Technical Specifications

Power	AC 120V 60Hz	AC 230~250V 50/60Hz	
Fuse	20mm Glass 10A Fast Blow	20mm Glass 10A Fast Blow	
Lamps	MSD 250W (2000hrs)		
Dimension	560mm x 250mm x 205mm / 22in x 9.8in x 8.1in		
Weight	17 kg / 37.4 lbs	13.5 kg / 29.7 lbs	

User Information (Please complete for your records)

Data Purchased : / / Serial No. :

Dealer Stamp: Model: TRACKSCAN DMX-606R



TRACKSCAN 250R DMX-606R

User Guide

Please read these instructions carefully before use

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7. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in wh the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

EC Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55014-1: 1993, EN61000-3-2: 1995, EN61000-3-3:1995

EN55014-2: 1997 CATEGORY II

EN61000-4-2: 1995, EN61000-4-3: 1995, EN61000-4-4:1995 EN61000-4-5: 1995, EN61000-4-6: 1995, EN61000-4-11: 1994

&

Harmonized Standard

EN60598-1: 1993

Safety of household and similar electrical appliances

Part 1: General requirements

Following the provisions of the Low Voltage Directive 73/23/EEC and 93/68/EEC.

EC Declaration of Conformity

We declare that our products (remote controller) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55015: 1993 EN50082-1: 1997 EN61000-3-2: 1995 EN61000-3-3: 1995

1. Safety Instruction



Please read carefully the instruction, which includes important information about the installation, usage and maintenance.

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet
- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- The unit is designed for use with the MSD 25OW. Do not use any other type of lamp.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adiacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before fuse/lamp replacement or servicing.
- Replace fuse/lamp only with the same type.
- Make sure there is no flammable materials close to the unit while operating as it is fire hazard.
- Maximum ambient temperature is TA: 40°C . Don't operate it at where the temperatu
 is higher than this.
- Unit surface temperature may reach up to 85C. Don't touch the housing bare-hand during its operation, and allow about 15 minutes to cool down before replacing bulb or serving, as the unit could be very hot.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to any dimmer pack.
- Do not touch any wire during operation as high voltage might be causing electric shown

Warning

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- Never touch bulb with bare fingers as it is very hot after using.
- Hot lamp explosion hazard. Do not open the unit within five minutes after switching off.
- Do not start on the unit without bulb enclosure or housing are damaged.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- Do not look directly at the light while the bulb is on.

Caution

There are no user serviceable parts inside the unit. Do not open the housing cattempt any repairs yourself. In the unlikely event your unit may require servic please contact your nearest dealer.

Installation

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure which you are attaching the unit is secure and is able to support a weight of 20kgs for each unit.

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6. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work, no light and the fan does not work

- 1. Check the connect power and main fuse.
- 2. Measure the mains voltage on the main connector.
- 3. Check the power on LED.

B. Not responding to DMX controller

- 1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
- If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
- If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the unit or the previous one.
- 4. Try to use another DMX controller.
- Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. Some units don't respond to the easy controller

- You may have a break in the DMX cabling. Check the LED for the response of the master/ slave mode signal.
- 2. Wrong DMX address in the unit. Set the proper address.

D. No response to the sound

- 1. Check the unit that is not receiving DMX signal.
- 2. Check the unit that is not set to display mode
- 3. Check microphone to see if it is good by tapping the microphone

E. One of the channels is not working well

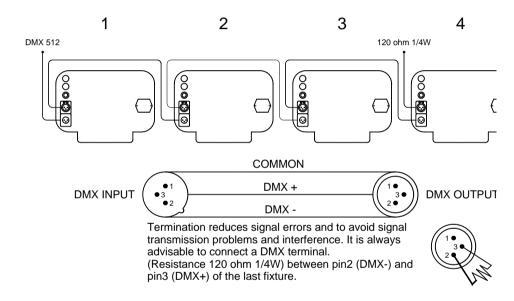
- 1. The stepper motor might be damaged or the cable connected to the PCB is broken.
- 2. The motor's drive IC on the PCB might be out of condition.

