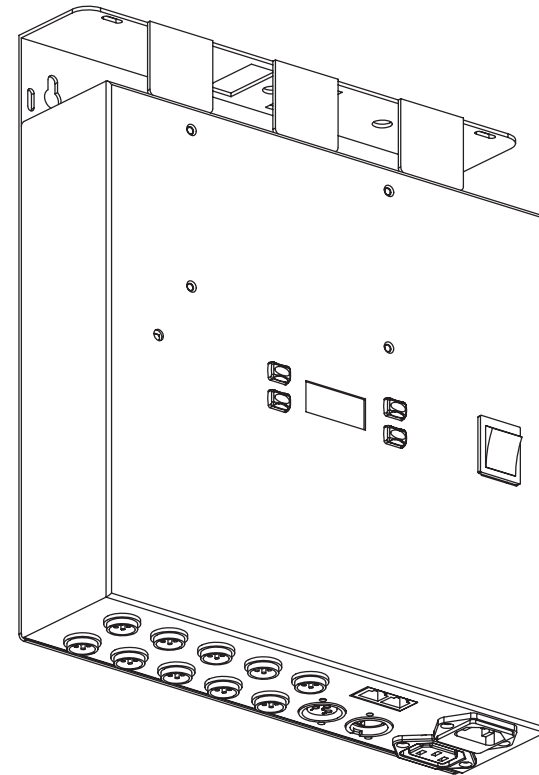




PIXEL KLING IOC



User Instructions

ADJ Products, LLC
6122 S. Eastern Ave. Los Angeles, CA 90040 USA
Tel: 323-582-2650 / Fax: 323-725-6100
Web: www.adj.com / E-mail: info@americandj.com

A.D.J. Supply Europe B.V.
Junostraat 2
6468 EW Kerkrade
Netherlands

service@adjgroup.eu / www.adj.com
Tel: +31 45 546 85 00 / Fax: +31 45 546 85 99

Follow Us On:



[facebook.com/americandj](https://www.facebook.com/americandj)
twitter.com/americandj
[youtube.com/adjlighting](https://www.youtube.com/adjlighting)

©2013 ADJ Products, LLC all rights reserved. Information, specifications, diagrams, images, and instructions herein are subject to change without notice. ADJ Products, LLC logo and identifying product names and numbers herein are trademarks of ADJ Products, LLC. Copyright protection claimed includes all forms and matters of copyrightable materials and information now allowed by statutory or judicial law or hereinafter granted. Product names used in this document may be trademarks or registered trademarks of their respective companies and are hereby acknowledged. All non-ADJ Products, LLC brands and product names are trademarks or registered trademarks of their respective companies.

ADJ Products, LLC and all affiliated companies hereby disclaim any and all liabilities for property, equipment, building, and electrical damages, injuries to any persons, and direct or indirect economic loss associated with the use or reliance of any information contained within this document, and/or as a result of the improper, unsafe, insufficient and negligent assembly, installation, rigging, and operation of this product.

Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the environment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

Pixel Kling 10C

Specifications

Model: Pixel Kling 10C

Voltage:	120v/60Hz or 240v/50Hz
Working Position:	Any safe working position
Power Draw:	200W
Power Cord Daisy Chain:	3 Controllers Max.
Fuse:	4 Amp (120V)/ 2 Amp (250V)
Weight:	6lbs./ 4.2Kgs.
Dimensions:	12.75" (L) x 11.25" (W) x 3.25" (H) 318 x 280 x 80mm
DMX Channels:	4 DMX Modes: 5 Channel Mode, 7 Channel Mode, 32 Channel Mode, and 480 Channel Mode
Warranty:	1 Year (365 days)

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

MANUFACTURER'S LIMITED WARRANTY

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.
- B. **For warranty service you must obtain a Return Authorization number (RA#) before sending back the product—please contact ADJ Products, LLC Service Department at 800-322-6337.** Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.
- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; if the product is damaged because not properly maintained as set forth in the instruction manual.
- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check up. During the period specified above, ADJ Products, LLC will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear indentifying marks to that effect.
- E. ADJ Products, LLC reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by ADJ Products, LLC in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall ADJ Products, LLC be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

This warranty is the only written warranty applicable to ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published. This warranty was revised after December 1, 2012.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

- **Lighting Products = 1-year (365 days) Limited Warranty** (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding LED, Laser Products and lamps)
- **Laser Products = 90-Day Limited Warranty**
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding motors, PCB boards, and power supplies, which have a 1-year (365 day Limited Warranty) and batteries which have a 180 day limited warranty).

