



MOVING HEAD

EXPOLITE

DRAGON IP 700



FRAMING
SYSTEM

VIVID CMY
COLOUR MIXING

3.8°-50°
LINEAR ZOOM

USER MANUAL

SUMMARY

1. INTRODUCTION

2. TECHNICAL PARAMETER

3. DIMENSION

4. PHOTOMETRIC

5. DISPLAY

6. DMX 512 CONNECTION

7. ERROR MESSAGES

8. CLEANING AND MAINTENANCE

1. INTRODUCTION

Thank you for selecting the DRAGON IP 700.

! WARNING! This product is not suitable for household use.

You now own a professional lighting unit that offers endless possibilities. Before installing, make sure that no damage was done to your luminaire during transport. For your own safety and that of others, please read this instruction manual carefully before installing the unit.

Anyone involved in installing, operating or servicing the DRAGON IP 700 must:

- Be a qualified, authorized professional
- Strictly follow the instructions in this user manual.

Please take the time to read this manual carefully and thoroughly before installing and operating the DRAGON IP 700. You should have a good knowledge of its operating conditions and all pertinent product information. After you have become familiar with this manual, we recommend that you keep a copy for future use. All the information found in this manual is subject to change without notice.

SAFETY INSTRUCTIONS

Please read the safety instructions and warnings in this manual carefully before installing and operating the DRAGON IP 700.

! WARNING! Risk of electric shock. Use caution when handling. This fixture requires high voltage, which can result in electric shock.

The fixture left our factory in perfect working condition. However, if you notice a defect, immediately contact your authorized DRAGON IP 700 dealer before use. The manufacturer cannot be held responsible for damages caused by a failure to follow the safety, installation or assembly instructions contained herein, or by any modification made to the DRAGON IP 700. Failure to observe the safety, installation or assembly instructions contained herein, or any modification made to the DRAGON IP 700 will render the warranty null and void.

Check that the supply voltage does not exceed the maximum authorized limit. Check that your electrical installation complies with current standards. In all cases, make sure that the power cables attached to your fixture have not been damaged due to cuts and splices or crushed in any way. Handle these cables with extreme caution while they are connected to a power source.

Your DRAGON IP 700 conforms to Class 1 safety standards. The unit must be grounded electrically. Make sure that the power source connected to your fixture is switched off before attempting any work on it. Installation and connection to an electrical source must be performed by an authorized installer. Our factory declines all responsibility should this fixture be installed by an unqualified person.

Never disconnect your fixture by pulling on the power cable! First unlock the connector lock ring on the power cable until it is fully disengaged, and then gently pull on the connector to disconnect the cable. Do not connect or disconnect the power cable of your fixture with wet hands. At first use, your fixture may give off an odor. This is a normal occurrence that should dissipate after a few minutes of operation.

! WARNING! Do not connect or disconnect the power cable at your fixture if the cable is energized! This could cause arcing and damage to your fixture, requiring repair. Be careful to power off your fixture by removing the power plug from the source, before connecting or disconnecting the fixture.

Never look directly into the lamps if lit or stand directly in line with the fixture if close by. Installation, removal or replacement of the unit must be performed with power off to prevent any risk of glare and eye injury.

! WARNING! The fixture quickly becomes very hot during operation. To avoid risk of burn, never handle or adjust the fixture while it is energized and after it has been lit for more than 10 consecutive minutes. Some parts of the fixture can reach a high temperature, particularly the body/radiator. Turn off the fixture and wait for it to cool before handling.

CONDITIONS OF USE

Your DRAGON IP 700 is a moving-head luminaire equipped with LED source intended for professional use (e.g., architectural, stage, television, theater, or museum lighting). The DRAGON IP 700 has an IP66 protection rating.

Condensation may form on your DRAGON IP 700 in the following cases:

- Immediately after turning on the heating
- In places with fog or a high level of humidity
- When the luminaire is suddenly moved from a cold to a warm environment, or vice versa.

In such cases, you must wait until the luminaire readjusts to the ambient temperature of the room where it will be installed for operation. Do not shake the DRAGON IP 700 while installing or handling. Do not pull the fixture by one of its cables to move it. Lift the fixture by its handles.