F. The lamp is cutting out intermittently

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- 1. The lamp is not working well. Check the main voltage either too high or too low.
- 2. Internal temperature may be too high. Check and if necessary replace the fan on the h 5.5 DMX512 Connection

The DMX512 is widely used in intelligent lighting control, with a maximum of 512 chan



- 1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adaptercable.
- At last unit, the DMX cable has to be terminated with a terminator. Solder a 120 ohm 1/4' resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
- 3. Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable can not be branched or split to a `Y` cable. DMX512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
- 4. The DMX output and input connectors are pass-through to maintain the DMX circuit, who power is disconnected to the unit.
- 5. Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
- 6. The end of the DMX512 system should be terminated to reduce signal errors.

7.3 pin XLR connectors are more popular than 5 pin XLR.

3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

2. Technical Specification

Power supply

- AC 120V~60Hz
- AC 230/240/250V~50/60Hz

Lamp

- Discharge MSD 250W or NSD 250W GY 9.5

Optical system

- Standard 13° focused beam angle.
- Focus can be adjusted by manual.

Shutter

- Blackout, dimmer and strobe speed variable(1~12 flashes per second).

Gobo wheel

- Independent gobo wheel with 7 gobos plus open.
- Gobo wheel rotates with variable speed and rainbow effect.

Gobo rotation

- 7 metal gobos, rotating in both directions at different speeds.
- Outside diameter 27.8 mm, image diameter 18 mm.

Color wheel

- Independent color wheel with 9 dichroic mirrors plus white.
- Color wheel rotates with variable speed and rainbow effect.

Movement

- Pan: 180° in 0.5 second.
- Tilt: 70° in 0.3 second.

DMX Channels

- Standard DMX512 signal addressing and can be controlled by any universal DMX controller.

Channel 1 = Shutter

Channel 2 = Gobos

Channel 3 = Gobo rotation

Channel 4 = Colors

Channel 5 = Pan motion

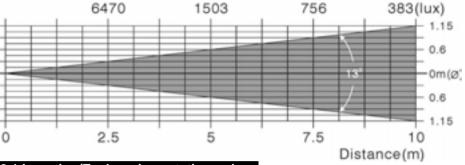
Channel 6 = Tilt motion

Dimension: 560mm x 250mm x 205 mm (without bracket)

Weight: 17 kg (AC 120V) / 13.5 kg (AC 230~250V)

Luminous intensity:

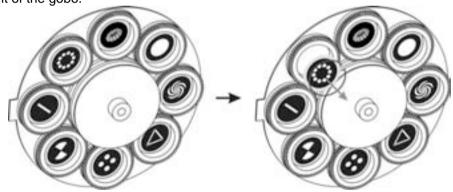




2.1 Inserting/Exchanging rotating gobos

DANGER! Install the gobos with the device switched off only. Unplug from mains before!

Open the cover by loosening the fastening screw at the sides of the cover. If you wish to use other forms and patterns as the standard-gobos, or if the gobos are to be exchanged, remove the fixation ring with an appropriate tool. Remove th gobo and insert the new gobo. Press the fixation-ring together and insert it in the front of the gobo.



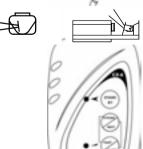
CAUTION!

Never unscrew the screws of the rotating gobo as the ball bearing will otherwise be opened!

5.4. DMX512 Configuration

DMX512 configuration						
Channel 1	Channel 2	Channel 3	Channel 4		Channel 5	Channel 6
Shutter	Gobo	Gobo Rotation	Full Color	Split Color	Pan	Tilt
Open 248-255	Fastest speed 255	Stopped 246-255	Fas	stest speed 255		

Shaking 168-247	\bigcirc	245	(\bigcirc	
44	Slowest speed 128	135	Slowest speed 128		
	@	Stopped 121-134	Light green 116-127	Light green 121-127 Amber- Light green 114-120	
4	112-127		Amber 103-115	Amber 108-113 Magenta-Amber 101-107 Magenta 94-100	
Shutter 88-167	96-111		Magenta 90-102	Pink-Magenta 88-93	
	80-95		Pink 77-89	Pink 81-87 Orange-Pink 74-80	
	64-79		Orange 64-76	Orange 67-73	
			UV Purple 52-63	UV Purple-Orange 61-66 UV Purple 54-60 Green-UV Purple	
	48-63		Green 39-51	47-53 Green 41-46	
	32-47		Yellow 26-38	Yellow-Green 34-40 Yellow	
Dimmer 08-87	16-31	10	Blue 13-25	27-33 Blue-Yellow 21-26 Blue 14-20	



			White-Blue	
	Stopped	White		
Blackout 00-07			White 00-06	

5.2 Easy Controller

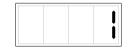
The easy remote control is used only in master/slave mode. By connecting to the 1/4" microphone jack of the first unit, you will find that the remote control on the first unit will control all the other units for Stand by, Strobe/Next and Fast/Slow function.

