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ADJ PIXIE DRIVER 2000 Controller for Pixie Strip User Manual

Contents

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GENERAL INFORMATION

INTRODUCTION

Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this device. These instructions contain important safety and use information. This product is intended for use by professionally trained personnel only, and is not suitable for private use.

UNPACKING

Every device 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 is damaged, carefully inspect the device for damage, and be sure all accessories necessary to install and operate the device have arrived intact. In the event that damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this device to your
dealer without first contacting customer support. Please do not discard the shipping carton in the trash.
Please recycle whenever possible.

BOX CONTENTS

- Power Cable (x1)
- 3-meter 4-pin Data Cable (x1)

CUSTOMER SUPPORT

Contact ADJ Service for any product related service and support needs. Also visit forums.adj.com with questions, comments, or suggestions.
ADJ SERVICE USA – Monday – Friday 8:00am to 4:30pm PST
323-582-2650 | Fax: 323-832-2941 | **support@adj.com**
ADJ SERVICE EUROPE – Monday – Friday 08:30 to 17:00 CET
+31 45 546 85 60 | Fax: +31 45 546 85 96 | **support@adj.eu**
REPLACEMENT PARTS please visit **parts.adj.com**

IMPORTANT NOTICE!
THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO WARRANTY CLAIMS AND/OR REPAIRS.

LIMITED WARRANTY (USA ONLY)

1. 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.

2. 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, or for the safe return thereof.

3. This warranty is void of 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 service by anyone other than 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.

4. This is not a service contact, 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 warrant 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 identifying marks to that effect.

5. 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.

6. 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.

7. 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.

LIMITED WARRANTY PERIODS

- Non L.E.D. 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 and lamps)
- Laser Products = 1 Year (365 Days) Limited Warranty (excludes laser diodes which have 6 month limited warranty)
- L.E.D. Products = 2-year (730 days) Limited Warranty (excluding batteries which have a 180 day limited warranty) Note: 2 Year Warranty only applies to purchases within the United States.
- StarTec Series = 1 Year Limited Warranty (excluding batteries which have a 180 day limited warranty)
- ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty

WARRANTY REGISTRATION

The Pixie Driver 8000 carries a 2 year limited warranty. 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 accompanied by 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 an R.A. number by contacting our customer support team. All packages returned to the service department not dis-playing an R.A. number on the outside of the package will be returned to the shipper.

FEATURES

- Power / data supply for ADJ Pixie Strip 30, Pixie Strip 60, and Pixie Strip 120
- Manual RGB mode
- Internal programs
- Manual Dimming and Strobe Control
- Full Pixel Mapping Control
- Drives up to 8,160 Pixels via KlingNet (1,020 Pixels per port)
- Drives up to 1,360 Pixels via Art-Net and sACN (170 Pixels per port)
- OLED screen with 4-button menu
- USB port for Firmware Updates

SAFETY GUIDELINES

For your own personal safety, please read and understand this manual completely before attempting to install or operate this device!

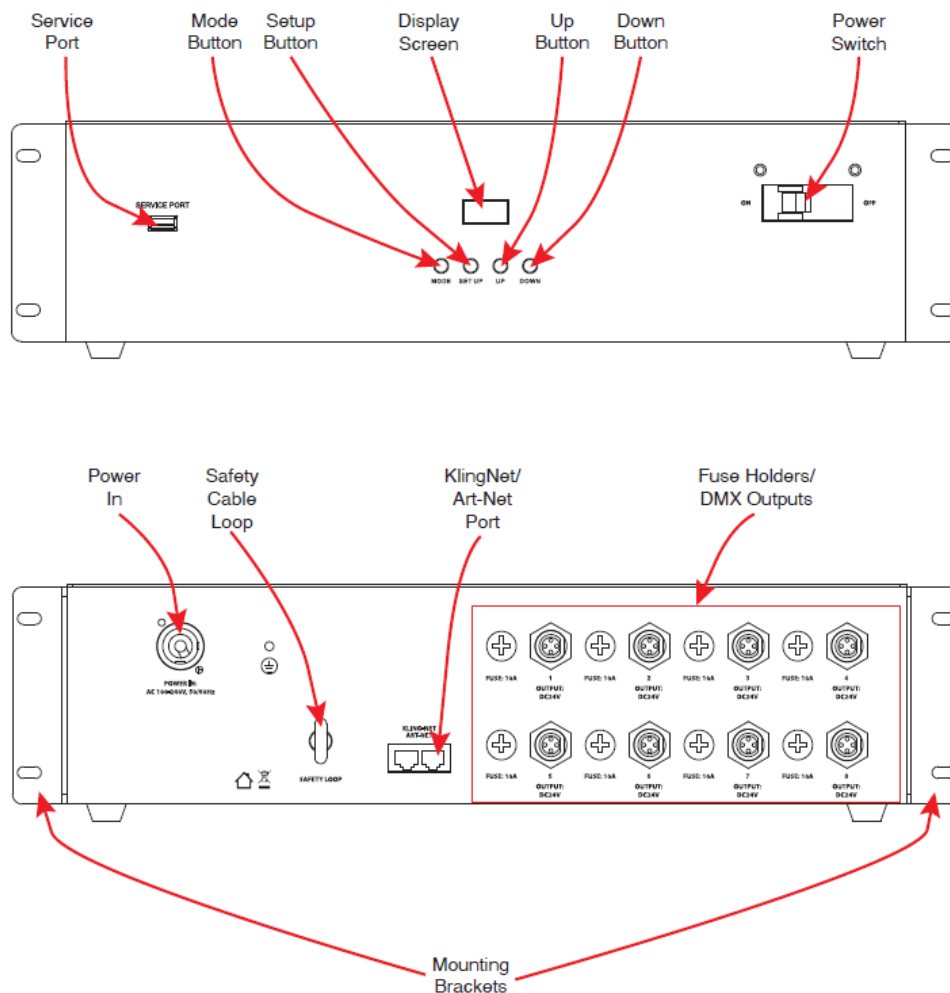- Be sure to save the packing carton in the unlikely event that the device needs to be returned for service.
- Do not spill water or other liquids into or on to the device.
- Be sure that the voltage of the power source matches the required voltage for the device.
- Do not open up the device for any reason. There are no user serviceable parts inside.
- Disconnect the device's main power when left unused for long periods of time.