Unpacking: Thank you for purchasing the Pixel Kling 10C by ADJ Products, LLC. Every Pixel Kling 10C has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

Introduction: The ADJ Pixel Kling10C is a 10-Channel Driver/Controller for the LED Pixel Tube 360 (not included). This fixture can be used in a stand alone mode or connected in a Master/Slave configuration. This controller has five operating modes: Sound Active mode, Auto mode, RGB Dimmer mode, Static Color mode and DMX control mode.

Customer Support: ADJ Products, LLC provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.adj.com for any comments or suggestions. Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice: (323) 582-3322
 Fax: (323) 582-3108
 E-mail: support@americandj.com

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact ADJ Products, LLC.

PLEASE recycle the shipping carton when ever possible.

Pixel Kling 10C

General Instructions

To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

Pixel Kling 10C

Features

- Multicolors
- Five Operating Modes
- Electronic Dimming 0-100%
- Built in Microphone
- DMX-512 protocol
- 3-Pin DMX Connection
- Kling-Net and Art-Net Compatible (Recommended control solutions; Arkaos Media Master Express, Media Master Pro, and LED Master software's (sold separately).
- 4 DMX Modes: 5 Channel Mode, 7 Channel Mode, 32 Channel Mode, and 480 Channel Mode.
- ADJ LED RC compatible (Not Included)
- Power Cord Daisy Chain (See page 24)

Pixel Kling 10C

Warranty Registration

The Pixel Kling 10C carries a 1 year limited warranty. The reason this product carries a 1 year limited warranty is because it is a controller. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain a R.A. number by contacting our customer support team on our customer support number. All packages returned to the service department not displaying a R.A. number on the outside of the package will be returned to the shipper.

Pixel Kling 10C

Power Cord Daisy Chain

With this feature you can connect the controllers to one another using the IEC input and output sockets. The quantity that can be connected is 3 controllers maximum. After 3 controllers you will need to use a new power outlet. They must be the same controllers. DO NOT mix controllers.

Pixel Kling 10C

Fuse Replacement

Disconnect the unit from its power source. Remove the power cord from the unit. Once the cord has been removed, you will find that the fuse holder is located inside the power socket. Insert a flat-head screw driver into the power socket and gently pry out the fuse holder. Remove the bad fuse and replace with a new one. The fuse holder also has a holder for a spare fuse.

Pixel Kling 10C

Cleaning

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

Pixel Kling 10C

Trouble Shooting

Listed below are a few common problems the user may encounter, with solutions.

Unit not responding to DMX:

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is "hot"; on some other DMX devices pin 2 may be "hot"). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

Unit does not respond to sound:

1. Quiet or high pitched sounds will not activate the unit.
2. Make sure that Sound Active mode is activated.

Pixel Kling 10C

Installation

The Pixel Kling 10C is fully operational in two different mounting positions, hanging upside-down from a ceiling or set on a flat level surface.

The unit should be mounted using a mounting clamp (not provided), affixing it to the mounting bracket that is provided with the unit.

Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. Always ensure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times the unit's weight. Also, always use a safety cable that can hold 12 times the weight of the unit when installing the fixture.

The equipment must be installed by a professional, and it must be installed in a place where it is out of the reach of people's grasp.

Pixel Kling 10C

Safety Precautions

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken. Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Never plug this unit in to a dimmer pack
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- During long periods of non-use, disconnect the unit's main power.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 23 for cleaning details.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged.
 - B. Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance.

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your ADJ Pixel Kling 10C. Because line voltage may vary from venue to venue, you should be sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture.

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX Operation):

The Pixel Kling 10C can be controlled via DMX-512 protocol. The Pixel Kling 10C has 4 DMX channel modes, please see page 7 for the different DMX modes. The DMX address is set on the back panel of the Pixel Kling 10C. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all pro lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.



Figure 1

Also remember that DMX cable must be daisy chained and cannot be split.