- 1. **STAND BY**: To blackout all the unit.
- 2. STROBE/NEXT: Under FAST mode, the light will strobe in three different ways:
- a.) Strobe in different gobos and colors.
- b.) Synchronous strobe in white color.
- c.) Two-light strobe in white color.
- If the unit in slow mode, press NEXT button to choose desired color and gobo. It change ten colors and then change one gobo.
- 3. FAST/SLOW: When the LED is off, it is in FAST mode. The unit's movement- Pan/Tilt & Gobo/Color is sound activated. If the LED on, it is in SLOW mode, Pan/Tilt is sound activated but Gobo/Color wheel are static, controlled by Next button.

5.3 Universal DMX Controller

If you use a universal DMX controller to control the units, you have to set DMX addres from 1 to 512 channel so that the units can receive DMX signal.

Press the **MENU** button up to when the **Pddr** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX51: address. Once the address has been selected, press and keep **ENTER** button pressed up when the display stops blinking or storing automatically 8 seconds later. To go back to the functions without any change press the **MENU** button again. Please refer to the followin diagram to address your DMX512 channel for the first 4 units.









3. Lamp



In case of replacement of the lamp or maintenance, do not open the fixture within 15 minutes until the unit cools down after switching of

Becau

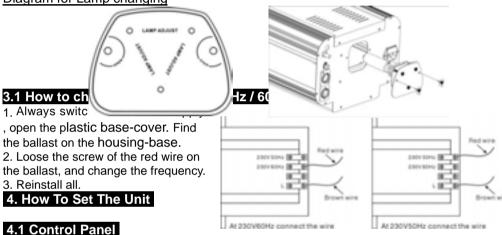
se of its high internal pressure, there might be a risk that the Discharge lamp would explode during operation. The lamp emits intense UV radiation which is harmful to the eyes and skin. The high luminance of the arc can cause severe damage to the retina i looked directly at the lamp.

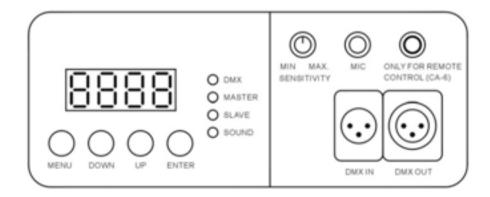
Lamp: Discharge lamp MSD 250W

Color Temperature : 8000K Average Life : 2000 hours

- Always switch off the main supply and never handle the lamp or luminaries when is hot.
- 2. Do not touch the bulb with bare hands. If this happens, clean the lamp with denatured alcohol and wipe it with a lint free cloth before installation.
- 3. The lamp generates UV radiation. Never operate the lamp without appropriate shielding.
- 4. When burning, the lamp operates at high pressure and there is a slight risk of arc tube rupture. The risk increases with age, temperature and improper handling of the lamp. Do not use the lamp any longer than its specified life.
- 5. Make sure the lamp is located in the center of the reflector for the best spot.

Diagram for Lamp changing





Display

To show the various menu and the selected functions.

LED

DMX	On	DMX input present
MASTER	On	master mode
SLAVE	On	slave mode
SOUND	Flashing	sound activation

Button

	to select the programming functions
DOWN	to go backward in the selected functions
UP	to go forward in the selected functions
ENTER	to confirm the selected functions

Remote controller input

By connect to the 1/4" microphone jack to control the unit for Stand by, Strobe/Next and Fast/Slow function.

Sensitivity

To adjust the microphone-receiving sensitivity.

Microphone

To receives audio signal for sound activation.

DMX input/output

For DMX512 link, use 3-pin XLR plug cable to link the unit together.

5. How To Control The Unit

You can operate the unit in three ways:

- 1. By master/slave built-in preprogram function
- 2. By easy controller
- 3. By universal DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will be effected at once. Every time you turn the unit on, it will show A660 on the display and move all the motors to their 'home' position and you may hear some noises for about 20 seconds. After that the unit will be ready to receive DMX signal or run the built in programs.

