FOS PULSE BAR IP65



User Manual

Please read the instruction carefully before use

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WARNING

Please read the instruction carefully which includes important information

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction manual.

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

- Unpack and check carefully to ensure that there is no transportation damage before using the unit.
- This product is suitable for wet locations. Do not immerse in water.
- DO install and operate by qualified operator.
- DO NOT allow children to operate the fixture.
- Use safety chain when fixing the unit. Handle the unit by carrying its base instead of head only.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Be sure that no ventilation slots is blocked, otherwise the unit will be overheated.
- Before operation, ensure that you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- Minimum ambient temperature TA: 0℃. Maximum ambient temperature TA: 40℃. Do not operate this product at a lower or higher temperature.
- DO NOT connect the device to any dimmer pack.
- Keep flammable materials away from the fixture while operating to avoid fire hazard.

- Make sure the power cord is not crimped or damaged; replace it immediately if damaged.
- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.
- DO NOT operate in a dirty or dusty environment. DO clean the fixture regularly.
- DO NOT touch any wire during operation as there might be a hazard of electric shock.
- Avoid entanglement of the power cord with other wires.
- In the event of serious operating problem, stop using the unit immediately.
- Never turn on and off the unit time after time.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.
- DO NOT open the housing as there are no user serviceable parts inside.
- DO NOT attempt to operate this unit if it becomes damaged. DO NOT attempt any repairs yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center if needed.
- Disconnect this product from its power source before servicing.
- DO use the original packaging if the device is to be transported.
- Avoid direct eye exposure to the light source while the product is on.

02/ Technical Specifications

Power Voltage	100-240V ~ 50/60Hz	
Power Consumption	1100W	
Light Source	980 x 1W RGB LEDs , 392 x 2W Cool White LEDs	
Beam Angle	120 deg (RGB),60 deg(Cool White)	
Dimmer/Strobe	0-100% smooth dimming; high output strobe effect	
Control	DMX Channel	3CH Xenon Strobe/11CH Simple Strobe/18CH Standard
		22CH Strobe FX
		52CH Large Pixel
		92CH Simple PXL/132CH Basic Full
		140CH Basic Full
		234CH PXL Focus
		242CH Full mode
		220CH Raw Mode/236CH Raw Mode
		258CH Full Mode
	Control Mode	DMX512
		RDM
		Master/Slave
		Manual/Stand-alone
		Art-Net
	Firmware Upgrade	Firmware upgrade via DMX link
Construction	Display	OLED touch display
	Data IN/Out	3-pin XLR or 5-pin XLR
	Power In/Out	IP65 Tru1 connector
Features	High power for washing and strobe effect	
Dimensions	100x16x22cm	
Weight	12.5kg	



1. Display	To show the various menus and the selected function	
2. Buttons	MENU	To enter into move backward or leave the menu
	^ UP	To go backward to move up in the menu
	ˇ DOWN	To go forward to move down in the menu
	ENTER	To perform the desired functions
3. Air value		
4. POWER IN	To connect to supply power	
5. POWER OUT	To connect to the next fixture	
6. DMX OUT	For DMX512 link, use 5-pin XLR cable to link the next units to output DMX signal (3-pin XLR cable is optional)	
7. DMX IN	For DMX512 link, use 5-pin XLR cable to link the unit and DMX controller to input DMX signal (3-pin XLR cable is optional)	
8. Art-Net IN	For ethernet connection.	
9. Art-Net OUT	For ethernet connection.	

4.1 Main Functions

- To access the control menus, press the [MENU] button.
- Navigate the menu structure, using the [ENTER], [^ UP] and [ˇ DOWN] buttons.
- To select a menu option or to confirm a selection, press the [ENTER] button. 4 To return to a higher level in the menu structure without making a change, press the [MENU] button, or wait 30 seconds.

The screen will be automatically locked if there is no operation for a long time, and can be unlocked by long-pressing the [MENU]

MENU	SUBMENU	OPTIONS	
DMX Address	001-512		
Channel	3/11/22/52/92/234/132/242/220/140/258/236/18CH		
Net Set	Signal	Auto	
		Art-Net	
		sACN	
	Art-Net Universe	0 – 32767(Default 1)	
	sACN Universe	1-32000	
	IP Address	2.x.x.x	
Personal	No DMX	Hold	
		Blackout	
	Dimmer Curve	Linear	
		Exponential	
		Logarithmic	
		S-Curve	
	Dimmer Response	LED	
		Mode 1	
		Mode 2	
		Mode 3	

		Mode 4	
		Mode 5	
	Zone Flip	Default Layout	
		Flip Horizontal	
		Flip Vertical	
		Flip Horz & Vert	
	Zone Linking	Halo RGB Link to Halo W	
		Halo RGB Link to Glow RGB	
	LED Power Limit	50%	
		60%	
		70%	
		80%	
		90%	
		100%	
	Display	Back.L	ON
			60S
			120S
			300S
		Rotate	Normal
			180°
		Menu Lock	OFF
			ON
		Language	English
			中文
	Master	OFF/ON	
	Channels Extend	Standard mode	
		Extend Mode	(password 1122)
	Default	No/Yes	
Stand Alone	Manual	Dimmer	0-255
		Glow Red	0-255
		Glow Green	0-255
		Glow Blue	0-255
		Halo White	0-255

		Halo Red	0-255
		Halo Green	0-255
		Halo Blue	0-255
		Strobe	0-255
	Auto	Effect	1 - 33
		Speed	0-255
		Dimmer	0-255
		Strobe	0-255
Information	On time	xxxxxH	
	LED Hours	xxxxxH	
	Version		
	RDM UID		
	Temperature	Temp 1	Unit(℃/℉)
		Temp 2	

Note:Standard mode is using without Efrost.
Extend mode is for Efrost purpose.

DMX Setting

Enter the control menu and select DMX Setting, press ENTER. Use the UP/DOWN button to select DMX Address, Ethernet Setup or Connect Option.

DMX Address

Select **DMX Address**, press ENTER.

Use UP/DOWN button to select an address, confirm your selection with ENTER.

