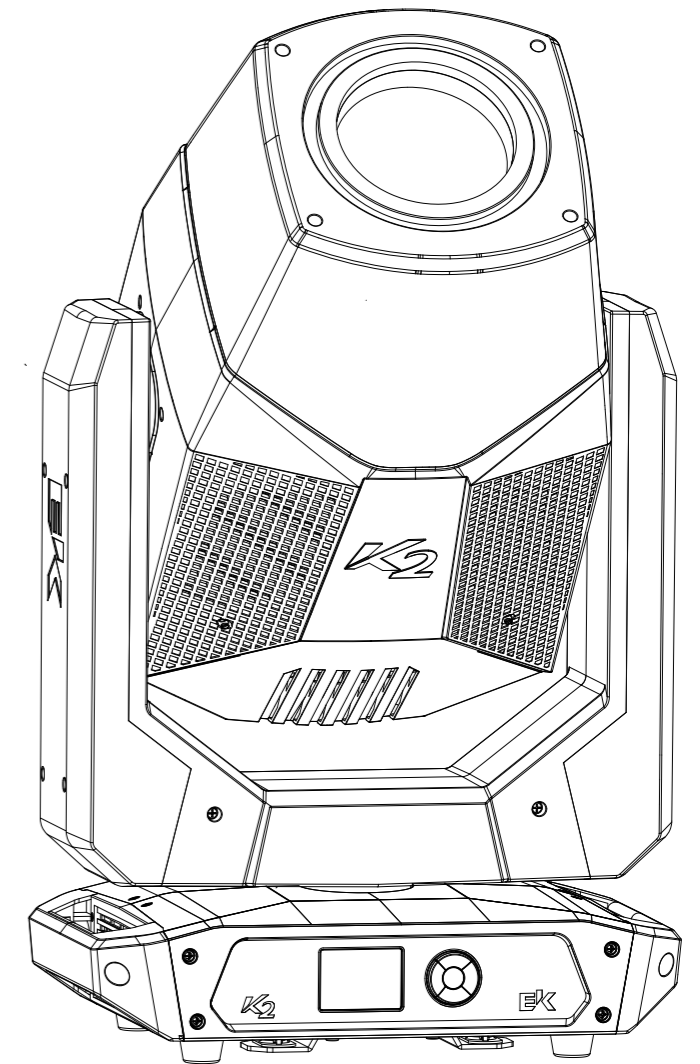


EK

K2 profile

USER MANUAL

EK



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

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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		
			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		
120-127	18 metres					
128-255	Reserved	Rotating gobo wheel				
18	19		Focus	000-255	Focus	
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		
			048-055	Other Reset		
			056-063	Color Reset		
064-255	TBD (No Function)					
					Shutter module	
					Zoom + Focus	
					CMY + CTO + Color	

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	
			005-009	Open + Color 1	
			010-013	Color 1	1. Deep Red
			014-018	Color 1 + Color 2	
			019-022	Color 2	2. Deep Blue
			023-027	Color 2 + Color 3	
			028-031	Color 3	3. Primary Green
			032-036	Color 3 + Color 4	
			037-040	Color 4	4. Half Minus Green
			041-045	Color 4 + Color 5	
			046-049	Color 5	5. Light Orange
			050-054	Color 5 + Color 6	
			055-058	Color 6	6. Congo Blue
			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
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 care 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°

