

NEO 400 PRO GOBO LASER

USER MANUAL

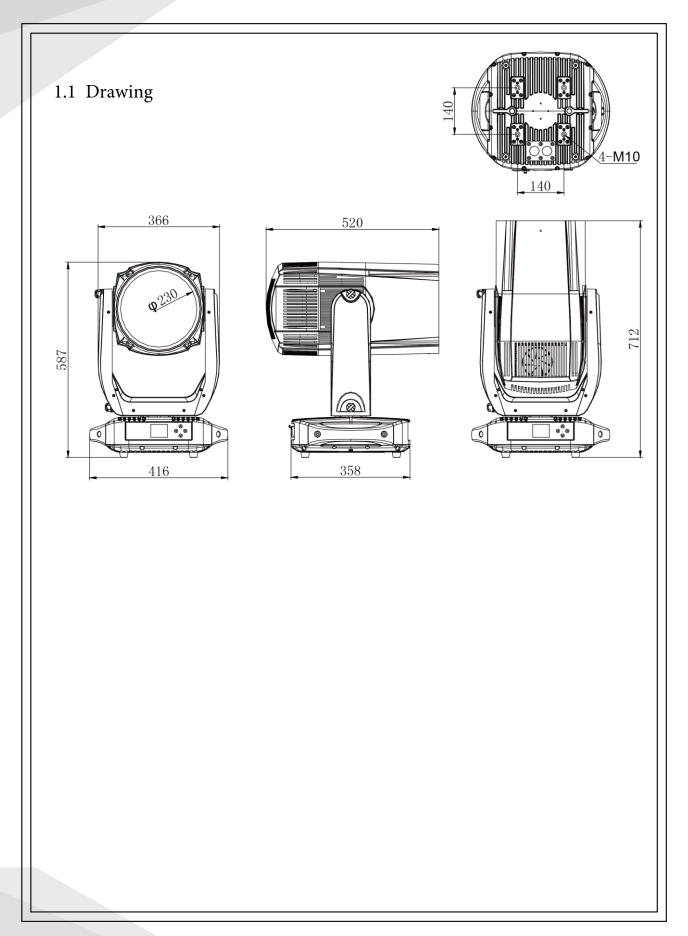




- 1. The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.
- $2.\ No\ supplied\ water-proof\ box,$ installation should be adviced by qualified professional.
- 3. The external flexible cable can not be replaced. If the cable is damaged, the luminaire should be discarded.











1.2 Safety Notes

IMPORTANT

- This product must be installed by a qualified professional.
- In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes
- The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

CAUTION!

- Make sure that the available voltage is not higher than stated on the rear panel.
- Do not touch the power cables if your hands are wet.
- The earth wire must always be connected to the ground. Therefore it is essential to connect the yellow/green conductor to earth.
- Make sure that the power-cord is never crimped or damaged by sharp edges. Check th
 device and the power-cord from time to time. The electric connection, repairs and servicing
 must be carried out by a qualified employee.
- Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the fixture.
- Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.
- Do not touch the device's housing bare hands during its operation (housing becomes hot)! The surface of the product's casing can reach up to 60° C (contact by persons and materials. Do not install the product in a location where there is a risk of accidental contact. Allow the product to cool for at least 10 minutes before handling.
- For replacement use lamps and fuses of same type and rating only.
- Please protect the fixture and avoid destroy during transport and installation. If there is any damage to the coating, the shell may be corroded.
- When hanging lamps and lanterns, it is necessary to verify that facilit at least 10 times the weight of lamps and lanterns.
- Fix the safety rope at the correct holes only. Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- The maximum ambient temperature 45°C must never be exceeded. Do not operate the product if the ambient temperature (Ta) exceeds 45° C (115° F).
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

Electrical Warning

- The light source contained in this luminaire shall only be replaced by the service agent or a similar qualified person
- For replacement use lamps and fuses of same type and rating only.
- The lens has to be replaced when it is obviously damaged, so that its function is impaired, e. g. due to cracks or deep scratches!





Keep the product well away from flammable materials

- Keep all combustible materials (e.g. fabric, wood, paper) at least product.
- Ensure that there is free and unobstructed airflow around the product. Provide a minimum clearance of 150 mm (6 in.) around fans and air vents.
- Do not illuminate surfaces within 10 m (40 ft.) of the product.
- Do not install a fuse that has a higher rating than the one originally installed in the product. Do not bypass fuses.
- Do not stick filters, masks or other materials onto optical components.
- If the fixture seems to be abnormally hot, shows signs of melting or emits smoke, disconnect the fixture from power immediately and allow it to cool. Do not touch the fixture without heatproof safety gloves. Keep the fixture well away from combustible and flammable materials.

NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE RETINA INJURY RISK - MAY INDUCE BLINDNESS!

Do not point the front of the fixture towards the sun or other strong light sources. The front lens focuses and concentrates light just like a magnifying glass. Strong light can cause internal damage to the fixture, melting components or starting an internal fire within seconds.

To avoid problems from strong light sources:

- Do not expose the front of a fixture to sunlight or any other strong light source. Avoid pointing other high -powered beam lights directly at the fixture.
- Do not focus a light beam from one lighting fixture directly towards another.
- For outdoor applications during daylight, make sure that the front face of any fixture is shielded or points away from the sun, even when not in use.
- Do not expose the product to heat (from other lighting fixtures for example).





2 INSTALLATION

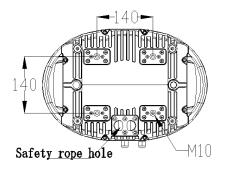
2.1 MOUNTING

Truss installation

- ◆ Keep all combustible materials (e.g. fabric, wood, paper) at least 500 mm (20 in.) away from the product.
- ◆ For overhead use, always install a safety cable that can hold at least 10 times the weight of the fixture.
- ◆ For overhead installation, the fixture must be always secured with a safety wire that can bear at least 10 times the weight of the fixture ;
- Secure the fixture with a safety cable through the rear safety eye and truss as shown.
- Ensure that the structure (truss) to which you are attaching the fixture is secure

HANGING

- ◆ You could place the light on the floor. Please make sure the surface is plane and the reliability of the floor is sufficient.
- ♦ Bolt a rigging clamp securely to the mounting yoke. The bolts used must be M10, grade 8.8 steel minimum, and fastened with a self-locking nut.





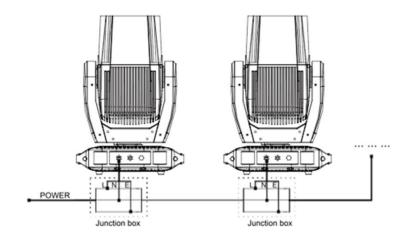


2.2 POWER CONNECTIONS

◆ This product has an auto-ranging power supply that can work with an input voltage range of 100 −240 V~277V, 50/60 Hz.

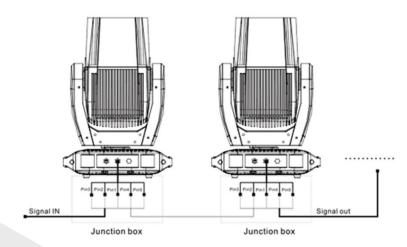
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Connection Wire (U.S.		Wire(Europe)	Screw Color	
AC Live Black		Brown	Yellow/Brass	
AC Neutral	White	Blue	Silver	
AC Ground	Green/Yellow	Green/Yellow	Green	



2.3 Data network requirements

- ◆ Connect the DMX512 controller to the units in series. A DMX 512 data link is required in order to control the fixture via DMX. The fixture has 3/5-pin XLR connectors for DMX data input and output.
- ◆ Each unit has 13 DMX channels so the DMX Addresses should increase by increments of 1 (Nx1)+1, (Nx2)+1, (Nx3)+1...
- ♦ Any DMX address in the range from 001 to 512 may be used.



PINS	FUNCTIONS
Pin1 (Shield)	GND/0V
Pin2 (black)	Data input (-)
Pin3 (white)	Data input (+)
Pin4 (green)	Data output (-)
Pin5 (red)	Data output (+)





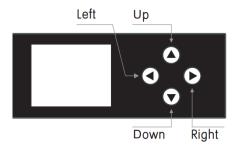
3 FUNCTIONS AND SETTINGS

3.1 DISPLAY OPERATION

- ◆ LEFT: Used to access the menu or to return a previous menu option;
- ◆ RIGHT: Used to select and store the current menu or confirm the current function value or option within a menu;
- UP: Navigates downwards through the menu list and increases the numeric value when in a function:
- ◆ DOWN: Navigates upwards through the menu list and decreases the numeric value when in a function;

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- ♦ When the display locked, please unlock the display as below:
 - 1. Keep pressing BACK around 5sec, until the display shows inset password.
 - 2. Press "up down up down, enter" to unlock.



