MH-X25

LED SPOT MOVING HEAD

STAIRVILLE

Congratulations on your purchase of our Moving Head. With your MH-X25 you can easily set up an impressive light show. This model provides high quality workmanship with a range of useful features. To achieve the best performance and safety operation, you must read all of this manual before using it in a live situation.

Table of Contents

Safety Instruction

For your own safety you must read this section in full first!

⚠ *Risk of electrical shock.*

- Connect the device only to an electrical wall socket providing a mains voltage of 230 V / 50 Hz.
- NEVER operate the device if the power plug or power the cord is damaged.
- NEVER submerse the device in water. Wipe it only with a slightly damp cloth. Liquid getting into the device will risk a short circuit and will be hazardous.
- NEVER expose the device to direct precipitation or moisture and never use it in a damp or wet environment. Indoor use only!
- Ensure that the power cord does not become wet during operation.
- Do not subject the device to high temperatures, direct sunlight, severe vibrations, shocks or tremors, or excessive dust.
- You must NEVER open the housing of the device or try to repair it. There are no user serviceable parts inside. Warranty will become void if you open the housing.
- Do not place objects containing fluids, e.g. flower vases or beer bottles, on or near the device.
- Notice regarding power disconnection
  To completely disconnect the device from the mains power source the power plug must be removed from the power socket. For this reason the device must always be placed in a position where a constant unobstructed access to the power socket is assured, thus in an emergency situation you are able to immediately pull out the power plug. To eliminate the risk of fire you should completely disconnect the power plug from the power socket when the device is not going to be used.
- Always grasp the power cord by the plug. Do not pull on the cord itself and never touch the power cord with wet hands as this could result in a short circuit or an electrical shock. Do not place the device, speaker cabinets or anything else on the power cord and make sure that it does not become clamped. Place the power cord in a position where it can not be trod on. A damaged power cord can cause a fire or an electrical shock. Check the power cord from time to time. Should it become damaged contact our customer service centre to have it replaced.

⚠ *Risk of fire!*

- NEVER leave the device unattended while it is switched on.
- Never cover the ventilation slots of the device while it is switched on. Avoid placing this device in locations that provide insufficient ventilation or hot locations and do not place the device in direct sunlight or under strong artificial light sources. Otherwise, it may overheat and become irreparably damaged.
- Do not place any open sources of fire, like candles, on the device.
- When a thunderstorm with the risk of lightening threatens please disconnect the device from the mains power.

⚠ *Risk of personal injury!*

- Keep the power adapter and device away from children. Children frequently underestimate the dangers of electrical equipment.
- Ensure a safe location for the device.
- Do not operate the device if it has sustained a fall or is damaged. Arrange for the device to be checked and/or repaired by qualified technicians.
- Do not look directly into the light while the unit is on.

⚠ *Risk of damage to the unit!*

- Always ensure a stable, level and safe place of operation.

12 Control Channel

The device can be controlled by 12 channel DMX512, details as follow:

Channel	DMX value	Feature
1 PAN	0~255	540°
2 TILT	0~255	270°
3 PIN 16bit	0~255	16bit spinner
4 TILT 16bit	0~255	16bit spinner
5 Speed	0~255	Controllable speed with decreasing
6 Colour wheel	0~4	White
	5~9	Yellow
	10~14	Pink
	15~19	Green
	20~24	Peachblow
	25~29	Blue
	30~34	Kelly
	35~39	Red
	40~44	Dark blue
	45~56	White or Yellow
	57~65	Yellow or Pink
	66~74	Pink or Green
	75~83	Green or Peachblow
	84~92	Peachblow or Blue
	93~101	Blue or Kelly
	102~110	Kelly or Red
	111~119	Red or Dark blue
	120~127	Dark blue or White
	128~191	Positive rainbow effect with increasing speed
	192~255	Negative rainbow effect with increasing speed
7 Shutter	0~3	Close
	4~7	Open
	8~215	Strobe effect with increasing speed
	216~255	Open
8 Dimmer	0~255	0~100% mechanic dimmer

Channel	DMX value	Feature
9 Gobo wheel	0~7	
	8~15	
	16~23	
	24~31	
	32~39	
	40~47	
	48~55	
	56~63	
	64~71	Gobo 7 shake, from slow to fast
	72~79	Gobo 6 shake, from slow to fast
	80~87	Gobo 5 shake, from slow to fast
	88~95	Gobo 4 shake, from slow to fast
	96~103	Gobo 3 shake, from slow to fast
	104~111	Gobo 2 shake, from slow to fast
	112~119	Gobo 1 shake, from slow to fast
	120~127	Open
	128~191	Positive rainbow effect with increasing speed
	192~255	Negative rainbow effect with increasing speed
10 Gobo Rotation	0~63	Gobo rotation fixing
	64~147	Positive rotation with increasing speed
	148~231	Negative rotation with increasing speed
	232~255	Gobo bouncing
11 Channel function	0~7	Reserved
	8~15	Blackout while pan/tilt moving
	16~23	Disabled blackout while pan/tilt moving
	24~31	Blackout while colour wheel moving
	32~39	Disabled black while colour wheel moving
	40~47	Blackout while gobo wheel moving
	48~55	Disabled black while gobo wheel moving
	56~87	Reserved
	88~95	Blackout all moving
	96~103	Reset pan
	104~111	Reset tilt
	112~119	Reset Colour wheel
	120~127	Reset Gobo wheel
11 Channel function	128~135	Gobo rotation reset
	136~143	Prism reset
	144~151	Focus reset
	152~159	All channel reset
	160~255	Reserved