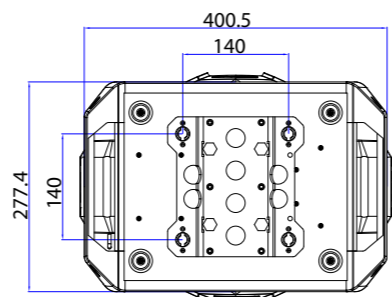
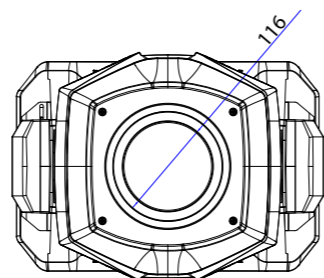
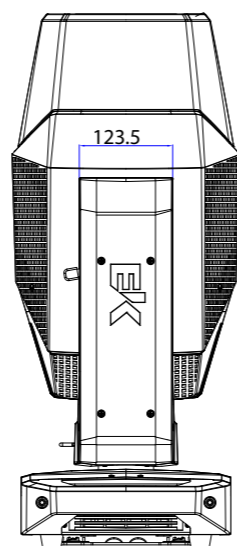
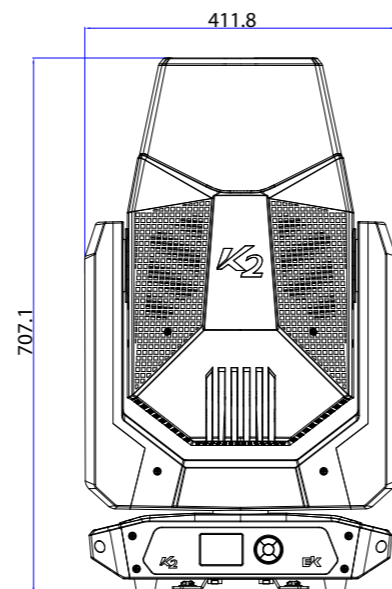
CONTROL

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°C
 Min. ambient temp: -10°C
 Dimensions: 400 x 701 x 412mm
 Weight: 32 KG
 Mounting: Omega Bracket (included)

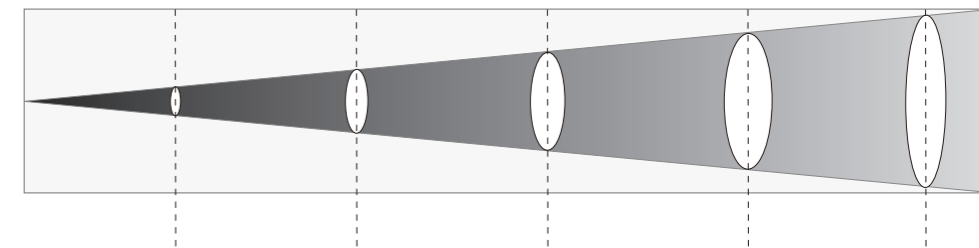
DIMENSIONS



PHOTOMETRICS

K2 HR (high CRI)

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



Distance (m)		1m	3m	5m	7m	10m
Output (lux)	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

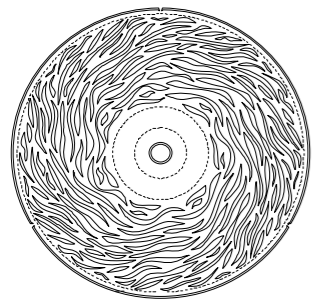


CMY filters

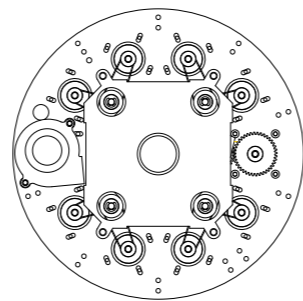


CTO filter

Color wheel

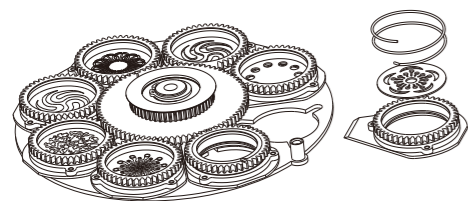
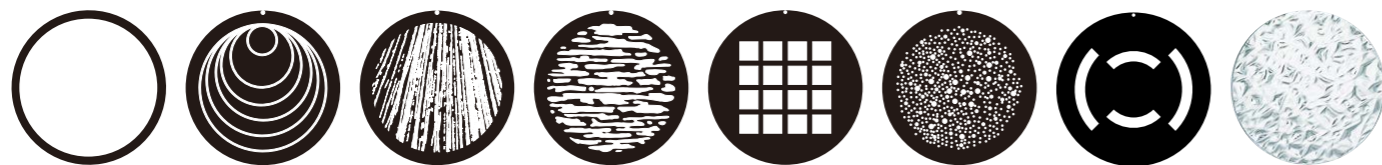


Animation wheel

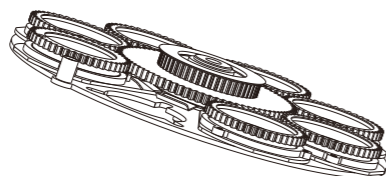


Framing shutters

Rotating gobo patterns



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).