3.2 Menu Map

ADDRESS	001 - 512 (Defau	lt 001)	DMX address setting
PERSON	BASIC		Use the menu to select desired channel
	STANDARD (De	fault)	mode
	EXTEND		
RUNMODE	DMX512 (Defaul	t)	S elect Signal
	AUTO		Default: DMX512
	CUSTOM1		CUSTOM1 -2 Set up get into EDIT MENU
	CUSTOM2		edit
OPTION	PAN INVERT	NORMAL (Default)	PAN moving direction selection
		INVERT	
	TILT INVERT	NORMAL (Default)	TILT moving direction selection
	IILI INVERI	INVERT	
	PERFORM	STUDIO	Fan mode low speed
		POWER	Fast rotation of fan, all power
		LIVE (Default)	Automatic rotation of fan
	BLACKOUT	OFF (Default)	Select OFF b lackout without delay
	BLACKOUT	ON	Select ON Blackout delay 3s
	DIMMER	DIM4 (Default)	Dimming curves OFF (fast) to DIM4 (slow);
	DIMMER	OFF	
	DMX ERROR	SAVE (Default)	Hold after loss of DMX signal
	DIVIA ERROR	BLACK	Blackout after loss of DMX signal





		On			Display backlight always on	
	DIODI ANTENES	30s			Turns off display backlight after 30s /1mir	
	DISPLAY TIME	1min (Default)			/2min of inactivity	
		2min			7	
	DIGDI ATT C CO	OFF			Locks dis play (passcode is <up>,</up>	
	DISPLAY LOCK	ON (Default)			<down>,<up>, <down>, <enter>)</enter></down></up></down>	
		OFF			Not upload data	
	LOAD PARA	ON (Default)			Upload data	
		RECOVERY	****		Restore default factory settings.	
		CLEAN EDIT1	****		Clean customer self -editing scene 1	
	CDEED IO	CLEAN EDIT2	****		Clean customer self -editing scene 2	
SETTING		NO		Hide wireless mode WDMX reset and		
		WDMX HIDE	MDG		signal hide and the default is wired mode	
			YES		only	
	DT ENCOPER	OFF			XY Encoder switch .	
	PT ENCODER	ON			OFF is close; ON is open.	
	EOCHE I DATE	OFF			Focus limit off	
	FOCUS LIMIT	ON			Focus limit on	
	MD) (V DECEM	NO			Do not clear the receiver's message.	
	WDMX RESET	YES		Clear the receiver's message		
		ONLY XLRDMX		ONLY XLR is wire only		
		XLRDMX FIRST			XLR FIRST is wire first	
	SIGNAL	ONLY WDMX			ONLY WDMX is wireless only	
		WDMX FIRST			WDMX FIRS is wireless first	
		WDMX TO XLR	DMX		WDMX TO DMX is wireless to wired	
EDIT			PAN	0-255	Edit the custom programs 1-30	
		STEP 1 -30	TILT	0-255	Select pla y 【EDIT 1】 in RUNMOEDE	
EDIT 1 -2			PT SPEED	0-255	CUSTOM 1; Select play 【EDIT 2】 in RUNMOEDE CUSTOM 2	
			СТО	0-255		
			COLOR	0-255		
			FIXED GOBO	0-255		
	EDIT 1 -2		PRISM 1	0-255		
		PRISM 2	0-255			
		FOCUS	0-255			
			DIMMER	0-255		
			STROBE	0-25		
			TIME	0-255		
			USE	YES/NO	S elect YES to run the steps user need.	
MANUAL	AUTO TEST					
		PAN	0-255		Manual control channel	
		TILT				
		PT SPEED	0-255		+	
	CHANNEL			-		
CHANNEL			CTO 0-255		-	
		COLOR 0-255 FIXED GOBO 0-255			-	
		TIMED GODO	0-233		_	