Standard mode:

CHANNEL MODE	DMX ADDRESS
3 Channel	1-510
11 Channel	1-502
22 Channel	1-491
52 Channel	1-461
92 Channel	1-421
234 Channel	1-279
132 Channel	1-381
242 Channel	1-271
220 Channel	1-293
140 Channel	1-373
258 Channel	1-255
236 Channel	1-277
18 Channel	1-495

To exit the menu,press Menu.

Extend mode:

CHANNEL MODE	DMX ADDRESS
4 Channel	1-509
12 Channel	1-501
23 Channel	1-490
53 Channel	1-460
93 Channel	1-420
235 Channel	1-278
133 Channel	1-380
243 Channel	1-270
221 Channel	1-292
141 Channel	1-372
259 Channel	1-254
237 Channel	1-276
19 Channel	1-494

To exit the menu,press Menu.

Channels Mode

Select Channel Mode, press ENTER.
Use UP/DOWN button to select between 3 Channel , 11 Channel , 22 Channel, 52 Channel, 92 Channel, 234 Channel,132 Channel,242 Channel,220 Channel,140 Channel,258 Channel,236 Channel,18 Channel,confirm your selection with ENTER. (Standard mode)

Use UP/DOWN button to select between 4 Channel , 12 Channel , 23 Channel, 53 Channel, 93 Channel, 235 Channel,133 Channel,243 Channel,221 Channel,141 Channel,259 Channel,237 Channel,19 Channel,confirm your selection with ENTER.(Extend mode)
To exit the menu, press MENU.

Dimmer Curve

Select Dimmer Curve, press ENTER.
Use UP/DOWN button to select Fast or Smooth, confirm your selection with ENTER.
To exit the menu, press MENU.

Language

Select Language, press ENTER.
Use UP/DOWN button to select English or Chinese, confirm your selection with ENTER.
To exit the menu, press MENU.

Manual

Select Manual , press ENTER.
Use UP/DOWN button to select Halo Red, Halo Green, Halo Blue, Halo White, Glow White, Strobe, confirm your selection with ENTER.
Use UP/DOWN button to select a value between 0 and 255, confirm your selection with ENTER.
To exit the menu, press MENU.

Auto

Select Auto, press ENTER.
The device immediately performs an automatic self-test.

To end the automatic self-test and exit the menu, press MENU.

Temperature

Select Temperature, press ENTER.
This "Temperature" function allows you to read out the current temperature inside the device in degrees Celsius. The display shows " XXX C”.

On Time

This "On Time" function is used to record the temporary operating hours of the device since it was switched on. These are deleted again when the device is switched off. The display shows "XXXXXH", "X" stands for the number of hours.

RDM UID

This device supports RDM (Remote Device Management), which makes remote control of devices connected to the DMX bus possible.

Software Version

Select Software Version, press ENTER.
The firmware version is displayed.
To exit the menu, press MENU.

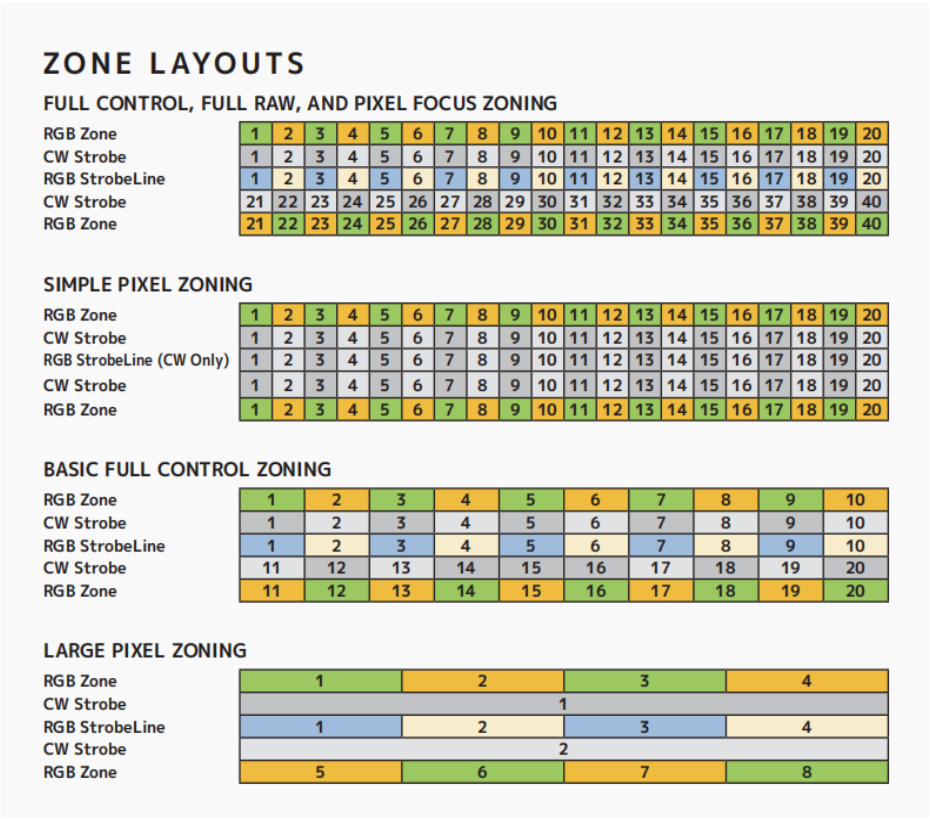
Factory Reset

Select Default, press ENTER.
If you wish to reset the device to the factory settings, select Yes.
If you do not wish to reset anything, select No. Confirm your selection with ENTER.

5.1 DMX512 Connection

1. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
2. Connect the unit together in a "daisy chain" by XLR plug cable from the output of the unit to the input of the next unit. The cable can only be used in series and cannot be connected in parallel. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
4. Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
5. The end of the DMX 512 system should be terminated to reduce signal errors.
6. 3 pin XLR connectors are more popular than 5 pins 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 (+), Pin4, Pin5 not used.

