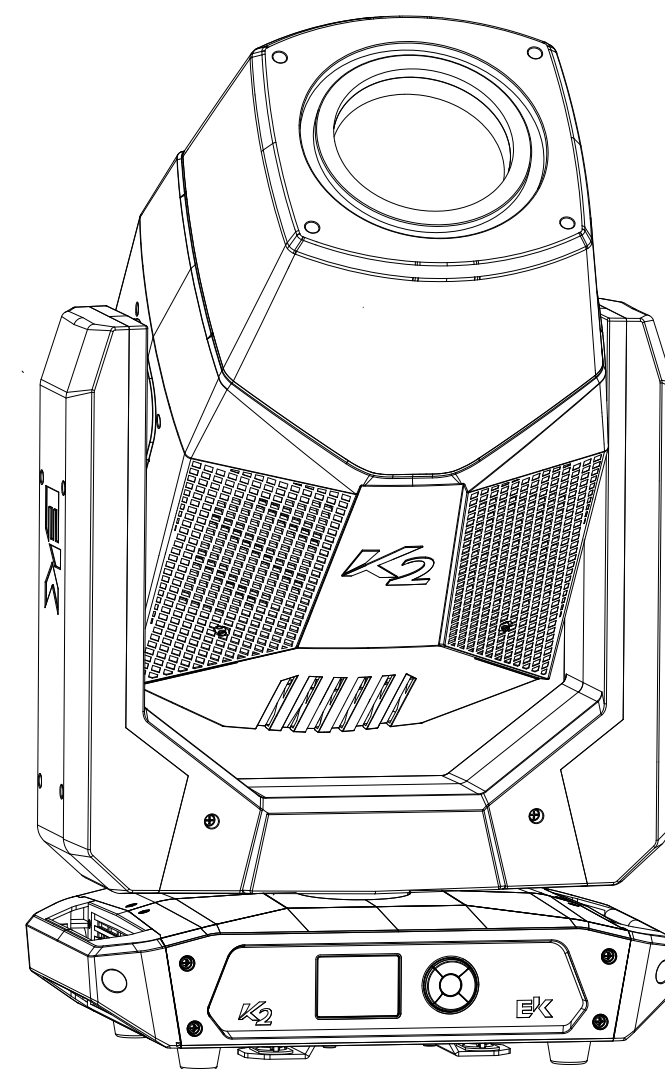




# *K<sub>2</sub>profile*

## USER MANUAL



LED moving profile with  
CMY color mixing system and  
6° - 48° motorized zoom

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33 Channel mode  
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Reminder: Key Lock Password = UP DOWN UP DOWN ENTER ENTER

DMX CHART

17	17	Frost	000-063	Frost Off	
			064-127	Frost 1 On	
			128-191	Frost 2 On	
			192-255	Frost 1 and Frost 2 On	
-	18	Auto Focus	000-000	Auto Focus Off	Spot
			001-007	4 metres	
			008-015	6 metres	
			016-023	8 metres	
			024-031	10 metres	
			032-039	12 metres	
			040-047	14 metres	
			048-055	16 metres	
			056-063	18 metres	Rotating gobo wheel
			064-071	4 metres	
			072-079	6 metres	
			080-087	8 metres	
			088-095	10 metres	
			096-103	12 metres	
			104-111	14 metres	
			112-119	16 metres	
18	19	Focus	120-127	18 metres	
			128-255	Reserved	
			000-255	Focus	
			000-255	Focus Fine	
19	20	Focus Fine	000-255	Focus Fine	
20	21	Zoom	000-255	Zoom	
21	22	Zoom Fine	000-255	Zoom Fine	
22	23	Effect	000-003	Open/No Function	
			004-127	Forward stop to fastest	
			128-131	Stop	
			132-255	Reverse stop to fastest	
23	24	Iris	000-063	From large to small	
			064-127	Open and close (slow to fast ramp effects)	
			128-191	Open from slow to fast (effects)	
			192-255	Close from slow to fast (effects)	
24	25	Framing Shutters Rotation	000-127	Rotation from left to center	
			128	Center	
			129-255	Rotation from center to right	
25	26	Framing Shutter 1	000-255	Movement from outward to inward	
26	27	Framing Shutter 1 swivelling	000-127	Swivelling from -25 degrees to 0 degrees	
			128	0 degrees	
			129-255	Swivelling from 0 degrees to +25 degrees	
27	28	Framing Shutter 2	000-255	Movement from outward to inward	
28	29	Framing Shutter 2 swivelling	000-127	Swivelling from -25 degrees to 0 degrees	
			128	0 degrees	
			129-255	Swivelling from 0 degrees to +25 degrees	
29	30	Framing Shutter 3	000-255	Movement from outward to inward	
30	31	Framing Shutter 3 swivelling	000-127	Swivelling from -25 degrees to 0 degrees	
			128	0 degrees	
			129-255	Swivelling from 0 degrees to +25 degrees	
31	32	Framing Shutter 4	000-255	Movement from outward to inward	
32	33	Framing Shutter 4 swivelling	000-127	Swivelling from -25 degrees to 0 degrees	
			128	0 degrees	
			129-255	Swivelling from 0 degrees to +25 degrees	
33	34	Control (hold 3 seconds)	000-007	No Function	Prism + Iris + Frost
			008-015	Reset All	
			016-023	Pan&tilt Reset	
			024-031	Effects Reset	
			032-039	Gobo Reset	
			040-047	Shutter Reset	Shutter module
			048-055	Other Reset	Zoom + Focus
			056-063	Color Reset	CMY + CTO + Color
			064-255	TBD (No Function)	