- Never connect this device to a dimmer pack.
- Do not attempt to operate this device if it has been damaged in any way.
- Never operate this device with the cover removed.
- To reduce the risk of electrical shock or fire, do not expose this device to rain or moisture.
- Do not attempt to operate this device 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 the event of an internal short.
- Disconnect from main power before making any type of connection.
- Never block the ventilation holes. Always be sure to mount this device in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- This unit is intended for indoor use only. Use of this product outdoors voids all warranties.
- Always mount this unit in a safe and stable matter.
- Please route your power cord out of the way of foot traffic. Power cords should be routed so they are not likely to be walked on, or pinched by items placed upon or against them.
- The device should be serviced by qualified service personnel when:
  - The power-supply cord or the plug has been damaged.
  - Objects have fallen on, or liquid has been spilled into, the device.
  - The device has been exposed to rain or water.
  - The appliance does not appear to operate normally or exhibits a marked change in performance.

Ambient operating temperature ranges is from -4°F to 113°F (-20°C to 45°C). Do not operate this device when ambient temperature falls outside of this range!
KEEP FLAMMABLE MATERIALS AWAY FROM THIS FIXTURE!

OVERVIEW

Service Port — Mode Button — Setup Button — Display Screen — Up Button — Down Button — Power Switch

SERVICE PORT   MODE SET UP UP DOWN   ON   OFF

Power In — Safety Cable Loop — KlingNet/Art-Net Port — Fuse Holders/DMX Outputs

POWER IN
AC 100-240V, 50/60Hz

SAFETY LOOP

KLING-NET
ART-NET

FUSE: 16A 1 OUTPUT: DC24V   FUSE: 16A 2 OUTPUT: DC24V   FUSE: 16A 3 OUTPUT: DC24V   FUSE: 16A 4 OUTPUT: DC24V

FUSE: 16A 5 OUTPUT: DC24V   FUSE: 16A 6 OUTPUT: DC24V   FUSE: 16A 7 OUTPUT: DC24V   FUSE: 16A 8 OUTPUT: DC24V

Mounting Brackets

INSTALLATION

FLAMMABLE MATERIAL WARNING!
Keep drive a minimum of 5.0 feet (1.5m) away from flammable material and/or pyrotechnics.

ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.
DO NOT INSTALL THE DEVICE IF YOU ARE NOT QUALIFIED TO DO SO!
The driver MUST be installed following all local, national, and country commercial electrical and construction codes and regulations.
Before installing or mounting any device, a professional equipment installer MUST be consulted to determine whether the mounting structure or surface is properly certified to safely support the combined weight of the device and any relevant accessories.
Ambient operating temperature range is from -4°F to 113°F (-20°C to 45°C). Do not operate this device when ambient temperature falls outside this range.
The device should be installed away from walking paths, seating areas, or areas where unauthorized personnel might be able to reach the device by hand.

CLAMP MOUNTING

This fixture features a mounting point in the middle of the top side for the installation of a mounting clamp. Additionally, the unit also features a safety cable loop on side face, near the KlingNet/Artnet Port (see the illustration below). When mounting the fixture to a truss or any other suspended or overhead installation, be sure to secure an appropriately rated mounting clamp (not included) to the device. Attach a separate SAFETY CABLE of the appropriate weight rating to the provided safety cable loop.

MOUNTING CLAMP ATTACHMENT POINT
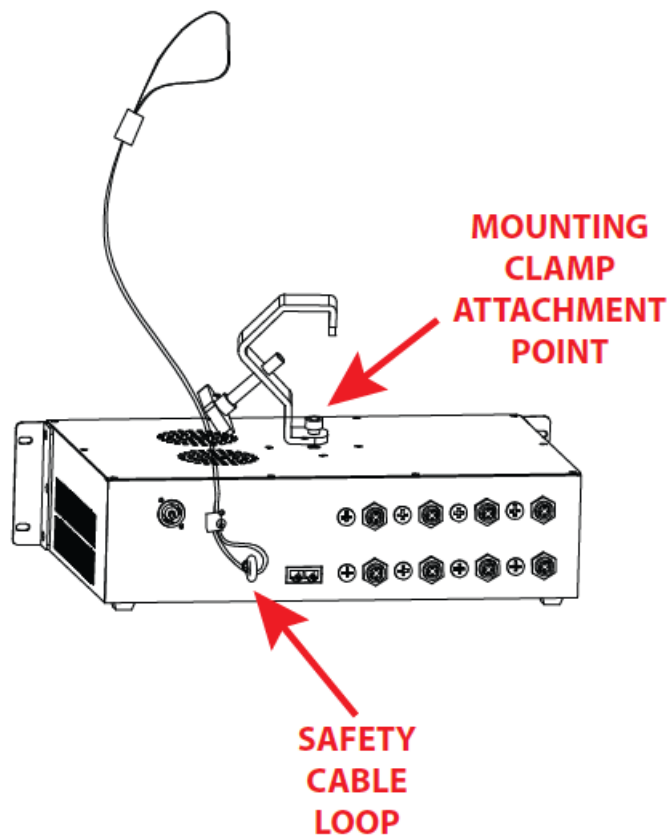
SAFETY CABLE LOOP

SAFETY CABLE:
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIX-TURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

RACK MOUNTING

This device can be mounted in a standard 19-inch rack using the mounting brackets located on each side of the device. Make sure to use mounting hardware that fits the mounting holes on the device as well as the rack itself. Use all four (4) points on the mounting brackets to ensure that the device is mounted securely. Please see the illustration below for reference.
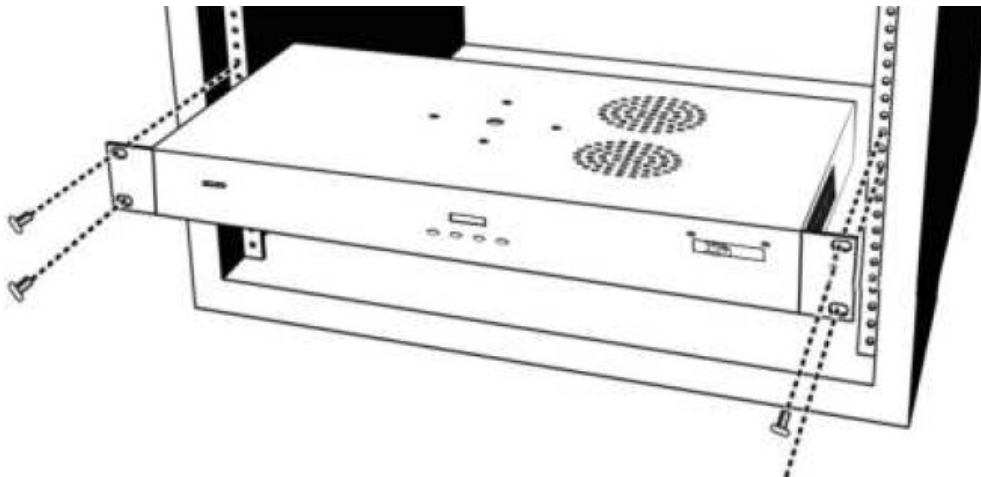
MULTIPLE DRIVERS