LED Arrangement



ZONE LAYOUTS

FULL CONTROL, FULL RAW, AND PIXEL FOCUS ZONING

RGB Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CW Strobe	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RGB StrobeLine	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CW Strobe	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
RGB Zone	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

SIMPLE PIXEL ZONING

RGB Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CW Strobe	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RGB StrobeLine (CW Only)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CW Strobe	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
RGB Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

BASIC FULL CONTROL ZONING

RGB Zone	1	2	3	4	5	6	7	8	9	10
CW Strobe	1	2	3	4	5	6	7	8	9	10
RGB StrobeLine	1	2	3	4	5	6	7	8	9	10
CW Strobe	11	12	13	14	15	16	17	18	19	20
RGB Zone	11	12	13	14	15	16	17	18	19	20

LARGE PIXEL ZONING

RGB Zone	1	2	3	4
CW Strobe	1			
RGB StrobeLine	1	2	3	4
CW Strobe	2			
RGB Zone	5	6	7	8

5.2 DMX512 Configuration

Please control the fixture by referring to the configurations below.

Attentions:

- The unit will maintain the last condition until reset if you cut-off the DMX signal.
- For the channel Function, keep the value for about 3 seconds, then the corresponding function will take into effect.

Functions in DMX mode

Fixture Part Name	Xenon Strobe 3CH/4CH	Simple Strobe 11CH/12CH	Strobe FX 22CH/23CH	Large Pixel 52CH/53CH	Simple Pixel 92CH/93CH	Pixel Focus 234CH/235CH	Basic Full 132CH/133CH	Full Ctrl 242CH/243CH	Raw Mode 220CH/221CH	DMX Values	Function
Main Fixture	1		1	1		1	1	1		0-255	**Master dimmer**
											Intensity 0 → 100%
		1	2	2	1	2	2	2		0-255	**Strobe dimmer**
											Intensity 0 → 100%
	2	2	3	3	2	3	3	3		0-255	**CW Strobe Duration**
											Min → Max
	3	3	4	4	3	4	4	4		0-255	**CW Strobe Rate**
											Fast → Slow
	4	4	5	5	4	5	5	5			**CW Strobe Mode**
										0-31	Single Strobe/Standard Mode
										32-63	Ramp Up
										64-95	Ramp Down
										96-127	Ramp Up → Ramp Down
										128-159	Random
										160-191	Double Flash
										192-223	Triple Flash
										224-255	No Effect
		5	6	6	5	6	6	6		0-255	**RGB Dimmer**
											Intensity 0 → 100%
		6	7	7	6	7	7	7		0-255	**RGB Strobe Duration**
											Min → Max
		7	8	8	7	8	8	8		0-255	**RGB Strobe Rate**
											Fast → Slow
		8	9	9	8	9	9	9			**RGB Strobe Mode**
										0-31	Single Strobe/Standard Mode
										32-63	Ramp Up

										64-95	Ramp Down
										96-127	Ramp Up → Ramp Down
										128-159	Random
										160-191	Double Flash
										192-223	Triple Flash
										224-255	No Effect
		9	10	10	9	10	10	10		0-255	**ALL RED**
											Red Saturation 0 → 100%
		10	11	11	10	11	11	11		0-255	**ALL GREEN**
											Green Saturation 0 → 100%
		11	12	12	11	12	12	12		0-255	**ALL BLUE**
											Blue Saturation 0 → 100%
			13				13	13			**CW Strobe Effect Selection**
											FX Selection 1 → 255
			14				14	14			**CW Strobe Effect Speed**
										0-126	Slow → Fast
										127-128	Stop
										129-255	Rev Fast → Slow
			15				15	15			**CW Strobe Effect Size**
										0-50	Idle
										51-60	1 Zone
										61-70	2 Zone
Fixture Part Name	**Xenon Strobe 3CH/4CH**	**Simple Strobe 11CH/12CH**	**Strobe FX 22CH/23CH**	**Large Pixel 52CH/53CH**	**Simple Pixel 92CH/93CH**	**Pixel Focus 234CH/235CH**	**Basic Full 132CH/133CH**	**Full Ctrl 242CH/243CH**	**Raw Mode 220CH/221CH**	**DMX Values**	**Function**
Main Fixture			15				15	15		71-80	4 Zone
										81-90	8 Zone
										91-100	10 Zone
										101-110	20 Zone
										121-120	40 Zone
										121-255	Idle
			16				16	16			**CW Strobe Effect FADE**
										0 - 255	Fade from 0 to 5s
			17				17	17		0-255	**RGB Effect Selection**
											FX Selection 1 → 255
			18				18	18			**RGB Effect Speed**
										0-126	Slow → Fast
										127-128	Stop
										129-255	Rev Fast → Slow
			19				19	19			**RGB Effect Size**
										0-50	Idle
										51-60	1 Zone

										61-70	2 Zone
										71-80	4 Zone
										81-90	8 Zone
										91-100	10 Zone
										101-110	20 Zone
										121-120	40 Zone
										121-255	Idle
			20				20	20			**RGB Effect FADE**
										0 - 255	Fade from 0 to 5s
			21	13		13	21	21			**Dim Modes**
										0 - 20	LED
										21 - 40	Mode 1
										41 - 60	Mode 2
										61 - 80	Mode 3
										81 - 255	Idle
			22	14	12	14	22	22			**Control**
										0 - 170	Idle
											Zone Flip
										171-172	Default Zone Arrangement
										173-174	Flip Zones Horizontally
										175-176	Flip Zones Vertically
										177-178	Flip Zones Horizontally and Vertically
Fixture Part Name	**Xenon Strobe 3CH/4CH**	**Simple Strobe 11CH/12CH**	**Strobe FX 22CH/23CH**	**Large Pixel 52CH/53CH**	**Simple Pixel 92CH/93CH**	**Pixel Focus 234CH/235CH**	**Basic Full 132CH/133CH**	**Full Ctrl 242CH/243CH**	**Raw Mode 220CH/221CH**	**DMX Values**	**Function**
										179-183	Idle
											Zone Linking
										184-185	Halo RGB Link to Halo W
										186-187	Halo RGB Link to Glow RGB
										188-200	Idle
Main Fixture			22	14	12	14	22	22			**Dimmer Curves**
										201-210	Dimmer Curve: Linear (Default)
										211-220	Dimmer Curve: Square
										221-230	Dimmer Curve: Inverse Square
										231-240	Dimmer Curve: S-Curve
										241-255	Idle
				15	13	15	23	23	1	0-255	Red 1
											Red Saturation 0 → 100%
Pixel 1				16	14	16	24	24	2	0-255	Green 1
											Green Saturation 0 → 100%
				17	15	17	25	25	3	0-255	Blue 1
											Blue Saturation 0 → 100%
Pixel 2				18	16	18	26	26	4		Red 2