33CH	34CH	Function	Value	Percent/Setting	Defaults
1	1	Pan	000-255	Pan Coarse	
2	2	Pan Fine	000-255	Pan Fine	
3	3	Tilt	000-255	Tilt Coarse	
4	4	Tilt Fine	000-255	Tilt Fine	
5	5	Shutter	000-010	No function (shutter open)	
			011-082	Shutter effect slow to fast	
			083-093	No function (shutter open)	
			094-163	Pulse-effect in sequences	
			164-174	No function (shutter open)	
			175-223	Random Shutter effect slow to fast	
			224-255	No function (shutter open)	
6	6	Dimmer	000-255	0~100%	
7	7	Dimmer Fine	000-255	0~100%	
8	8	Cyan	000-255	0~100%	
9	9	Magenta	000-255	0~100%	
10	10	Yellow	000-255	0~100%	
11	11	CTO	000-255	0~100%	
12	12	Color	000-004	Open	1. Deep Red 2. Deep Blue 3. Primary Green 4. Half Minus Green 5. Light Orange 6. Congo Blue
			005-009	Open + Color 1	
			010-013	Color 1	
			014-018	Color 1 + Color 2	
			019-022	Color 2	
			023-027	Color 2 + Color 3	
			028-031	Color 3	
			032-036	Color 3 + Color 4	
			037-040	Color 4	
			041-045	Color 4 + Color 5	
			046-049	Color 5	
			050-054	Color 5 + Color 6	
			055-058	Color 6	
			059-063	Color 6 + Open	
			064-095	Stop to fast (Forward Spin)	
			096-127	Fast to stop (Reverse Spin)	
			128-255	Positioning from 0-360 degrees (Indexing)	
13	13	Rotating gobo wheel	000-005	Open	
			006-010	Position 1	
			011-015	Position 2	
			016-020	Position 3	
			021-025	Position 4	
			026-030	Position 5	
			031-035	Position 6	
			036-040	Position 7	
			041-055	Position 1 (Position 1 Shake, from slow to fast)	
			056-070	Position 2 (Position 2 Shake, from slow to fast)	
			071-085	Position 3 (Position 3 Shake, from slow to fast)	
			086-100	Position 4 (Position 4 Shake, from slow to fast)	
			101-115	Position 5 (Position 5 Shake, from slow to fast)	
			116-130	Position 6 (Position 6 Shake, from slow to fast)	
			131-145	Position 7 (Position 7 Shake, from slow to fast)	
			146-200	Stop to fastest (Forward Wheel Spin)	
			201-255	Stop to fastest (Reverse Wheel Spin)	
14	14	RGobo	000-191	Positioning from 0-360 degrees (Indexing)	
			192-221	Slowest to fastest (Forward Spin)	
			222-225	Stop	
			226-255	Fastest to Slowest (Reverse Spin)	
15	15	Prism	000-127	Prism Excluded	
			128-255	Prism Inserted	
16	16	RPrism	000-191	Insertion and Positioning from 0-360 (Index)	
			192-223	Slowest to fastest (Forward Spin)	
			224-255	fastest to Slowest (Reverse Spin)	




**WARNING!** Before carrying out any operations with the unit, carefully read this instruction manual and keep it with cure for future reference. It contains important information about the installation, usage and maintenance of the unit.



SAFETY

General instruction

- The products referred to in this manual conform to the European Community Directives and are therefore marked with **CE**.
- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
  - in places subject to vibrations or bumps;
  - in places with a temperature of over 40 °C.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling  plant for a disposal which is not harmful to the environment.

Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the projector, cut off power from the main supply.
- Always additionally secure the projector with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable material at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e. g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

K2 HR : High CRI for critical key lighting applications

FEATURES

- Linear CMY color mixing + color wheel/split colors
- Extremely even spot with flawless field consistency
- Proprietary innovative 4x independent framing shutter system
- Flawless 16-bit 540°/270° motorized pan/tilt movement
- Motorized focus, iris and linear 8x (6°-48°) zoom
- Light and heavy variable frost, prism, animation wheel
- Crisp bi-directional rotating gobos
- Linear CTO correction 3000K ~ 6000K
- DMX, RDM

SPECIFICATIONS

PHOTOMETRICS

Light Source: 540W 6100K LED  
Beam Angle: 6° - 48°  
Output: HR (CRI >94): 32K lux @ 5 meters

POWER

Mains: 100 - 240 VAC, 50/60 Hz  
Consumption: 640W @ 230V  
Power connections: Truecon In

