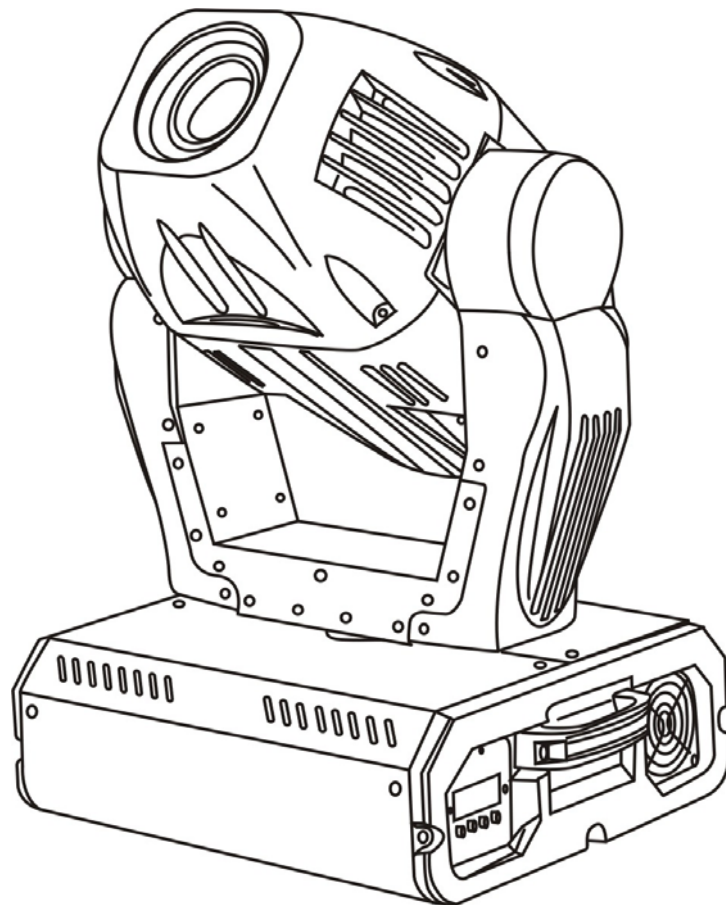


TANGO 700, M-700

USER MANUAL



SAFETY INFORMATION

PROTECTION FROM ELECTRIC SHOCK

Warning! *This product is for professional use only. It is not for household or residential use.*

This product presents risks of lethal or severe injury due to fire and heat, electric shock, ultraviolet radiation, lamp explosion, and falls. Read this manual before powering or installing the fixture, follow the safety precautions listed below and observe all warnings in this manual and printed on the fixture. If you have any question about how to use this fixture safely, please contact your Entar dealer.

Warning! *Always disconnect from mains supply before replacing the lamp.*

Disconnect the fixture from AC power before removing or installing the lamp, fuse, or any part, and when not in use.

Always ground (earth) the fixture electrically.

Use only a source of AC power that complies with local building and electrical codes and has both overload and ground-fault protection.

Do not expose the fixture in rain and moisture.

Refer any service operation not described in this manual to a qualified technician.

PROTECTION FROM UV RADIATION AND LAMP EXPLOSION

Never operate the fixture with missing or damaged lenses and/or covers.

When replacing the lamp, allow the fixture to cool for at least 15 minutes before opening the fixture or removing the lamp. Protect your hands and eyes with gloves and safety glasses.

Do not stare directly into the light. Never look at an exposed lamp while it is lit.

Replace the lamp if it becomes defective or worn out, or before usage exceeds the maximum service life.

PROTECTION FROM BURNS AND FIRE

Danger! *Intense heat. Avoid contact by persons and materials.*

The exterior of the fixture can get very hot – up to 120° C. Allow the fixture to cool for at least 45 minutes before handling.

Prolonged exposure to unshielded lamp can cause eye and skin burns.

Never attempt to bypass the thermostatic switch or fuses. Always replace defective fuses with ones of the specified type and rating.

Keep all combustible materials (for example fabric, wood, paper) at least 1 meter away from the fixture.

Keep flammable materials well away from the fixture.

Do not illuminate surfaces within 3 meters (10 feet) of the fixture.

Provide a minimum clearance of 0.1 meters around fans and air vents.

Never place filters or other materials over the lens.

INTRODUCTION

MAIN FEATURES

540° pan and 270° tilt
DMX channels: 16
Lamp: Philips MSR 700 SA (optional)
Power consumption: 800W
Prism: rotating three faces prism
Color: two color wheels
Rotating gobos: 6 indexable, changeable
Static gobos: 9
Focus: Motorized
Stepped zoom: 15°, 18°, 22°
Iris: motorized iris
Dimmer/shutter: Full range dimming and 1~10 f.p.s. strobe
Speed: pan and tilt speed adjustment

SETUP

UNPACKING

The Tango 700 comes with:

User manual

Power cable

2x XLR connectors

Lamp and clamps are optional (Please contact your dealer for more information)

AC POWER

Warning! *For protection from electric shock, the fixture must be grounded (earthed). The power supply shall have overload and ground-fault protection.*

RIGGING OR MOUNTING THE TANGO 700

Warning! *Attach an approved safety cable to the attachment point provided in the base. Never use the carrying handles for secondary attachment. Always use an approved safety cable.*

CONNECTING THE SERIAL DATA LINK

The Tango 700 has locking 3-pin data input and output sockets that are wired for use with DMX devices with pin 1 to shield, pin 2 to cold(-) and pin 3 to hot(+).

