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ADJ 2000 V2 PIXIE DRIVER User Manual

Contents

ADJ 2000 V2 PIXIE DRIVER

GENERAL INFORMATION

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 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

Twist-Lock power cable
19-inch rack mount ears
4-pin data cable

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; 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

FEATURES

- Power / data supply for ADJ Lighting Pixie Strip 30, Pixie Strip 60, and Pixie Strip 120
- Manual RGB mode
- Internal programs
- Manual Dimming and Strobe Control
- Full Pixel Mapping Control
- 2,040 Pixels via Kling-Net
- 340 Pixels via Art-Net and sACN (streaming ACN)
- OLED screen with 4-button menu
- USB port for Firmware Updates

Included Items:

- Twist-Lock power cable
- 19-inch Rack Mount Ears
- 4-Pin Data Cable

WARRANTY REGISTRATION

The Pixie Driver 2000 V2 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 displaying an R.A. number on the outside of the package will be returned to the shipper.

SAFETY GUIDELINES

For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

- Be sure to save the packing carton in the unlikely event the device may have to be returned for service
- Do not spill water or other liquids into or on to the device.
- Be sure that the local power outlet matches the required voltage for the device
- Do not open up the device under any conditions. 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 case 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

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!
IP20 Rating: Fixture is protected against solids approximately the size of an adult finger, or larger. FIXTURE IS NOT PROTECTED AGAINST LIQUID INTRUSION OF ANY KIND!

- The device should be serviced by qualified service personnel when:
    1. The power-supply cord or the plug has been damaged.

2. Objects have fallen on, or liquid has been spilled into, the device.

3. The device has been exposed to rain or water.

4. The appliance does not appear to operate normally or exhibits a marked change in performance.

OVERVIEW
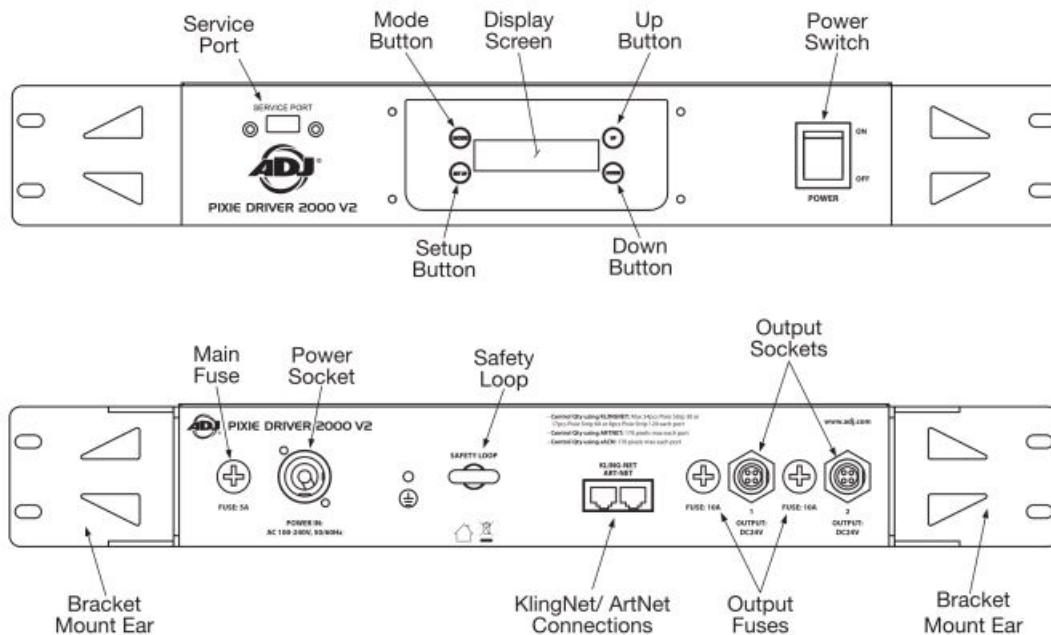
INSTALLATION

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 in areas outside walking paths, seating areas, or away from areas where unauthorized personnel might be able to reach the device by hand.