KEY FEATURES

Color mixing: Linear CMY + Linear CTO + Color Wheel  
Shutter system: 4 independent blades with +/- 35° range and +/- 45° system rotation  
Rotating gobos: 7 (interchangeable) + open  
Animation: Independent bi-directional variable-speed rotation  
Iris: 5% - 100%  
Prism: 4-facet, bi-directional, variable-speed rotation  
Frost: Dual linear 1° light frost and 5° heavy frost  
Focus: Motorized with autofocus presets  
Strobe: 1 ~ 30Hz  
Dimming: 4 dimming curve modes  
Pan movement: 540°  
Tilt movement: 270°

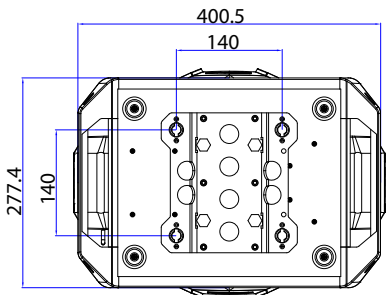
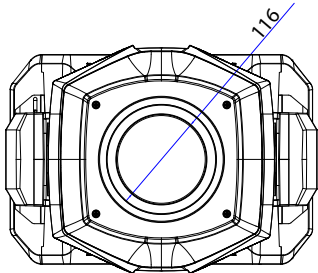
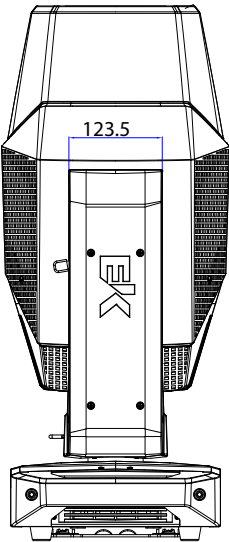
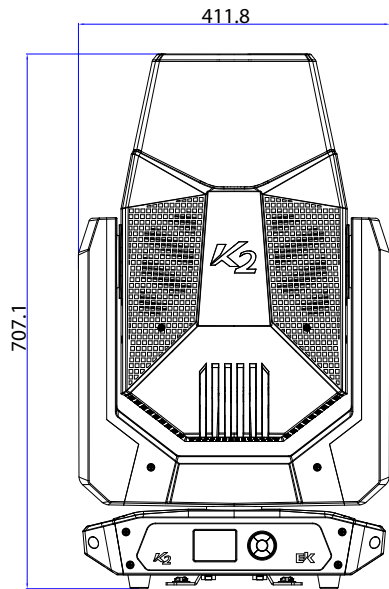
CONTROL

Protocol: DMX, RDM  
DMX channels: 33 / 34  
Data connections: 3-pin and 5-pin In/Out  
Onboard menu: TFT display with 5-button navigation

PHYSICAL

Material: Polycarbonate housing on aluminium frame  
Finish: Matte black  
IP rating: IP20  
Cooling: Active (variable speed fan + thermal pipes)  
Max. ambient temp: 50°  
Min. ambient temp: -10°  
Dimensions: 400 x 701 x 412mm  
Weight: 32 KG  
Mounting: Omega Bracket (included)

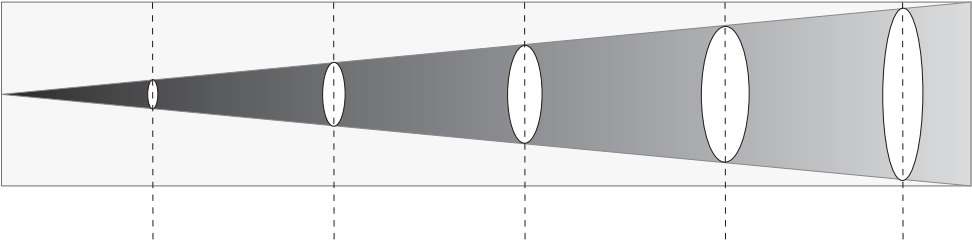
DIMENSIONS



PHOTOMETRICS

K2 HR (high CRI)