Up to five (5) Pixie Driver 8000 devices may be daisy-chained directly together and linked to a single controller. See the image below for reference. Please note that the controller must be set to KlingNet, Art-net, or sACN control mode. Do NOT daisy-chain more than five (5) devices directly together.

If more than five (5) devices are required, a one-gigabit ethernet switch may be used to expand the size of the network. However, even in this case, no more than ten (10) branches from the ethernet switch are allowable, with each branch containing up to five (5) daisy-chained devices. This permits a maximum of fifty (50) devices to be linked to a single controller, as shown in the image below.
Do NOT exceed this number of devices!
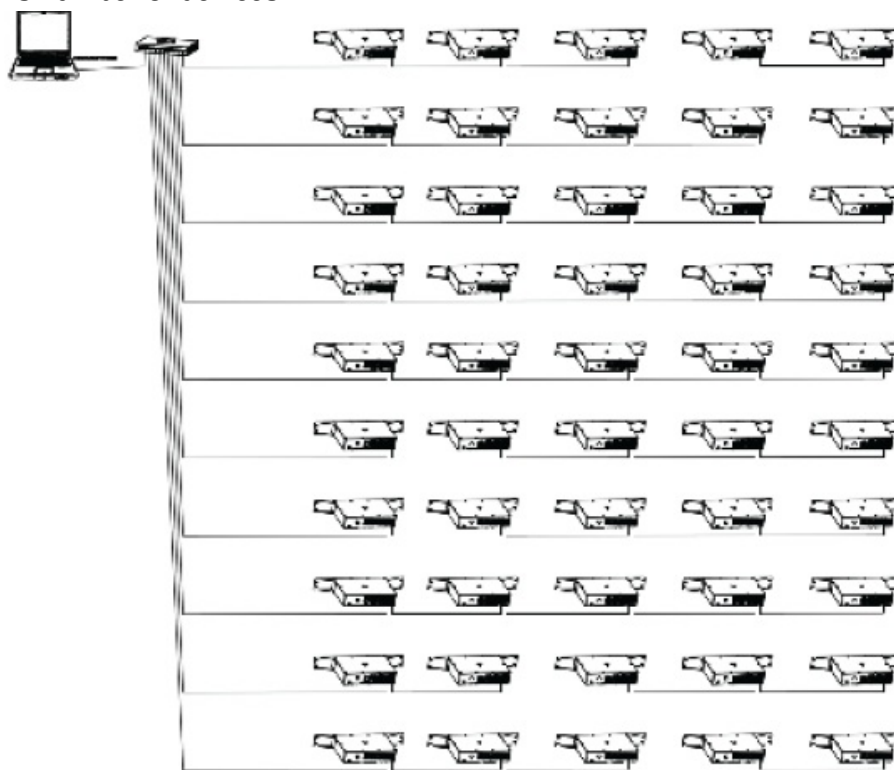
ALLOWABLE CABLE LENGTHS
16-AWG 4-pin extension cable may be used to link multiple devices. However, please take note of maximum allowable cable lengths, as listed below.

- Max length of cable connecting a controller and a device: 59 feet (18m)
- Max length of cable connecting two devices: 32 feet (10m)
- Max total cable length in a single chain: 98 feet (30m) including the lengths of the lighting strip(s)

DRIVER OUTPUT LIMITATIONS

- There is a limitation to how many pixels can be controlled by each driver output port, which in turn determines the maximum number of lighting fixtures that can be controlled by a single output or driver.
- The values listed in the following tables for number of fixtures per driver port/driver unit are representative of the maximum number of fixtures that can be connected if the fixtures used are all of the same model type, with individual pixel control.
- For example, if you connect only Pixie Strip 30s to the driver, and operate the driver in Kling-Net mode, you can connect up to 34 units of that model type to each driver port. This is defined by the fact that each driver port can handle a maximum of 1020 pixels, and each Pixie Strip 30 fixture is made up of 30 pixels. Therefore, you have 1020 pixels per driver port, divided by 30 pixels per fixture, which equals 34 fixtures per driver port.

- It is possible to mix and match Pixie Strip model types that are attached to a single driver port. In this case, the important thing to keep in mind is the maximum number of pixels per driver port.
- As long as this value is not exceeded, any combination of Pixie Strip 30s, 60s, and 120s may be used.

PIXIE STRIP 30/60/120

MODEL	TOTAL PIXELS	TOTAL CONTROL CHAN.	KLING-NET MAX PIXELS PER PORT = 1020 MAX PIXELS PER DRIVER = 8160			
			MAX FIXTURES per DRIVER PORT	MAX PIXELS per DRIVER PORT	MAX FIXTURES per DRIVER UNIT	MAX PIXELS per DRIVER UNIT
Pixie Strip 30	30	90	34	1020	272	8160
Pixie Strip 60	60	180	17	1020	136	8160
Pixie Strip 120	120	360	8	960	64	7680

MODEL	TOTAL PIXELS	TOTAL CONTROL CHAN.	ARTNET / sACN MAX PIXELS PER PORT = 170 MAX PIXELS PER DRIVER = 1360			
			MAX FIXTURES per DRIVER PORT	MAX PIXELS per DRIVER PORT	MAX FIXTURES per DRIVER UNIT	MAX PIXELS per DRIVER UNIT
Pixie Strip 30	30	90	5	150	40	1200
Pixie Strip 60	60	180	2	120	16	960
Pixie Strip 120	120	360	1	120	8	960

- Your Pixie Driver 8000 is programmed not to allow Pixie Strip fixtures to be added in such a way that the maximum number of pixels per port would be exceeded. This is done by limiting the number of Pixie Strip units that can be selected in the System Menu based on what has already been set up on the unit.
- If we look at the example from the previous section, where 34 Pixie Strip 30s have been set up on a single port in Kling-Net mode, the System Menu will not allow any further fixtures to be set up on that port, regardless of model. This is because 34 fixtures, times 30 pixels per fixture, occupies 1020 pixels.
- If we then tried to set up a Pixie Strip 60, the System Menu would not allow any values other than "0" to be selected, because the port has no remaining free pixel capacity.
- If you are having trouble adding the desired number of fixtures to a driver port, double check the number of fixtures of other Pixie Strip models that have been set up to see if they are using up all of the available pixel space on that port.

