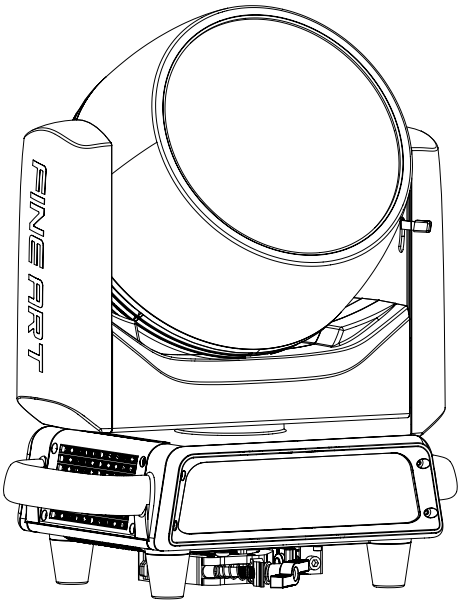
USER MANUAL

FINE 6019 PIXIE IP



Read the user manual before installing or operating this product.

Contents

P/N: 390712000143 Version: A

1/ Technical feature

Product implementation standards: GB7000.1-2005,GB7000.217-2008.

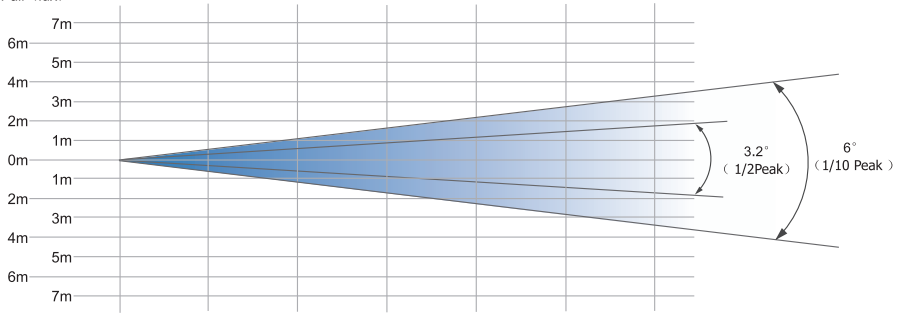
Technical feature	FINE 6019 PIXIE IP
Lamp source	60W four-in-one LED chip
Input voltage	100-240V~ 50/60Hz
Input current	12A
Input power	1200W
Power factor	PF≥0. 98
Beam angle	3°~65°
Max luminous flux	14000 lm
Color system	RGBW four-in-one
Effect	full optical dimming,65536 level dimming accuracy,fast strobe1-25Hz preset 65 kinds of color macro function preset 64 kinds of effect macro function
Pan	Pan=540°,Pan= 2.11°/step, Pan fine=0.008°
Tilt	Tilt =240°, Tilt=1.05°/step, Tilt fine=0.004°
Safety protection	Over current, over voltage and overheating protection
Control mode	DMX512
Work environment	-10℃~40℃
Fixture dimension	405 x 300 x 484mm
Package dimension	840×522×720mm(flight case);
Weight	Net weight: 23.7kg, Gross weight: 88kg(flight case)
Package	2pcs/flight case
IP rate	IP 66

Note: The light source is not recommended to replaced by user . Ask qualified maintenance personnel to replace the light source If any damage or overheat deformation.

2/ Photometric diagram

● PHOTOMETRIC(Min Angle)

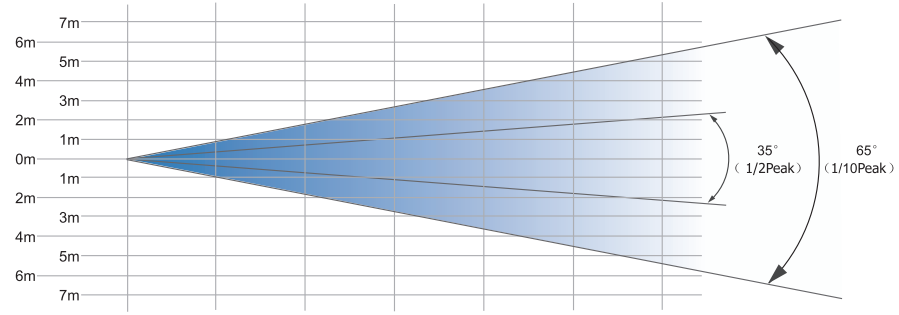
R（lux）	0	71680	10080	4480	2520	1613	1120
G（lux）	0	113400	28350	12600	7088	4536	3150
B（lux）	0	18180	4545	2020	1136	727	505
W（lux）	0	154800	38700	17200	9675	6192	4300
Full（lux）	0	275400	68850	30600	17213	11016	7650



distance（m）	0	2	4	6	8	10	12
3.2°(1/2Peak) diameter（m）	0	φ0.11	φ0.17	φ0.34	φ0.44	φ0.55	φ0.66
6°(1/10Peak) diameter（m）	0	φ0.21	φ0.42	φ0.63	φ0.83	φ1.04	φ1.25

● PHOTOMETRIC(Max Angle)

R（lux）	0	1526	215	95	54	34	24
G（lux）	0	2457	614	273	154	98	68
B（lux）	0	405	101	45	25	16	11
W（lux）	0	3330	833	370	208	133	93
Full（lux）	0	5985	1496	665	374	239	166



distance（m）	0	2	4	6	8	10	12
35°(1/2Peak) diameter（m）	0	φ1.26	φ2.53	φ3.78	φ5.04	φ6.3	φ7.56
65°(1/10Peak) diamete（m）	0	φ2.52	φ5.04	φ7.56	φ10.08	φ12.6	φ15.12