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 above for reference.
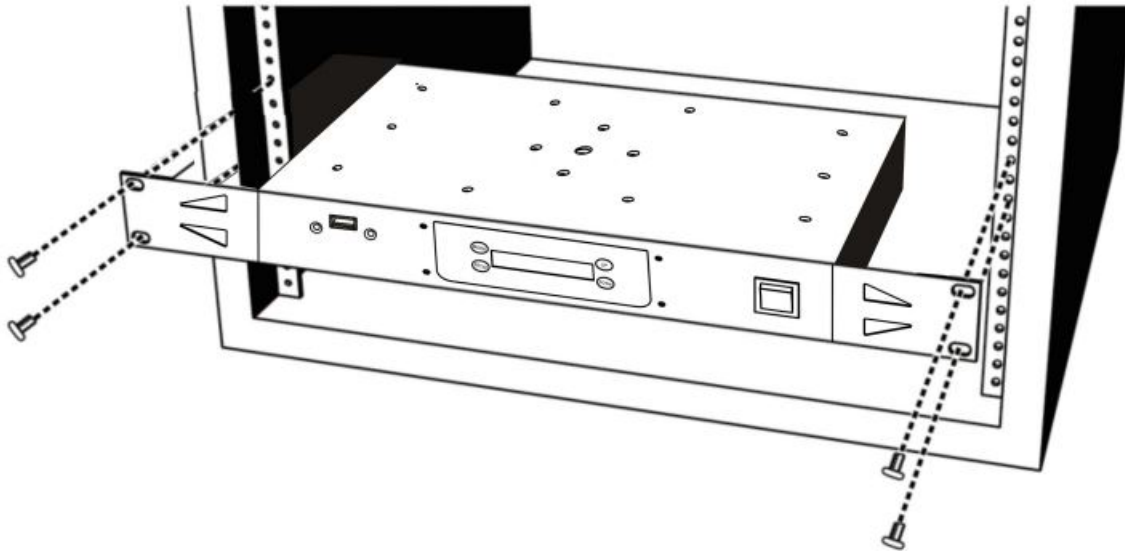
MULTIPLE DRIVERS

Up to five (5) Pixie Driver 2000 devices may be daisy-chained directly together and linked to a single controller. See the image below for reference. Do NOT daisy-chain more than five (5) devices directly together.
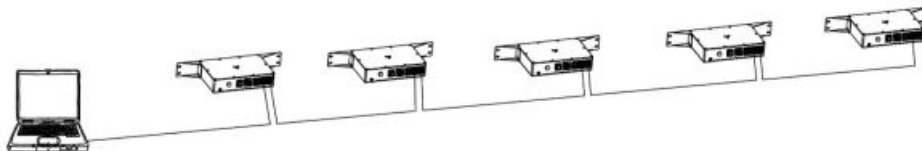
If more than five (5) devices are required, a one-gigabit ethernet switch may be used to expand the size of the network. However, even in this case, no more than ten (10) branches from the ethernet switch are allowable, with each branch containing up to five (5) daisy-chained devices. This permits a maxi-mum of fifty (50) devices to be linked to a single controller, as shown in the image below.

Do NOT exceed this number of devices!
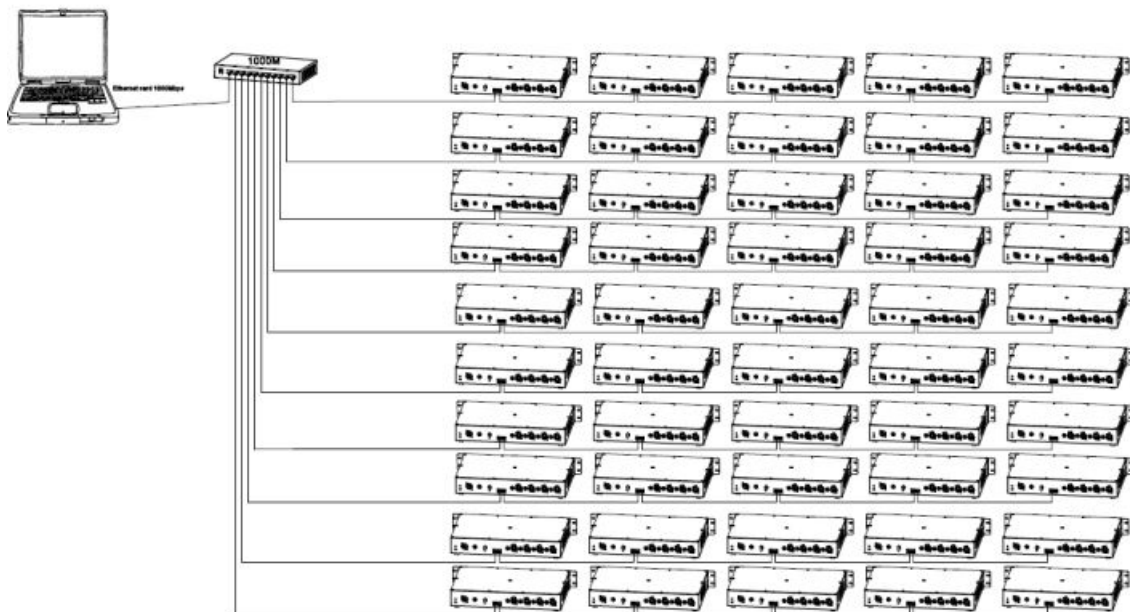
ALLOWABLE CABLE LENGTHS