		PRISM 2	0-	-255	
		FOCUS	0-	-255	
		DIMMER	0-	-255	
		STROBE	0-	-25	
		YES			Factory testing mode. All stepper motor
	DEBUG HIDE	NO			are not controlled by signal, It only wor
		ALL RESET			S elect Yes/No to carry out all reset
RESET		PT RESET			S elect Yes/No to carry out P/T reset
		COLOR SYS T	COLOR SYS TEM		COLOR/ CTO/ GOBO reset
		OTHER			Prism1/Prism2/ Focus reset
INFO	FIXTURE HOURS	3			Hours of fixture use
	LED USE HOURS				LED use time
	TEMPERATURE				LED temperature
	VERSION				S oftware versions
	RDM	UID	0x38	38Axxxxxxxx	Check fixture's ID
	KDW	LABEL	NEC	0 400 PRO GOBO LASER	Check fixture's LABEL
		MEMORY IC			Memory IC
		ANGLESENSOR			Angle Sensor
		PAN SENSOR			Pan Sensor
		PAN ENCODER			Pan Encoder
		PAN DRIVEIC			Pan Drive IC
		TILT SENSOR			Tilt Sensor
	OXOTED A	TILT ENCODE	R		Tilt Encoder
	SYSTEM	TILT DRIVEIC			Tilt Drive IC
	ERROR	TEMPERATURE			Temperature
		CTO RESET			CTO reset
		COLOR RESET			Color reset
	FIXED GOBO RESET			gobo reset	
		PRISM 1 RESET			Prism 1 reset
	PRISM 2 RESET			Prism 2 reset	
		FOCUS RESET			Focus reset
SERVICE		PAN		±127	Pan position fine adjustment
OLIK FOL		TILT		±127	Tilt position fine adjustment
		СТО		±127	CTO position fine adjustment
		COLOR		±127	Color position fine adjustment
	****	FIXED GOBO		±127	Gobo position fine adjustment
		PRISM 1		±127	Prism1 position fine adjustment
	PRISM 2		±127	Prism2 position fine adjustment	
		FOCUS		±127	Focus position fine adjustment





4 USING A DMX512 CONTROLLER

4.1 DMX CONTROL

BASIC (12CH)	STANDARD (16CH)	Extend (18CH)	Value	Function
1	1	1	000 -255	PAN 0 -540°
-	2	2	000 -255	PAN FINE
2	3	3	000 -255	TILT 0-270°
-	4	4	000 -255	TILT 6-276
3	5	5	000 -255	PT Speed
	,		CTO	11 Specu
			0-10	WHITE
4	6	6	11-127	СТО
<u> </u>	O	O	128 -244	СТВ
			245 -255	WHITE
			COLOR WH	
			0-7	WHITE
			8-10	COLOR 1
			11-13	COLOR 2
			14-16	COLOR 3
			17 -19	COLOR 4
			20 -22	COLOR 5
			23 -25	COLOR 6
			26 -28	COLOR 7
			29 -31	COLOR 8
			32-34	COLOR 9
			35 -37	COLOR 10
5	7	7	38 -40	COLOR 11
	·	,	41 -43	COLOR 12
			44 -46	COLOR 13
			47 -49	COLOR 14
			50 -52	COLOR 15
			53 -55	COLOR 16
			56 - 58	COLOR 17
			59 -61	COLOR 18
			62 -64	COLOR 19
			65 -191	COLOR WHELL1 0 -360°
			192 -222	COLOR WHELL1 RAINBOW EFFECT(SPEED 100% ->1)
			223 -224	STOP
			225 -255	COLOR WHELL1 RAINBOW EFFECT(SPEED 1 ->100%)





			l	1	
-	-	8	000 -255	COLOR WHEEL FINE	
			FIXED GOBO WHEEL 29+1		
			0-10	WHITE	
			11 -12	FIXED GOBO WHEEL 1	
			13 -14	FIXED GOBO WHEEL 2	
			15 -16	FIXED GOBO WHEEL 3	
			17 -18	FIXED GOBO WHEEL 4	
			19 -20	FIXED GOBO WHEEL 5	
			21 -22	FIXED GOBO WHEEL 6	
			23 -24	FIXED GOBO WHEEL 7	
			25 -26	FIXED GOBO WHEEL 8	
			27 -28	FIXED GOBO WHEEL 9	
			29 - 30	FIXED GOBO WHEEL 10	
			31 -32	FIXED GOBO WHEEL 11	
			33 -34	FIXED GOBO WHEEL 12	
			35 - 36	FIXED GOBO WHEEL 13	
			37 -38	FIXED GOBO WHEEL 14	
			39 -40	FIXED GOBO WHEEL 15	
			41 -42	FIXED GOBO WHEEL 16	
			43 -44	FIXED GOBO WHEEL 17	
6	8	9	45 -46	FIXED GOBO WHEEL 18	
			47 -48	FIXED GOBO WHEEL 19	
			49 -50	FIXED GOBO WHEEL 20	
			51 -52	FIXED GOBO WHEEL 21	
			53 -54	FIXED GOBO WHEEL 22	
			55 - 56	FIXED GOBO WHEEL 23	
			57 -58	FIXED GOBO WHEEL 24	
			59 -60	FIXED GOBO WHEEL 25	
			61 -62	FIXED GOBO WHEEL 26	
			63 -64	FIXED GOBO WHEEL 27	
			65 -66	FIXED GOBO WHEEL 28	
			67 -68	FIXED GOBO WHEEL 29	
			69 -72	FIXED GOBO WHEEL 1 SHAKE (SPEED 1 —> 100%)	
			73 -76	FIXED GOBO WHEEL 2 SHAKE (SPEED 1 —> 100%)	
			77 -80	FIXED GOBO WHEEL 3 SHAKE (SPEED 1 —> 100%)	
			81 -84	FIXED GOBO WHEEL 4 SHAKE (SPEED 1 —> 100%)	
			85 -88	FIXED GOBO WHEEL 5 SHAKE (SPEED 1 —> 100%)	
			89 -92	FIXED GOBO WHEEL 6 SHAKE (SPEED 1 —> 100%)	
			93 -96	FIXED GOBO WHEEL 7 SHAKE (SPEED 1 —> 100%)	
			97 -100	FIXED GOBO WHEEL 8 SHAKE (SPEED 1 —> 100%)	