3/ Control channel

Channel Data Table						
Specific	Stnd	RBG	RGBW	SHAP	Value	Function
Red	1	1	1	1	0->255	Red
Red fine	2	2	2	2	0->255	Red fine
Green	3	3	3	3	0->255	Green
Green fine	4	4	4	4	0->255	Green fine
Blue	5	5	5	5	0->255	Blue
Blue fine	6	6	6	6	0->255	Blue fine
White	7	7	7	7	0->255	White
White fine	8	8	8	8	0->255	White fine
CTO	9	9	9	9	0->3	None
					4	CCT 2700K
					5	CCT 3200K
					6	CCT 4300K
					7	CCT 5600K
					8	CCT 6500K
					9	CCT 8000K
					10->255	CCT 8000K->2700K
Macro Colour	10	10	10	10	0->9	None
					10->255	Color Macro
Strobe	11	11	11	11	0->3	CLOSED
					4->103	Pluse Strobe Slow to Fast, 1Hz-25Hz
					104->107	OPEN
					108->207	Strobe Slow to Fast, 1Hz-25Hz
					208->212	OPEN
					213->251	Random Strobe Slow to Fast
					252->255	OPEN
Dimmer	12	12	12	12	0->255	Dimmer
Dimmer fine	13	13	13	13	0->255	Dimmer fine
Pan	14	14	14	14	0->255	Pan
Pan fine	15	15	15	15	0->255	Pan fine
Tilt	16	16	16	16	0->255	Tilt
Tilt fine	17	17	17	17	0->255	Tilt fine

Function	18	18	18	18	0->255	Reserved
Reset	19	19	19	19	0->25	NONE
					26->76	ZOOM Reset
Reset	19	19	19	19	77->127	Pan/Tilt Reset
					128->255	All Reset
Zoom	20	20	20	20	0->255	Zoom Narrow to Wide
Crossfade	21	21	21	21	0->255	Reserved
Red1		22	22		0->255	Dimmer Adjusting
Green1		23	23		0->255	Dimmer Adjusting
Blue1		24	24		0->255	Dimmer Adjusting
white1			25		0->255	Dimmer Adjusting
Red2		25	26		0->255	Dimmer Adjusting
Green2		26	27		0->255	Dimmer Adjusting
Blue2		27	28		0->255	Dimmer Adjusting
white2			29		0->255	Dimmer Adjusting
Red3		28	30		0->255	Dimmer Adjusting
Green3		29	31		0->255	Dimmer Adjusting
Blue3		30	32		0->255	Dimmer Adjusting
white3			33		0->255	Dimmer Adjusting
Red4		31	34		0->255	Dimmer Adjusting
Green4		32	35		0->255	Dimmer Adjusting
Blue4		33	36		0->255	Dimmer Adjusting
white4			37		0->255	Dimmer Adjusting
Red5		34	38		0->255	Dimmer Adjusting
Green5		35	39		0->255	Dimmer Adjusting
Blue5		36	40		0->255	Dimmer Adjusting
white5			41		0->255	Dimmer Adjusting
Red6		37	42		0->255	Dimmer Adjusting
Green6		38	43		0->255	Dimmer Adjusting
Blue6		39	44		0->255	Dimmer Adjusting
white6			45		0->255	Dimmer Adjusting
Red7		40	46		0->255	Dimmer Adjusting
Green7		41	47		0->255	Dimmer Adjusting
Blue7		42	48		0->255	Dimmer Adjusting
white7			49		0->255	Dimmer Adjusting
Red8		43	50		0->255	Dimmer Adjusting
Green8		44	51		0->255	Dimmer Adjusting
Blue8		45	52		0->255	Dimmer Adjusting
white8			53		0->255	Dimmer Adjusting
Red9		46	54		0->255	Dimmer Adjusting
Green9		47	55		0->255	Dimmer Adjusting

Blue9		48	56		0->255	Dimmer Adjusting
white9			57		0->255	Dimmer Adjusting
Red10		49	58		0->255	Dimmer Adjusting
Green10		50	59		0->255	Dimmer Adjusting
Blue10		51	60		0->255	Dimmer Adjusting
white10			61		0->255	Dimmer Adjusting
Red11		52	62		0->255	Dimmer Adjusting
Green11		53	63		0->255	Dimmer Adjusting
Blue11		54	64		0->255	Dimmer Adjusting
white11			65		0->255	Dimmer Adjusting
Red12		55	66		0->255	Dimmer Adjusting
Green12		56	67		0->255	Dimmer Adjusting
Blue12		57	68		0->255	Dimmer Adjusting
white12			69		0->255	Dimmer Adjusting
Red13		58	70		0->255	Dimmer Adjusting
Green13		59	71		0->255	Dimmer Adjusting
Blue13		60	72		0->255	Dimmer Adjusting
white13			73		0->255	Dimmer Adjusting
Red14		61	74		0->255	Dimmer Adjusting
Green14		62	75		0->255	Dimmer Adjusting
Blue14		63	76		0->255	Dimmer Adjusting
white14			77		0->255	Dimmer Adjusting
Red15		64	78		0->255	Dimmer Adjusting
Green15		65	79		0->255	Dimmer Adjusting
Blue15		66	80		0->255	Dimmer Adjusting
white15			81		0->255	Dimmer Adjusting
Red16		67	82		0->255	Dimmer Adjusting
Green16		68	83		0->255	Dimmer Adjusting
Blue16		69	84		0->255	Dimmer Adjusting
white16			85		0->255	Dimmer Adjusting
Red17		70	86		0->255	Dimmer Adjusting
Green17		71	87		0->255	Dimmer Adjusting
Blue17		72	88		0->255	Dimmer Adjusting
white17			89		0->255	Dimmer Adjusting
Red18		73	90		0->255	Dimmer Adjusting
Green18		74	91		0->255	Dimmer Adjusting
Blue18		75	92		0->255	Dimmer Adjusting
white18			93		0->255	Dimmer Adjusting
Red19		76	94		0->255	Dimmer Adjusting
Green19		77	95		0->255	Dimmer Adjusting
Blue19		78	96		0->255	Dimmer Adjusting

white19			97		0->255	Dimmer Adjusting
Shape Selection				22	0->7	NONE
					8->10	Static Shape1~Static Shape3
					11	NONE
					12->14	Static Shape4~Static Shape5
					15->63	Animation1~49
					64	NONE
					65->68	Animation50~53
					69	NONE
					70	Animation54
					71-255	NONE
Shape Speed				23	0->63	STOP
					64->158	Speed Fast to Slow
					159->160	STOP
					161->255	Speed Slow to Fast
Shape Fade				24	0->15	NONE
					16->255	Fade in Fade out and Curve Selection
Shape R				25	0->255	Shape Red
Shape G				26	0->255	Shape Green
Shape B				27	0->255	Shape Blue
Shape W				28	0->255	Shape White
Shape Dimmer				29	0->255	Shape Dimmer
Background Dimmer				30	0->255	Background Dimmer
Shape Transition				31	0->4	No Transition
					5->255	Transition Time 100ms->4s
Shape Offset				32	0->255	Shape Offset
Shape Strobe				33	0->3	CLOSED
					4->103	Pluse Strobe Slow to Fast, 1Hz-25Hz
					104->107	OPEN
					108->207	Strobe Slow to Fast, 1Hz-25Hz
					208->212	OPEN