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 = 2040			
			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	68	2040
Pixie Strip 60	60	180	17	1020	34	2040
Pixie Strip 120	120	360	8	960	16	1920

MODEL	TOTAL PIXELS	TOTAL CONTROL CHAN.	ARTNET / sACN MAX PIXELS PER PORT = 170 MAX PIXELS PER DRIVER = 340			
			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	10	300
Pixie Strip 60	60	180	2	120	4	240
Pixie Strip 120	120	360	1	120	2	240

Your Pixie Driver 2000 V2 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
	1020 total pixels in use	**0 pixels free**

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
	960 total pixels in use	**60 pixels free**

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
	1020 total pixels in use	**0 pixels free**

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.

RGB PIXEL CONTROL

PIXEL CONTROL MODES, FULL LIST

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

Pixel Count	Pixel Group Options
32	1×32, 2×16, 4×8, 8×4, 16×2, 32×1
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

Pixel Count	Pixel Group Options
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

Pixel Count	Pixel Group Options
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
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

Pixel Count	Pixel Group Options

88	1×88, 2×44, 4×22, 8×11, 11×8, 22×4, 44×2, 88×1
89	1×89
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

Pixel Count	Pixel Group Options
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

Pixel Count	Pixel Group Options
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
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

Pixel Count	Pixel Group Options
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

| Pixel Count	Pixel Group Options
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
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

Pixel Count	Pixel Group Options
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

SYSTEM MENU
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.
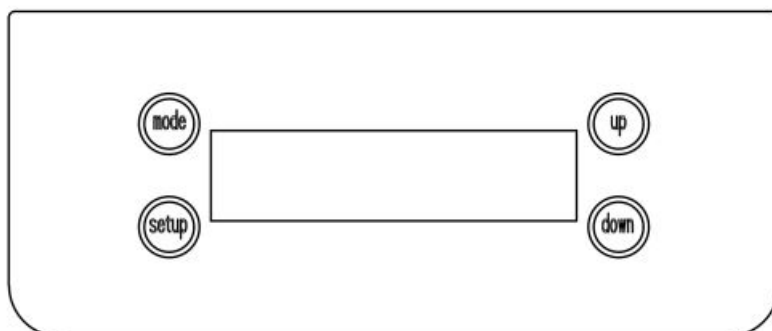
SYSTEM MENU

MODE	SET UP	UP/DOWN	DESCRIPTION
	Red Dimmer	Manual Control Red: xxx	Adjust intensity of red color
	Green Dimmer	Manual Control Green: xxx	Adjust intensity of green color
	Blue Dimmer	Manual Control Blue: xxx	Adjust intensity of blue color
DIMMER MODE	Output Enable or Disable Set	Manual Control: Out1: Enable / Disable	Enable or disable output 1
		Manual Control: Out2: Enable / Disable	Enable or disable output 2

KLINGNET MODE	Pixie Strip Setup	Klingnet Out x Pixie Strip xxx	Select which Pixie Strip model will be connected to each output. • x = Output Port (1 or 2) • xxx = Pixie Strip model (30, 60, or 120)
		Klingnet Out x xxx IP Number xx	Select the number of individual Pixie Strip units that will be connected to each output. • xx = number of units
		Klingnet Out x xx X xx RGB Pixels	Select the RGB Pixel Control mode. See the **RGB Pixel Control** section of this manual for a full list of selectable values.
ARTNET MODE	IP Address Set	IP Address Out x xxx:xxx:xxx:xxx	Set IP address of each output.
	DMX Universe Set	Universe Out x U:xxxxx	Set DMX universe of each output.
	Pixie Strip Setup	Artnet Out x Pixie Strip x xx	Select which Pixie Strip model will be connected to each output. • x = Output Port (1 or 2) • xxx = Pixie Strip model (30, 60, or 120)
		Artnet Out x xxx Number xx	Select the number of individual Pixie Strip units that will be connected to each output. • xx = number of units
		Artnet Out x xx X xx RGB Pixels	Select the RGB Pixel Control mode. See the **RGB Pixel Control** section of this manual for a full list of selectable values.
sACN CONTROL MODE	DMX Universe Set	sACN Out x U:xxxxx	Set the DMX universe of each output (x).
	Pixie Strip Setup	sACN Out x Pixie Strip x xx	Select which Pixie Strip model will be connected to each output. • x = Output Port (1 or 2) • xxx = Pixie Strip model (30, 60, or 120)
		sACN Out x xxx Number xx	Select the number of individual Pixie Strip units that will be connected to each output. • xx = number of units