										0-255	Red Saturation 0 → 100%
				19	17	19	27	27	5	0-255	Green 2 Green Saturation 0 → 100%
				20	18	20	28	28	6	0-255	Blue 2 Blue Saturation 0 → 100%
Pixel 3				21	19	21	29	29	7	0-255	Red 3 Red Saturation 0 → 100%
				22	20	22	30	30	8	0-255	Green 3 Green Saturation 0 → 100%
				23	21	23	31	31	9	0-255	Blue 3 Blue Saturation 0 → 100%
Pixel 4				24	22	24	32	32	10	0-255	Red 4 Red Saturation 0 → 100%
				25	23	25	33	33	11	0-255	Green 4 Green Saturation 0 → 100%
				26	24	26	34	34	12	0-255	Blue 4 Blue Saturation 0 → 100%
Pixel 5				27	25	27	35	35	13	0-255	Red 5 Red Saturation 0 → 100%
				28	26	28	36	36	14	0-255	Green 5 Green Saturation 0 → 100%
				29	27	29	37	37	15	0-255	Blue 5 Blue Saturation 0 → 100%
Pixel 6				30	28	30	38	38	16	0-255	Red 6 Red Saturation 0 → 100%
				31	29	31	39	39	17	0-255	Green 6 Green Saturation 0 → 100%
				32	30	32	40	40	18	0-255	Blue 6 Blue Saturation 0 → 100%
Pixel 7				33	31	33	41	41	19	0-255	Red 7 Red Saturation 0 → 100%
				34	32	34	42	42	20	0-255	Green 7 Green Saturation 0 → 100%
				35	33	35	43	43	21	0-255	Blue 7 Blue Saturation 0 → 100%
Pixel 8				36	34	36	44	44	22	0-255	Red 8 Red Saturation 0 → 100%
				37	35	37	45	45	23	0-255	Green 8 Green Saturation 0 → 100%
				38	36	38	46	46	24	0-255	Blue 8 Blue Saturation 0 → 100%
Pixel 9					37	39	47	47	25	0-255	Red 9 Red Saturation 0 → 100%
					38	40	48	48	26		Green 9

										0-255	Green Saturation 0 → 100%
					39	41	49	49	27	0-255	Blue 9 Blue Saturation 0 → 100%
Pixel 10					40	42	50	50	28	0-255	Red 10 Red Saturation 0 → 100%
					41	43	51	51	29	0-255	Green 10 Green Saturation 0 → 100%
					42	44	52	52	30	0-255	Blue 10 Blue Saturation 0 → 100%
Fixture Part Name	Xenon Strobe 3CH/4CH	Simple Strobe 11CH/12CH	Strobe FX 22CH/23CH	Large Pixel 52CH/53CH	Simple Pixel 92CH/93CH	Pixel Focus 234CH/235CH	Basic Full 132CH/133CH	Full Ctrl 242CH/243CH	Raw Mode 220CH/221CH	DMX Values	Function
Pixel 11					43	45	53	53	31	0-255	Red 11 Red Saturation 0 → 100%
					44	46	54	54	32	0-255	Green 11 Green Saturation 0 → 100%
					45	47	55	55	33	0-255	Blue 11 Blue Saturation 0 → 100%
Pixel 12					46	48	56	56	34	0-255	Red 12 Red Saturation 0 → 100%
					47	49	57	57	35	0-255	Green 12 Green Saturation 0 → 100%
					48	50	58	58	36	0-255	Blue 12 Blue Saturation 0 → 100%
Pixel 13					49	51	59	59	37	0-255	Red 13 Red Saturation 0 → 100%
					50	52	60	60	38	0-255	Green 13 Green Saturation 0 → 100%
					51	53	61	61	39	0-255	Blue 13 Blue Saturation 0 → 100%
Pixel 14					52	54	62	62	40	0-255	Red 14 Red Saturation 0 → 100%
					53	55	63	63	41	0-255	Green 14 Green Saturation 0 → 100%
					54	56	64	64	42	0-255	Blue 14 Blue Saturation 0 → 100%
Pixel 15					55	57	65	65	43	0-255	Red 15 Red Saturation 0 → 100%
					56	58	66	66	44	0-255	Green 15 Green Saturation 0 → 100%
					57	59	67	67	45	0-255	Blue 15 Blue Saturation 0 → 100%

...	...	...	...	...	...	...	...	...	...	...	...
Pixel 20					70	72	80	80	58	0-255	Red 20 Red Saturation 0 → 100%
					71	73	81	81	59	0-255	Green 20 Green Saturation 0 → 100%
					72	74	82	82	60	0-255	Blue 20 Blue Saturation 0 →100%
Pixel 21						75		83	61	0-255	Red 21 Red Saturation 0 → 100%
						76		84	62	0-255	Green 21 Green Saturation 0 → 100%
						77		85	63	0-255	Blue 21 Blue Saturation 0 →100%
...	...	...	...	...	...	...	...	...	...	...	...
Pixel 40						132		140	118	0-255	Red 40 Red Saturation 0 → 100%
						133		141	119	0-255	Green 40 Green Saturation 0 → 100%
						134		142	120	0-255	Blue 40 Blue Saturation 0 →100%
CW Strobe 1				39	73	135	83	143	121	0-255	CW Strobe 1 Intensity 0 → 100%
CW Strobe 2				40	74	136	84	144	122	0-255	CW Strobe 2 Intensity 0 → 100%
CW Strobe 3					75	137	85	145	123	0-255	CW Strobe 3 Intensity 0 → 100%
CW Strobe 4					76	138	86	146	124	0-255	CW Strobe 4 Intensity 0 → 100%
CW Strobe 5					77	139	87	147	125	0-255	CW Strobe 5 Intensity 0 → 100%
CW Strobe 6					78	140	88	148	126	0-255	CW Strobe 6 Intensity 0 → 100%
CW Strobe 7					79	141	89	149	127	0-255	CW Strobe 7 Intensity 0 → 100%
CW Strobe 8					80	142	90	150	128	0-255	CW Strobe 8 Intensity 0 → 100%