Choosing the appropriate place to install the fixture is essential. The following points should be observed:

- Do not expose it to a heat source.
- Do not install it near flammable materials.
- Be sure that dust or miscellaneous debris cannot clump around the body of the luminaire as this may interfere with its optimal cooling and proper operation.
- The DRAGON IP 700 must be installed out of reach of the public and all persons not authorized to operate the luminaire.

We recommend a minimum distance of 5 m between the outside surface of the light and the illuminated object. Due to the nature of its cooling principle, you should never prevent air from circulating around the body of the fixture. You must provide a minimum clearance around your fixture to allow for cooling.

The fixture can be installed in a ground pit or any other confined enclosure only under certain conditions. With this kind of installation, a system of forced ventilation should be used up to allow air to circulate freely around the fixture. The air must be constantly renewed because the luminaire cannot be operated in closed system. Failure to comply with these requirements may destroy or prematurely wear the fixture, and manufacturer cannot be held responsible. Please consult your DRAGON IP 700 dealer for more information on this type of installation.

No load should be placed on the DRAGON IP 700. The fixture must not be installed in such a way as to allow a person, vehicle or any object to run over or park on it.

Never lay or drop any hard, heavy, or blunt, objects on the fixture. This includes items made of glass or porcelain (e.g., bottles, dishware, or glass beads). The fixture is made of materials such as plastic and extruded aluminum, making it resistant but not unbreakable. Objects made of hard materials such as steel or glass that fall on the unit may cause breakage of the plastic parts or the body. Our factory cannot be held responsible for the fixture's broken plastic parts or body, which are not covered under warranty.

The temperature of the room where the fixture is installed must never exceed 45°C ($T_a = 45^\circ\text{C}$). The fixture requires an AC 100~240 V supply voltage. Check that your fixtures have been installed for an application that is compatible with this information. Check that the brackets on which you hang or attach your fixture can sustain the weight of the fixture (28kg), taking into consideration all necessary safety factors.

Do not use your fixture before being familiar with these recommendations and do not allow unqualified personnel to handle the product. To transport your DRAGON IP 700, we strongly recommend that you use the complete original packaging, including the dense protective foam inserts. If your DRAGON IP 700 is not being used for a long period, you should disconnect the fixture from the power source.

Never dispose of the fixture in a rubbish bin. Ensure that it is recycled. Please consult the current legislation in your country on recycling electronic equipment.

PRESENTATION AND FEATURES

DRAGON IP 700 is a waterproof moving head light (IP66 protection rating) using the latest generation of high-performance of LED-type lamps. This DRAGON IP 700 can be controlled remotely by an external DMX512 signal. The DRAGON IP 700 incorporates high power white LED source.

The DRAGON IP 700 requires from 42 to 65 DMX channels to be controlled via an external command system that sends a DMX512 signal (see below for details). To adjust the settings on the fixture (i.e., DMX address, DMX operating mode and other options), a Remote Device Management (RDM)-type DMX controller may be required. The DMX RDM protocol is a universal, widely used standard.

There are a multitude of RDM DMX controllers on the market from different manufacturers. It is worth noting that an RDM DMX controller is not required to change the settings on the fixture. A light console or any standard DMX-type controller is sufficient.

The DRAGON IP 700 consists of a metal frame and plastic covers. The power connectors and DMX512 signal connectors are on the back of the fixture's base.



2. TECHNICAL PARAMETER

POWER

Voltage: AC 100~240 V, 50/60 Hz

Source: 680W white LED

Power consumption: 780 W

CT: 7200 K

Life: >20,000 H

MOVEMENT

Pan movement: 540° (16 bit)

Tilt movement: 270° (16 bit)

Advanced motion system: auto repositioning, fast, quiet and smooth

COLORS

1 color wheel with 7 colors + white
Interchangeable, indexable, bidirectional rainbow effect

CMY Colour Mixing

Linear CTO (2700K-7200K)

GOBOS

Rotating gobo wheel: 7 interchangeable gobo + open, indexable and gobo shaking effect

Static gobo wheel: 9 interchangeable gobo + open, indexable and gobo shaking effect