Channel	Value	Function
1	0 - 255	RED (TUBE 1 PIXEL 1) 0% - 100%
2	0 - 255	GREEN (TUBE 1 PIXEL 1) 0% - 100%
3	0 - 255	BLUE (TUBE 1 PIXEL 1) 0% - 100%
4	0 - 255	RED (TUBE 1 PIXEL 2) 0% - 100%
5	0 - 255	GREEN (TUBE 1 PIXEL 2) 0% - 100%
6	0 - 255	BLUE (TUBE 1 PIXEL 2) 0% - 100%
7	0 - 255	RED (TUBE 1 PIXEL 3) 0% - 100%
8	0 - 255	GREEN (TUBE 1 PIXEL 3) 0% - 100%
Channels 9-472 Continues the same RGB Tube Pixel pattern		
473	0 - 255	GREEN (TUBE 10 PIXEL 14) 0% - 100%
474	0 - 255	BLUE (TUBE 10 PIXEL 14) 0% - 100%
475	0 - 255	RED (TUBE 10 PIXEL 15) 0% - 100%
476	0 - 255	GREEN (TUBE 10 PIXEL 15) 0% - 100%
477	0 - 255	BLUE (TUBE 10 PIXEL 15) 0% - 100%
478	0 - 255	RED (TUBE 10 PIXEL 16) 0% - 100%
479	0 - 255	GREEN (TUBE 10 PIXEL 16) 0% - 100%
480	0 - 255	BLUE (TUBE 10 PIXEL 16) 0% - 100%

Pixel Kling 10C 32 Channel - DMX Values & Functions

Channel	Value	Function
17	0 - 255	BLUE (TUBE 5) 0% - 100%
18	0 - 255	RED (TUBE 6) 0% - 100%
19	0 - 255	GREEN (TUBE 6) 0% - 100%
20	0 - 255	BLUE (TUBE 6) 0% - 100%
21	0 - 255	RED (TUBE 7) 0% - 100%
22	0 - 255	GREEN (TUBE 7) 0% - 100%
23	0 - 255	BLUE (TUBE 7) 0% - 100%
24	0 - 255	RED (TUBE 8) 0% - 100%
25	0 - 255	GREEN (TUBE 8) 0% - 100%
26	0 - 255	BLUE (TUBE 8) 0% - 100%
27	0 - 255	RED (TUBE 9) 0% - 100%
28	0 - 255	GREEN (TUBE 9) 0% - 100%
29	0 - 255	BLUE (TUBE 9) 0% - 100%
30	0 - 255	RED (TUBE 10) 0% - 100%
31	0 - 255	GREEN (TUBE 10) 0% - 100%
32	0 - 255	BLUE (TUBE 10) 0% - 100%

Pixel Kling 10C Set Up

Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.



Figure 2

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)

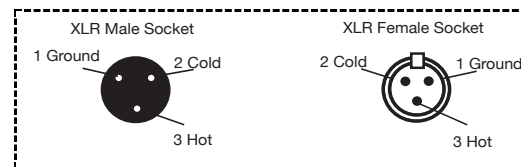


Figure 3

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

5-Pin XLR DMX Connectors. Some manufactures use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Do Not Use
Not Used		Do Not Use

LCD Display Lock:

The display will lock after 30 seconds. Press and hold the MODE button for at least 5 seconds to unlock the display and access the menu.

LED Display On/Off:

To set the LED display light to turn off after 30 seconds, press the MODE button until "OPTION" is displayed. Press the SET UP button so that BLGT:XXX" is displayed. "XXX" represents either ON or OFF. Press the UP or DOWN buttons so that OFF is displayed. Now the display light will turn off after 30s. Press any button to turn the display on again.

LED Display Brightness Adjustment:

This will let you adjust the brightness of the LED display backlight. Press the MODE button until "OPTION" is displayed. Press the SET UP button so that BRCO:XXX" is displayed. "XXX" represents the current brightness setting. Press the UP or DOWN buttons to adjust the brightness of the backlight display.

Operating Modes:

The Pixel Kling 10C has six operating modes:

- Sound-Active mode - The unit will react to sound, chasing through the built in programs.
- Static Color Mode - There are 7 colors to choose from.
- Auto Mode - There are 49 Auto Modes to choose from. 24 color fade modes, 24 color change modes, and 1 random mode.
- Dimmer Mode - Choose one of the three colors to remain static or adjust the intensity of each color to make your desired color.
- DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller.

DMX Mode:

Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights. The Pixel Kling 10C has 4 DMX modes: 5 Channel mode, 7 Channel mode, 32 Channel mode, and a 480 Channel mode. See pages 15-22 for each modes' DMX traits.