Fixture Part Name	Xenon Strobe 3CH/4CH	Simple Strobe 11CH/12CH	Strobe FX 22CH/23CH	Large Pixel 52CH/53CH	Simple Pixel 92CH/93CH	Pixel Focus 234CH/235CH	Basic Full 132CH/133CH	Full Ctrl 242CH/243CH	Raw Mode 220CH/221CH	DMX Values	Function
CW Strobe 9					81	143	91	151	129	0-255	CW Strobe 9 Intensity 0 → 100%
CW Strobe 10					82	144	92	152	130	0-255	CW Strobe 10 Intensity 0 → 100%
...	...	...	...	...	...	...	...	...	...	...	
CW Strobe 19					91	153	101	161	139	0-255	CW Strobe 19 Intensity 0 → 100%
CW Strobe 20					92	154	102	162	140	0-255	CW Strobe 20 Intensity 0 → 100%
CW						155		163	141		CW Strobe 21

Strobe 21										0-255	Intensity 0 → 100%
CW Strobe 22						156		164	142	0-255	CW Strobe 22 Intensity 0 → 100%
...	...	...	...	...	...	...	...	...	...		
CW Strobe 38						172		180	158	0-255	CW Strobe 38 Intensity 0 → 100%
CW Strobe 39						173		181	159	0-255	CW Strobe 39 Intensity 0 → 100%
CW Strobe 40						174		182	160	0-255	CW Strobe 40 Intensity 0 → 100%
RGB StrobeLine 1				41		175	103	183	161	0-255	Strobe Line Red 1 Red Saturation 0 → 100%
				42		176	104	184	162	0-255	Strobe Line Green 1 Green Saturation 0 → 100%
				43		177	105	185	163	0-255	Strobe Line Blue 1 Blue Saturation 0 →100%
RGB StrobeLine 2				44		178	106	186	164	0-255	Strobe Line Red 2 Red Saturation 0 → 100%
				45		179	107	187	165	0-255	Strobe Line Green 2 Green Saturation 0 → 100%
				46		180	108	188	166	0-255	Strobe Line Blue 2 Blue Saturation 0 →100%
RGB StrobeLine 3				47		181	109	189	167	0-255	Strobe Line Red 3 Red Saturation 0 → 100%
				48		182	110	190	168	0-255	Strobe Line Green 3 Green Saturation 0 → 100%
				49		183	111	191	169	0-255	Strobe Line Blue 3 Blue Saturation 0 →100%
RGB StrobeLine 4				50		184	112	192	170	0-255	Strobe Line Red 4 Red Saturation 0 → 100%
				51		185	113	193	171	0-255	Strobe Line Green 4 Green Saturation 0 → 100%
				52		186	114	194	172	0-255	Strobe Line Blue 4 Blue Saturation 0 →100%
...	...	...	...	...	...	...	...	...	...		
RGB StrobeLine 18						226		234	212	0-255	Strobe Line Red 18 Red Saturation 0 → 100%
						227		235	213	0-255	Strobe Line Green 18

											Green Saturation 0 → 100%
						228		236	214	0-255	Strobe Line Blue 18
											Blue Saturation 0 →100%
RGB StrobeLine 19						229		237	215	0-255	Strobe Line Red 19
											Red Saturation 0 → 100%
						230		238	216	0-255	Strobe Line Green 19
											Green Saturation 0 → 100%
						231		239	217	0-255	Strobe Line Blue 19
											Blue Saturation 0 →100%
RGB StrobeLine 20						232		240	218	0-255	Strobe Line Red 20
											Red Saturation 0 → 100%
						233		241	219	0-255	Strobe Line Green 20
											Green Saturation 0 → 100%
						234		242	220	0-255	Strobe Line Blue 20
											Blue Saturation 0 →100%
Fixture Part Name	Xenon Strobe 3CH/4CH	Simple Strobe 11CH/12CH	Strobe FX 22CH/23CH	Large Pixel 52CH/53CH	Simple Pixel 92CH/93CH	Pixel Focus 234CH/235CH	Basic Full 132CH/133CH	Full Ctrl 242CH/243CH	Raw Mode 220CH/221CH	DMX Values	Function
EFrost	4	12	23	53	93	235	133	243	221	0-255	Electronic frost 0 – 100% linear

Basic Full 140CH/141CH(FROST)

Channel	Function	Value			Description
1	Master Dimmer	000	-	255	Intensity 0 → 100%
2	Strobe Dimmer	000	-	255	Intensity 0 → 100%
3	CW Strobe Duration	000	-	255	Min → Max
4	CW Strobe Rate	000	-	255	Fast → Slow
5	CW Strobe Mode	000	-	031	Single Strobe/Standard Mode
		032	-	063	Ramp Up
		064	-	095	Ramp Down
		096	-	127	Ramp Up → Ramp Down
		128	-	159	Random
		160	-	191	Double Flash
		192	-	223	Triple Flash

