

**Magic *D* Series**

  
***Panther***

  
***Jaguar***

  
***Puma***

# **User Guide**

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Professional Entertainment Technology

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## A. GENERAL INSTRUCTIONS

*Please read the enclosed User Guide carefully as they include important points about safety for the installation, usage and maintenance of the unit.*

- Please keep this booklet with the unit for future consultation. If **you** sell the unit to another user, be sure that the new user also receives this instruction booklet thus giving them the necessary information about the use and general warnings regarding the unit.
- Before the initial start-up, please unpack and carefully check all components in case any damage may have occurred during transportation.
- Locate in a suitable spot for your device where there is good ventilation. Also, make sure that no ventilating fans or slots are blocked.
- Protect our environment! Please dispose of the packing boxes properly.
- The electrical work that is necessary for installation must be done by qualified personnel.
- Always remember to unplug the unit from the main power before any service is **done**. Do not open the unit. There are no serviceable parts inside.
- It is very important to ground the yellow/green conductor to earth in order to meet regulations of safety.
- Check the surrounding area and make sure there are no flammable liquids, water or metal objects that could enter the fixture. If a foreign object enters the unit, immediately disconnect the main power. Also, place the fixture in a well-ventilated room at least about 15 cm from the walls.
- Do not touch any wires during operation, as high voltage is hazardous.
- In the event of serious operating problems, stop using the unit immediately. Never try to repair the unit yourself. Repairs carried out by unqualified personnel can lead to damage or malfunction. Please contact the nearest authorized Technical Assistance Center. Always use genuine spare parts.

- Voltage : AC 120V~60Hz or 230V/240V/250V~50/60 Hz
- **Bulb** : **EFP 12V 100W / JCR 15V 150W / ELC 24V 250W**
- The unit is DMX512 fixture. It features full DMX512 control, 14 **gobos/colors** plus open, accurate focusable optics system and stepper motor with blackout feature. Fan cooling.
- It can be operated by DMX512 control or can be used as an individual unit without a controller.
- It can be linked together in master/slave connection, as many as required in 4 channels and run by built-in program chase sequences automatically or by sound activation through an internal microphone to create an intelligent effect.
- Please use a 3 pin XLR cable/plug when connecting them together.
- It features different preprogrammed chase patterns.
- Dimensions : 263 x 314 x 202 mm (PUMA)  
470 x 314 x **245** mm (PANTHER/JAGUAR)
- Weight : 7.7 kg (PUMA)  
10 kg (PANTHER/JAGUAR)

**ELC 24V 250W**

**JCR 15V 150W ( upon request )**

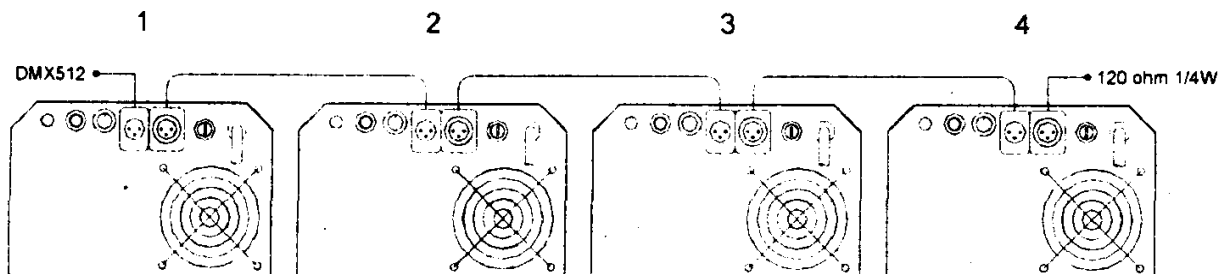
**EFP 12V 100W ( upon request )**

- Always switch off the mains supply and never handle the lamp or luminaire when it is hot.
- Do not touch the bulb with bare hands. If this does happen, clean the lamp with denatured alcohol and wipe with a lint free cloth before installing.