Shape Strobe				33	213->251	Random Strobe Slow to Fast
					252->255	OPEN
Backgroun d Strobe				34	0->3	CLOSED
					4->103	Pluse Strobe Slow to Fast, 1Hz-25Hz
					104->107	OPEN
					108->207	Strobe Slow to Fast, 1Hz-25Hz
					208->212	OPEN
					213->251	Random Strobe Slow to Fast
					252->255	OPEN
Backgroun d Select				35	0->8	NONE
					9->23	Backgroud Shape Selection
					24->254	NONE
					255	Background Mirror ON

4/ Operation chart for the display panel function

MENU1	MENU2	MENU3	MENU4	(DEFAULT)
DMX Addr	001-XXX			001-035
Options	Pan Invert	On/Off		Off
	Tilt Invert	On/Off		Off
	Pan/Tilt Swap	On/Off		Off
	DMX Mode	Stnd/RGB/RGBW/SHAP		SHAP
	Exit			
Speed Settings	P/T Speed	High/Fast/Norm/Slow		Fast
	P/T Smooth	000-007		
	G/C Speed	Fast/Norm		Fast
	Dimming Curve	S/GM10/GM15/GM20		GM20
	Dimming Smooth	000-003		000
	Fan Control	Bost/Norm/Sile		Norm
	Exit			
Manual control	Red	000-255		000
	Red fine	000-255		000
	Green	000-255		000
	Green fine	000-255		000
	Blue	000-255		000
	Blue fine	000-255		000
	White	000-255		000
	White fine	000-255		000
	CTO	000-255		000
	Macro Colour	000-255		000
	Strobe	000-255		000
	Dimmer	000-255		000
	Dimmer fine	000-255		000
	Pan	000-255		000
	Pan fine	000-255		000
	Tilt	000-255		000
	Tilt fine	000-255		000
	Function	000-255		000
	Reset	000-255		000
	Zoom	000-255		000
	Crossfade	000-255		000
	Shape Selection	000-255		000
	Shape Speed	000-255		000
	Shape Fade	000-255		000
	Shape R	000-255		000
	Shape G	000-255		000
	Shape B	000-255		000
	Shape W	000-255		000
	Shape Dimmer	000-255		000
	Background Dimmer	000-255		000
	Shape Transition	000-255		000
	Shape Offset	000-255		000
	Shape Strobe	000-255		000
	Background Strobe	000-255		000
	Background Select	000-255		000
Exit	Exit			

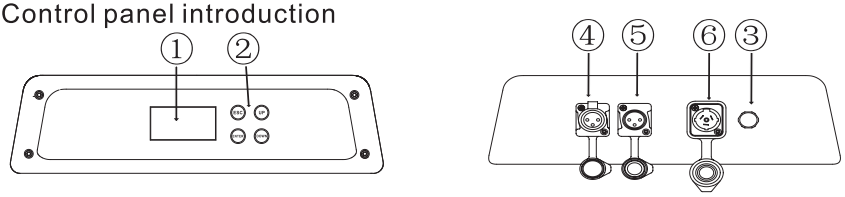
Calibration	Pan	0000-XXX0		0000
	Tilt	0000-XXX0		0000
	Zoom	0000-XXX0		0000
	LED 01	0000-XXX0		0000
	LED 02	0000-XXX0		0000
	LED 03	0000-XXX0		0000
	LED 04	0000-XXX0		0000
	LED 05	0000-XXX0		0000
	LED 06	0000-XXX0		0000
	LED 07	0000-XXX0		0000
	LED 08	0000-XXX0		0000
	LED 09	0000-XXX0		0000
	LED 10	0000-XXX0		0000
	LED 11	0000-XXX0		0000
	LED 12	0000-XXX0		0000
	LED 13	0000-XXX0		0000
	LED 14	0000-XXX0		0000
	LED 15	0000-XXX0		0000
	LED 16	0000-XXX0		0000
	LED 17	0000-XXX0		0000
	LED 18	0000-XXX0		0000
	LED 19	0000-XXX0		0000
	Exit			
DMX Values	Channel - 01	000-255		000
	Channel - 02	000-255		000
	Channel - 03	000-255		000
	Channel - 04	000-255		000
	Channel - 05	000-255		000
	Channel - 06	000-255		000
	Channel - 07	000-255		000
	Channel - 08	000-255		000
	Channel - 09	000-255		000
	Channel - 10	000-255		000
	Channel - 11	000-255		000
	Channel - 12	000-255		000
	Channel - 13	000-255		000
	Channel - 14	000-255		000
	Channel - 15	000-255		000
	Channel - 16	000-255		000
	Channel - 17	000-255		000
	Channel - 18	000-255		000
	Channel - 19	000-255		000
	Channel - 20	000-255		000
	Channel - 21	000-255		000
	Channel - 22	000-255		000
	Channel - 23	000-255		000
	Channel - 24	000-255		000
	Channel - 25	000-255		000
	Channel - 26	000-255		000
	Channel - 27	000-255		000
	Channel - 28	000-255		000
	Channel - 29	000-255		000
	Channel - 30	000-255		000

DMX Values	Channel - 31	000-255		000
	Channel - 32	000-255		000
	Channel - 33	000-255		000
	Channel - 34	000-255		000
	Channel - 35	000-255		000
	Channel - 36	000-255		000
	Channel - 37	000-255		000
	Channel - 38	000-255		000
	Channel - 39	000-255		000
	Channel - 40	000-255		000
	Channel - 41	000-255		000
	Channel - 42	000-255		000
	Channel - 43	000-255		000
	Channel - 44	000-255		000
	Channel - 45	000-255		000
	Channel - 46	000-255		000
	Channel - 47	000-255		000
	Channel - 48	000-255		000
	Exit			
Password	Code--01	000-255		000
	Code--02	000-255		000
	Code--03	000-255		000
	Code--04	000-255		000
	Code--05	000-255		000
	Code--06	000-255		000
	Code--07	000-255		000
	Code--08	000-255		000
	Code--09	000-255		000
	Code--10	000-255		000
	Code--11	000-255		000
	Code--12	000-255		000
	Code--13	000-255		000
	Code--14	000-255		000
	Code--15	000-255		000
	Code--16	000-255		000
	Exit			
Personality	Display	Keep/60s		60s
	Display Int	10-100		100
	Display Inv	On/Off		On
	Language	Chin/Eng		Chin
	Receive Mode	DMX/WDMX/ANET/ADMX/ sACN		DMX
	Universe	000-255		000
	IP Address A	002		002
	IP Address B	168		168
	IP Address C	000		000
	IP Address D	002		002
	Load Config 1	Save		Save
	Load Config 2	Save		Save
	Factory Set	Save		Save
	Firmware Upd	On/Off		Off
	WDMX Unlink	On/Off		Off
	Fixture Type	F6019 IP		F6019 IP