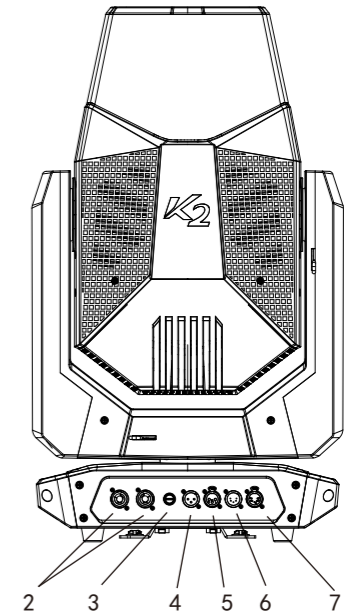
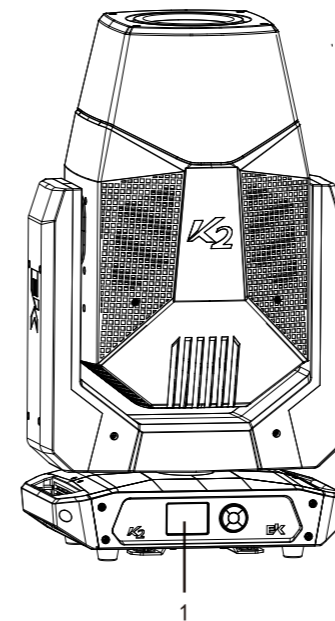
Upon receiving power, the fixture will cycle through a motor reset program. To power off, disconnect the power cable or turn off power remotely using a switch.

MENU NAVIGATION

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

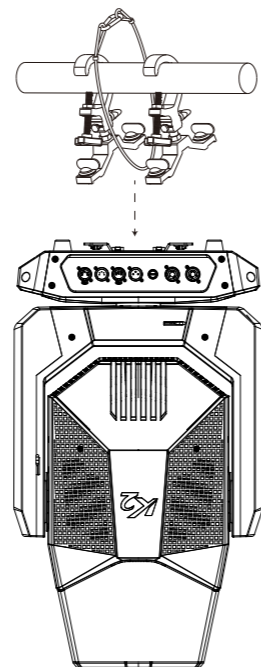
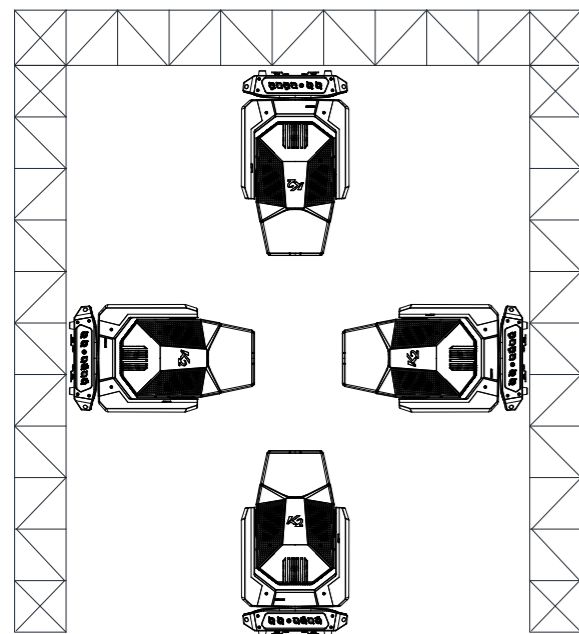
If the panel is password-protected, press buttons in this sequence to unlock: **UP - DOWN - UP - DOWN - ENTER**