SERVICE	Passcode: 011	Software Update	Yes / No	Passcode is 011. Then press SETUP to enter into software update menu.

MODE	SET UP	UP/DOWN	DESCRIPTION
sACN CONTROL MODE (continued)	Pixie Strip Setup	sACN Out x xx X xx RGB Pixels	Select the RGB Pixel Control mode. See the **RGB Pixel Control** section of this manual for a full list of selectable values.
KLINGNET & ARTNET CONTROL MODE	Klingnet Enable or Disable Set	Klingnet & Artnet Klingnet Enable/Disable	Enable or disable Klingnet control
	Klingnet Pixie Strip Setup	Klingnet Out x Pixie Strip xxx	Select which Pixie Strip model will be connected to each output. • x = Output Port (1 or 2) • xxx = Pixie Strip model (30, 60, or 120)
		Klingnet Out x xxx Number xx	Select the number of individual Pixie Strip units that will be connected to each output. • xx = number of units
	Artnet IP Address Set	IP Address Out x xxx:xxx:xxx:xxx	Set IP address of each output
	Artnet Universe Set	Universe Out x U x:xxxxx	Set DMX universe of each output
BUILT IN PROGRAM MODE	Program Play Set	Programs Program xx	Select a built-in program.
		Programs Speed xx	Set the program speed.
		Programs Fade xx 0-16 Fastest to Slowest	Set the program fade speed.
		Programs Phase Time xx	Set the phase time.
	Pixie Strips Setup	Program Out x Pixie Strip xxx	Select which Pixie Strip model will be connected to each output. • x = Output Port (1 or 2) • xxx = Pixie Strip model (30, 60, or 120)
		Program Out x xxx IP Number xx	Select the number of individual Pixie Strip units that will be connected to each output. xx = number of units
		Setup Options BLGT: On	LED backlight always on

SETUP OPTIONS	LCD Backlight On/Off	Setup Options BLGT: Off	LED backlight off after 20 sec
	LCD Backlight Brightness	Setup Options BRCO: xxx	Adjust brightness of LCD backlight
	System Reset	Setup Options SysReset	Reset unit to factory settings
SOFTWARE VERSION	Software Version Display	Software Version Port1 Vx.x	Display software version of port 1
		Software Version Port2 Vx.x	Display software version of port 2
SERVICE	Passcode: 011	Software Update	Yes / No	Passcode is 011. Then press SETUP to enter into software update menu.

SOFTWARE UPDATES

To update the unit via the USB port, follow the directions shown below:

1. Begin by loading the software provided by ADJ onto an empty USB flash drive (4GB or smaller is recommended).
2. In the system menu, navigate to Service > Passcode > Update Software, then select "Yes." The passcode is "011". Refer to the System Menu section of this manual.
3. The software update should begin once the "Yes" option is selected. When the software update has been completed, the screen will display the message "Software Update OK".
4. Remove the USB, turn the unit off, then turn it back on. The unit should now operate with the updated software installed.

SPECIFICATIONS

Control Features:

- Power / data supply for ADJ Lighting Pixie Strip 30, Pixie Strip 60, and Pixie Strip 120
- Manual RGB mode
- Internal programs
- Manual Dimming and Strobe Control
- Full Pixel Mapping Control
- 2,040 Pixels via Kling-Net
- 340 Pixels via Art-Net and sACN (streaming ACN)
- OLED screen with 4-button menu
- USB port for Firmware Updates

Control Quantity:

- KlingNet: 34 Pixie Strip 30; 17 Pixie Strip 60; 8 Pixie Strip 120
- ArtNet: 170 pixels max each port

- sACN: 170 pixels max each port

Connections:

- Power: PowerLock Input
- Two KlingNet / Artnet ethernet ports
- Two 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: 400W max
- -4°F to 113°F (-20°C to 45°C)

Dimensions / Weight:

- Dimensions (LxWxH): 18.9" x 7.11" x 2.91" / 480×180.8x74mm
- Weight: 5.6 lbs. / 2.5 kg.