Personality	Sleep Mode	On/Off		Off
	Error Disp	On/Off		On
	Error Code			00
	sACN-Uni	001		001
	Exit			
Information	Fixture Hours	xxxx		0000
	Lamp Hours	xxxx		0000
	Dim Hours	xxxx		0000
	Panel Temp	XX℃		XX℃
	Panel Ver	Vx.xx		Vx.xx
	Manu ID	05EF		05EF
	Device ID	XXXXXXXX		XXXXXXXX
	Lamp Fan	XXXX		XXXX
	Base Fan	XXXX		XXXX
	0: XY Temp	XX℃		XX℃
	0: XY Ver	Vx.xx		Vx.xx
	1: LED Temp	XX℃		XX℃
	1: LED Ver	Vx.xx		Vx.xx
	Exit			
Sensor Monitor	Pan	Norm/Eror		Norm
	Tilt	Norm/Eror		Norm
	Zoom	Norm/Eror		Norm
	Exit			
Reset	Canc/Exec			Canc
Exit				

5/ The control panel

5.1 Control panel introduction



Figure(5.1-1)

1.Dispaly	Display light fixture information and function operation.	
2.Button	ESC Button	Exit modification or return to the upper-level menu.
	UP Button	Scroll up the menu or/Adjust the parameter value upwards.
	DOWN Button	Scroll down the menu or/Adjust the parameter value down wards.
	ENTER Button	Enter menu / Save changes,long press to return to the previous menu.
3.Breathing valve		
4.DMX out	For DMX 512 signal connection,use a 5-pin XLR signal cable to connect to the next light fixture and output DMX signal.(Optional 3-core cable)	
5.DMX in	For DMX 512 signal connection,use a 5-pin XLR signal cable to connect to the next light fixture and input DMX signal.(Optional 3-core cable)	
6.Power in	Connect to power supply.	

5.2 Control panel Operation introduction

1. Menu parameter setting: When the lamp is not connected to the power supply, the menu parameter setting can also be performed. Press and hold the “Exit button” and “OK knob” to start the battery working mode, then you can enter the main menu interface. For details, see the figure (5.2-1)

Main Menu Interface

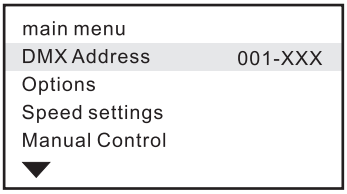


Fig.(5.2-1)

Notice: After entering the menu, the chosen menu is in grey color. Press relative function button to confirm (or by clicking “confirmation” button), then the user can enter in the next menu to edit the value. The user can scroll the function button to the next page (or by choosing up /down).

2. Display Turned: When the lamp is connected to the power supply. First press and hold the “Exit button”,then press the “Enter butter” , then you can turned the main menu reverse 180°.

3. Password is required to enter the menu:UP DOWM UP DOWM ENTER.

6/ Routine maintenance

6.1 Routine maintenance

This fixture requires routine cleaning. The service life depends on the operating environment heavily. Please kindly contact GUANGZHOU CHAIYI LIGHT CO., LTD for more maintenance information not included in this user's manual.

Notice: Excessive dust, smoke fluid and particulate buildup will degrade performance and cause over heating or damage to the fixture that is not covered by the warranty.
Warning: Please unplug the fixture before you open any covers.

Cleaning
Optical components should be cleaned carefully and lightly. Coating face is easily damaged, do not use harmful solvent so as to avoid damage to plastic parts or coating parts.

Cleaning optical components
1. Switch off the fixture and keep it cool completely, then open the cover.
2. Clean the floats by dust collector or compressed.
3. Use cotton paper without smell or cotton cloth soaked with the water, distilled water to wipe the granular thing, don't wipe the surface, float things should be blown away by the pressure gas.
4. Use the cotton cloth or cotton paper without smell soaked with isopropyl alcohol to remove the smoke and other residues. A commercial glass cleaner may be used, but residues must be removed with distilled water. Clean with a slow circular motion from center to edge. Dry with a clean, soft and lint-free cloth or compressed air.

Cleaning fan and air vents
Remove dust from the fans and air vents with a soft brush, cotton paper, vacuum, or compressed air.

6.2 Regular repair

Symptom Description	General Troubleshooting Methods	Treatment pair
Light fixture not powered on	Use a multimeter to check fuses.if the two ends of the fuses are not common,the fuses are burned.	Change the fuse
	Use a square meter to check the input and output of the switching power supply,if there is input,no output, the power supply is bad.	Replace the switching power supply
Lamp function is not controlled	Check that the light fixture address matches the console address.	Lighting panel settings:menu one address code
	Check that the control table lamp library is correct.	Provide the correct matching light library
	Check whether the display board 485 communication signal line is through.	Replace the 485 communication signal cable
	Observe whether the DMX display of the display board pulsates,such as flash pulsation,and the signal is not connected.	Replace the DMX signal cable
The XY axis is not controlled	Align the normal luminaire XY driver board with the defective luminaire XY driver board .	Replace the XY driver plate
	Check that the motor harnessis working.	Replace the motor harness
	Check that the XY motor induction magnet has come off.	Replacement magnet
	Switch the normal lamp filling encoder with the bad encoder.	Replace the optocoupler encoder
The XY axis is out of sync	Check for metal impurities between the sensor and the magnet.	Clean the magnet sensing position
	Check the belt tightness of the light fixture.	Adjust the lamp belt
Light bulb doesn't light	Broken light bulb.	Replace the light bulb
	Check that the ballast is working properly.	Replace ballast
	The temperature switch is faulty.	Replace the temperature switch
	Light bulb harness breaks.	Replace the bulb harness
The lamp automatically deflates the bubble	Check the light fixture display panel cooling fan speed.	Replace the FAN
	Lighting signal line interence.	Add a magnetic ring to the light signal cable and route it separately from the power cable
Strobe out of step	The strobe is out of step.	Replace the frequency lightning machine
	The lightning frequency driver board is faulty.	Replace the motor drive board
Spot out of position	Light bulb clamp loose.	Lock the bulb clamp plate
	XY run position.	Adjust the XY well
Fan not turning	Fan burned out.	Replace the FAN
	Fan FCB board is.	Replace the FAN adapter plate