1. This function will allow you to control each individual fixture's traits

Channel	Value	Function
1	0 - 255	MASTER DIMMER 0% - 100%
2	0 - 27 28 - 255	STROBING STROBING OFF STROBING SLOW - FAST
3	0 - 255	RED (TUBE 1) 0% - 100%
4	0 - 255	GREEN (TUBE 1) 0% - 100%
5	0 - 255	BLUE (TUBE 1) 0% - 100%
6	0 - 255	RED (TUBE 2) 0% - 100%
7	0 - 255	GREEN (TUBE 2) 0% - 100%
8	0 - 255	BLUE (TUBE 2) 0% - 100%
9	0 - 255	RED (TUBE 3) 0% - 100%
10	0 - 255	GREEN (TUBE 3) 0% - 100%
11	0 - 255	BLUE (TUBE 3) 0% - 100%
12	0 - 255	RED (TUBE 4) 0% - 100%
13	0 - 255	GREEN (TUBE 4) 0% - 100%
14	0 - 255	BLUE (TUBE 4) 0% - 100%
15	0 - 255	RED (TUBE 5) 0% - 100%
16	0 - 255	GREEN (TUBE 5) 0% - 100%

Pixel Kling 10C		7 Channel - DMX Values & Functions
Channel	Value	Function
4	192 - 202	<u>SOUND ACTIVE MODE CONT.</u> SOUND ACTIVE 19
	203 - 212	SOUND ACTIVE 20
	213 - 223	SOUND ACTIVE 21
	224 - 234	SOUND ACTIVE 22
	235 - 244	SOUND ACTIVE 23
	245 - 255	SOUND ACTIVE 24
5	0 - 255	RED 0% - 100%
6	0 - 255	GREEN 0% - 100%
7	0 - 255	BLUE 0% - 100%

Channel 1 will is Master Dimming

When Channel 3 is between the values of 0-41, Channels 5-7 are used, and Channel 2 will control strobing.

When Channel 3 is between the values of 42-83, Channel 4 is in Color Macros Mode, and Channel 2 will control strobing.

When Channel 3 is between the values of 84-125, Channel 4 is in Color Change Mode, and Channel 2 will control the color change speed.

When Channel 3 is between the values of 126-167, Channel 4 is in Color Fade Mode, and Channel 2 will control the color fade speed.

When Channel 3 is between the values of 168-209, Channel 4 is of no use, and Channel 2 will control the auto run speed.

When Channel 3 is between the values of 210-255, Channel 4 is in Sound Active Mode, and Channel 2 will control the sound sensitivity.

Pixel Kling 10C Operating Instructions

- with a standard DMX 512 controller.
- To run your fixture in DMX mode press the MODE button until “DMX MODE ADDR:XXX” is displayed. “XXX” represents the current displayed address. Use the UP or DOWN buttons to select your desired DMX address, then press the SETUP button to select your DMX Channel mode.
- Use the UP or DOWN buttons to scroll through the DMX Channel modes. The Channel modes are listed below:
 - To run the 5 Channel Mode, press the MODE button until “CHAN:05” is displayed. This is the 5 Channel DMX Mode.
 - To run the 7 Channel Mode, press the MODE button until “CHAN:007” is displayed. This is the 7 Channel DMX Mode.
 - To run the 32 Channel Mode, press the MODE button until “CHAN:032” is displayed. This is the 32 Channel DMX Mode.
 - To run the 480 Channel Mode, press the MODE button until “CHAN:480” is displayed. This is the 480 Channel DMX Mode.
- Please see pages 15-22 for DMX values and traits.
- After you have chosen your desired DMX Channel mode plug in the fixture via the XLR connections to any standard DMX controller.

Dimmer Mode:

- Plug the fixture in and press the MODE button until “MANUAL” is displayed. If “MANUAL TUBE: ALL” is displayed then all of the tubes are being controlled. If “MANUAL TUBE: 01” is displayed, you are controlling the tube connected to port 1. If “MANUAL TUBE: 02” is displayed, you are controlling the tube connected to port 2. If “MANUAL TUBE: 03” is displayed, your controlling the tube connected to port 3. After deciding what tube(s) to control press the SET UP button.
- When “RED: XXX” is displayed you are in Red dimming mode. Press the UP and DOWN buttons to adjust intensity. After you have finished adjusting the intensity, or if you would like to skip to the next color, press the SET UP button.
- When “GREN: XXX” is displayed you are in Green dimming mode. Press the UP and DOWN buttons to adjust intensity.
- When “BLUE: XXX” is displayed you are in Blue dimming mode. Press the UP and DOWN buttons to adjust intensity.
- After you have adjusted the RGB colors to make your desired color you can then activate strobing by pressing the SET UP but-

ton to enter the strobe mode.

6. "STROB: XX" will be displayed, this is strobe mode. The strobe can be adjusted between "00" (flash off) to "15" (fastest flash).