5.1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave connection, the first unit will control the other units give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to set the first unit in master mode will and select (show 1) or (show 2) mode. Its DMX input jack will have nothing plugged in it, and Its master LED will be constantly on and sound LED will flash to the music. The other units will have to set in slave mode and select (normal) or (light show) mode, Their DMX cables plugged into the DMX input jacks (daisy chain) and the slated lights will constantly on.

2-light show

$_{ m n}$ $_{ m SLNd}$ (slave mode), $_{ m no}$ $_{ m loc}$ means the unit works normally and $_{ m loc}$ $_{ m loc}$ $_{ m loc}$ means 2-light
how. In order to create a great light show, you can set 2L5h on the second unit to get
ontrast movement to each other, even if you have two units only.

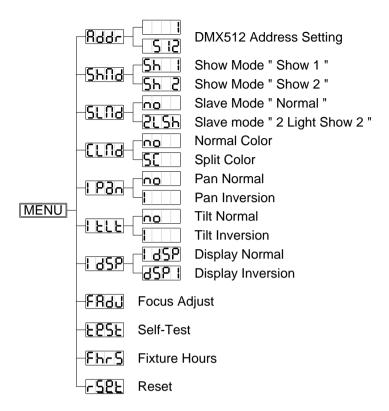
£85E Self-Test

Press the **MENU** button up to when the **EESE** is blinking on the display. Pressing **ENTER** button and the unit will run self-test by built in program. To go back to the functions press the **MENU** button again.

Press the **MENU** button up to when the **FhrS** is blinking on the display. Pressing **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button again.

Press the **MENU** button up to when the **FSEL** is blinking on the display. Pressing **ENTER** button and all channels of the unit will return to their standard position. To go back to the functions press the **MENU** button again.

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DMX512 Address Setting

Press the **MENU** button up to when the **Rddr** is showing on the display. Pressing ENTER button and the display will blink. Use **DOWN** and **UP** button to change the DMX51: address. Once the address has been selected, press the ENTER button to setup or automatically return to the main functions without any change after 8 seconds. To go back 1 the functions without any change press the **MENU** button again.

Show Mode

Press the **MENU** button up To when the **Shild** is showing on the display. Pressing ENTER button and the display will blink. Use **DOWN** and **UP** button to select the 5h | 1 (show 1) or Sh 2 (show 2) mode. Once the mode has been selected, press the ENTER

4.2 Main Function

To select any of the given functions, press the **MENU** button up to when the required one is showing on the display. Select the function by ENTER button and the display will blink. Use **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press the ENTER button to setup or it will automatically return to the main functions without any change after idling 8 seconds. To go back to the functions without any change press the **MENU** button. The main functions are showing below:

seconds. To go back to the functions without any change press the MENU button again. Slave Mode Press the **MENU** button up to when the **SLNd** is showing on the display. Pressing ENTER button and the display will blink. Use **DOWN** and **UP** button to select the no (normal) or 215h (2 light show) mode. Once the mode has been selected, press the ENTER button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again. Color Mode Press the **MENU** button up to when the **CLIId** is showing on the display. Pressing ENTER button and the display will blink. Use **DOWN** and **UP** button to select the DO (normal) or [50] (split color) mode. Once the mode has been selected, press the ENTER button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again. Press the **MENU** button up to when the Pon is showing on the display. Pressing ENTER button and the display will blink. Use **DOWN** and **UP** button to select the no (normal) or [(pan inversion) mode. Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again. Press the **MENU** button up to when the **LELE** is showing on the display. Pressing ENTER button and the display will blink. Use DOWN and UP button to select the (normal) or (tilt inversion) mode. Once the mode has been selected, press the ENTER button to setup or automatically return to the main functions without any change after 8 seconds. To go back to the functions without any change press the **MENU** button again. Display Inversion It is good for you to install the unit on the truss or under ceiling. Press the **MENU** button up to when the bilinking on the display. Use the ENTER button to change to the mode 65P1 (display inversion), It will automatically store after 8 seconds. Or press the **ENTER** button again return to the mode display normal). To go back to the functions press the **MENU** button.

button to setup or automatically return to the main functions without any change after 8

Display normal mode for the fixture putting	g on the floor.
dsp.l Display inversion mode for the fixture fixing	g under ceiling.
Focus Adjust Press the MENU button up to when the FROU is to ENTER button, the unit will focus on center position. To MENU button again.	

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