Light fixture fiddling	The receiving mode is set incorrectly.	The receiving mode is set to DMX or ArtNet or automatic
	Dispaty driverboard failure.	Replace the display driver board
	Broken Signal line.	Replace the signal cable
Pattern run	Loose belt.	Adjust belt lock
	Pattern driver board malfunctions.	Replace the drive plate
CMY color run	Loose belt.	Adjust belt lock
	The CMY driver board is faulty.	Replace the drive plate
	The CMY motor is weak.	Replace motor
Dimming receives light inconsistently	Panel dimming mode Settings are inconsistent.	Set the same mode dimming curve

6.3 Troubleshooting

Display Board Error Information			
Error Location	**Troubleshooting Method**	**Error Location**	**Troubleshooting Method**
PAN Reset Error	Check if the X-axis Hall indicator light is on.	**GOBO Error**	Check if the GOBO magnet is detached.
	Check if the X-axis Hall component is detached.		Check if the GOBO Hall component is damaged.
	Check if the magnet below the X-axis Hall is detached.		Check if the GOBO wire harness terminal is loose.
	Check if the X-axis Hall wire harness terminal is loose.		Check if the GOBO motor has sufficient force.
	Check if the X-axis motor fastening screw is loose.		Check if the GOBO motor terminal is loose.
	Check if the X-axis motor rotates with sufficient force.		Check if the GOBO drive board circuit is damaged.
Tilt Reset Error	Check if the Y-axis Hall indicator light is on.		Check if the GOBO flange fastening screw is loose.
	Check if the Y-axis Hall component is detached.		Check if the GOBO interferes with other function discs.
	Check if the magnet below the Y-axis Hall is detached.	**Color Error**	Check if the Color filter magnet is detached.
	Check if the Y-axis Hall wire harness terminal is loose.		Check if the Color filter Hall component is damaged.
	Check if the Y-axis motor fastening screw is loose.		Check if the Color filter wire harness terminal is loose.
	Check if the Y-axis motor rotates with sufficient force.		Check if the Color filter motor has sufficient force.
ZOOM Error	Check if the ZOOM`s drive belt is loose.		Check if the Color filter motor terminal is loose.
	Check if the ZOOM`s sensing magnet is detached.		Check if the Color filter drive board circuit is damaged.
	Check if the ZOOM`s Hall component is detached.		Check if the Color filter flange fastening screw is loose.
	Check if the ZOOM`s Hall wire harness terminal is loose.		Check if the Color filter interferes with other function discs.

ZOOM Error	Check if the ZOOM motor is rotating.	**Cyan Error**	Check if the cyan disc is stuck during operation.
	Check if motor shaft pulley fastening screw is loose.		Check if the cyan disc interferes with other color discs.
	Check if the ZOOM`s fixing screw is loose.		Check if the motor wire terminal is loose.
Focus Error	Check if the Focus`s drive belt is loose.		Check if the travel trigger swith can be activated normally.
	Check if the Focus`s sensing magnet is detached.		Check if the drive belt is loose.
	Check if the Focus`s Hall component is detached.	**Magenta Error**	Check if the Magenta disc is stuck during operation.
	Check if the Focus`s Hall wire harness terminal is loose.		Check if the Magenta disc interferes with other color discs.
	Check if the Focus motor is rotating.		Check if the motor wire terminal is loose.
	Check if motor shaft pulley fastening screw is loose.		Check if the travel trigger swith can be activated normally.
	Check if the Focus`s fixing screw is loose.		Check if the drive belt is loose.
Frost Error	Check if the Frost motor has sufficient force.	**Yellow Error**	Check if the Yellow disc is stuck during operation.
	Check if Frost motor`s fastening screw is loose.		Check if the Yellow disc interferes with other color discs.
	Check if the Frost collides with the Prism.		Check if the motor wire terminal is loose.
	Check if the motor wire terminal is loose.		Check if the travel trigger swith can be activated normally.
Prism Error	Check if the Prism motor has sufficient force.		Check if the drive belt is loose.
	Check if the Prism motor`s fastening screw is loose.	**CTO Error**	Check if the CTO disc is stuck during operation.
	Check if the Prism collides with the Frost.		Check if the CTO disc interferes with other color discs.
	Check if the motor wire terminal is loose.		Check if the motor wire terminal is loose.
	Check if the Prism hall board os damaged.		Check if the travel trigger swith can be activated normally.
	Check if the Prism sensing magnet is detached.		Check if the drive belt is loose.

7/ Safety information

7.1 Routine maintenance

The following symbols are used to identify important safety information on the product and in this manual:

DANGER!
Safety hazard. Risk of severe injury or death.

DANGER!
Refer to manual before installing, powering or servicing.

DANGER!
Hazardous voltage. Risk of severe or lethal electric shock.

Warning!
Fire hazard.

Warning!
Risk of hand injury. Safety gloves must be worn.

Warning!
Do not stare at the bulb which is still on.

Warning!
Risk of eye injury. Safety glasses must be worn.

Warning!
Burn hazard. Hot surface. Do not touch.

Replace any cracked protective shield.

Minimum distance from lighted objects is 0.5m.

Do not direct lens to sun ray or strong light!

Luminaries not suitable for direct mounting on normally flammable surfaces (suitable only for mounting on non-combusible surfaces)

Do not actuate during operating.

t_c . . . °C

The surface's temperature is 70℃.

t_a . . . °C

Rated maximum ambient temperature is 40℃.

Protection against explosion

Protection screen must be replaced if they have become visible damaged to such an extent that their effectiveness is impaired.

Protection against burning or fire

Keep flammable materials far away from the fixture. Minimum distance from the flammable materials is 0.5m.

7. 2 Safety guidance

Notice!

Please read this manual carefully as it contains important information on installation,operation,and maintenance.