Sound Active Mode:

In this mode the Ultra Kling Bar 18 will react to sound, and chase through the different colors.

1. Plug the fixture in and press the MODE button until "SOUND is displayed.
2. Use the UP or DOWN buttons to find your desired sound active program. There are 24 sound active programs to choose from. After you have found your desired program press the SET UP button to adjust the sound sensitivity.
3. Use the UP or DOWN buttons to adjust the sound sensitivity. "01 is the least sensitive, and "08" is the most sensitive.

Net Control Mode (Kling-net or Art-net Control):

1. Plug the fixture in and press the MODE button until "NET CONTROL MODE" is displayed. In this mode the SET UP, UP, & DOWN buttons will not work. The light can now be controlled by Kling-net or Art-net. See page 11 for Kling-Net and Art-Net operation.

Auto Run Mode: There are 3 different Auto Modes to choose from; Color Fade, Color Change, and both modes running together. The running speed is adjustable in all 2 modes.

1. Plug the fixture in and press the MODE button until either "AUTO RUN" is displayed. Press the SET UP button to switch between the different modes.
 - AUTO RUN SNAP = Color Change Mode. There are 24 Color Change modes to choose from. Use the UP or DOWN buttons to scroll through the different color change modes.
 - AUTO RUN FADE = Color Fade Mode There are 24 Color Fade modes to choose from. Use the UP or DOWN buttons to scroll through the different color fade modes.
 - AUTO RUN FAD+SNAP = Both color fade and color change modes running.
2. After you have chosen your desired Auto Mode press the SET UP button until "AUTO RUN SPEED" is displayed. When this is displayed you can adjust the running speed of your Auto Mode.

Channel	Value	Function	
4		<u>COLOR FADE MODE CONT.</u>	
	118 - 127	COLOR FADE 12	
	128 - 138	COLOR FADE 13	
	139 - 148	COLOR FADE 14	
	149 - 159	COLOR FADE 15	
	160 - 170	COLOR FADE 16	
	171 - 180	COLOR FADE 17	
	181 - 191	COLOR FADE 18	
	192 - 202	COLOR FADE 19	
	203 - 212	COLOR FADE 20	
	213 - 223	COLOR FADE 21	
	224 - 234	COLOR FADE 22	
	235 - 244	COLOR FADE 23	
	245 - 255	COLOR FADE 24	
			<u>SOUND ACTIVE MODE</u>
	0 - 10	SOUND ACTIVE 1	
	11 - 20	SOUND ACTIVE 2	
	21 - 31	SOUND ACTIVE 3	
	32 - 42	SOUND ACTIVE 4	
	43 - 52	SOUND ACTIVE 5	
	53 - 63	SOUND ACTIVE 6	
	64 - 74	SOUND ACTIVE 7	
	75 - 84	SOUND ACTIVE 8	
	85 - 95	SOUND ACTIVE 9	
96 - 106	SOUND ACTIVE 10		
107 - 117	SOUND ACTIVE 11		
118 - 127	SOUND ACTIVE 12		
128 - 138	SOUND ACTIVE 13		
139 - 148	SOUND ACTIVE 14		
149 - 159	SOUND ACTIVE 15		
160 - 170	SOUND ACTIVE 16		
171 - 180	SOUND ACTIVE 17		
181 - 191	SOUND ACTIVE 18		

Pixel Kling 10C		7 Channel - DMX Values & Functions	
Channel	Value	Function	
4		<u>COLOR CHANGE MODE CONT.</u>	
	43 - 52	COLOR CHANGE 5	
	53 - 63	COLOR CHANGE 6	
	64 - 74	COLOR CHANGE 7	
	75 - 84	COLOR CHANGE 8	
	85 - 95	COLOR CHANGE 9	
	96 - 106	COLOR CHANGE 10	
	107 - 117	COLOR CHANGE 11	
	118 - 127	COLOR CHANGE 12	
	128 - 138	COLOR CHANGE 13	
	139 - 148	COLOR CHANGE 14	
	149 - 159	COLOR CHANGE 15	
	160 - 170	COLOR CHANGE 16	
	171 - 180	COLOR CHANGE 17	
	181 - 191	COLOR CHANGE 18	
	192 - 202	COLOR CHANGE 19	
	203 - 212	COLOR CHANGE 20	
	213 - 223	COLOR CHANGE 21	
	224 - 234	COLOR CHANGE 22	
	235 - 244	COLOR CHANGE 23	
	245 - 255	COLOR CHANGE 24	
			<u>COLOR FADE MODE</u>
	0 - 10	COLOR FADE 1	
	11 - 20	COLOR FADE 2	
	21 - 31	COLOR FADE 3	
32 - 42	COLOR FADE 4		
43 - 52	COLOR FADE 5		
53 - 63	COLOR FADE 6		
64 - 74	COLOR FADE 7		
75 - 84	COLOR FADE 8		
85 - 95	COLOR FADE 9		
96 - 106	COLOR FADE 10		
107 - 117	COLOR FADE 11		

