR: Service intervals are primarily used by companies who rent products for all kinds of purposes and users who use the fixtures frequently. So after a particular number of hours, the fixture is brought in for service, to check if all components are in good shape and to fix any problems. This function displays the number of hours that the product has been used.

VER: Displays the firmware version that is installed on the PCB. Users can not upload new firmware to this fixture.

REST: Resets the fixture without requiring you to remove the power cables or switch the product off.

Operating modes

The TDC Diamond Scan offers various operating modes, each with its own advantages. For simple events there are stand-alone modes, and for advanced situations it's possible to create synchronised light shows. You can also control every feature of the TDC Diamond Scan via DMX in various channel modes. A short description for each mode can be found below:

Auto:
Automatic light show with a pre-programmed internal show on a user-defined speed. Use the Auto selection in the Show mode to activate the programs and set the speed. The speed of the internal programs can be adjusted from 1 to 9.

Sound:
Automatic light show with one of the pre-programmed internal shows in sync with the music, thanks to an internal microphone that picks up the beat of the music and changes a step every time a beat is detected. Use the Sens mode to change the sensitivity of the internal microphone so it will respond optimally to the beat of the music. In this mode, any set function in the Auto mode is overruled, and the fixture will change effects in sync with the beat of the music. Please ensure that the sound controlled mode is set to 'on', otherwise the built-in microphone is inactive and the unit will not respond to music.

Slave:
In master/slave mode, it is possible to link several TDC Diamond Scan fixtures together, to create synchronised light shows in the automatic or sound controlled mode. The first fixture in the chain must be set in the Auto or Music mode, and the other fixtures must be set to Slave, so they will mimic the behaviour of the first fixture. The master/slave function requires 3p XLR male – XLR female cables (not included). Connect the DMX out of the master fixture to the DMX input of the second (and from this fixture, the next fixture if necessary).

DMX:
The TDC Diamond Scan can be connected to a DMX controller using a standard 3p XLR male – XLR female cable. In DMX mode, a DMX terminator must be connected to the last fixture at the end of the DMX chain to prevent reflections in the DMX signal, which could cause flickering and unwanted behaviour from your intelligent fixtures.
A DMX terminator is an XLR connector with a 120-ohm resistor placed between pin 2 and 3 as a bridge.

NOTE: The TDC Diamond Scan can be set to various channel modes. For simple applications where a minimum amount of control is required, the 1CH mode is perfect. Users who wish to have ultimate control over all features of the TDC Diamond Scan can select the 11CH mode.

1CH mode:

CH	Function	Values
CH1	Program select	000 - 007 Blackout 008 - 037 Show 1 038 - 067 Show 2 068 - 097 Show 3 098 - 127 Show 4 128 - 157 Show 5 158 - 187 Show 6 188 - 217 Show 7 218 - 247 Show 8 248 - 255 Sound-controlled

5CH mode:

CH	Function	Values
CH1	Movement programs	000 - 009 No function 010 - 027 Movement show 1 028 - 047 Movement show 2 048 - 067 Movement show 3 068 - 087 Movement show 4 088 - 107 Movement show 5 108 - 127 Movement show 6 128 - 147 Movement show 7 148 - 167 Movement show 8 168 - 187 Movement show 9 188 - 207 Movement show 10 208 - 230 No function 231 - 255 Random shake/rotate
CH2	Movement speed	000 – 255 slow to fast
CH3	Colour program selection	000 – 255 select several colour programs
CH4	Colour program speed	000 – 255 slow to fast
CH5	Dimmer/strobe	000 – 127 Dimmer 0-100% 128 – 255 Strobe slow to fast

10CH mode:

CH	Function	Values
CH1	Master dimmer 0-100%	000 – 255
CH2	Strobe slow-fast	000 - 255
CH3/ 5/7/9	Movement mirror 1, 2, 3, 4	000 – 127 static mirror position 128 – 255 counter-clockwise slow-fast
CH4/ 6/8 /10	Colour macro 1, 2, 3, 4	000 - 007 Blackout 008 - 024 R 025 - 041 G 042 - 057 B 058 - 074 W 075 - 090 R + G 091 - 107 R + B 108 - 123 R + W 124 - 140 G + B 141 - 156 G + W 157 - 173 B + W 174 - 189 R + G + B 190 - 206 R + G + W 207 - 222 R + B + W 223 - 239 G + B + W 240 - 255 R + G + B + W

11CH mode:

CH	Function	Values
CH1/ 3/5/7	Movement mirror 1, 2, 3, 4	000 – 127 static mirror position 128 – 255 counter-clockwise slow-fast
CH2/ 4/6/8	Colour macro 1, 2, 3, 4	000 - 007 Blackout 008 - 024 R 025 - 041 G