Note:

The equipment is packaged in good condition when leaving the factory .Please follow the user manual for operation . Damage caused by human factors is not covered under warranty.

●Before using the product , carefully inspect it after unpacking to ensure that the light fixture has not been damaged during transportation.

●The installation and operation of the light fixture should be carried out by professionals.

●Secure the light fixture using safe ropes.

●The device must be installed in a well-ventilated area, at least 50 cm away from adjacent surfaces.

●Ensure that the ventilation holes are unobstructed to prevent overheating during operation.

●Before operation , ensure that the power supply voltage matches the voltage required by the device.

●Ground the conductor to prevent electric shock.

●Do not operate the light fixture in environments below -10℃ or above 40℃.

●Do not place flammable items near the light fixture during operation to prevent fire hazards.

●Before turning on the light fixture ,carefully check the power cord for damage . If damaged ,replace it immediately.

●Prevent flammable liquids, water, metal, and other conductive materials from entering the light fixture to avoid electric shock or fire.If foreign objects enter the fixture,immediately cut off the power supply.

●Avoid operating the light fixture in dirty or dusty environments ,and regularly clean and maintain the fixture.

●Do not touch the wires while the light fixture is operating to prevent electric shock.

●Avoid entangling the power cord with other cables.

8/ Light fixture installation and usage angle range

●Light fixture Installation Requirements:

1.Install at least 1 meter away from physical walls(to prevent collisions with objects during operation).

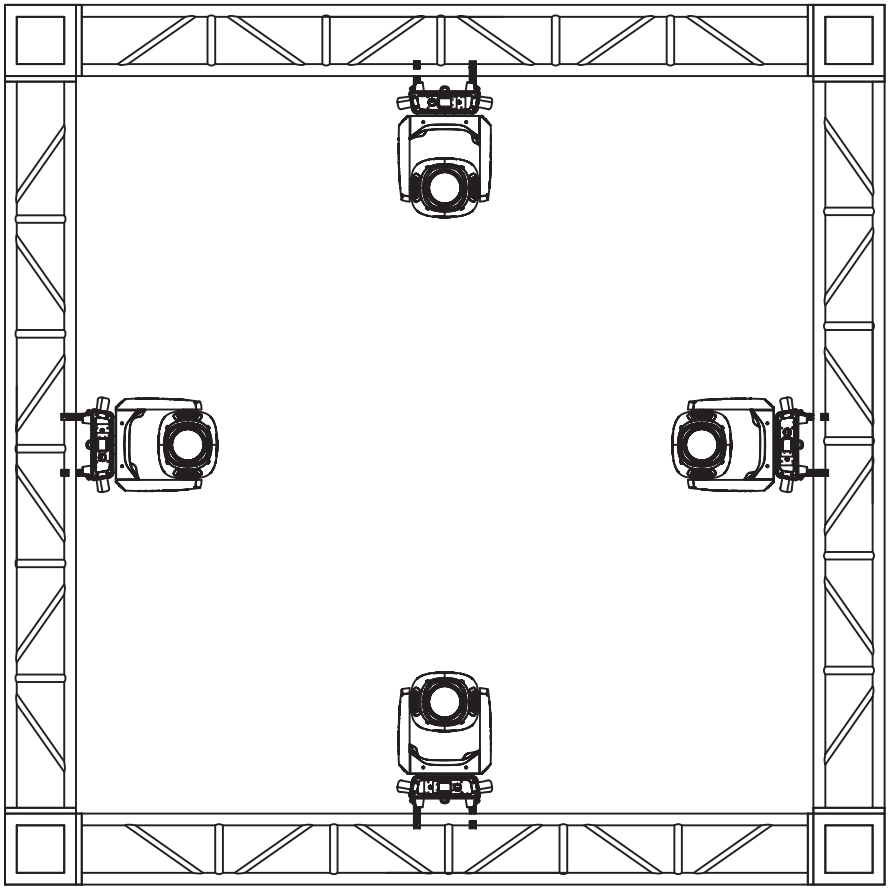
2.Ensure proper ventilation at the installation location to avoid affecting the light fixture`s heat dissipation.

3.Installation must be performed by professional personnel,and the light fixture must be placed outside human activity areas.

4.After installation,equip the light fixture with a safety rope capable fo bearing at least 10 times its weight as secondary protection to prevent falling.

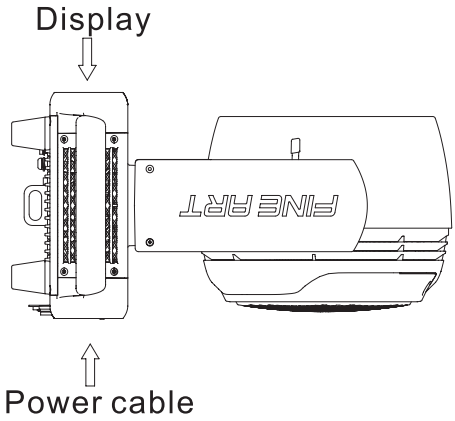
5.Three installation methods:

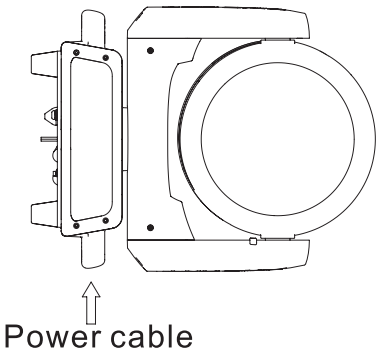
suspension mounting / side mounting / flat mounting.



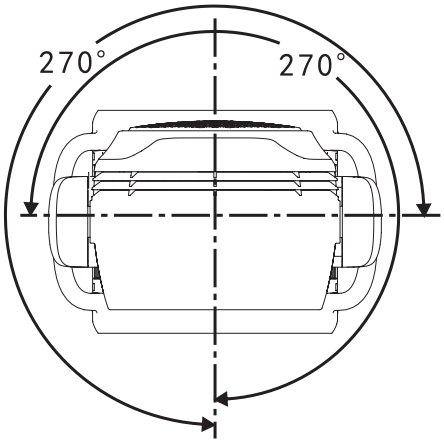
Notice!

when the light fixture is mounted sideways,to maintain the integrity of the light fixture`s Ip66 rating,all cables must be laid facing the ground to prevent water accumulation at the connection ponts.