Animation Wheel: special dynamic flame effect

FRAMING SYSTEM

4 fast and smooth framing shutters
Each shutter blade position and angle can be controlled individually

Movement is fast & smooth, with adjustable speed

Framing shutters can be precise motion with smooth movement

Each shutter blade can block out light completely

The framing module can be rotated at +/- 90°

FEATURES

DMX channels: 42/65CH

Prism: 5 facet circular prism & one 4-facet linear, can rotate in both direction at variable speeds

Motorized Focus

Zoom: 3.8°- 50° linear zoom

Various strobe

5%-100% electronic Iris

2 Frost filters: Light 1° & Heavy 5°

Dimming: 0-100% linear dimming

DISPLAY & SOFTWARE

2.8 inch LCD display with English/Chinese menu

Auto lock and display flip

Pan/Tilt reverse

Remote reset DMX address, fixture reset

Sound control by DMX

OTHER SPEC

Input signal isolation

Optional ArtNET control

RDM compatible

Self-adjusting variable speed fans

Excess-temperature protection



ROTATING GOBO WHEEL · 7 GOBOS + OPEN



STATIC GOBO WHEEL · 9 GOBOS + OPEN

3. DIMENSION

DIMENSIONS AND WEIGHT

Dimension: 418 x 300 x 655 mm

Packing Dimension: 67 x 58 x 52.5 cm

Net Weight: 28 KG

Gross Weight: 32 KG

Dimensions in mm.



4. PHOTOMETRIC

3.8°	5 m	10 m	15 m	20 m	25 m	30 m
Illuminance (lux)	106000	29100	12800	7930	4980	3530
Beam diameter (m)	0.35	0.7	1.05	1.4	1.8	2.1

50°	5 m	10 m	15 m	20 m	25 m	30 m
Illuminance (lux)	2280	903	725	520	386	282
Beam diameter (m)	4.85	9.89	14.5	19.5	23.7	28.8

Linear zoom range 3.8° – 50°.

5. DISPLAY

Display: To show the various menus and the selected function.

Button:

MENU	To enter into move backward or leave the menu
UP	To go backward or move up in the menu
DOWN	To go to move down in the menu
ENTER	To perform the desired functions

ETHERNET: Transfers fixture's information to a main controller.

DMX input: For DMX 512 operation, use 3/5-pin XLR plug cable to link the units together.

DMX output: For DMX 512 operation, use 3/5-pin XLR plug cable to link the units together.

HOW TO SET THE UNIT

Turn on the unit, press the **MENU** button into menu mode, and press the **UP/DOWN** button until the required function is shown on the monitor, select the function by the **ENTER** button. Use the **UP/DOWN** button to choose the SUB-Menu, press the **ENTER** button to store and automatically return to the last menu. Press the **MENU** button or let the unit idle one minute to exit menu mode. The main functions are shown below:

MAIN MENU	SUBMENU	CHOICES	VALUES
Set config	Address		001~512
	Channel mode	Standard (42CH)	
		Extended (65CH)	
	Mode	DMX	
		Slave	
		Auto — Auto Speed	0~255
		Sound — Sensitivity	0~255
Fixture settings	No DMX	Blackout	
		Freeze	
	Pan Reverse	OFF / ON	
	Tilt Reverse	OFF / ON	
	Encoders	OFF / ON	
	Display Reverse	OFF / ON	
	Fan Set	Silent / Auto / High	
	Dimmer Curve	Square Law / Inv SQ Law / Linear / S Curve	
	Dimmer Mode	Standard / Stage / TV / Architecture / Theatre	
	Dimmer Frequen	800Hz / 1200Hz / 3600Hz / 5000Hz / 10KHz / 15KHz / 20KHz / 25KHz	
	Gobo Correction	OFF / ON	
Defaults	Factory Load	OFF / ON	
	User Load	OFF / ON	
	User save	OFF / ON	