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

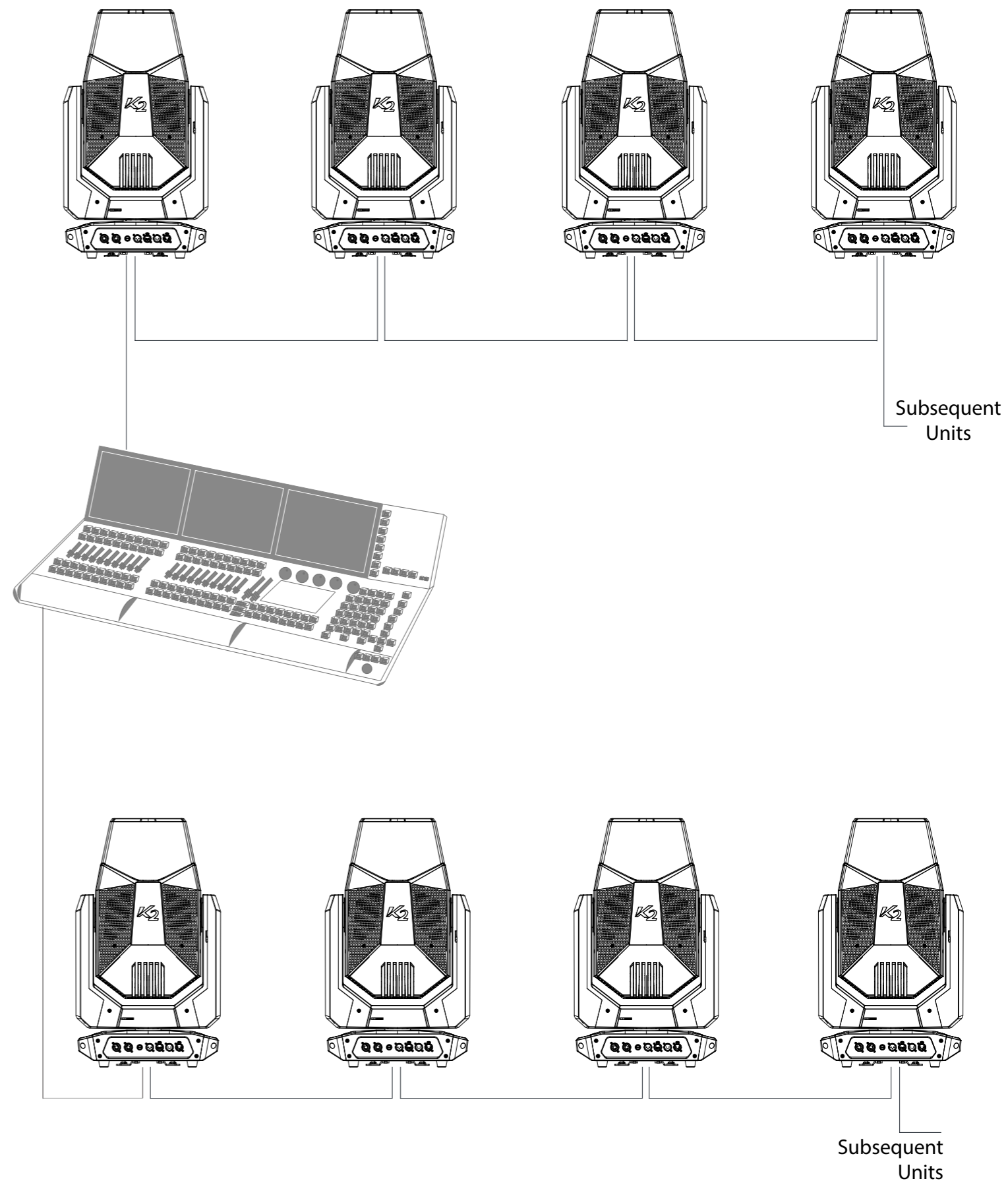
- Press ENTER
- Scroll through the menu using UP/DOWN
- Select ADVANCED then press ENTER
- Use UP/DOWN to scroll to ADJUST then press ENTER
- Use UP/DOWN to select the parameter then press ENTER
- Use UP/DOWN to set the parameter value (000-255) then press ENTER
- Press the left arrow key to return to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