Pixel Kling 10C	Operating Instructions
	Use the UP or DOWN button to adjust the speed between “01” (slowest) and “16” (fastest). Once you have set your desired running speed, press the SET UP button to return to your desired Auto Mode.
	Static Color Mode:
	<ol style="list-style-type: none"> 1. Plug the fixture in and press the MODE button until “STATIC” is displayed. If “STATIC TUBE: ALL” is displayed then all of the tubes are being controlled. If “STATIC TUBE: 01” is displayed, you are controlling the tube connected to port 1. If “STATIC TUBE: 02” is displayed, you are controlling the tube connected to port 2. If “STATIC TUBE: 03” is displayed, you are controlling the tube connected to port 3. After deciding what tube(s) to control press the SET UP button. 2. After pressing the SET UP button “STATIC CLR: XX” will be displayed. “XX” represents the current color number displayed. 3. There are 7 colors to choose from. Use the UP and DOWN buttons to scroll through the 7 colors. After you have found your desired color you can activate strobing by pressing the SET UP button to enter the strobe mode. 3. “STATIC STROB: XX” will be displayed, this is strobe mode. The strobing can be adjusted between “00” (flash off) to “15” (fastest flash).
	System Reset:
	This is a default running mode. When this mode is activated all modes will return to their default settings.
	<ol style="list-style-type: none"> 1. Plug the fixture in and press the MODE button until “OPTION” is displayed. 2. Press the SET UP button until “SYSRESET” is displayed. 3. Press the UP and DOWN buttons simultaneously to reset the unit.
	Infrared Receiver:
	This function is used to activate and deactivate the infrared receiver. When this function is activated you can control the fixture using the ADJ LED RC (Remote Control). Please see the next page for ADJ LED RC controls and functions.
	<ol style="list-style-type: none"> 1. Plug the fixture in and press the MODE button until “OPTION” is displayed.

Pixel Kling 10C**Operating Instructions**

2. Press the SET UP button until "IR: XX" is displayed. "XX" represents either "ON" or "OFF".
3. Press the UP or DOWN buttons to either activate the remote function (On) or deactivate it (Off).

Pixel Kling 10C**Master-Slave Set Up****Master-Slave Configuration:**

This function will allow you to link units together to run in a Master-Slave configuration. In a Master-Slave configuration one unit will act as the controlling unit and the others will react and copy the controlling units operation. Any unit can act as a Master or as a Slave however, only one unit can be programmed to act as the "Master."

Master-Slave Connections and Settings:

1. Daisy chain your units via the XLR connector on the rear of the unit. Use standard XLR data cables to link your units together. Remember that the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
2. Connect the first "Slave" unit to the "Master." Set the "Slave" to any DMX Channel mode.
3. Set the "Master" unit to your desired mode of operation. The "Slave" unit will now follow the "Master".

Pixel Kling 10C**Kling-Net or Art-Net Operation**

1. Set the Pixel Kling 10C to KLINGNET MODE. See page 9 NET CONTROL MODE and follow the instructions.
2. Install one of the recommended operating softwares onto your computer. Recommended softwares; Arkaos Media Master Express, Media Master Pro, or LED Master (Sold Separately).
2. Connect the panels via CAT 5 Straight Network cable. **When creating your own custom cable, use RJ45 Straight Network cable. See page 14 for connection information.**
3. Map the fixtures using KlingNetMapper or Art-Net Mapper.
4. Control the fixtures using ArKaos or Art-Net software. Please refer to the media playback software user manual for further instructions.

Note: ArKaos Kling-Net requires a gigabit (1000 mbps) Ethernet card and network router for a smoother operation.