		224	-	255	No Effect
6	RGB Dimmer	000	-	255	Intensity 0 → 100%
7	RGB Strobe Duration	000	-	255	Min → Max
8	RGB Strobe Rate	000	-	255	Fast → Slow
9	RGB Strobe Mode	000	-	031	Single Strobe/Standard Mode
		032	-	063	Ramp Up
		064	-	095	Ramp Down
		096	-	127	Ramp Up → Ramp Down
		128	-	159	Random
		160	-	191	Double Flash
		192	-	223	Triple Flash
		224	-	255	No Effect
10	All Red	000	-	255	Red Saturation 0 → 100%
11	All Green	000	-	255	Green Saturation 0 → 100%
12	All Blue	000	-	255	Blue Saturation 0 → 100%
13	CW Strobe Effect Selection	000	-	255	FX Selection 1 → 255
14	CW Strobe Effect Speed	0	-	126	Slow → Fast
		127	-	128	Stop
		129	-	255	Rev Fast → Slow
15	CW Strobe Effect Size	0	-	50	Idle
		51	-	60	1 Zone
		61	-	70	2 Zone
		71	-	80	4 Zone
		81	-	90	8 Zone
		91	-	100	10 Zone
		101	-	110	20 Zone
		111	-	120	40 Zone
		121	-	255	Idle
16	CW Strobe Effect Offset	0	-	255	Fade from 0 to 5s
17	RGB Effect Selection	000	-	255	FX Selection 1 → 255

18	RGB Effect Speed	0	-	126	Slow → Fast
		127	-	128	Stop
		129	-	255	Rev Fast → Slow
19	RGB Effect Size	0	-	50	Idle
		51	-	60	1 Zone
		61	-	70	2 Zone
		71	-	80	4 Zone
		81	-	90	8 Zone
		91	-	100	10 Zone
		101	-	110	20 Zone
		111	-	120	40 Zone
		121	-	255	Idle
20	RGB Effect Offset	0	-	255	Fade from 0 to 5s
21	Dim Modes	0	-	20	LED
		21	-	40	Mode 1
		41	-	60	Mode 2
		61	-	80	Mode 3
		81	-	255	Idle
22	Control	0	-	170	Idle
					Zone Flip
		171	-	172	Default Zone Arrangement
		173	-	174	Flip Zones Horizontally
		175	-	176	Flip Zones Vertically
		177	-	178	Flip Zones Horizontally and Vertically
		179	-	183	Idle
					Zone Linking
		184	-	185	Halo RGB Link to Halo W
		186	-	187	Halo RGB Link to Glow RGB
		188	-	189	Idle
		190	-	191	Idle

		192	-	193	Idle
		194	-	200	Idle
					Dimmer Curves
		201	-	210	Dimmer Curve: Linear (Default)
		211	-	220	Dimmer Curve: Square
		221	-	230	Dimmer Curve: Inverse Square
		231	-	240	Dimmer Curve: S-Curve
		241	-	255	Idle
23	Red 1	000	-	255	Red Saturation 0 → 100%
24	Green 1	000	-	255	Green Saturation 0 → 100%
25	Blue 1	000	-	255	Blue Saturation 0 → 100%
26	Red 2	000	-	255	Red Saturation 0 → 100%
27	Green 2	000	-	255	Green Saturation 0 → 100%
28	Blue 2	000	-	255	Blue Saturation 0 → 100%
29	Red 3	000	-	255	Red Saturation 0 → 100%
30	Green 3	000	-	255	Green Saturation 0 → 100%
31	Blue 3	000	-	255	Blue Saturation 0 → 100%
...	...	...	...	...	...
80	Red 20	000	-	255	Red Saturation 0 → 100%
81	Green 20	000	-	255	Green Saturation 0 → 100%
82	Blue 20	000	-	255	Blue Saturation 0 → 100%
83	CW Strobe 1	000	-	255	Intensity 0 → 100%
84	CW Strobe 2	000	-	255	Intensity 0 → 100%
85	CW Strobe 3	000	-	255	Intensity 0 → 100%
...	...	...	...	...	...
108	CW Strobe 26	000	-	255	Intensity 0 → 100%
109	CW Strobe 27	000	-	255	Intensity 0 → 100%
110	CW Strobe 28	000	-	255	Intensity 0 → 100%
111	Strobe Line Red 1	000	-	255	Red Saturation 0 → 100%
112	Strobe Line Green 1	000	-	255	Green Saturation 0 → 100%

113	Strobe Line Blue 1	000	-	255	Blue Saturation 0 → 100%
...	...	...	...	...	...
138	Strobe Line Red 10	000	-	255	Red Saturation 0 → 100%
139	Strobe Line Green 10	000	-	255	Green Saturation 0 → 100%
140	Strobe Line Blue 10	000	-	255	Blue Saturation 0 → 100%
141	Frost	000	-	255	Intensity 0 → 100%

Full Ctrl 258CH/259CH(FROST)

Channel	Function	Value			Description
1	Master Dimmer	000	-	255	Intensity 0 → 100%
2	Strobe Dimmer	000	-	255	Intensity 0 → 100%
3	CW Strobe Duration	000	-	255	Min → Max
4	CW Strobe Rate	000	-	255	Fast → Slow
5	CW Strobe Mode	000	-	031	Single Strobe/Standard Mode
		032	-	063	Ramp Up
		064	-	095	Ramp Down
		096	-	127	Ramp Up → Ramp Down
		128	-	159	Random
		160	-	191	Double Flash
		192	-	223	Triple Flash
		224	-	255	No Effect
6	RGB Dimmer	000	-	255	Intensity 0 → 100%
7	RGB Strobe Duration	000	-	255	Min → Max
8	RGB Strobe Rate	000	-	255	Fast → Slow
9	RGB Strobe Mode	000	-	031	Single Strobe/Standard Mode
		032	-	063	Ramp Up
		064	-	095	Ramp Down
		096	-	127	Ramp Up → Ramp Down
		128	-	159	Random
		160	-	191	Double Flash

		192	-	223	Triple Flash
		224	-	255	No Effect
10	All Red	000	-	255	Red Saturation 0 → 100%
11	All Green	000	-	255	Green Saturation 0 → 100%
12	All Blue	000	-	255	Blue Saturation 0 → 100%
13	CW Strobe Effect Selection	000	-	255	FX Selection 1 → 255
14	CW Strobe Effect Speed	0	-	126	Slow → Fast
		127	-	128	Stop
		129	-	255	Rev Fast → Slow
15	CW Strobe Effect Size	0	-	50	Idle
		51	-	60	1 Zone
		61	-	70	2 Zone
		71	-	80	4 Zone
		81	-	90	8 Zone
		91	-	100	10 Zone
		101	-	110	20 Zone
		111	-	120	40 Zone
		121	-	255	Idle
16	CW Strobe Effect Offset	0	-	255	Fade from 0 to 5s
17	RGB Effect Selection	000	-	255	FX Selection 1 → 255
18	RGB Effect Speed	0	-	126	Slow → Fast
		127	-	128	Stop
		129	-	255	Rev Fast → Slow
19	RGB Effect Size	0	-	50	Idle
		51	-	60	1 Zone
		61	-	70	2 Zone
		71	-	80	4 Zone
		81	-	90	8 Zone
		91	-	100	10 Zone
		101	-	110	20 Zone