FULL OUTPUT AT  
MIN/MAX BEAM ANGLES: 6/48°

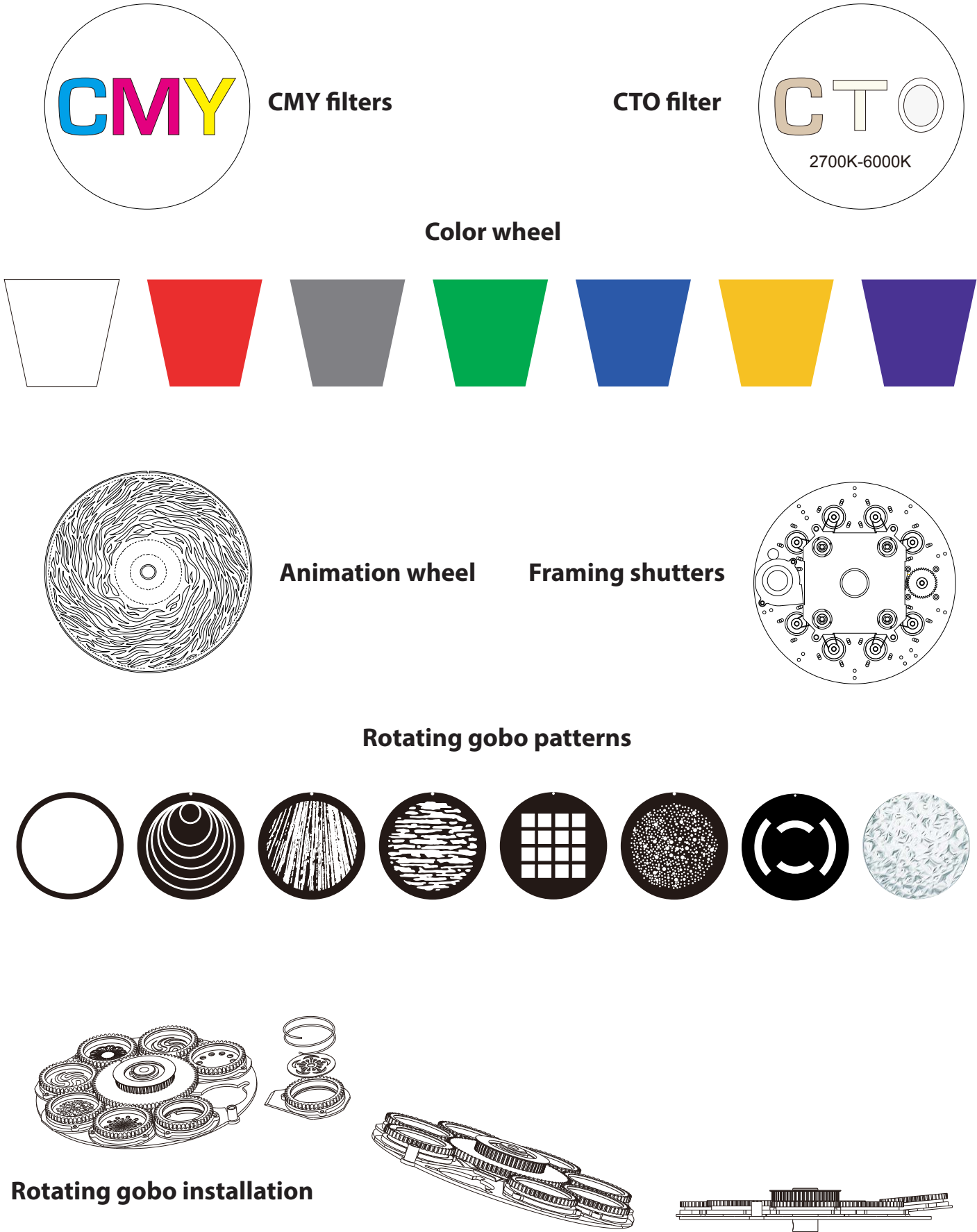


Distance (m)		1m	3m	5m	7m	10m
6°		805000	89444	32200	16428	8050
48°		38970	4330	1558	795	389

MINIMUM ZOOM	Diameter	ø cm	10.3	ø cm	30.9	ø cm	51.5	ø cm	72.1	ø cm	103
	Distance	1m	LUX	3m	LUX	5m	LUX	7m	LUX	10m	LUX
	Output	805000		89444		32200		16428		8050	
MAXIMUM ZOOM	Diameter	ø cm	91	ø cm	273	ø cm	455	ø cm	637	ø cm	910
	Distance	1m	LUX	3m	LUX		LUX	7m	LUX	10m	LUX
	Output	38970		4330		1558		795		389	



ILLUSTRATION of COLOR, GOBO, ANIMATION AND FRAMING SYSTEMS



Rotating gobo installation

BASIC FUNCTIONS and OPERATION

POWER ON/OFF

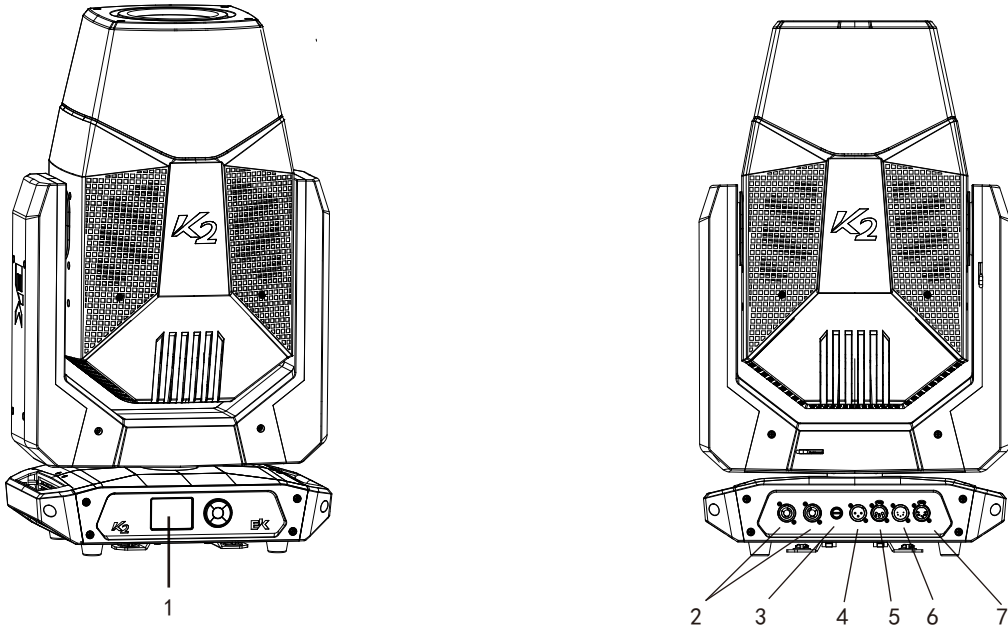
The fixture is powered on by connecting the included power cable to mains power (100 - 240 VAC, 50/60 Hz). Upon receiving power, the fixture will cycle through a motor reset program. To power off, disconnect the power cable or turn off power remotely using a switch.