Pixel Kling 10C**7 Channel - DMX Values & Functions**

Channel	Value	Function
1	0 - 255	MASTER DIMMER 0% - 100%
2	0 - 27 28 - 255 0 - 255 0 - 31 32 - 255	STROBING/PROGRAM SPEED/ <u>SOUND SENSITIVITY</u> STROBING OFF STROBING SLOW - FAST PROGRAM SPEED SLOW - FAST SOUND SENSITIVITY OFF SOUND SENSITIVE LEAST - MOST
3	0 - 41 42 - 83 84 - 125 126 - 167 168 - 209 210 - 255	DIMMING/STATIC COLOR SELECT/ COLOR CHANGE SELECT/ <u>COLOR FADE SELECT</u> DIMMER MODE COLOR MACRO MODE COLOR CHANGE MODE COLOR FADE MODE AUTO RUN MODE SOUND ACTIVE MODE
4	0 - 31 32 - 63 64 - 95 96 - 127 128 - 159 160 - 191 192 - 223 224 - 255 0 - 10 11 - 20 21 - 31 32 - 42	<u>COLOR MACROS & MODES</u> <u>COLOR MACROS</u> BLACKOUT RED GREEN BLUE YELLOW PURPLE CYAN WHITE <u>COLOR CHANGE MODE</u> COLOR CHANGE 1 COLOR CHANGE 2 COLOR CHANGE 3 COLOR CHANGE 4

Pixel Kling 10C		5 Channel - DMX Values & Functions
Channel	Value	Function
1	0 - 255	RED 0% - 100%
2	0 - 255	GREEN 0% - 100%
3	0 - 255	BLUE 0% - 100%
4	0 - 255	MASTER DIMMER 0% - 100%
5	0 1 - 5 6 - 10 11 - 255	SOUND ACTIVITY/STROBING NO FUNCTION SOUND ACTIVE NO FUNCTION STROBING SLOW - FAST

Pixel Kling 10C

ADJ LED RC1 Operation

The **ADJ LED RC1** infrared remote (sold separately) has many different functions and gives you complete control of your Pixel Kling 10C. To control the your desired fixture you must aim the controller at the front of the fixture and be no more the 30 feet away. To use the ADJ LED RC1 you must first activate the fixtures infrared receiver, to activate the receiver please see the instructions on pages 10-11.

BLACKOUT - Pressing this button will blackout the fixture.

AUTO RUN - Press this button to switch between the Color Change mode, Color Fade mode, and Auto Run. Use the “+” and “-” buttons to scroll through the 24 programs of each mode. You can control the speed of the modes by pressing the SPEED button first and then pressing the “+” and “-” buttons.

PROGRAM SELECTION - This button activates static color mode and lets you select which tube to control. See Static Color mode for information on selecting the LED Pixel Tube. Use the “+” and “-” buttons to scroll through the 7 static colors and to scroll through the LED Pixel tubes. Press the Flash button to activate strobing and use the “+” and “-” buttons to adjust the strobe speed.

SOUND ACTIVE - This button activates sound active mode. Use the “+” and “-” buttons to scroll through the 24 sound active modes. Press this button again to switch to sound sensitivity adjustment and use the “+” and “-” buttons to adjust the sound sensitivity.

FLASH - This button will activate the strobe effect. You can control the flash rate by pressing the “+” and “-” buttons. Press this button again to exit strobe mode.

SPEED - Press this button to activate and use the “+” & “-” buttons to adjust the speed of color fade and color change mode, color fade mode, color change mode, and the sound sensitivity level.

DMX MODE - This button will let you select which DMX mode you want to use. Use the “+” and “-” buttons to scroll through the DMX channel modes. Some fixtures will come with different DMX channel modes. This button will switch between the different modes. Please see pages 15-22 for DMX modes, values, and traits.

Pixel Kling 10C

ADJ LED RC1 Operation

SL (Slave) - This button lets you designate the unit as a slave in a master-slave configuration.

SET ADDRESS - Press this button to set the DMX address. Press this button first, then press the numbers to set the address.

Example: Set DMX Address 1 Press “S-0-0-1”

Set DMX Address 245 Press “S-2-4-5”

R G B - Press either one of these buttons and then press the “+” or “-” to adjust the brightness or use the number buttons to input a 3 number intensity degree. Press the Flash button to activate strobing and use the “+” and “-” buttons to adjust the strobe speed.

“+” and “-” - Use these buttons to adjust the flash rate speed, program speed, fade speed, output intensity, and sound sensitivity. These buttons are also used to scroll through the DMX channel modes, static colors, sound active modes, and auto run programs.

DMX Control:

Operating through an DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. Follow the directions below to set your DMX Mode and address.