PIXELS IN USE		PIXELS FREE	
34 x Pixie Strip 30	1020 pixels		
0 x Pixie Strip 60	0 pixels	1020 pixel capacity	
0 x Pixie Strip 120	0 pixels	1020 pixels in use	
		0 pixels free	
	1020 total pixels in use		

- In this case, we would first need to "make room" on this driver port by reducing the number of Pixie Strip 30s that are set up. If we reduce the number of Pixie Strip 30s by two units, we then have a total free pixel capacity of 60 pixels on this port.

PIXELS IN USE		PIXELS FREE	
32 x Pixie Strip 30	960 pixels		
0 x Pixie Strip 60	0 pixels	1020 pixel capacity	
0 x Pixie Strip 120	0 pixels	960 pixels in use	
		60 pixels free	
	960 total pixels in use		

- Now that we have freed up pixels on this driver port, we are able to add the Pixie Strip 60, as desired. The System Menu now allows you to increase the number of Pixie Strip 60s on this driver port to 1, but it will not allow you to increase the number any higher because there are not enough pixels free to add more than 1 Pixie Strip 60. Notice, too, that the only selectable value for Pixie Strip 120s is "0" due to the fact that 60 free pixels is not enough to run a single Pixie Strip 120.

PIXELS IN USE		PIXELS FREE	
32 x Pixie Strip 30	960 pixels		
1 x Pixie Strip 60	60 pixels	1020 pixel capacity	
0 x Pixie Strip 120	0 pixels	1020 pixels in use	
		0 pixels free	
	1020 total pixels in use		

- If you are having trouble adding the desired number of fixtures to a driver port, double check the number of fixtures of other Pixie Strip models that have been set up to see if they are using up all of the available pixel space on that port.

RGB PIXEL CONTROL

This feature gives the user the ability to adjust the RGB Pixel Control configuration of the device. Individual pixels may be controlled independently for finer control over the resolution of the device's lighting display. Alternately, multiple individual pixels may be grouped together under a common set of control channels in order to reduce the number of required control channels. This also reduces the effective pixel count for each fixture, thereby allowing an increased number of fixtures to be operated off of the same driver port (see the Driver Output Limitations

section). The downside to this is the reduced resolution of the lighting display.

For example, if the user is setting up a Pixie Strip 30 containing thirty (30) individual pixels, the finest level of control would be 1×30, which signifies 30 groups of 1 pixel each. In a 1×30 pixel control configuration, each of the 30 pixels is controlled independently, giving the lighting display a fine degree of resolution.

However, each individual pixel requires 3 control channels (Red, Green, and Blue), and therefore 90 control channels are required to operate the device in this configuration, in addition to the need for the driver port to have free capacity to control at least 30 pixels.

If using fewer control channels or less driver port pixel capacity is desired, the user may opt for a different pixel control configuration, such as 2×15. This configuration separates the lighting display into 15 groups, each containing 2 individual pixels, with each group being controlled by a single set of control channels. Thus, the requirement for number of control channels is reduced to 45 (15 groups each requiring 3 control channels for Red, Green, and Blue). Moreover, each group of 2 pixels can now be treated effectively as a single large pixel, reducing the required driver port free pixel capacity to just 15 pixels. This is particularly useful when operating in Art-Net or sACN mode, where each driver port can accommodate a relatively limited number of pixels.

Pixel Count	Pixel Group Options
1	1×1
2	1×2, 2×1
3	1×3, 3×1
4	1×4, 2×2, 4×1
5	1×5, 5×1
6	1×6, 2×3, 3×2, 6×1
7	1×7
8	1×8, 2×4, 4×2, 8×1
9	1×9, 3×3, 9×1
10	1×10, 2×5, 5×2, 10×1
11	1×11
12	1×12, 2×6, 3×4, 4×3, 6×2, 12×1
13	1×13
14	1×14, 2×7, 7×2, 14×1
15	1×15, 3×5, 5×3, 15×1
16	1×16, 2×8, 4×4, 8×2, 16×1
17	1×17
18	1×18, 2×9, 3×6, 6×3, 9×2, 18×1
19	1×19
20	1×20, 2×10, 4×5, 5×4, 10×2, 20×1
21	1×21, 3×7, 7×3, 21×1
22	1×22, 2×11, 11×2, 22×1
23	1×23

24	1×24, 2×12, 3×8, 4×6, 6×4, 8×3, 12×2, 24×1
25	1×25, 5×5, 25×1
26	1×26, 2×13, 13×2, 26×1
27	1×27, 3×9, 9×3, 27×1
28	1×28, 2×14, 4×7, 7×4, 14×2, 28×1
29	1×29
30	1×30, 2×15, 3×10, 5×6, 6×5, 10×3, 15×2, 30×1
31	1×31
32	1×32, 2×16, 4×8, 8×4, 16×2, 32×1

Pixel Count	Pixel Group Options
33	1×33, 3×11, 11×3, 33×1
34	1×34, 2×17, 17×2, 34×1
35	1×35, 5×7, 7×5, 35×1
36	1×36, 2×18, 3×12, 4×9, 6×6, 9×4, 12×3, 18×2, 36×1
37	1×37
38	1×38, 2×19, 19×2, 38×1
39	1×39, 3×13, 13×3, 39×1
40	1×40, 2×20, 4×10, 5×8, 8×5, 10×4, 20×2, 40×1
41	1×41
42	1×42, 2×21, 3×14, 6×7, 7×6, 14×3, 21×2, 42×1
43	1×43
44	1×44, 2×22, 4×11, 11×4, 22×2, 44×1
45	1×45, 3×15, 5×9, 9×5, 15×3, 45×1
46	1×46, 2×23, 23×2, 46×1
47	1×47
48	1×48, 2×24, 3×16, 4×12, 6×8, 8×6, 12×4, 16×3, 24×2, 48×1
49	1×49, 7×7, 49×1
50	1×50, 2×25, 5×10, 10×5, 25×2, 50×1
51	1×51, 3×17, 17×3, 51×1
52	1×52, 2×26, 4×13, 13×4, 26×2, 52×1
53	1×53
54	1×54, 2×27, 3×18, 6×9, 9×6, 18×3, 27×2, 54×1
55	1×55, 5×11, 11×5, 55×1
56	1×56, 2×28, 4×14,7×8, 8×7, 14×4, 28×2, 56×1
57	1×57, 3×19, 19×3, 57×1
58	1×58, 2×29, 29×2, 58×1
59	1×59
60	1×60, 2×30, 3×20, 4×15, 5×12, 6×10, 10×6, 12×5, 15×4, 20×3, 30×2, 60×1