## D. HOW TO CONTROL THE UNIT

### ( 1) By universal DMX controller

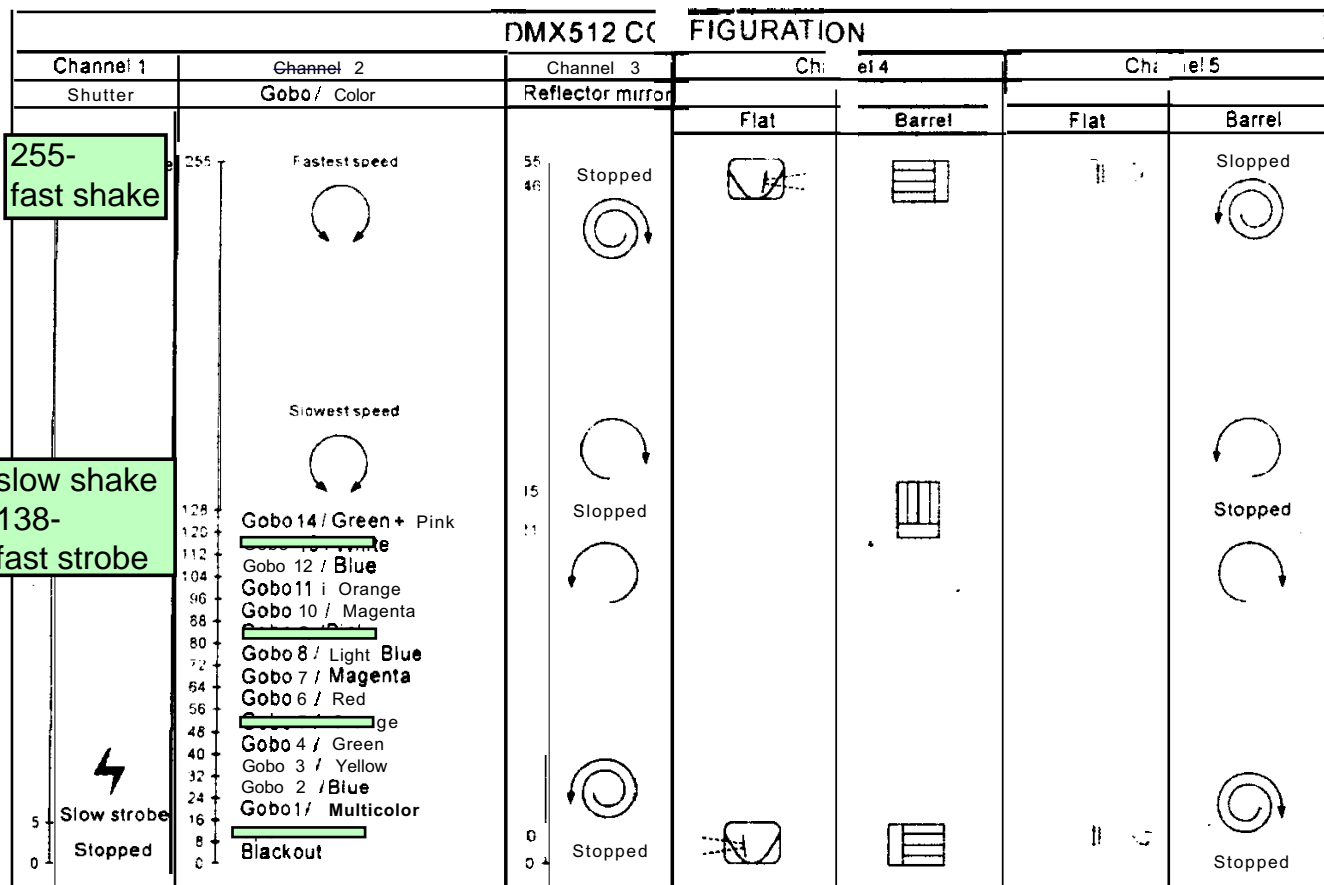
The DMX512 is widely used in intelligent lighting control, with a maximum of 512 channels.



Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal. (Resistance 120 ohm **1/4W**) between pin2 (DMX-) and pin3 (DMX+) of the last fixture.



- A DMX512 system requires a controller, lighting equipment and cable. These are connected together in a “daisy chain” with the terminator at the end. The cable cannot be branched or split to a “Y” cable.
- The terminator requires a 90-120 Ohm **1/4** Watt resistor soldered between two signal cables.
- The **DMX512** uses a very high-speed signal. Inadequate or damaged cables, bad solder joints or corroded connectors can easily distort the signal and shut down the system. A reliable **DMX512** system starts with good quality cables.
- Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511. The end of the DMX512 system should be terminated reducing signal errors.
- 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 (+)



\* PANTHER is with shaking function in channel 1 DMX leave value 136-255

• Start the address (PUMA- 3 channels; PANTHER/JAGUAR- 5 channels)

How to address your DMX512 system:

1. Select the channels of DMX controller 2. Dipswitches

Dip		#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Value	i	2	4	8	16	32	64	128	256	option	

• Examples: ( for PANTHER/ JAGUAR )

Channel 01 : dip / on : #1(=1)

Channel 06 : dip / on : #2, #3 ( 2+4=6 )

Channel 11 : dip / on : #1, #2, #4 (1+2+8=11)

Channel 16 : dip / on : #5(=16)

## ( 2 ) Preprogrammed functions

The PUMA can be linked together as master/slave in 2 or 4 channels and run by built in program chase sequences by sound activation. When sound stops, all the lights will shut down (blackout) immediately and then the bulb will turn off 15 seconds later. Please refer to the unit dipswitch-setting table for how to set the dipswitches to achieve master/slave linking.

\*In master/slave mode, the dipswitch 10 on the master unit must be in the position " on ".

2-Channels dip switches setting	
Master	↓ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> ON 1 2 3 4 5 6 7 8 9 10
Slave 1	↓ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ON 1 2 3 4 5 6 7 8 9 10

4-Channels dip switches setting	
Master	↓ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> ON 1 2 3 4 5 6 7 8 9 10
Slave 1	↓ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ON 1 2 3 4 5 6 7 8 9 10
Slave 2	↓ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ON 1 2 3 4 5 6 7 8 9 10
Slave 3	↓ <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> ON 1 2 3 4 5 6 7 8 9 10

PANTHER /JAGUAR can be linked together as master/slave in daisy chain as many as required and run by built in program chase sequences automatically or by sound activation. **Not need to set the dipswitches in master/slave mode.**

When linking the PANTHER and the JAGUAR in stand-alone mode, the JAGUAR must be used as the master head.

### \* 2-light show ( for PANTHER / JAGUAR only )

Dipswitch 10 "off" means the unit works normally and "on" means inversion. In order to creating a great light show, you can set dip switch 10 "on" on any unit that is linking to the master unit to get contrast movement to each other, even if you have two units only. Dipswitch 10 on the first unit is no use in the DMX linking, as it is the master unit that operates the light show.

### ( 3) *By easy controller CA-6*

The easy remote control is used only in master/slave mode. By connecting to the 1/4" microphone jack of the first unit (its DMX input plug is not used), 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** : Stand by and blackout all the units.

2. **STROBE/NEXT** : Press the button and keep pressed down, when the unit is in fast mode, it will strobe by sound. Strobe function is only effective while the button is held down. It has three strobe modes. If the unit is in slow mode, press the **NEXT** button for desired colors and gobos. It will change ten colors and then change one gobo.

3. **FAST/SLOW** : When the LED is off, it is in **FAST** Mode. The unit's movements is sound activated. If the LED on, it is in **SLOW** mode controlled by **NEXT** button.