Language		English / Chinese	
User Time		Password	*****
Time Information	Time Info	Current Time	***h
		Total Run Time	***h
		LED Run Time	***h
	Temp Unit	Celsius / Fahrenheit	
	Error Info	No Error Record	
	Model Info	Software Ver	V1.00
Manual	Test	OFF / ON	
	Manual Control	Pan	0~255
		Pan Fine	0~255
Tilt		0~255	
	Tilt Fine	0~255	
	Pan/Tilt Speed	0~255	
	Strobe	0~255	
	Dimmer	0~255	
	Reserved	0~255	
	Reserved	0~255	
	Reserved	0~255	
	Zoom	0~255	
	Focus	0~255	
	Auto Focus	0~255	
	Auto Focus Fine	0~255	
	Color Wheel	0~255	
	Cyan	0~255	
	Magenta	0~255	
	Yellow	0~255	
	CTO	0~255	
	Fix Gobo wheel	0~255	
	Rot Gobo Wheel	0~255	
	Gobo Rot	0~255	
	Animation wheel	0~255	
	Iris	0~255	
	Prism 1	0~255	
	Prism 1 Rot	0~255	
	Prism 2	0~255	
	Prism 2 Rot	0~255	
	Frost 1	0~255	
	Frost 2	0~255	
	Blade 1A	0~255	
	Blade 1B	0~255	
	Blade 2A	0~255	

	Blade 2B	0~255
	Blade 3A	0~255
	Blade 3B	0~255
	Blade 4A	0~255
	Blade 4B	0~255
	All Blade Rot	0~255
Reset	All	
	Pan&Tilt	
	Color	
	Gobo	
	Other	
Calibrate	Password	(008)
	Pan	0~255
	Tilt	0~255
	Color Wheel	0~255
	Cyan	0~255
	Magenta	0~255
	Yellow	0~255
	Fixed Gobo Wheel	0~255
	Rot Gobo Wheel	0~255
	Gobo Rot	0~255
	Zoom	0~255
	Focus	0~255
	Iris	0~255
	Prism1	0~255
	Prism1 Rot	0~255
	Prism2	0~255
	Prism2 Rot	0~255
	Frost 1	0~255
	Frost 2	0~255
	Blade 1A	0~255
	Blade 1B	0~255
	Blade 2A	0~255
	Blade 2B	0~255
	Blade 3A	0~255
	Blade 3B	0~255
	Blade 4A	0~255
	Blade 4B	0~255
	All Blade Rot	0~255

6. DMX 512 CONNECTION

Connect the DMX input (XLR connector) cable of the luminaire to the DMX output (female XLR connector) of your controller. You can connect multiple fixtures to this same DMX line in a daisy chain. The DMX cable must be a shielded twisted pair that is equipped with male and female XLR connectors.

3-PIN XLR

- 1: Ground
- 2: Signal (-)
- 3: Signal (+)

5-PIN XLR

- 1: Ground
- 2: Signal (-)
- 3: Signal (+)
- 4: N.A. · 5: N.A.

USING DMX VIA ART-NET

To control the fixture via ArtNet, the fixtures must be interconnected with RJ45 cable. Be careful to set all necessary information regarding the ART-NET configuration with universe being used and specify in the menu that the fixture is being controlled through ART-NET (see OPTION DETAILS in the « OPTIONS » menu).

THE DRAGON IP 700 DMX ADDRESS SETTING

All DRAGON IP 700 must have a DMX start address correctly set when using a DMX signal to control them. The DMX start address is the channel from which the DRAGON IP 700 “listens” to the digital control information sent by the DMX controller.

The start address must conform to the one set on the DMX controller to control the fixture. This address is the DMX value that appears on the fixture’s display. You can set the same address for all the fixtures, or some of them, but you can also set a different address for each fixture, as needed.

If you do set the same address for all the fixtures, they will all “listen” from the DMX channel you have set. The instructions sent by the DMX controller will affect all fixtures at the same time. If you set a different address per fixture, the DMX controller can control each independently. If, for instance, the fixtures are preset in 42-channel DMX mode (required for full control), you will need to adjust the DMX address for the luminaires as follows: The first unit with DMX address 001, the second with DMX address 043 (42 + 1), the third with DMX address 085 (043 + 42), etc.