Pixel Count	Pixel Group Options
61	1×61
62	1×62, 2×31, 31×2, 62×1
63	1×63, 3×21, 7×9, 9×7, 21×3, 63×1
64	1×64, 2×32, 4×16, 8×8, 16×4, 32×2, 64×1
65	1×65, 5×13, 13×5, 65×1
66	1×66, 2×33, 3×22, 6×11, 11×6, 22×3, 33×2, 66×1
67	1×67
68	1×68, 2×34, 4×17, 17×4, 34×2, 68×1
69	1×69, 3×23, 23×3, 69×1
70	1×70, 2×35, 5×14, 7×10, 10×7, 14×5, 35×2, 70×1
71	1×71
72	1×72, 2×36, 3×24, 4×18, 6×12, 8×9, 9×8, 12×6, 18×4, 24×3, 36×2, 72×1
73	1×73
74	1×74, 2×37, 37×2, 74×1
75	1×75, 3×25, 5×15, 15×5, 25×3, 75×1
76	1×76, 2×38, 4×19, 19×4, 38×2, 76×1
77	1×77, 7×11, 11×7, 77×1
78	1×78, 2×39, 3×26, 6×13, 13×6, 26×3, 39×2, 78×1
79	1×79
80	1×80, 2×40, 4×20, 5×16, 8×10, 10×8, 16×5, 20×4, 40×2, 80×1
81	1×81, 3×27, 9×9, 27×3, 81×1
82	1×82, 2×41, 41×2, 82×1
83	1×83
84	1×84, 2×42, 3×28, 4×21, 6×14, 7×12, 12×7, 14×6, 21×4, 28×3, 42×2, 84×1
85	1×85, 5×17, 17×5, 85×1
86	1×86, 2×43, 43×2, 86×1
87	1×87, 3×29, 29×3, 87×1
88	1×88, 2×44, 4×22, 8×11, 11×8, 22×4, 44×2, 88×1
89	1×89

Pixel Count	Pixel Group Options
90	1×90, 2×45, 3×30, 5×18, 6×15, 9×10, 10×9, 15×6, 18×5, 30×3, 45×2, 90×1
91	1×91, 7×13, 13×7, 91×1
92	1×92, 2×46, 4×23, 23×4, 46×2, 92×1
93	1×93, 3×31, 31×3, 93×1
94	1×94, 2×47, 47×2, 94×1
95	1×95, 5×19, 19×5, 95×1
96	1×96, 2×48, 3×32, 4×24, 6×16, 8×12, 12×8, 16×6, 24×4, 32×3, 48×2, 96×1
97	1×97
98	1×98, 2×49, 7×14, 14×7, 49×2, 98×1
99	1×99, 3×33, 9×11, 11×9, 33×3, 99×1
100	1×100, 2×50, 4×25, 5×20, 10×10, 20×5, 25×4, 50×2, 100×1
101	1×101
102	1×102, 2×51, 3×34, 6×17, 17×6, 34×3, 51×2, 102×1
103	1×103
104	1×104, 2×52, 4×26, 8×13, 13×8, 26×4, 52×2, 104×1
105	1×105, 3×35, 5×21, 7×15, 15×7, 21×5, 35×3, 105×1
106	1×106, 2×53, 53×2, 106×1
107	1×107
108	1×108, 2×54, 3×36, 4×27, 6×18, 9×12, 12×9, 18×6, 27×4, 36×3, 54×2, 108×1
109	1×109
110	1×110, 2×55, 5×22, 10×11, 11×10, 22×5, 55×2, 110×1
111	1×111, 3×37, 37×3, 111×1
112	1×112, 2×56, 4×28, 7×16, 8×14, 14×8, 16×7, 28×4, 56×2, 112×1
113	1×113
114	1×114, 2×57, 3×38, 6×19, 19×6, 38×3, 57×2, 114×1
115	1×115, 5×23, 23×5, 115×1
116	1×116, 2×58, 4×29, 29×4, 58×2, 116×1
117	1×117, 3×39, 9×13, 13×9, 39×3, 117×1