		042 - 057 B 058 - 074 W 075 - 090 R + G 091 - 107 R + B 108 - 123 R + W 124 - 140 G + B 141 - 156 G + W 157 - 173 B + W 174 - 189 R + G + B 190 - 206 R + G + W 207 - 222 R + B + W 223 - 239 G + B + W 240 - 255 R + G + B + W
CH9	Master dimmer 0-100%	000 - 255
CH10	Strobe (or speed/sens when used in macro mode)	000 – 255 (low – high)
CH11	Macro mode	000 - 020 = no function 021 - 200 = built-in program selection (0-9 + changing program) **AND**CH9 is used for speed selection 201 - 255 = sound-controlledmode **AND** CH9 is used for mic sensitivity

Installation and connection requirements

The Ayra TDC Diamond Scan is a versatile product and can be used in many ways. To use this device as intended and to be sure that the product is used in a safe way, the following requirements must be met during the set-up, installation and connection of the device.

Standing installation
The Ayra TDC Diamond Scan can not directly be installed on a platform without proper mounting gear. Usually, most light effects have built in rubber feet so they can also be installed on a DJ booth. However, the TDC Diamond scan has its heat sink, connections and a safety eye on the bottom which makes this impossible.

If you really want to place the TDC Diamond Scan on a DJ booth, the integrated bracket can be positioned underneath the unit and by using a floor stand (not included), there can be a solid platform for the device to rest on.

Hanging installation
The TDC Diamond Scan has an integrated mounting bracket, equipped with three holes for hardware mounting. Ayra recommends the use of 2 clamps to mount the TDC Scan, especially if the unit is facing forward and no swiveling is required when installed on a truss or lighting T-bar.

It is also possible to mount one hook in the centre of the bracket. For any hanging setup, the device needs to be equipped with a safety cable which is properly mounted to the safety eyebolt of the unit and the structure that the fixture is mounted to.

The safety cable must be able to withstand a minimum force of 10 times the weight of the fixture. Furthermore, the safety cable must be short, so the unit can not fall very far or and swing around too much, due to the length of the cable. The unit should not be able to fall more than 30 cm. If necessary, wrap your safety cable around your structure again.

Transport and storage
The TDC Diamond Scan can be transported directly after shut-down. As the light sources of the TDC Diamond Scan do not need time to cool down, the device can be stored and transported instantly.

During transport, the device must be securely protected to ensure it stays reliable and in optimal shape. Always use the original box and packaging material to transport the unit, or a fitting flight case or flight bag if the device is transported frequently during mobile use.

Power input and output
The TDC Diamond Scan is provided with an extra power output. This makes daisy chaining of several lighting effects possible.

The output of the TDC Diamond Scan can handle a maximum power of 2000W. This equals around 8.9A based on a 230V AC, 50 Hz connection. A maximum of 20 TDC Diamond Scans may be connected in daisy chain on the main TDC Diamond Scan.

Please be aware that no equipment with a power consumption larger than 2000W should be connected to the output of the TDC Diamond Scan. The IEC C13/C14 chassis connectors can only withstand a maximum current of 10A on 230V AC, 50 Hz and the included power cable only has cores of 3x 1mm². If this current is larger, there is a chance of melting connectors and/or cables. Ayra can not be held responsible for any damage and/or injuries caused by improper use of the power outlets.

If you want to connect more than 20 TDC Diamond Scan fixtures or larger equipment, the connection to a power outlet must be renewed.

Please note that the IEC C13/C14 connectors are not 'hot-swappable'. This means that the connectors may not be pulled out of the chassis if the cable is still connected to a power output socket.

The TDC Diamond Scan is equipped with a fuse for its own components. The power input of the device is directly linked to the power output of the device.

XLR input and output
The TDC Diamond Scan is equipped with XLR chassis connectors. The DMX input is usually connected with an XLR cable that has a locking mechanism so it can not be pulled from the chassis too easily. Usually the locking part has to be pressed and held to unlock the mechanism, after which the connector can be removed from its socket.

Fans and cooling
The TDC Diamond Scan is a modern product and is equipped with a cooling heat sink for every RGBW LED module. This type of cooling is called convection cooling and it means that there is no fan needed to cool any of the internal components. As such, the TDC Diamond Scan is very silent in operation. Please ensure that the cooling heat sinks of the TDC Diamond Scan are not obstructed in any way, as that may cause the device to overheat.

DMX lighting troubleshooting

If you have any problems with DMX lighting, consult this troubleshooting section to solve the difficulties with your product. If this troubleshooting section does not solve your problem, contact your dealer for more information and help.