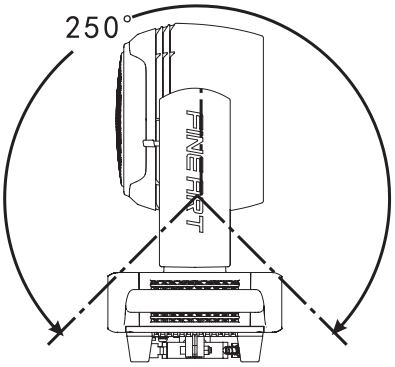




● TILT & PAN

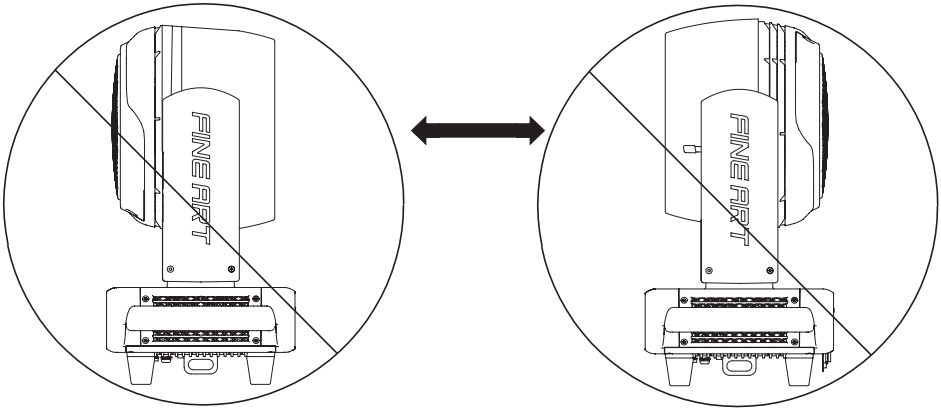


[PAN]

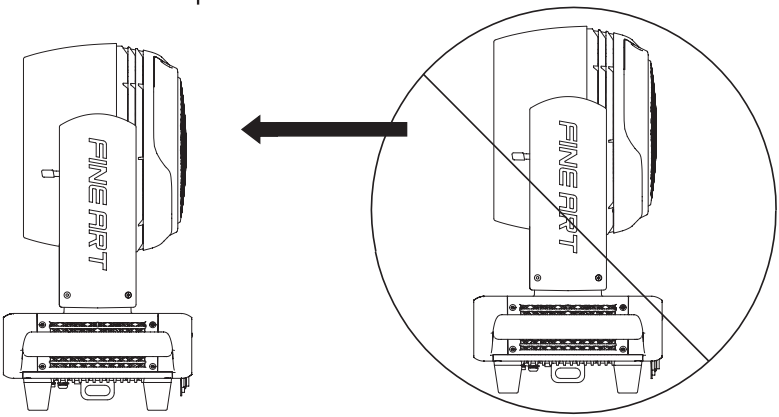


[TILT]

♦ Do not direct the beam of one light fixture directly at the light exit lens of another light fixture during use ,to avoid light source focusing and prevent damage to internal components.



♦ Do not allow the beam of one light fixture to directly and continuously shine on the heat sink of another light fixture during use ,to avoid affecting the light fixture`s heat dissipation.



9/ Product Connection

9.1 Included items

The fixture is packed with flight case.One single standard flight case carries 2 fixtures, Included items listed below (shown as table 9.1-1):

Accessories	QTY	UNIT
Safety wire	1	PCS
User manual	1	PCS
Signal cable	1	PCS
Power cable	1	PCS

Table(9.1-1)

9.2 Power Connection

Power supply and fuses' type and rating:

Power	Fuse
100-240V~	-

Table(9.2-1)

Notice: Type X attachment for power supply connection. Method of attachment of the cable or cord such that any replacement can only be made by the manufacturer, his service agent or similarly qualified person.

The person must have the relevant qualification to connect the power supply. The AC power voltage shall be suitable to the lamp provided with over-loading or creepage protection.

1. Connecting the equipment to the power supply, do not connect to silicon box system, or else, it will destroy the equipment.
   The fixture is provided with standard 3-pin socket. Please according to table 9.2-2 connect to power supply, Yellow/green line must be earthed. If you still have any question to the installation, please consultant with the experienced electrician.

Color	Wire	Mark
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	⏚

Table(9.2-2)

9.3 Signal Connection

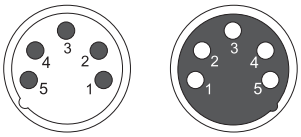
Data linkage for the fixture may be provided by DMX512 connection .

DMX connection

Note: The signal cable was type X connection.

Type X connection—if the external flexible cable or cord of this fixture is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or his service agent.

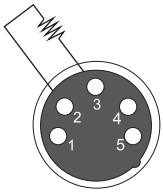
3-pin or 5pin XLR connecters are provided for fixture DMX input and output. Pin 1 is for earthing, pin 2 is for minus signals, and pin 3 is for plus signals. To prevent and absorb the reflection and interference of the signals, each data link must be ended by a respective terminator.



5-pin XLR connector

Pin1: GND
Pin2: Signal(-)
Pin3: Signal(+)
Pin4:Enpty
Pin5:Enpty

Fig.(9.3-1)



Terminator

Terminator specification: a 120Ω plug-in resistor with rated power of 0.25W, soldered between pin 2 and pin 3 at the end of respective data link.

Connect the fixtures with Max 5 pieces. Make sure to insert the “signal in” terminal in the last connecting fixture. shown in Figure9.3-2.

Note: Make sure the fixture vertically upwards when it is placed horizontally, the safe distance between two adjacent fixtures must be ≥ 200mm.