MENU NAVIGATION

The control panel features five-button navigation of the onboard menu.

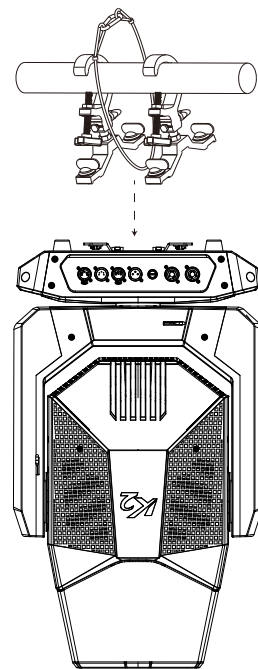
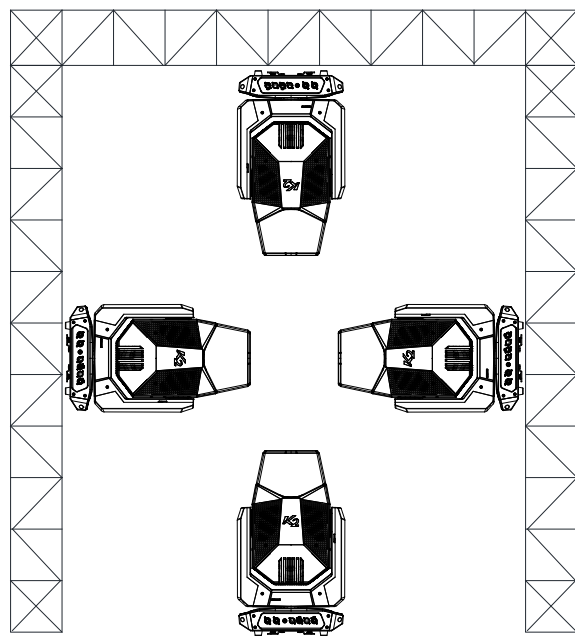
If the panel is password-protected, press buttons in this sequence to unlock: **UP - DOWN - UP - DOWN - ENTER**

UP	DOWN	LEFT	RIGHT	ENTER
Increase the displayed value, or scroll thru previous menu items	Decrease the displayed value, or scroll thru next menu items	Return to higher menu levels	Advance displayed unit values by 10x and 100x	Confirm displayed values, or activate displayed functions, or enter submenus



EXTERNAL CONNECTIONS OVERVIEW

- 1. Control panel with navigation menu
- 2. Power IN / OUT (100-240V 50/60Hz)
- 3. Fuse (T10A / 250V)
- 4. 3-pin DMX IN
- 5. 3-pin DMX OUT
- 6. 5-pin DMX IN
- 7. 5-pin DMX OUT



## MOUNTING GUIDELINES AND INSTALLATION PRECAUTIONS

Always use a safety cable in addition to properly-rated clamps when attaching to truss.

Inspect power cords before use and do not use any cords that show signs of damage to outer insulation layers. Conform to relevant electrical standards for power cabling when running power to multiple units, and ensure that all power is properly grounded.

Do not look directly at the light source to avoid damage to eyes.

Check that ventilation grilles are unobstructed. Fixtures should be installed in well-ventilated locations at a safe distance from any walls or other materials such that free movement of the luminaire is not impeded.

Regular maintenance service should be performed by qualified personnel to remove any dust accumulation and to maintain optimal performance.

This is an IP20 rated fixture and should be installed safely away from water.

## FUNCTION RESET

Steps for resetting functions (reloading factory defaults):

- Press ENTER
- Scroll through the menu using UP/DOWN
- Select ADVANCED then press ENTER
- Use UP/DOWN to scroll to RESET then press ENTER
- Use UP/DOWN to select the function then press ENTER
- Press the left arrow key to return to the main menu