Pixel Count	Pixel Group Options
118	1×118, 2×59, 59×2, 118×1

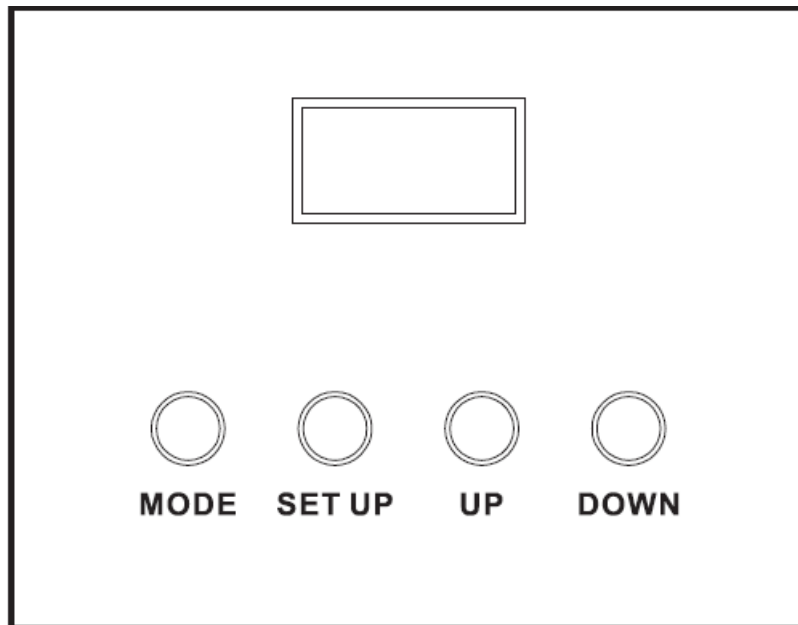| 119	1×119, 7×17, 17×7, 119×1
120	1×120, 2×60, 3×40, 4×30, 5×24, 6×20, 8×15, 10×12, 12×10, 15×8, 20×6, 24×5, 30×4, 40×3,60×2, 120×1
121	1×121, 11×11, 121×1
122	1×122, 2×61, 61×2, 122×1
123	1×123, 3×41, 41×3, 123×1
124	1×124, 2×62, 4×31, 31×4, 62×2, 124×1
125	1×125, 5×25, 25×5, 125×1
126	1×126, 2×63, 3×42, 6×21, 7×18, 9×14 ,14×9, 18×7, 21×6, 42×3, 63×2, 126×1
127	1×127
128	1×128, 2×64, 4×32, 8×16, 16×8, 32×4, 64×2, 128×1
129	1×129, 3×43, 43×3, 129×1
130	1×130, 2×65, 5×26, 10×13, 13×10, 26×5, 65×2, 130×1
131	1×131
132	1×132, 2×66, 3×44, 4×33, 6×22, 11×12, 12×11, 22×6, 33×4, 44×3, 66×2, 132×1
133	1×133, 7×19, 19×7, 133×1
134	1×134, 2×67, 67×2, 134×1
135	1×135, 3×45, 5×27, 9×15, 15×9, 27×5, 45×3, 135×1
136	1×136, 2×68, 4×34, 8×17, 17×8, 34×4, 68×2, 136×1
137	1×137
138	1×138, 2×69, 3×46, 6×23, 23×6, 46×3, 69×2, 138×1
139	1×139
140	1×140, 2×70, 4×35, 5×28, 7×20, 10×14, 14×10, 20×7, 28×5, 35×4, 70×2, 140×1
141	1×141, 3×47, 47×3, 141×1
142	1×142, 2×71, 71×2, 142×1
143	1×143, 11×13, 13×11, 143×1

144	1×144, 2×72, 3×48, 6×36, 8×24, 9×18, 12×16, 16×12, 18×9, 24×8, 36×6, 48×3, 72×2, 144×1
145	1×145, 5×29, 29×5, 145×1

Pixel Count	Pixel Group Options
146	1×146, 2×73, 73×2, 146×1
147	1×147, 3×49, 7×21, 21×7, 49×3, 147×1
148	1×148, 2×74, 4×37, 37×4, 74×2, 148×1
149	1×149
150	1×150, 2×75, 3×50, 5×30, 6×25, 10×15, 15×10, 25×6, 30×5, 50×3, 75×2, 150×1
151	1×151
152	1×152, 2×76, 4×38, 8×19, 19×8, 38×4, 76×2, 152×1
153	1×153, 3×51, 9×17, 17×9, 51×3, 153×1
154	1×154, 2×77, 7×22, 11×14, 14×11, 22×7, 77×2, 154×1
155	1×155, 5×31, 31×5, 155×1
156	1×156, 2×78, 3×52, 4×39, 6×26, 12×13, 13×12, 26×6, 39×4, 52×3, 78×2, 156×1
157	1×157
158	1×158, 2×79, 79×2, 158×1
159	1×159, 3×53, 53×3, 159×1
160	1×160, 2×80, 4×40, 5×32, 8×20, 10×16, 16×10, 20×8, 32×5, 40×4, 80×2, 160×1
161	1×161, 7×23, 23×7, 161×1
162	1×162, 2×81, 3×54, 6×27, 9×18, 18×9, 27×6, 54×3, 81×2, 162×1
163	1×163
164	1×164, 2×82, 4×41, 41×4, 82×2, 164×1
165	1×165, 3×55, 5×33, 11×15, 15×11, 33×5, 55×3, 165×1
166	1×166, 2×83, 83×2, 166×1
167	1×167
168	1×168, 2×84, 3×56, 4×42, 6×28, 7×24, 8×21, 12×14, 14×12, 21×8, 24×7, 28×6, 42×4, 56×3, 84×2, 168×1
169	1×169, 13×13, 169×1
170	1×170, 2×85, 5×34, 10×17, 17×10, 34×5, 85×2, 170×1

CONTROL PANEL

The device includes an easy to navigate system menu control panel display where all necessary settings and adjustments are made (see image below).

- The MODE button is used to cycle through main menu options, or to return to the previous menu.
- The SETUP button is used to select an option in either the main menu or the sub-menu of any main menu item, and to cycle through the sub-menu options.
- The UP and DOWN buttons are used to adjust the values of the sub-menu options.

SYSTEM MENU

MANUAL CONTROL	Red	000 – 255			
	Green	000 – 255			
	Blue	000 – 255			
	Port1 EN/DIS	Enable / Disable			
	Port2 EN/DIS	Enable / Disable			
	Port3 EN/DIS	Enable / Disable			
	Port4 EN/DIS	Enable / Disable			
	Port5 EN/DIS	Enable / Disable			
	Port6 EN/DIS	Enable / Disable			
	Port7 EN/DIS	Enable / Disable			
	Port8 EN/DIS	Enable / Disable			
KLINGNET	Port1 Out Set	Pixie Strip Setup	30 Number xx	00 – 34	
			60 Number xx	00 – 17	Default = 10
			120 Number xx	00 – 08	
	Port2 Out Set	Pixie Strip Setup	30 Number xx	00 – 34	
			60 Number xx	00 – 17	Default = 10
			120 Number xx	00 – 08	
	…	…	…	…	…
	Port8 Out Set	Pixie Strip Setup	30 Number xx	00 – 34	
			60 Number xx	00 – 17	Default = 10
			120 Number xx	00 – 08	
	Pixie Groups 1&2	30×1 RGB Pixels, 15×2 RGB Pixels…2×15 RGB Pixels			Display if this port group has at least one Pixie Strip 30
		60×1 RGB Pixels, 30×2 RGB Pixels…2×30 RGB Pixels			Display if this port group has at least one Pixie Strip 30 and at least one Pixie Strip 60
		120×1 RGB Pixels, 60×2 RGB Pixels…2×60 RGB Pixels			Display if this port group contains no Pixie Strip 30s and no Pixie Strip 60s