CHANNEL OVERVIEW

CH	STANDARD (42CH)	EXTENDED (65CH)
1	PAN Movement 8bit	PAN Movement 8bit
2	Pan Fine 16bit	Pan Fine 16bit
3	TILT Movement 8bit	TILT Movement 8bit
4	Tilt Fine 16bit	Tilt Fine 16bit
5	Pan Motor continuous rotation	Speed Pan/Tilt movement
6	Tilt Motor continuous rotation	Pan Motor continuous rotation
7	Shutter, strobe	Tilt Motor continuous rotation
8	Dimmer intensity	Shutter, strobe
9	Fine Dimmer intensity	Dimmer intensity
10	Zoom	Fine Dimmer intensity
11	Zoom Fine	Zoom
12	Focus	Zoom Fine

13	Focus Fine	Focus
14	Color Wheel	Focus Fine
15	Color Wheel Fine	Auto Focus
16	Cyan Color	AutoFocus Fine
17	Magenta Color	Color Wheel
18	Yellow Color	Color Wheel Fine
19	CTO Color	Cyan Color
20	Reserved	Cyan Color Fine
21	Rotating gobos	Magenta Color
22	Rotating gobo index	Magenta Color Fine
23	Rotating gobo indexing Fine	Yellow Color
24	Fixed Gobo2	Yellow Color Fine
25	Animation wheel	CTO Color
26	Iris	CTO Color Fine
27	Prism 1	Reserved
28	Rotating prism index	Reserved
29	Prism 2	Reserved
30	Rotating prism index	Reserved
31	Frost 1	Reserved
32	Frost 2	Rotating gobos
33	Blade 1A	Rotating gobo index
34	Blade 1B	Rotating gobo indexing Fine 1
35	Blade 2A	Fixed Gobo2
36	Blade 2B	Animation wheel
37	Blade 3A	Iris
38	Blade 3B	Iris Fine
39	Blade 4A	Prism 1
40	Blade 4B	Rotating prism index
41	All Blade Rotation	Rotating prism indexing Fine
42	Reset, LCD, Fans	Prism 2
43		Rotating prism index
44		Rotating prism indexing Fine
45		Frost 1
46		Frost 2
47		Blade 1A
48		Blade 1A Fine
49		Blade 1B
50		Blade 1B Fine
51		Blade 2A
52		Blade 2A Fine
53		Blade 2B
54		Blade 2B Fine
55		Blade 3A
56		Blade 3A Fine
57		Blade 3B
58		Blade 3B Fine
59		Blade 4A
60		Blade 4A Fine
61		Blade 4B
62		Blade 4B Fine

63	All Blade Rotation
64	All Blade Rotation Fine
65	Reset, LCD, Fans

DMX 512 CONFIGURATION

Please refer to below configurations to control the fixtures. Attention:

1. The unit will maintain the last condition until reset if you cut off the DMX signal.
2. For the channel Function, keep the value for about 5 seconds, then the corresponding function will take into effect.

42CH	65CH	FUNCTION / VALUE	DEF.
1	1	PAN Movement 8bit	128
		0-255 Pan Movement	
2	2	Pan Fine 16bit	0
		0-255 Fine control of Pan movement	
3	3	TILT Movement 8bit	128
		0-255 Tilt Movement	
4	4	Tilt Fine 16bit	0
		0-255 Fine control of Tilt movement	
-	5	Speed Pan/Tilt movement	0
		0-225 max to min speed	
		226-235 blackout by movement	
		236-245 blackout by all wheel changing	
		246-255 no function	
5	6	Pan Motor continuous rotation	0
		0-63 stop rotation by spinout	
		64-127 stop rotation by shortcut	
		128-189 Forwards Pan rotation from fast to slow	
		190-193 No rotation	
		194-255 Backwards Pan rotation from slow to fast	
6	7	Tilt Motor continuous rotation	0
		0-63 stop rotation by spinout	
		64-127 stop rotation by shortcut	
		128-189 Forwards Tilt rotation from fast to slow	
		190-193 No rotation	
		194-255 Backwards Tilt rotation from slow to fast	
7	8	Shutter, strobe	15
		00-10 Shutter closed	
		11-20 No function (shutter open)	
		21-117 Strobe effect slow to fast	
		118-126 No function (shutter open)	
		127-180 Pulse-effect in sequences	
		181-191 No function (shutter open)	
		192-245 Random strobe effect slow to fast	
		246-255 No function (shutter open)	
8	9	Dimmer intensity	0
		0-255 Intensity 0 to 100%	
9	10	Fine Dimmer intensity	