## ADJUSTING PARAMETERS

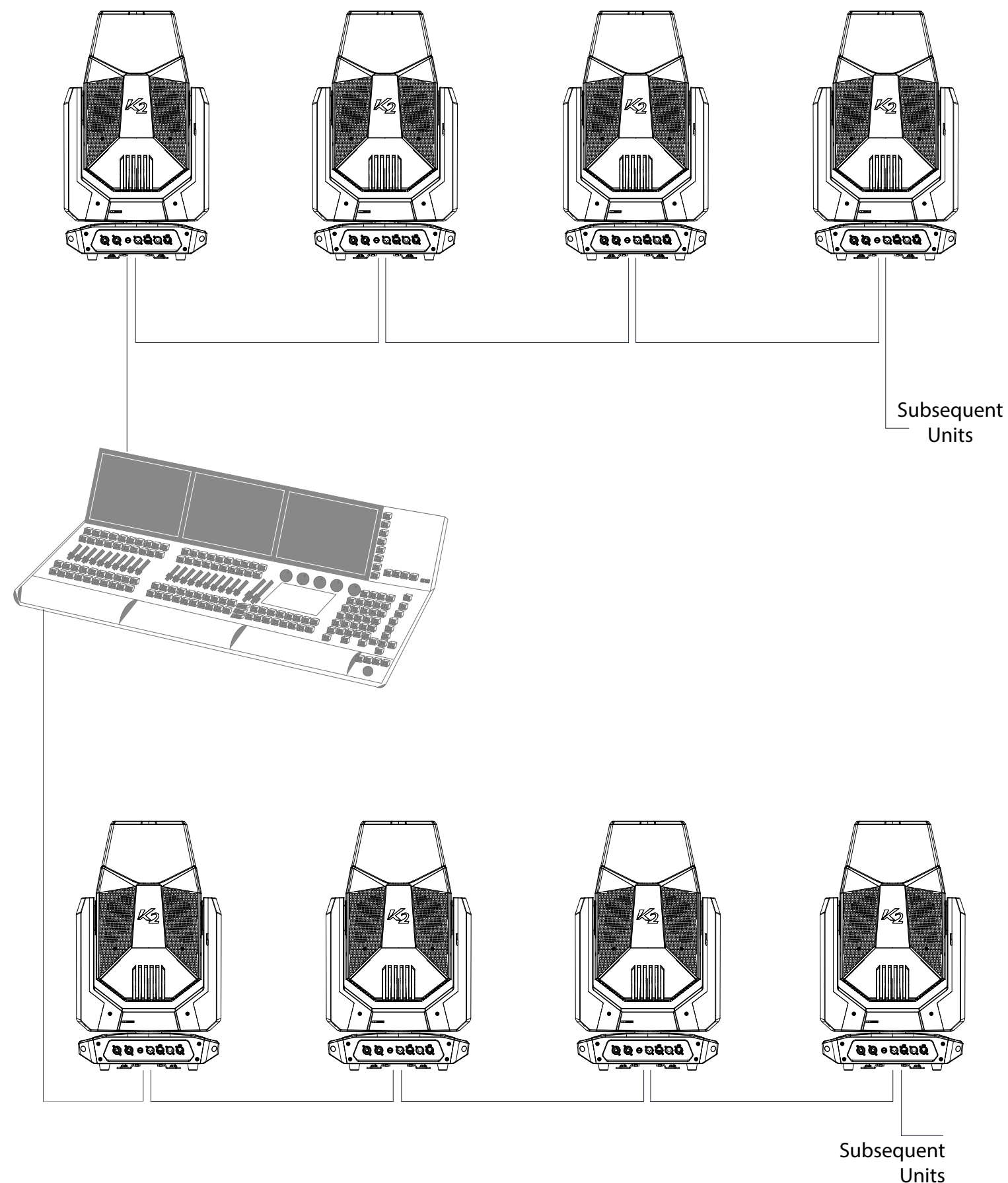
- Press ENTER
- Scroll through the menu using UP/DOWN
- Select ADVANCED then press ENTER
- Use UP/DOWN to scroll to ADJUST then press ENTER
- Use UP/DOWN to select the parameter then press ENTER
- Use UP/DOWN to set the parameter value (000-255) then press ENTER
- Press the left arrow key to return to the main menu

## FIXTURE INFORMATION DISPLAY

To display these data:

- Press ENTER
- Scroll through the menu using UP/DOWN
- Select INFORMATION then press ENTER
- Use UP/DOWN to scroll to through the menu then press ENTER to display
  - FIXTURE TIME (operating hours)
  - TEMPERATURE (internal operating temperature)
  - FANS SPEED (speed of fans in RPM - revolutions per minute)
  - SOFTWARE VERSION (installed firmware version)
  - UID (unique identifier for RDM control)
  - DMX VIEW (display DMX function chart)
- Press the left arrow key to return to the main menu