KLINGNET	Pixie Groups 3&4	30×1 RGB Pixels, 15×2 RGB Pixels…2×15 RGB Pixels	Display if this port group has at least one Pixie Strip 30
		60×1 RGB Pixels, 30×2 RGB Pixels…2×30 RGB Pixels	Display if this port group has at least one Pixie Strip 30 and at least one Pixie Strip 60
		120×1 RGB Pixels, 60×2 RGB Pixels…2×60 RGB Pixels	Display if this port group contains no Pixie Strip 30s and no Pixie Strip 60s
	Pixie Groups 5&6	30×1 RGB Pixels, 15×2 RGB Pixels…2×15 RGB Pixels	Display if this port group has at least one Pixie Strip 30
		60×1 RGB Pixels, 30×2 RGB Pixels…2×30 RGB Pixels	Display if this port group has at least one Pixie Strip 30 and at least one Pixie Strip 60
		120×1 RGB Pixels, 60×2 RGB Pixels…2×60 RGB Pixels	Display if this port group contains no Pixie Strip 30s and no Pixie Strip 60s
	Pixie Groups 7&8	30×1 RGB Pixels, 15×2 RGB Pixels…2×15 RGB Pixels	Display if this port group has at least one Pixie Strip 30
		60×1 RGB Pixels, 30×2 RGB Pixels…2×30 RGB Pixels	Display if this port group has at least one Pixie Strip 30 and at least one Pixie Strip 60
		120×1 RGB Pixels, 60×2 RGB Pixels…2×60 RGB Pixels	Display if this port group contains no Pixie Strip 30s and no Pixie Strip 60s

ARTNET	Port 1 Out Set	Pixie Strip Setup	30 Number xx	00 – xx	
			60 Number xx	00 – xx	Default = 01
			120 Number xx	00 – xx	
		Pixie Groups Set	30×1 RGB Pixels, 15×2 RGB Pixels …2×15 RGB Pixels		Display if port has at least one Pixie Strip 30
			60×1 RGB Pixels, 30×2 RGB Pixels …2×30 RGB Pixels		Display if port has no Pixie Strips 30s and at least one Pixie Strip 60
			120×1 RGB Pixels, 60×2 RGB Pixels…2×60 RGB Pixels		Display if port has no Pixie Strip 30s or Pixie Strip 60s
		IP Address Setup	xxx:xxx:xxx:xxx		Ports 1&2, 3&4, 5&6, and 7&8 share the same IP address
		Universe Setup	00001 – 32768		
	…	…	…	…	…
	Port 8 Out	Pixie Strip Setup	30 Number xx	00 – xx	
			60 Number xx	00 – xx	Default = 01
			120 Number xx	00 – xx	
		Pixie Groups Set	30×1 RGB Pixels, 15×2 RGB Pixels …2×15 RGB Pixels		Display if port has at least one Pixie Strip 30
			60×1 RGB Pixels, 30×2 RGB Pixels …2×30 RGB Pixels		Display if port has no Pixie Strips 30s and at least one Pixie Strip 60
			120×1 RGB Pixels, 60×2 RGB Pixels…2×60 RGB Pixels		Display if port has no Pixie Strip 30s or Pixie Strip 60s
		IP Address Setup	xxx:xxx:xxx:xxx		Ports 1&2, 3&4, 5&6, and 7&8 share the same IP address
		Universe Setup	00001 – 32768		

sACN	Port 1 Out Set	Pixie Strip Setup	30 Number xx	00 – xx	
			60 Number xx	00 – xx	Default = 01
			120 Number xx	00 – xx	
		Pixie Groups Set	30×1 RGB Pixels, 15×2 RGB Pixels …2×15 RGB Pixels		Display if port has at least one Pixie Strip 30
			60×1 RGB Pixels, 30×2 RGB Pixels …2×30 RGB Pixels		Display if port has no Pixie Strips 30s and at least one Pixie Strip 60
			120×1 RGB Pixels, 60×2 RGB Pixels…2×60 RGB Pixels		Display if port has no Pixie Strip 30s or Pixie Strip 60s
		Universe Setup	00001 – 64000		
	…	…	…	…	…
	Port 8 Out Set	Pixie Strip Setup	30 Number xx	00 – xx	
			60 Number xx	00 – xx	Default = 01
			120 Number xx	00 – xx	
		Pixie Groups Set	30×1 RGB Pixels, 15×2 RGB Pixels …2×15 RGB Pixels		Display if port has at least one Pixie Strip 30
			60×1 RGB Pixels, 30×2 RGB Pixels …2×30 RGB Pixels		Display if port has no Pixie Strips 30s and at least one Pixie Strip 60
			120×1 RGB Pixels, 60×2 RGB Pixels…2×60 RGB Pixels		Display if port has no Pixie Strip 30s or Pixie Strip 60s
		Universe Setup	00001 – 64000		

PROGRAMS	Program Play	Program xxx	001 – 016	
		Speed xxx	001 – 016	
		Fade xxx	001 – 016	
		Phase Time xxx	001 – 016	
	Port1 Out Set	30 Number xx	00 – 34	
		60 Number xx	00 – 17	Default = 10

		120 Number xx	00 – 08		
		…	…	…	…
	Port8 Out Set	30 Number xx	00 – 34		
		60 Number xx	00 – 17		Default = 10
		120 Number xx	00 – 08		
ARTNET & KLINGNET	KlingNet Dis/En	Enable / Disable			
	KlingNet Set	Port1 Out Set	30 Number xx	00 – 34	
			60 Number xx	00 – 17	Default = 10
			120 Number xx	00 – 08	
		…	…	…	…
		Port8 Out Set	30 Number xx	00 – 34	
			60 Number xx	00 – 17	Default = 10
			120 Number xx	00 – 08	
	Artnet Set	Port1 Out Set	IP Address Setup	xxx:xxx:xxx:xxx	Note: Ports 1&2, 3&4, 5&6, and 7&8 share the same network IP address
			Universe Setup	00001 – 32768	
		…	…	…	
		Port8 Out Set	IP Address Setup	xxx:xxx:xxx:xxx	
			Universe Setup	00001 – 32768	
SETUP OPTIONS	Rotate Display	No / Yes			
	Factory Restore	No / Yes			
SOFTWARE VERSIONS	Port1&2 Vx.xx				
	Port3&4 Vx.xx				
	Port5&6 Vx.xx				
	Port7&8 Vx.xx				
SERVICE	Passcode = 011	Update Software	No / Yes		

MAINTENANCE GUIDELINES

DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!

MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this device. Please refer all other service issues to an authorized ADJ service technician. Should you need any spare parts, please order genuine parts from your local ADJ dealer.
Please refer to the following points during routine inspections:

- A detailed electrical check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, rigging hardware, and rigging points (ceiling, suspen-sion, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue, or sediments.

NEVER remove the ground prong from the power cable.
SOFTWARE UPDATES
For software updates, please contact ADJ service to obtain a software uploader and detailed instruc-tions. Refer to the Introduction section of this manual for contact information.

SPECIFICATIONS

Control Features:

- Power / data supply for ADJ Pixie Strip 30, Pixie Strip 60, and Pixie Strip 120
- Manual RGB mode
- Internal programs
- Manual Dimming and Strobe Control
- Full Pixel Mapping Control
- Drives up to 8,160 Pixels via KlingNet (1,020 Pixels per port)
- Drives up to 1,360 Pixels via Art-Net and sACN (170 Pixels per port)
- OLED screen with 4-button menu
- USB port for Firmware Updates

Control Quantity:

- KlingNet: (34) Pixie Strip 30's, (17) Pixie Strip 60's or (8) Pixie Strip 120's (Per port. Or any combi-nation not exceeding 1,020 pixel per port)
- ArtNet: (5) Pixie Strip 30's, (2) Pixie Strip 60's or (1) Pixie Strip 120 (Per port. Or any combination not exceeding 170 pixel per port)
- sACN: (5) Pixie Strip 30's, (2) Pixie Strip 60's or (1) Pixie Strip 120 (Per port. Or any combination not exceeding 170 pixel per port)

Connections:

- Power: Power Lock Input
- Two KlingNet / Artnet ethernet ports

- Eight 4-pin DC24V power/data outputs to Pixie Strips

Mounting Options:

- Bolt to add a clamp to hang from truss (clamp and truss not included)
- Includes 19-inch rack mount ears
- Safety eye

Electrical:

- Multi-voltage operation: AC 100-240V, 50/60Hz
- Power Consumption: 1,600W max
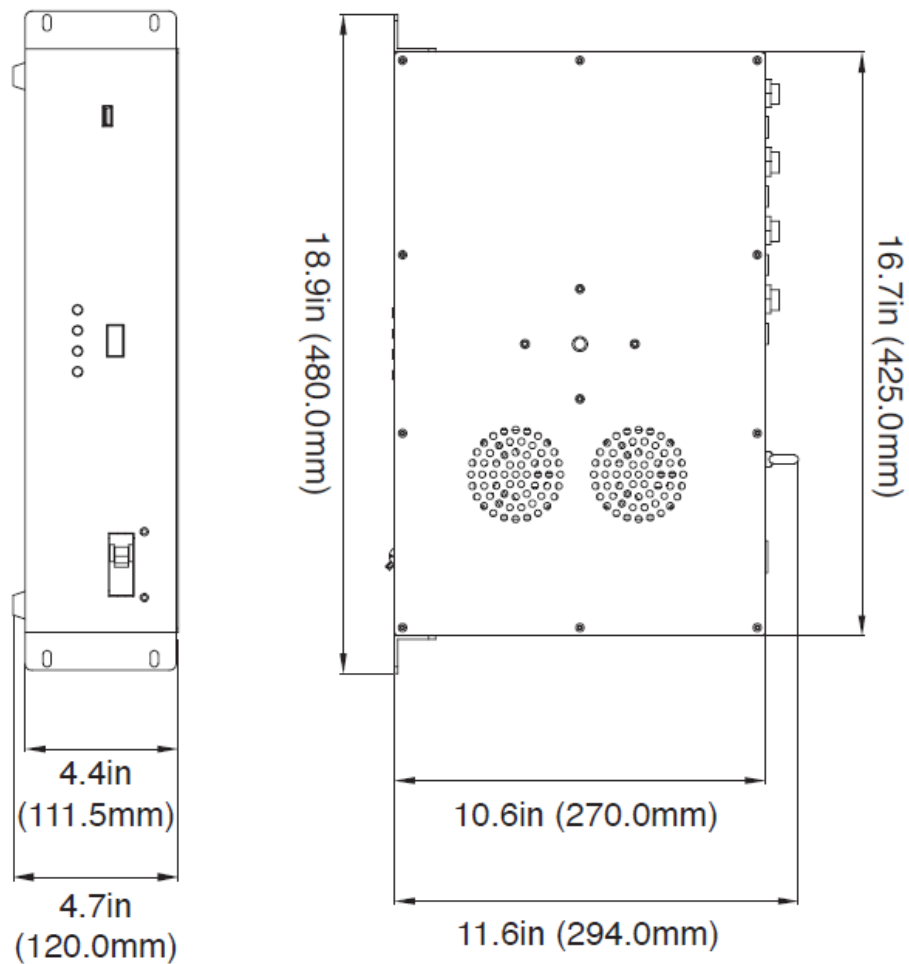- -4°F to 113°F (-20°C to 45°C)

Dimensions / Weight:

- Dimensions (LxWxH): 11.6" x 18.9" x 4.8" / 294x480x120mm
- Weight: 14.4 lbs. / 6.5 kg.

Approvals:

- CE | cETLus (Pending)

DIMENSIONS

18.9in (480.0mm)

16.7in (425.0mm)

4.4in
(111.5mm)

4.7in
(120.0mm)

10.6in (270.0mm)

11.6in (294.0mm)

Dimensions not drawn to scale.

ACCESSORIES

Order Code	Description
PIX158	1-foot Pixie Strip Link Cable
PIX174	3-foot Pixie Strip Link Cable
PIX188	5-foot Pixie Strip Link Cable
PIX200	10-foot Pixie Strip Link Cable
PIX213	15-foot Pixie Strip Link Cable
PIX229	25-foot Pixie Strip Link Cable
PIX242	50-foot Pixie Strip Link Cable

Documents / Resources

ADJ PIXIE DRIVER 2000 Controller for Pixie Strip [pdf] User Manual
PIXIE DRIVER 2000 Controller for Pixie Strip, PIXIE DRIVER 2000, Controller for Pixie Strip, Pixie Strip, Strip

References

- **Topics | ADJ Forums**
- **Home**
- **Home page - ADJ**