		0-255	Dimmer intensity fine	
10	11	Zoom		128
		0-255	Zoom adjustment from small to big	
11	12	Zoom Fine		0
		0-255	Zoom adjustment Fine	
12	13	Focus		128
		0-255	Continuous adjustment from near to far	
13	14	Focus Fine		0
		0-255	Continuous adjustment Fine	
-	15	Auto Focus		0
		0-50	Auto Focus Off	
		51-100	5m	
		101-150	7.5m	
		151-200	10m	
		201-255	15m	
-	16	AutoFocus Fine		0
		0-255	Continuous adjustment Fine	
14	17	Color Wheel		0
		00-3	Open / white	
		4-7	Color 1	
		8-11	Color 2	
		12-15	Color 3	
		16-19	Color 4	
		20-23	Color 5	
		24-27	Color 6	
		28-31	Color 7	
		32-127	Color indexing	
		128-189	Forwards rainbow effect from fast to slow	
		190-193	No rotation	
		194-255	Backwards rainbow effect from slow to fast	
15	18	Color Wheel Fine		0
		0-255	Color Wheel colour change to any position Fine	
16	19	Cyan Color		0
		0-255	Cyan (0-white, 255-100% Cyan)	
-	20	Cyan Color Fine		0
		0-255	Cyan Fine	
17	21	Magenta Color		0
		0-255	Magenta (0-white, 255-100% magenta)	
-	22	Magenta Color Fine		0
		0-255	Magenta Fine	
18	23	Yellow Color		0
		0-255	Yellow (0-white, 255-100% Yellow)	
-	24	Yellow Color Fine		0
		0-255	Yellow Fine	
19	25	CTO Color		0
		0-255	CTO (0-white, 255-100% CTO)	
-	26	CTO Color Fine		0
		0-255	CTO Fine	
20	27	Reserved		0

		Reserved	
-	28	Reserved	0
		Reserved	
-	29	Reserved	
		Reserved	
-	30	Reserved	
		Reserved	
-	31	Reserved	
		Reserved	
21	32	Rotating gobos, cont. rotation 1	0
	00-9	Open	
	10-19	Rot. gobo 1	
	20-29	Rot. gobo 2	
	30-39	Rot. gobo 3	
	40-49	Rot. gobo 4	
	50-59	Rot. gobo 5	
	60-69	Rot. gobo 6	
	70-77	Rot. Gobo 7	
	78-93	Gobo 1 shake slow to fast	
	94-109	Gobo 2 shake slow to fast	
	110-125	Gobo 3 shake slow to fast	
	126-141	Gobo 4 shake slow to fast	
	142-157	Gobo 5 shake slow to fast	
	158-173	Gobo 6 shake slow to fast	
	174-189	Gobo 7 shake slow to fast	
	190-221	Gobo wheel rotation forwards from fast to slow	
	222-223	No rotation	
	224-255	Gobo wheel rotation backwards from slow to fast	
22	33	Rotating gobo index, rotating gobo rotation 1	0
	0-127	Gobo indexing	
	128-189	Forwards gobo rotation from fast to slow	
	190-193	No rotation	
	194-255	Backwards gobo rotation from slow to fast	
23	34	Rotating gobo indexing Fine 1	0
	0-255	Fine indexing	
24	35	Fixed Gobo2	0
	00-9	open	
	10-19	Gobo 1	
	20-29	Gobo 2	
	30-39	Gobo 3	
	40-49	Gobo 4	
	50-59	Gobo 5	
	60-69	Gobo 6	
	70-79	Gobo 7	
	80-89	Gobo 8	
	90-99	Gobo 9	
	100-109	Gobo 1 shake slow to fast	
	110-119	Gobo 2 shake slow to fast	
	120-129	Gobo 3 shake slow to fast	
	130-139	Gobo 4 shake slow to fast	