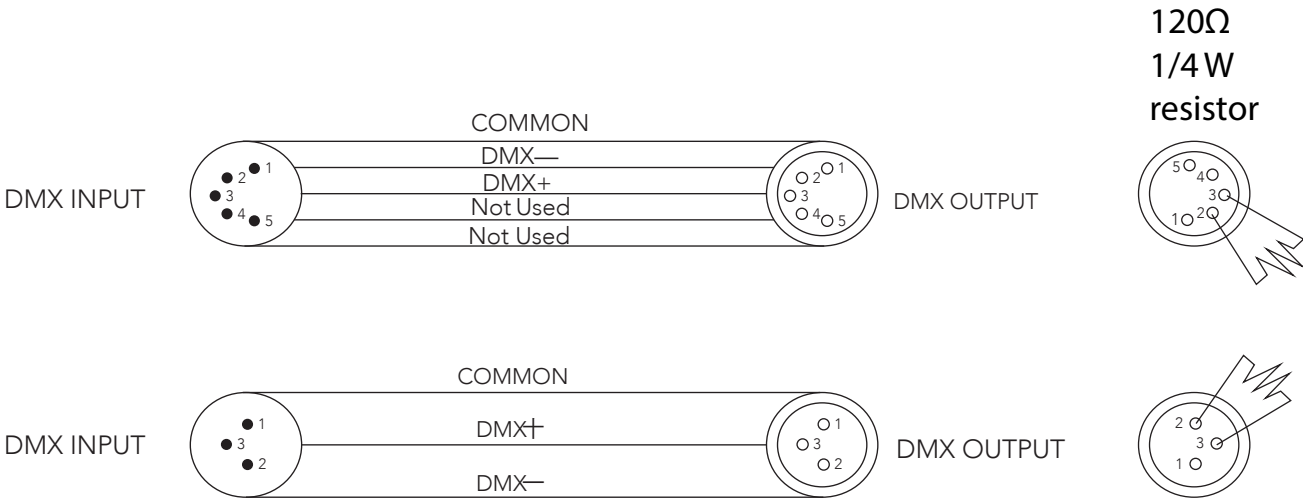
## ILLUSTRATION OF LINKING MULTIPLE UNITS TO A CONTROL DESK VIA DMX



DMX CABLE PIN-OUTS and TERMINATION

Depending on the length of the DMX cable run, or other factors, it may be advisable to install a terminator at the last fixture in the run.

The illustration below shows the correct placement of a 120Ω 0.25W resistor in a terminator, as well as the standard DMX signal pin-outs.



EXAMPLE OF DMX START ADDRESSES

DMX MODE	1st Fixture	2nd Fixture	3rd Fixture	4th Fixture
33 channels	001	034	067	100
34 channels	001	035	069	103

FIXTURE SETTINGS

Steps for setting behavior of dimming, fans, and temperature display:

DIMMER MODE

- Press ENTER
- Scroll through the menu using UP/DOWN
- Select SET UP then press ENTER
- Use UP/DOWN to select FIXTURE then press ENTER
- Use UP/DOWN to select DIMMER then press ENTER
- Use UP/DOWN to select OFF, DIMMER1, DIMMER2 or DIMMER3 then press ENTER
- Press the left arrow key to return to the main menu

FANS MODE

- Press ENTER
- Scroll through the menu using UP/DOWN
- Select SET UP then press ENTER
- Use UP/DOWN to select FIXTURE then press ENTER
- Use UP/DOWN to select FANS MODE then press ENTER
- Use UP/DOWN to select AUTO or SILENT then press ENTER
- Press the left arrow key to return to the main menu

TEMPERATURE DISPLAY UNITS (C or F)

- Press ENTER
- Scroll through the menu using UP/DOWN
- Select SET UP then press ENTER
- Use UP/DOWN to select FIXTURE then press ENTER
- Use UP/DOWN to select TEMPERATURE C/F then press ENTER
- Use UP/DOWN to select CELSIUS or FAHRENHEIT then press ENTER
- Press the left arrow key to return to the main menu

AUTO and MANUAL TEST

Use AUTO test to run a complete test of all functions, or use the MANUAL submenus to perform tests of individual functions.



PAN/TILT MOVEMENT SETTINGS

Steps for changing pan and tilt direction and feedback response:

- Press ENTER
- Scroll through the menu using UP/DOWN
- Select SET UP then press ENTER
- Use UP/DOWN to select MOVEMENT then press ENTER
- Available setting options:
  - PAN REVERSE : Select YES or NO to set direction of pan movement
  - TILT REVERSE : Select YES or NO to set direction of tilt movement
  - PAN/TILT FEEDBACK : Select YES or NO to enable/disable feedback function
- Press ENTER to confirm
- Press the left arrow key to return to the main menu

DISPLAY SETTINGS

Steps for changing display behavior:

- Press ENTER
- Scroll through the menu using UP/DOWN
- Select SET UP then press ENTER
- Use UP/DOWN to select SCREEN then press ENTER
- Available setting options:
  - BACKLIGHT : Set time delay for the display's Auto Off feature (10s, 20s, 30s) or select ON for always on
  - FLIP DISPLAY : Select YES or NO to set display orientation
  - WARN CUE : Select OFF or ON to disable/enable display of error warnings
  - KEY LOCK : Lock the navigation buttons to prevent access to the menu

IMPORTANT: KEY LOCK PASSWORD SEQUENCE

UP DOWN UP DOWN ENTER ENTER

- Select YES or NO to activate or deactivate the key lock function
- Press ENTER to confirm
- Press the left arrow key to return to the main menu