What's Included:

- Twist-Lock power cable
- 19-inch rack mount ears
- 4-pin data cable

Approvals:

- CE | cETLus

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

DIMENSIONS

Dimensions may not be drawn to scale.
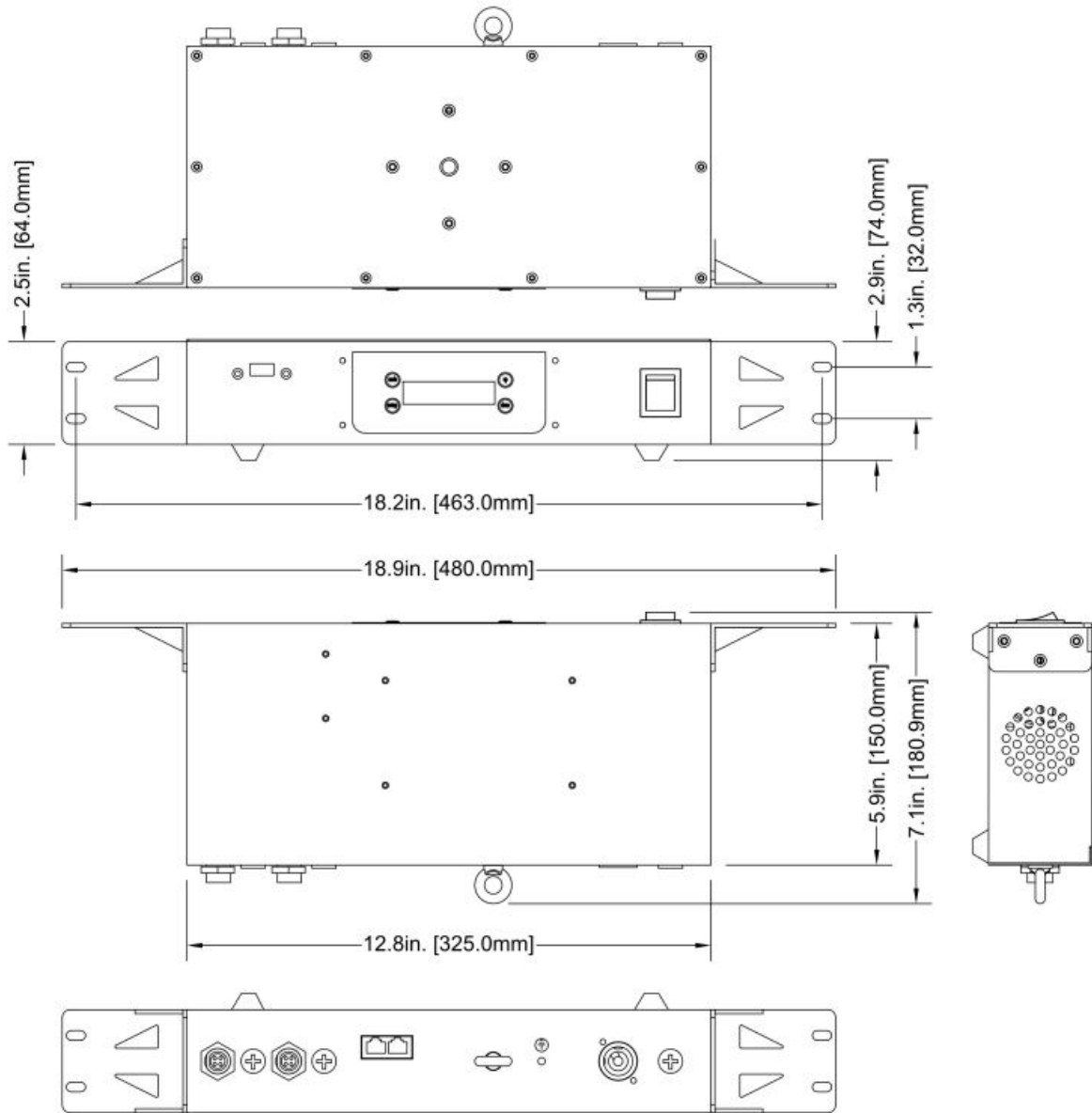
ACCESSORIES

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
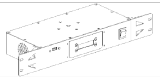
ADJ 2000 V2 PIXIE DRIVER [pdf] User Manual
2000 V2 PIXIE DRIVER, 2000 V2, PIXIE DRIVER

References

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