Channel	DMX value	Feature
12 Program built-in	0~7	Reserved
	8~23	Program built-in 1
	24~39	Program built-in 2
	40~55	Program built-in 3
	56~71	Program built-in 4
	72~87	Program built-in 5
	88~103	Program built-in 6
	104~119	Program built-in 7
	120~135	Program built-in 8
	136~151	Sound control 1
	152~167	Sound control 2
	168~183	Sound control 3
	184~199	Sound control 4
	200~215	Sound control 5
	216~231	Sound control 6
	232~247	Sound control 7
	248~255	Sound control 8

6 Control Channel

The device can also be controlled by 6 channel DMX512, details as follow:

Channel	DMX value	Feature
1 PAN	0~255	540°
2 TILT	0~255	270°
3 Colour wheel	0~4	White
	5~9	Yellow
	10~14	Pink
	15~19	Green
	20~24	Peachblow
	25~29	Blue
	30~34	Kelly
	35~39	Red
	40~44	Dark blue
	45~56	White or Yellow
	57~65	Yellow or Pink
	66~74	Pink or Green
	75~83	Green or Peachblow
	84~92	Peachblow or Blue
	93~101	Blue or Kelly
	102~110	Kelly or Red
	111~119	Red or Dark blue
	120~127	Dark blue or White

Channel	DMX value	Feature
3 Colour wheel	**128~191**	**Positive rainbow effect with increasing speed**
	192~255	**Negative rainbow effect with increasing speed**
4 Shutter	**0~3**	**Close**
	4~7	**Open**
	8~215	**Strobe effect with increasing speed**
	210~255	**Open**
5 Gobo wheel		
	64~71	**Gobo 7 shake, from slow to fast**
	72~79	**Gobo 6 shake, from slow to fast**
	80~87	**Gobo 5 shake, from slow to fast**
	88~95	**Gobo 4 shake, from slow to fast**
	96~103	**Gobo 3 shake, from slow to fast**
	104~111	**Gobo 2 shake, from slow to fast**
	112~119	**Gobo 1 shake, from slow to fast**
	120~127	**Open**
	128~191	**Positive rainbow effect with increasing speed**
	192~255	**Negative rainbow effect with increasing speed**
Gobo Rotation	**0~63**	**Gobo rotation fixing**
	64~147	**Positive rotation with increasing speed**
	64~147	**Negative rotation with increasing speed**
	232~255	**Gobo bouncing**

Control Board

Password channel

Service Function. Press the **MODE/ESC** button for 10 seconds. Then press the **UP/DOWN** buttons, to enter the password 2323 and enter the function.

P128 Adjustment for Pan

t128 Adjustment for Tilt

G128 Adjustment for Gobo wheel

r128 Adjustment for Gobo Rotation

C128 Adjustment for Colour wheel

Press the **UP/DOWN** buttons repeatedly until you reach the desired adjustment. Press the **ENTER** button to confirm. It will auto exit after 10 seconds.

DMX: `d001`

`NASL` → Slow show
   ↳ `SLoU`

`NAFA` → Fast show
   ↳ `FASt`

`NStS` → Sound control show
   ↳ `SrUn`

`NStc` → East controller show
   ↳ `ccUn`

`SLAU` → Slave function Select
   ↳ `SonU` Slave

`PAN` → Pan inverted function
   ↳ `rPAN` Pan inverted

`tilt` → Tilt inverted function
   ↳ `rtit` Tilt inverted

`diS` → Display inverted function
   ↳ `rdiS` Display inverted

`A-Ch` → Switch channel mode
   ↳ `b-CH` Basic mode

`PAS4` → `PAS4` PAN 540°
      → `PA36` PAN 360°
      ↳ `PA18` PAN 180°

`tilt` → `ti27` TILT 270°
      → `ti18` TILT 180°
      ↳ `ti9` TILT 90°

`rESt` System reset

`LoAd` Lode default

Maintenance

To keep up proper ventilating and lighting effects, clean the fan and lens regularly. Wipe the housing only with a slightly damp cloth. Never use aggressive cleansers.

Disposal

Do not dispose of the device at the end of his operating life in your normal domestic waste. This device is subject to the European Guidelines 2002/96/EC.

- Have the product disposed of by a professional disposal company of by your communal disposal facility.
- Observe the currently applicable regulations. In case of doubt contact your disposal facility.
- Dispose of packaging materials in an environmentally responsible manner.

Technical Specification

Power supply:	AC230V, 50Hz
Power consumption:	102W
Fitting lamp:	LED 25W LED
DMX control channels:	6 or 12, select from control board
Colour:	8 + open + rainbow
Gobo wheel:	7 gobo + open + rainbow
Shutter:	Flash rate: 0-10Hz
Dimmer:	0~100% mechanic dimmer
Maximum PAN-movement:	540°
Maximum TILT -movement:	270°
Master/Slave	activated by sound at pre-programmed function.

As we continuously strive to improve our products, all specifications and appearance are subject to change without prior notice.