		111	-	120	40 Zone
		121	-	255	Idle
20	RGB Effect Offset	0	-	255	Fade from 0 to 5s
21	Dim Modes	0	-	20	LED
		21	-	40	Mode 1
		41	-	60	Mode 2
		61	-	80	Mode 3
		81	-	255	Idle
22	Control	0	-	170	Idle
					Zone Flip
		171	-	172	Default Zone Arrangement
		173	-	174	Flip Zones Horizontally
		175	-	176	Flip Zones Vertically
		177	-	178	Flip Zones Horizontally and Vertically
		179	-	183	Idle
					Zone Linking
		184	-	185	Halo RGB Link to Halo W
		186	-	187	Halo RGB Link to Glow RGB
		188	-	189	Idle
		190	-	191	Idle
		192	-	193	Idle
		194	-	200	Idle
					Dimmer Curves
		201	-	210	Dimmer Curve: Linear (Default)
		211	-	220	Dimmer Curve: Square
		221	-	230	Dimmer Curve: Inverse Square
		231	-	240	Dimmer Curve: S-Curve
		241	-	255	Idle
23	Red 1	000	-	255	Red Saturation 0 → 100%
24	Green 1	000	-	255	Green Saturation 0 → 100%

25	Blue 1	000	-	255	Blue Saturation 0 → 100%
26	Red 2	000	-	255	Red Saturation 0 → 100%
27	Green 2	000	-	255	Green Saturation 0 → 100%
28	Blue 2	000	-	255	Blue Saturation 0 → 100%
29	Red 3	000	-	255	Red Saturation 0 → 100%
30	Green 3	000	-	255	Green Saturation 0 → 100%
31	Blue 3	000	-	255	Blue Saturation 0 → 100%
...	...	...	...	...	...
80	Red 20	000	-	255	Red Saturation 0 → 100%
81	Green 20	000	-	255	Green Saturation 0 → 100%
82	Blue 20	000	-	255	Blue Saturation 0 → 100%
...	...	...	...	...	...
137	Red 39	000	-	255	Red Saturation 0 → 100%
138	Green 39	000	-	255	Green Saturation 0 → 100%
139	Blue 39	000	-	255	Blue Saturation 0 → 100%
140	Red 40	000	-	255	Red Saturation 0 → 100%
141	Green 40	000	-	255	Green Saturation 0 → 100%
142	Blue 40	000	-	255	Blue Saturation 0 → 100%
143	CW Strobe 1	000	-	255	Intensity 0 → 100%
144	CW Strobe 2	000	-	255	Intensity 0 → 100%
...	...	...	...	...	...
196	CW Strobe 54	000	-	255	Intensity 0 → 100%
197	CW Strobe 55	000	-	255	Intensity 0 → 100%
198	CW Strobe 56	000	-	255	Intensity 0 → 100%
199	Strobe Line Red 1	000	-	255	Red Saturation 0 → 100%
200	Strobe Line Green 1	000	-	255	Green Saturation 0 → 100%
201	Strobe Line Blue 1	000	-	255	Blue Saturation 0 → 100%
202	Strobe Line Red 2	000	-	255	Red Saturation 0 → 100%
203	Strobe Line Green 2	000	-	255	Green Saturation 0 → 100%
204	Strobe Line Blue 2	000	-	255	Blue Saturation 0 → 100%

...	...	...	...	...	...
253	Strobe Line Red 19	000	-	255	Red Saturation 0 → 100%
254	Strobe Line Green 19	000	-	255	Green Saturation 0 → 100%
255	Strobe Line Blue 19	000	-	255	Blue Saturation 0 → 100%
256	Strobe Line Red 20	000	-	255	Red Saturation 0 → 100%
257	Strobe Line Green 20	000	-	255	Green Saturation 0 → 100%
258	Strobe Line Blue 20	000	-	255	Blue Saturation 0 → 100%
259	Frost	000	-	255	Intensity 0 → 100%

Raw Mode 236CH/237CH(FROST)

Channel	Function	Value			Description
1	Red 1	000	-	255	Red Saturation 0 → 100%
2	Green 1	000	-	255	Green Saturation 0 → 100%
3	Blue 1	000	-	255	Blue Saturation 0 → 100%
4	Red 2	000	-	255	Red Saturation 0 → 100%
5	Green 2	000	-	255	Green Saturation 0 → 100%
6	Blue 2	000	-	255	Blue Saturation 0 → 100%
7	Red 3	000	-	255	Red Saturation 0 → 100%
8	Green 3	000	-	255	Green Saturation 0 → 100%
9	Blue 3	000	-	255	Blue Saturation 0 → 100%
10	Red 4	000	-	255	Red Saturation 0 → 100%
11	Green 4	000	-	255	Green Saturation 0 → 100%
12	Blue 4	000	-	255	Blue Saturation 0 → 100%
...	...	...	...	...	...
58	Red 20	000	-	255	Red Saturation 0 → 100%
59	Green 20	000	-	255	Green Saturation 0 → 100%
60	Blue 20	000	-	255	Blue Saturation 0 → 100%
61	Red 21	000	-	255	Red Saturation 0 → 100%
62	Green 21	000	-	255	Green Saturation 0 → 100%
63	Blue 21	000	-	255	Blue Saturation 0 → 100%