				101 -104	FIXED GOBO WHEEL 9 SHAKE (SPEED 1 —> 100%)
				105 -108	FIXED GOBO WHEEL 10 SHAKE (SPEED 1 —> 100%)
				109 -112	FIXED GOBO WHEEL 11 SHAKE (SPEED 1 —> 100%)
				113 -116	FIXED GOBO WHEEL 12 SHAKE (SPEED 1 —> 100%)
				117 -120	FIXED GOBO WHEEL 13 SHAKE (SPEED 1 —> 100%)
				121 -124	FIXED GOBO WHEEL 14 SHAKE (SPEED 1 —> 100%)
				125 -128	FIXED GOBO WHEEL 15 SHAKE (SPEED 1 —> 100%)
				129 -132	FIXED GOBO WHEEL 16 SHAKE (SPEED 1 —> 100%)
				133 -136	FIXED GOBO WHEEL 17 SHAKE (SPEED 1 —> 100%)
				137 -140	FIXED GOBO WHEEL 18 SHAKE (SPEED 1 —> 100%)
				141 -144	FIXED GOBO WHEEL 19 SHAKE (SPEED 1 —> 100%)
				145 -148	FIXED GOBO WHEEL 20 SHAKE (SPEED 1 —> 100%)
				149 -152	FIXED GOBO WHEEL 21 SHAKE (SPEED 1 —> 100%)
				153 -156	FIXED GOBO WHEEL 22 SHAKE (SPEED 1 —> 100%)
				157 -160	FIXED GOBO WHEEL 23 SHAKE (SPEED 1 —> 100%)
				161 -164	FIXED GOBO WHEEL 24 SHAKE (SPEED 1 —> 100%)
				165 -168	FIXED GOBO WHEEL 25 SHAKE (SPEED 1 —> 100%)
				169 -172	FIXED GOBO WHEEL 26 SHAKE (SPEED 1 —> 100%)
				173 -176	FIXED GOBO WHEEL 27 SHAKE (SPEED 1 —> 100%)
				177 -180	FIXED GOBO WHEEL 28 SHAKE (SPEED 1 —> 100%)
				181 -184	FIXED GOBO WHEEL 29 SHAKE (SPEED 1 —> 100%)
				185 -188	STOP WATER EFFECT
				189 -219	STATIC GOBO JUMPING WATER EFFECT (SPEED 100 -> 1%)
				220 -224	STOP WATER EFFECT
				225 -255	STATIC GOBO FLOWING WATER EFFECT (SPEED 1 —> 100%)
	-	-	10	000 -255	FIXED GOBO WHEEL FINE
	7 9		PRISM 1		
				0-10	WHITE
			11	11 -145	PRISM INSERT AND ADJUST THE ANGLE (0 —> 360°)
		9		146 -150	STOP
				151 -200	PRISM INSERT AND POSITIVE ROTATION (SPEED 100% -> 1)
				201 -205	STOP ROTATION
				206 -255	PRISM INSERT AND REVERSE ROTATION (SPEED 1 —> 100%)
	8 10		0 12	PRISM 2	
				0-10	WHITE
				11 -145	PRISM INSERT AND ADJUST THE ANGLE (0 —> 360°)
		10		146 -150	STOP
				151 -200	PRISM INSERT AND POSITIVE ROTATION (SPEED 100% -> 1)
				201 -205	STOP ROTATION
				206 -255	PRISM INSERT AND REVERSE ROTATION (SPEED 1 —> 100%)