1. Connect the controller's output to the fixture's data input.
2. Connect the output of the fixture closest to the controller to the input of the next fixture. If connecting a fixture with pin 3 hot to a fixture with pin 3 cold, use a phase-reversing adaptor.
3. To terminate the link, insert a male 120Ω XLR termination plug in the output of the last fixture.

TIPS FOR BUILDING A SERIAL LINK

- Use shielded twisted-pair cable designed for RS-485 devices: standard microphone cable cannot transmit DMX data reliably over long runs. For links up to 300 meters (1000 ft.) long, you can use 24 AWG, low capacitance, 85-150 ohm characteristic impedance, shielded cable with 1 or more twisted pairs. For runs up to 500 meters (1640 ft.) use 22 AWG cable. Use an amplifier if the serial link exceeds 500 meters.
- Never use a "Y" connector to split the link. To split the serial link into branches use a splitter.
- Do not overload the link. Up to 32 devices may be connected on a serial link.
- Terminate the link by installing a termination plug in the output socket of the last fixture on the link. The termination plug, which is simply a male XLR connector with a 120 ohm, 0.25 watt resistor soldered between pins 2 and 3, "soaks up" the control signal so it does not reflect back down the link and cause interference. If a splitter is used, terminate each branch of the link.

CONTROL PANEL

MENU NAVIGATION

The DMX address is displayed after the fixture resets. To enter the menu, press [mode]. Use the [up] and [down] keys to select an option.

SETTING THE DMX MODE

1. Apply power to the Tango 700. Press [mode] to enter the Addr mode.
2. Select a DMX starting address by using the [up] and [down] keys.
3. Store the DMX starting address by pressing the [mode].

MOVEMENT

The Tango 700 provides 2 menus with options for optimizing movement to suit different applications.

(PAN->YES) allows you to reverse pan movement.

(Tilt->YES) allows you to reverse tilt movement.

RESET

The Tango 700 can be reset without switching off the power supply (RSET).

1. Press [mode] to enter the (rSEt) mode.
2. Press [up] or [down] key to reset the fixture.

OPERATING MODES

The Tango 700 can run in 3 modes: DMX, sound activation and auto. The fixtures can run in master/slave mode with sound activation.

To activate sound trigger, press [mode] to enter (RUN), then press [up] or [down] key to select (PRG0).

To run the built-in sequences, press [mode] to enter (RUN), then press [up] or [down] key to select (PRG1).

To set a fixture run as a slave unit, press [mode] to enter (RUN), then press [up] or [down] key to select (FOLL).

DMX PROTOCOL

DMX channel	Value	Function
1	0-255	Pan (127 = neutral) Reset When channels 1, 2, 3, 4 at 255 at the same time
2	0-255	Tilt (127 = neutral)
3	0-255	Pan fine
4	0-255	Tilt fine
5	0-255	Pan / Tilt speed Fast → slow
6	0-255	Focus
7	0-18 19-38 39-58 59-78 79-98 99-118 119-138 139-158 159-178 179-199 200-255	Color wheel #1 Clear Magenta Yellow Cyan Pink Light green Red Purple Orange Green Rainbow, slow → fast
8	0-24 25-50 51-76 77-102 103-128 129-154 155-180 181-207 208-233 234-255	Color wheel #2 Clear Purple Yellow Orange Cyan Magenta Red Violet 3200K 6500K
9	0-3 4-127 128-131 132-255	Rotating prism Still Clockwise, slow → fast Still Anti-clockwise, slow → fast
10	0-18 19-38 39-58	Fixed gobo wheel Clear Gobo #1 Gobo #2

	59-78 79-98 99-118 119-138 139-158 159-178 179-199 200-255	Gobo #3 Gobo #4 Gobo #5 Gobo #6 Gobo #7 Gobo #8 Gobo #9 Rainbow, slow → fast
11	0-35 36-72 73-109 110-146 147-183 184-220 221-255	Rotating gobo wheel Clear Gobo #1 Gobo #2 Gobo #3 Gobo #4 Gobo #5 Gobo #6
12	0-39 40-157 158-255	Gobo rotating Still Clockwise, slow → fast Anti-clockwise, slow → fast
13	0-255	Iris Open → close
14	0-32 33-65 66-127 128-170 171-213 214-255	Stepped zoom 15° 18° 22° 15° 18° 22°
15	0-19 20-250 251-255	Shutter / strobe Close Strobe slow → fast Open
16	0-255	Dimmer Closed → open