This troubleshooting section contains the most frequently encountered problems and is not a complete collection of possible faults, defects and solutions. The troubleshooting section applies for DMX controllers, DMX cabling and DMX light fixtures. Not all of the described problems, causes and solutions may apply to your situation, as product details may vary from product to product.

Problem	**Possible Cause**	**Solution**
The fixture can not be turned on	Blown fuse	Check the fuse compartment for blown fuses and replace them if necessary.
	No power cable plugged in	Connect the power cable to a suitable power outlet.
The fixture does not respond to DMX signals	Wrong DMX address	Set the DMX address to the right value.
	DMX controller blackout function activated	Deactivate the blackout function of your DMX controller.
	Faulty positioning of the DMX polarity switch on the controller	Flip the polarity switch on your DMX controller.
	No response or DMX activity signal LEDs activated	Check your DMX cables for possible connector breaks and replace them if necessary.
	Wrong working mode	Switch the working mode of the device to DMX mode.
The fixture does not respond to sound	Wrong operating mode selected.	Check if the sound-activated mode of the fixture is activated.
	Microphone sensitivity level is set too low	Increase the sensitivity level of the built-in microphone.
	Speaker placed too far away or lack of bass	Place your light effect closer to your speakers (or vice versa) and/or increase low-frequency volumes. The microphone will not be triggered by high-pitched sounds.
The beam output is very low	Dirty/dusty optics	Clean the lens and/or other optics with a dry or damp cloth.
	Dimmer is not set to full output	Set all dimmer levels to 100% on your DMX console.
Sometimes the DMX signal is lost and/or some fixtures are flickering / behaving oddly	Faulty/broken DMX cables	Check your DMX cables for possible connector breaks and replace them if necessary.
	Power cable interference on your DMX signal	Avoid installing the DMX and (high) power cables parallel to each other.
	No DMX terminator	Insert a DMX terminator at the end

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		of your DMX chain
	Signal loss or distortion in DMX values	Insert a DMX booster in your DMX chain after 32 fixtures or fewer. After a maximum of 32 fixtures the DMX signal needs to be refreshed.
The fixture does not respond to all DMX channels	Wrong DMX channel mode	Check the DMX channel mode of the fixture. If the wrong value is set, change the channel mode to a different setting and try again.
The pan and tilt of the fixture does not respond to DMX commands properly	Programming of the fixture is not optimal	If the movement values switch directly from one value to another and back in a program and the speed is set too high, it may be possible that the fixture cannot keep up physically. Decrease the speed or try to adjust your programming.
I cannot switch working modes	Fixture set to slave mode	Enter the menu and adjust the Master-slave function to Master, if it is set to Slave 1 or 2. During operation as Slave, it is not possible to activate the automatic or music controlled modes.

Technical specifications

- powerful light effect with moving mirrors and bright LEDs
- razor sharp beams fill the room with colourful light
- amazing moving moonflower effects sweep through the entire room – 4 times!
- horizontal and vertical light coverage
- 4x 10W RGBW CREE LED on board
- diamond shaped moving mirrors, unique design!
- full room coverage thanks to unique mirror shape and motor axle-offset
- full control over every mirror and every LED!
- exciting built-in programs and DMX control with macro's
- compact and lightweight design
- optimal mirror protection
- heat sink cooling – no fans, no noise!
- power link output, connect up to 20 TDC Diamond Scans!

Features:

- automatic, music-controlled, master-slave and DMX operation
- automatic mode with user-selectable speed (slow and smooth to fast and furious!)
- music-controlled mode with user-selectable show
- built-in microphone with adjustable sensitivity
- master-slave operation in auto or music-controlled mode
- 2 slave modes (sync or random sync/mirrored)
- DMX operation with optimal control
- 1, 5, 10 and 11-channel DMX control
- 5-channel DMX mode with user selectable show and speed for movement and colour programs.
- 11-channel DMX mode with optimal control and built-in shows, adjustable speed and sound control!

Technical info:

- connection voltage: 100-240V AC, 50/60 Hz
- Fuse: F3AL250V
- Power consumption: 90.4W max.
- Power factor: 0.598
- Max. power output load: 9A
- ta: 0-40º Celsius
- Exterior surface temperature during normal use: 50º Celsius

Included accessories:

- IEC C13 to Schuko cable (1.5 m, 3x 1 mm²)
- IEC C13 to UK cable (1.5 m, 3x 1 mm²)

Connectors and wiring schematics:

DMX connectors:

DMX-output

XLR mounting-socket:

DMX-input

XLR mounting-plug:

Electrical wiring:

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

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