	Main Menu	Submenu	Submenu	Submenu	Defaults
1	CONNECT	DMX Address	1-512		1
		DMX Mode	STANDARD-33CH EXTENDED-34CH		STANDARD-33CH
2	SETUP	Movement	Pan Reverse	No Yes	No
			Tilt Reverse	No Yes	No
			Pan Feedback	No Yes	Yes
			Tilt Feedback	No Yes	Yes
		Screen	Back Light	On 10S 20S 30S	On
				No Yes Auto	No
				Off On	On
				No Yes	No
			Dimmer Mode	Off Dimmer 1 Dimmer 2 Dimmer 3	Off
				Auto Silent	Auto
				°C °F	°C
		Auto Test	Auto Test ...		
		Manual Test	Pan	000-255	Default :
			Pan Fine	000-255	Tilt = 128
			Tilt	000-255	Dimmer = 255
			Tilt Fine	000-255	Shutter = 255
			P/T Speed	000-255	
			Dimmer	000-255	
			Shutter	000-255	
			Cyan	000-255	
			Magenta	000-255	
			Yellow	000-255	
			CTO	000-255	
			Color	000-255	
			Gobo	000-255	
			RGobo	000-255	
			PrismRot.	000-255	
			Effect	000-255	
			REffect	000-255	
			Focus	000-255	
			Zoom	000-255	
			Frost 1	000-255	
			Frost 2	000-255	
			Iris	000-255	
			Fr.shutters Rot.	000-255	
			Fr.shutter 1 Move.	000-255	
			Fr.shutter 1 Swiv.	000-255	
			Fr.shutter 2 Move.	000-255	
			Fr.shutter 2 Swiv.	000-255	
			Fr.shutter 3 Move.	000-255	
			Fr.shutter 3 Swiv.	000-255	
			Fr.shutter 4 Move.	000-255	
			Fr.shutter 4 Swiv.	000-255	

3	ADVANCED	Reset	All		
			Pan		
			Tilt		
			Cyan		
			Magenta		
			Yellow		
			CTO		
			Color		
			Gobo		
			Prism		
			Effect		
			Focus		
			Zoom		
			Frost 1 / Frost 2		
			Iris		
			Fr.shutters Rot.		
			Fr.shutter 1 M1		
			Fr.shutter 1 M2		
			Fr.shutter 2 M1		
			Fr.shutter 2 M2		
3	ADVANCED	Adjust	Fr.shutter 3 M1		
			Fr.shutter 3 M2		
			Fr.shutter 4 M1		
			Fr.shutter 4 M2		
			Pan	000-255	
			Tilt	000-255	
			Cyan	000-255	
			Magenta	000-255	
			Yellow	000-255	
			CTO	000-255	
			Color	000-255	
			Gobo	000-255	
			RGobo	000-255	
			Prism	000-255	
			Rot Prism	000-255	
			Effect	000-255	
			Focus	000-255	
			Zoom	000-255	
			Frost 1	000-255	
			Frost 2	000-255	
			Iris	000-255	
			Fr.shutters Rot.	000-255	
			Fr.shutter 1 M1	000-255	
			Fr.shutter 1 M2	000-255	
			Fr.shutter 2 M1	000-255	
			Fr.shutter 2 M2	000-255	
			Fr.shutter 3 M1	000-255	
			Fr.shutter 3 M2	000-255	
			Fr.shutter 4 M1	000-255	
			Fr.shutter 4 M2	000-255	
		Factory Reload	No		
			Yes		
4	INFORMATION	Fixture Time	0-9999		
		Temperature	58 °C		
		Fans Speed	** %		
		Software Version	DISP-V1.0 CTR1-XY-V1.0 CTR2-LED-V1.0 CTR3-MOTOR-V1.0 CTR4-MOTOR-V1.0 FPGA: — V2.0		
		UID	030F049*****		
		View DMX			

OPERATION

To turn on, attach the included power cable to the K2 Profile and then connect to power (100-240V 50/50Hz). The fixture will be ready for operation after cycling through its motor reset program. To turn off, disconnect the power cable plug from the electrical socket, or turn off electrical power via remote switch.

NAVIGATION

The K2 Profile features 5-button menu navigation.

MASTER/SLAVE LINKING

When set to MASTER mode, the first K2 Profile in a daisy chain network may be used to control subsequent SLAVE units in the chain. Connect the DMX OUT of the master unit to the DMX IN of the first slave unit via 3- or 5-pin XLR cable, and connect subsequent slave units in the same manner.

SETTING THE DMX STARTING ADDRESS

Steps to assign the fixture's DMX address:

- Press ENTER
- Scroll through the menu using UP/DOWN
- Select CONNECT then press ENTER
- Use UP/DOWN to scroll to ADDRESS then press ENTER
- Press the navigation buttons until the desired DMX address is displayed
- Press ENTER to confirm
- Press the left arrow key to return to the main menu

SELECTING THE DMX MODE

The K2 Profile has two DMX modes (33 or 34 channels). To choose the DMX mode:

- Press ENTER
- Scroll through the menu using UP/DOWN
- Select CONNECT then press ENTER
- Use UP/DOWN to scroll to DMX MODE then press ENTER
- Use UP/DOWN to select Standard 33 CH or 34 CH
- Press ENTER to confirm
- Press the left arrow key to return to the main menu

DMX ADDRESSING

To operate the K2 Profile using a control desk, make sure to match the DMX starting address in the control settings to the DMX address shown in the K2 Profile display.