...	...	...	...	...	...
115	Red 39	000	-	255	Red Saturation 0 → 100%
116	Green 39	000	-	255	Green Saturation 0 → 100%
117	Blue 39	000	-	255	Blue Saturation 0 → 100%
118	Red 40	000	-	255	Red Saturation 0 → 100%
119	Green 40	000	-	255	Green Saturation 0 → 100%
120	Blue 40	000	-	255	Blue Saturation 0 → 100%
121	CW Strobe 1	000	-	255	Intensity 0 → 100%
122	CW Strobe 2	000	-	255	Intensity 0 → 100%
123	CW Strobe 3	000	-	255	Intensity 0 → 100%
...	...	...	...	...	...
172	CW Strobe 52	000	-	255	Intensity 0 → 100%
173	CW Strobe 53	000	-	255	Intensity 0 → 100%
174	CW Strobe 54	000	-	255	Intensity 0 → 100%
175	CW Strobe 55	000	-	255	Intensity 0 → 100%
176	CW Strobe 56	000	-	255	Intensity 0 → 100%
177	StrobeLine Red 1	000	-	255	Red Saturation 0 → 100%
178	StrobeLine Green 1	000	-	255	Green Saturation 0 → 100%
179	StrobeLine Blue 1	000	-	255	Blue Saturation 0 → 100%
...	...	...	...	...	...
231	Strobe Line Red 19	000	-	255	Red Saturation 0 → 100%
232	Strobe Line Green 19	000	-	255	Green Saturation 0 → 100%
233	Strobe Line Blue 19	000	-	255	Blue Saturation 0 → 100%
234	Strobe Line Red 20	000	-	255	Red Saturation 0 → 100%
235	Strobe Line Green 20	000	-	255	Green Saturation 0 → 100%
236	Strobe Line Blue 20	000	-	255	Blue Saturation 0 → 100%
237	Frost	000	-	255	Intensity 0 → 100%

Standard 18CH/19CH(FROST)

Channel	Function	Value	Description

1	Master Dimmer	000	-	255	Intensity 0 → 100%
2	Strobe Dimmer	000	-	255	Intensity 0 → 100%
3	CW Strobe Mode	000	-	031	Single Strobe/Standard Mode
		032	-	063	Ramp Up
		064	-	095	Ramp Down
		096	-	127	Ramp Up → Ramp Down
		128	-	159	Random
		160	-	191	Double Flash
		192	-	223	Triple Flash
		224	-	255	No Effect
4	CW Effect	000	-	005	No Effect
		006	-	255	Auto effect
5	CW Effect Speed	0	-	126	Slow → Fast
		127	-	128	Stop
		129	-	255	Rev Fast → Slow
6	CW Effect Fade	000	-	255	Fast → Slow
7	RGB Dimmer	000	-	255	Intensity 0 → 100%
8	RGB Strobe Mode	000	-	031	Single Strobe/Standard Mode
		032	-	063	Ramp Up
		064	-	095	Ramp Down
		096	-	127	Ramp Up → Ramp Down
		128	-	159	Random
		160	-	191	Double Flash
		192	-	223	Triple Flash
		224	-	255	No Effect
9	All Red	000	-	255	Red Saturation 0 → 100%
10	All Green	000	-	255	Green Saturation 0 → 100%
11	All Blue	000	-	255	Blue Saturation 0 → 100%
12	RGB Effect	000	-	005	No Effect
		006	-	255	Auto effect

13	RGB Effect Speed	0	-	126	Slow → Fast
		127	-	128	Stop
		129	-	255	Rev Fast → Slow
14	RGB Effect Fade	000	-	255	Fast → Slow
15	Color Macro	000	-	255	Color Macro
16	Macro Dimmer	000	-	255	Intensity 0 → 100%
16	Dim Modes	0	-	20	LED
		21	-	40	Mode 1
		41	-	60	Mode 2
		61	-	80	Mode 3
		81	-	255	Idle
18	Control	0	-	170	Idle
					Zone Flip
		171	-	172	Default Zone Arrangement
		173	-	174	Flip Zones Horizontally
		175	-	176	Flip Zones Vertically
		177	-	178	Flip Zones Horizontally and Vertically
		179	-	183	Idle
					Zone Linking
		184	-	185	Halo RGB Link to Halo W
		186	-	187	Halo RGB Link to Glow RGB
		188	-	189	Idle
		190	-	191	Idle
		192	-	193	Idle
		194	-	200	Idle
					Dimmer Curves
		201	-	210	Dimmer Curve: Linear (Default)
		211	-	220	Dimmer Curve: Square
		221	-	230	Dimmer Curve: Inverse Square
		231	-	240	Dimmer Curve: S-Curve

		241	-	255	Idle
19	Frost	000	-	255	Intensity 0 → 100%

Error codes are shown continuously in the display when the fixture fails and they will not disappear until the fixture is repaired.

Temp. Error

Check whether the temperature detecting board is normal.
Check whether the components of the temperature detecting board are damaged.
Check whether the lead on the temperature detecting board is installed in place or disconnected.

Fan 1/2/3/4 Error

Check whether the fan is not running.
Check whether the fan leads are installed in place or disconnected. Check whether the fan is damaged.
Check whether there are obstacles in the fan operating range.
Check whether the fan circuit on the motherboard breaks down.
Check whether the component is damaged.
Check whether the fan is out of order.

07/ Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for troubleshooting:

A. The unit does not work, no light and the fan does not work

- Check the connected power.
- Measure the voltage.
- Check the power indicator to see whether it can be lit up or not.

B. Not responding to the DMX controller

- Check whether the DMX connectors and the DMX cables are connected correctly.
- Check whether the DMX address is correctly set.
- If the intermittent DMX signal problem occurs, check whether the XLR socket and the signal cable are well connected.
- Try it with another DMX controller.
- Check whether the DMX cables run near or alongside to the high-voltage cables, which may damage or interfere with the signal circuit.

08/ Fixture Cleaning

It is absolutely essential that the fixture is kept clean to ensure the maximum light-output and allow the fixture to function reliably throughout its life. The fixture must be cleaned regularly to avoid dust, dirt and smoke-fluid residues building up on or within the fixture. The cleaning frequency depends on the application environment. Clean the fixture immediately if the dust enters it to avoid damage to the optical lens due to excessive dust.

- A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.
- Always dry the parts carefully.
- Clean the external optical lens at least every 20 days.