		140-149	Gobo 5 shake slow to fast	
		150-159	Gobo 6 shake slow to fast	
		160-169	Gobo 7 shake slow to fast	
		170-179	Gobo 8 shake slow to fast	
		180-189	Gobo 9 shake slow to fast	
		190-221	Clock-wise scroll from fast to slow	
		222-223	Reserved	
		224-255	Counter clock-wise scroll from slow to fast	
25	36	Animation wheel		0
		00-7	No rotation	
		8-127	Forwards rotation from fast to slow	
		128-135	No rotation	
		136-255	Backwards rotation from slow to fast	
26	37	Iris		0
		0-191	Max. diameter to Min. diameter	
		192-223	Pulse closing fast to slow	
		224-255	Pulse opening slow to fast	
-	38	Iris Fine		0
		0-255	Iris Fine	
27	39	Prism 1		0
		0-127	Open	
		128-255	Prism 1	
28	40	Rotating prism index, rotating prism rotation 1		0
		0-127	Prism indexing	
		128-189	Forwards prism rotation from fast to slow	
		190-193	No rotation	
		194-255	Backwards prism rotation from slow to fast	
-	41	Rotating prism indexing Fine 1		0
		0-255	Fine indexing	
29	42	Prism 2		0
		0-127	Open	
		128-255	Prism 2	
30	43	Rotating prism index, rotating prism rotation 2		0
		0-127	Prism indexing	
		128-189	Forwards prism rotation from fast to slow	
		190-193	No rotation	
		194-255	Backwards prism rotation from slow to fast	
-	44	Rotating prism indexing Fine 2		0
		0-255	Fine indexing	
31	45	Frost 1		0
		0-255	0-100%	
32	46	Frost 2		0
		0-255	0-100%	
33	47	Blade 1A		0
		0-255	Open to Close	
-	48	Blade 1A Fine		0
		0-255	Open to Close Fine	
34	49	Blade 1B		0
		0-255	Open to Close	

	–	50	Blade 1B Fine		0
			0-255	Open to Close Fine	
35		51	Blade 2A		0
			0-255	Open to Close	
–		52	Blade 2A Fine		0
			0-255	Open to Close Fine	
36		53	Blade 2B		0
			0-255	Open to Close	
–		54	Blade 2B Fine		0
			0-255	Open to Close Fine	
37		55	Blade 3A		0
			0-255	Open to Close	
–		56	Blade 3A Fine		0
			0-255	Open to Close Fine	
38		57	Blade 3B		0
			0-255	Open to Close	
–		58	Blade 3B Fine		0
			0-255	Open to Close Fine	
39		59	Blade 4A		0
			0-255	Open to Close	
–		60	Blade 4A Fine		0
			0-255	Open to Close Fine	
40		61	Blade 4B		0
			0-255	Open to Close	
–		62	Blade 4B Fine		0
			0-255	Open to Close Fine	
41		63	All Blade Rotation		128
			0-255	All Blade Rotation	
–		64	All Blade Rotation Fine		0
			0-255	All Blade Rotation Fine	
42		65	Control, reset, internal programs		0
			00-4	unused	
			5-9	Display Off	
			10-14	Display On	
			15-19	Display Invert Off	
			20-24	Display Invert On	
			25-26	Auto fan control mode	
			27-28	Stage fan control mode	
			29-30	Silence fan control mode	
			31-44	unused	
			45-49	Square Law	
			50-54	Linear	
			55-58	1.2K	
			59-62	2.4K	
			63-66	16K	
			67-69	25K	
			70-74	Gobo correction Off	
			75-79	Gobo correction On	
			80-84	All motor reset	