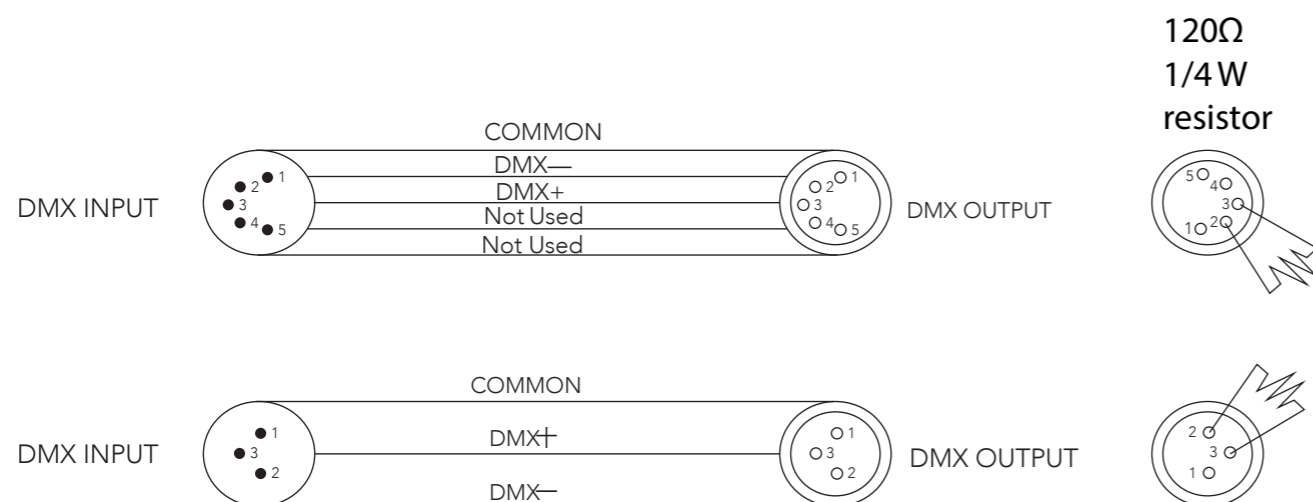
ILLUSTRATION OF LINKING MULTIPLE UNITS TO A CONTROL DESK VIA DMX



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	Menu level 2	Menu level 3	Menu level4	Remark	
1	CONNECT	DMX Address	1-512		Default: 1	
		DMX Mode	STANDARD-33CH EXTENDED-34CH		Default: STANDARD-33CH	
2	SETUP	Movement	Pan Reverse	No Yes	Default: No	
			Tilt Reverse	No Yes	Default: No	
			Pan Feedback	No Yes	Default: Yes	
			Tilt Feedback	No Yes	Default: Yes	
		Screen	Back Light	On	10S 20S 30S	Default: On
				No		Default: No
				Yes		
			Flip Display	Auto		
		Warn Cue	Off On		Default: On	
		Key Lock	No Yes		Default: No	
		Fixture	Dimmer Mode	Off	Dimmer 1 Dimmer 2 Dimmer 3	Default: Off
				Curve 1	Curve 2	Default: Curve 2
				Curve 2		
			Fan Mode	Auto Silent		Default: Auto
		Temperature unit	°C °F		Default: °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					

2	SETUP	Manual Test	Fr.shutter 3 Swiv.	000-255	
			Fr.shutter 4 Move.	000-255	
3	ADVANCED	Reset	Fr.shutter 4 Swiv.	000-255	
			All		
			Pan		
			Tilt		
			Cyan		
			Magenta		
			Yellow		
			CTO		
			Color		
			Gobo		
			Prism		
			Effect		
			Focus		
			Zoom		
			Frost		
			Iris		
			Fr.shutters Rot.		
		Fr.shutter 1 M1			
		Fr.shutter 1 M2			
		Fr.shutter 2 M1			
		Fr.shutter 2 M2			
		Fr.shutter 3 M1			
		Fr.shutter 3 M2			
		Fr.shutter 4 M1			
		Fr.shutter 4 M2			
		Adjust	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		
			NET-V1.0		
			CTR1-XY- V1.0		
			CTR2-LED-V1.0		
			CTR3-MOTOR-V1.0		
			CTR4-MOTOR-V1.0		
		CTR5-MOTOR-V1.0			
FPGA.....V2.0					
UID	030F032*****				
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.