1. Before connecting to an DMX controller, your fixture has different DMX channel modes, please select your desired mode by pressing the DMX Mode button, then using the “+” or “-” buttons to scroll through the DMX Channel Modes. Set the mode before you address the fixture. See the bottom of this page for the DMX modes.

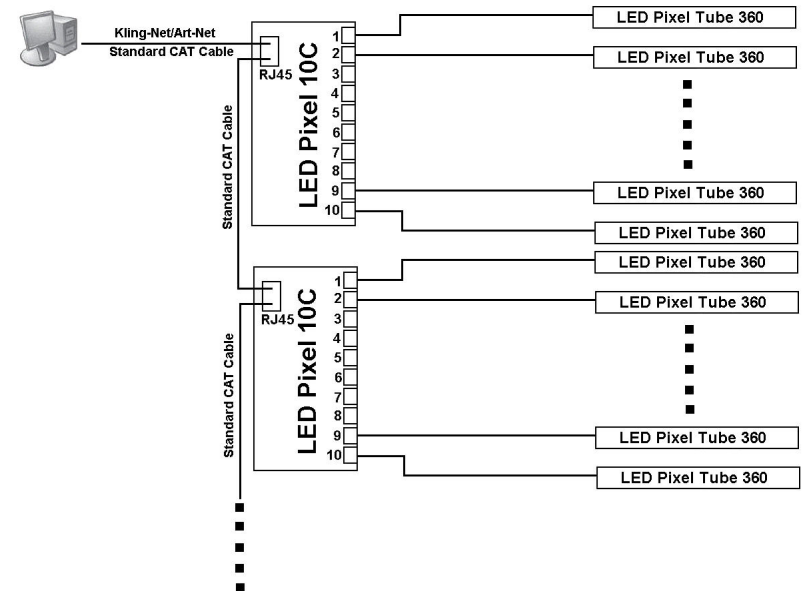
2. After you have selected your mode, set the DMX address for the fixture by pressing the “S” button. When the “S” button is pressed the LED’s will flash 2-3 times and all the red LED’s will light. Use the number buttons to press in your desired address. See **“SET ADDRESS”** located above for examples.

Note: When setting the DMX address, each time a number is pressed a LED color will glow, when you have set the DMX address correctly all LED’s will flash 2-3 times.

3. Now you may connect the fixture via the XLR connections to any standard DMX controller. Please see pages 15-22 to for a detailed descriptions of the DMX modes, values, and traits.

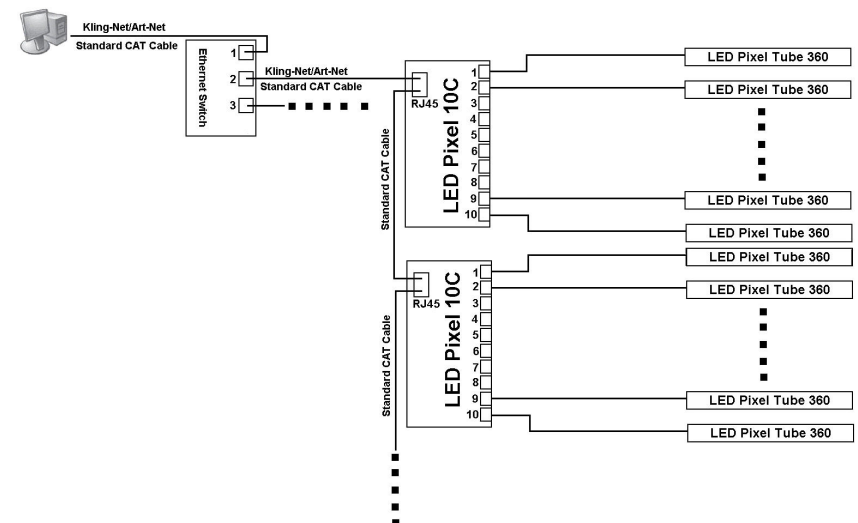
Pixel Kling 10C

Connection & Linking



Note: Do not daisy-chain more than 50pcs LED Pixel 10C from the computer, and use an Ethernet Switch if more than 50pcs LED Pixel 10C are being controlled.

When connecting you must use a CAT 5 Straight Network cable.



Note: 1. The Ethernet Switch must be Gigabit Switch.
2. Do not daisy-chain more than 50pcs LED Pixel 10C from a single network port of the Ethernet Switch.
3. Maximum 2 output network ports of the Ethernet Switch can be used. So the system can control 100pcs LED Pixel 10C maximum.

When connecting you must use a CAT 5 Straight Network cable.