85-87	Scan motor reset
88-90	Colors motor reset
91-93	Gobo motor reset
94	unused
95	Reset P/T Fade Off
96	Reset P/T Fade On
97-99	Other motor reset
100-102	Frost Progressive Off
103-105	Frost Progressive On
106-108	CMY speed Fast
109-111	CMY speed Medium
112-114	CMY speed Slow
115-126	unused
127-129	Pan Reverse Off
130-132	Pan Reverse On
133-135	Tilt Reverse Off
136-138	Tilt Reverse On
139-150	unused
151-153	Feedback Off
154-156	Feedback On
157-159	Init PAN Off
160-162	Init PAN On
163-165	Init TILT Off
166-168	Init TILT On
169-171	Prerig INIT Off
172-174	Prerig INIT On
175-180	unused
181-183	Pan/Tilt Spd Fast
184-186	Pan/Tilt Spd Medium
187-189	Pan/Tilt Spd Slow
190-192	unused
193-195	Zoom/Focus Spd Fast
196-198	Zoom/Focus Spd Medium
199-201	Zoom/Focus Spd Slow
202-255	unused

7. ERROR MESSAGES

When you turn on the DRAGON IP 700, it will first perform an automatic reset. The display may show “Err channel is XX” indicating there is a problem with one or more of the channels. “XX” represents channel 1, 2, 3, 4, 5 or 6, which contain the testing sensor for positioning. For example, the message, “Err channel is Pan movement”, indicates an error in channel 1. If there is an error on channel 1 and channel 3 at the same time, the following error message may appear: “Err channel is Pan movement”, “Err channel is Tilt movement”. The system will flash twice, and the fixture will generate a second reset. If the error message persists after more than two resets, the channels showing errors will not work properly but the other channels will function normally.

Please contact your authorized dealer or manufacturer for service and do not attempt to repair the luminaire yourself.

PAN- movement Er

(PAN-yoke movement error): This message will appear after the reset if the yoke’s magnetic-indexing circuit malfunctions (failed sensor or magnet missing) or the stepping-motor is defective (also caused by its driving IC on the main PCB). The PAN- movement does not return to the default position after the reset.

TILT- movement Er

(TILT- head movement error) This message will appear after the reset of the fixture if the head’s magnetic-indexing circuit malfunctions (Optical Sensor or Magnetic Sensor fails) or the stepper motor is defective (or its driving IC on the main PCB). The TILT-movement is not located in the default position after the reset.

Zoom Er

(Zoom error) This message will appear after the reset of the fixture if the head’s magnetic-indexing circuit malfunctions (Optical Sensor or Magnetic Sensor fails) or the stepper motor is defective (or its driving IC on the main PCB). The Zoom-movement is not located in the default position after the reset.

Focus Er

(Focuswheel error) This message will appear after the reset of the fixture if the head’s magnetic-indexing circuit malfunctions (Optical Sensor or Magnetic Sensor fails) or the stepper motor is defective (or its driving IC on the main PCB). The Focus-movement is not located in the default position after the reset.

Color wheel Er

(Color wheel- error) This message will appear after the reset of the fixture if the head’s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB). The Color - movement is not located in the default position after the reset.

Rot_Gobo wheel Er

(Rot_Gobo1wheel - error) This message will appear after the reset of the fixture if the head’s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB). The Rot_Gobo1 - movement is not located in the default position after the reset.

Fix_Gobo wheel Er

(Fix_Gobowheel - error) This message will appear after the reset of the fixture if the head’s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB). The Fix_Gobo - movement is not located in the default position after the reset.

Prism Er

(Prism error) This message will appear after the reset of the fixture if the head’s magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB). The Prism_5 - movement is not located in the default position after the reset.

Frost Er

(Frost - error) This message will appear after the reset of the fixture if the head's magnetic-indexing circuit malfunctions (sensor failed or magnet missing) or the steppermotor is defective (or its driving IC on the main PCB). The Frost 1 - movement is not located in the default position after the reset.

8. CLEANING AND MAINTENANCE

The following points have to be considered during inspection:

1. All screws for installing the devices or parts of the device have to be tightly connected and must not be corroded.
2. There must not be any deformations to the housing, lenses, rigging and installation points (ceiling, suspension, trussing).
3. Motorized parts must not show any signs of wear and must move smoothly without issue.
4. The power supply cables must not show any damage, material fatigue or sediment.

Further instructions depending on the installation location and usage have to be adhered to by a qualified installer and any safety concerns have to be removed.

EXPOLITE



Specifications subject to change without notice

DRAGON IP 700