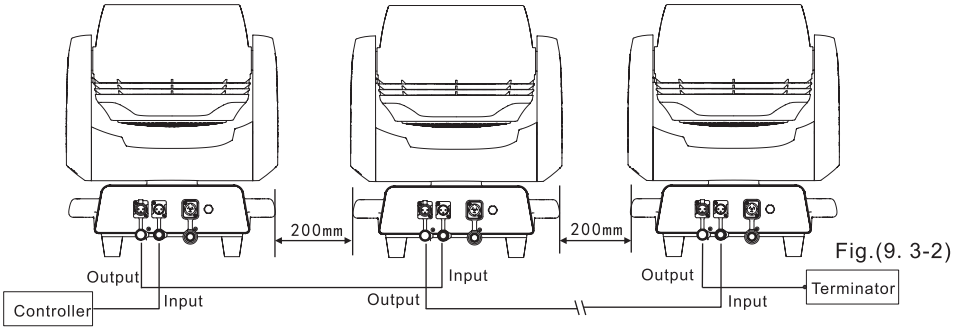


Fig.(9. 3-2)

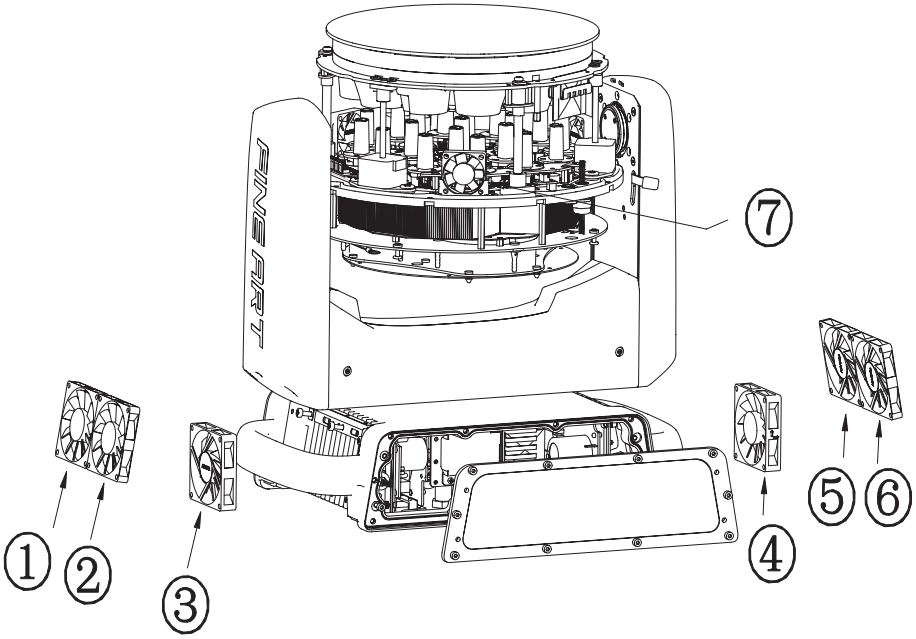
If long-distance data transfer occurs, a DMX512 signal amplifier is necessary. The added amplifier is inserted between the lighting controller and the first fixture on the basis of a normal data link.

Notice!

1. No more than one signal input or output can occur in one fixture.
2. Don’t split a data link via output ports on the fixture, use a DMX512 signal amplifier instead, if necessary.
3. Use only shielded-pair cables, and standard microphone cable is not reliable for long-distance data transfer.

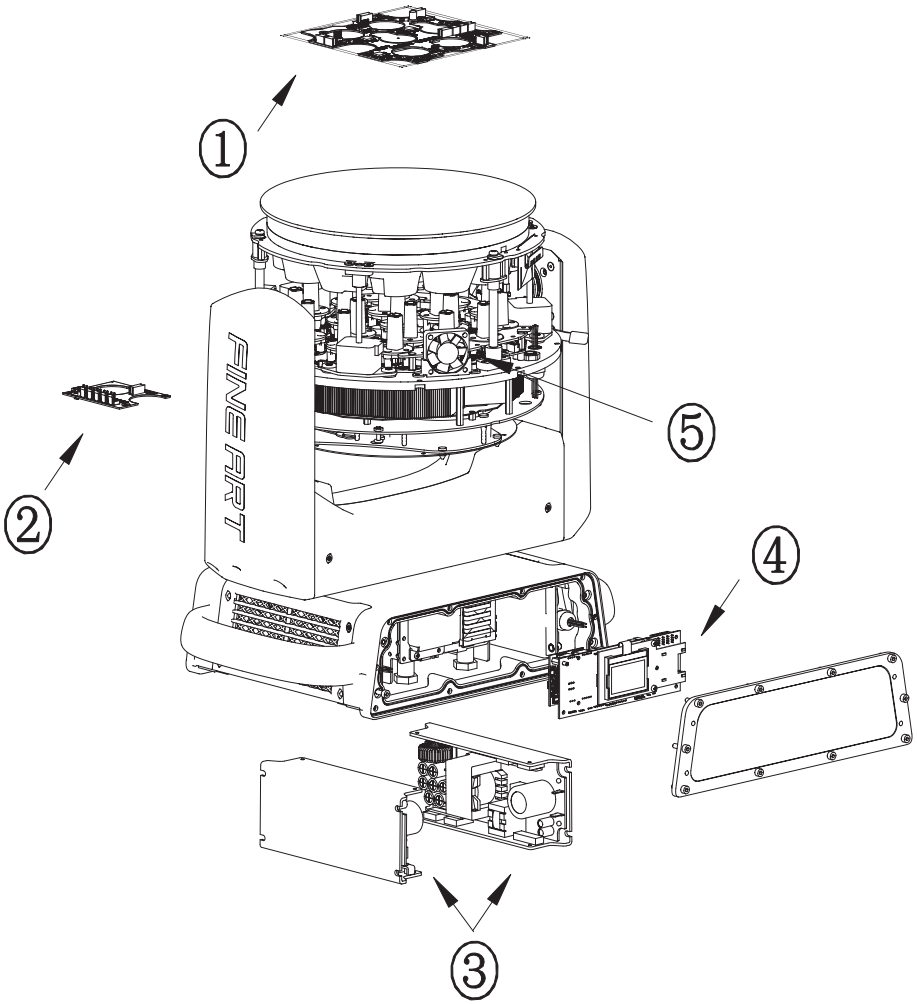
10/ Light fixture fan and PCB layout exploded view

10.1 Light fixture fan layout exploded view



Number	Article number	Item name
1	150101000241	YDM7010B12
2	150101000241	YDM7010B12
3	150101000221	YDM7015B12
4	150101000221	YDM7015B12
5	150101000241	YDM7010B12
6	150101000241	YDM7010B12
7	150101000136	MF40101V1-1000C-A99

10.2 PCB layout exploded view



Number	Article number	Item name
1	330712100252	CTRL AND MOTOR V1. 8
2	330712100253	AND RS485 V1. 8
3	330001200158	LP1500-220WPF48M-2B
4	330397100196	Display board
5	330712100251	LED AND DRIVE V1. 8

FINE ART Website

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