ADJ

STARBAR WASH

User Instructions

Startec
SERIES
by ADJ

FCC STATEMENT
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RADIO FREQUENCY INTERFERENCE WARNINGS & INSTRUCTIONS
This product has been tested and found to comply with the limits as per Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This device uses and can radiate radio frequency energy and, if not installed and used in accordance with the included instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following methods:

- **Reorient or relocate the device.**
- **Increase the separation between the device and the receiver.**
- **Connect the device to an electrical outlet on a circuit different from which the radio receiver is connected.**
- **Consult the dealer or an experienced radio/TV technician for help.**

DOCUMENT VERSION

Due to additional product features and/or enhancements, an updated version of this document may be available online.
Please check www.adj.com for the latest revision/update of this manual before beginning installation and/or programming.

Date	Document Version	DMX Channel Modes	Notes
05/30/19	1	4/5/6/17/19	Initial Release

Europe Energy Saving Notice
Energy Saving Matters (EuP 2009/125/EC)
Saving electric energy is a key to help protecting the enviroment. 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!

Unpacking: Thank you for purchasing the Starbar Wash by ADJ Products, LLC. Every Starbar Wash 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 Starbar Wash is a DMX intelligent, LED wash lighting par system. This system has five operating modes: Sound Active mode, Auto Run mode, RGBW dimmer mode, Static Color mode, and DMX control mode. The Starbar Wash has 5 DMX channel modes; 4/5/6/17/19.

These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

Customer Support: Contact ADJ Service for any product related service and support needs. Also visit **forums.adj.com** with questions, comments or suggestions.

Parts: To purchase parts online visit **http://parts.americandj.com**

ADJ SERVICE USA - Monday - Friday 8:00am to 4:30pm PST
Voice: 800-322-6337 | Fax: 323-832-2941 | support@adj.com

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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.

- Multi-Colors
- Five Operating Modes
- Electronic Dimming 0-100%
- DMX-512 protocol
- 3-Pin DMX Connection
- Five DMX Modes: 4/5/6/17/19
- UC IR & Airstream IR Compatiable (Not Included)
- Multiple Unit Power Linking (See page 28)

Included:
1 x Light Bar with 4 x LED Pars
1 x Tripod
1 x Foot Controller
2 x Brackets
1 x Carrying Bag
1 x Power Cable

Starbar Wash   **Warranty Registration**

The Starbar Wash carries a 1 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 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.

• 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 28 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 fixture.
   C. The fixture has been exposed to rain or water.
   D. The fixture does not appear to operate normally or exhibits a marked change in performance.
   E. The fixture has fallen and/or subjected to extreme handling.

The unit can be mounted using mounting clamps (not provided), affixing them to either the mounting brackets that are provided with the unit or the rigging points located at the top of the bar. 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. When hanging the unit by the rigging points or brackets, always use and install a safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails. 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.

OVERHEAD INSTALLATION

Bracket

Rigging Point
(M10 Bolt)

Rigging Point
(M10 Bolt)
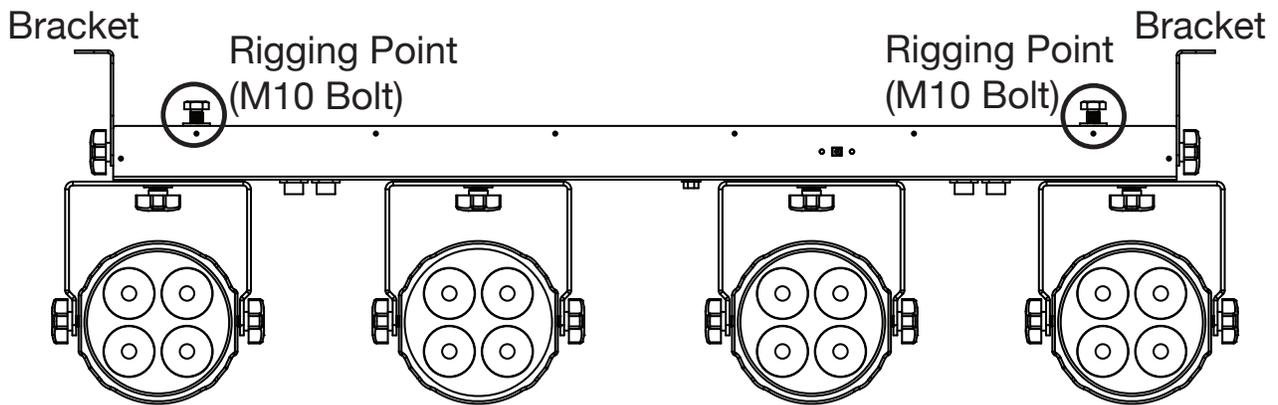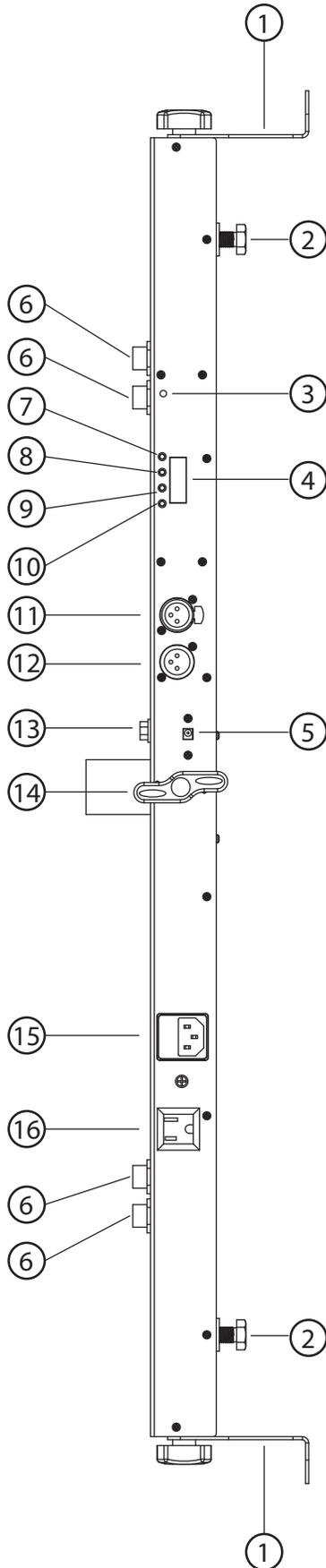
Bracket

1. 2 x Brackets

2. 2 x Rigging Points (M10 Bolts Included)

3. Microphone

4. LCD Display

5. IR Sensor

6. 4 x Par 6-Pin Connections

7. MENU Button

8. UP Button

9. DOWN Button

10. ENTER Button

11. 3-Pin DMX Out

12. 3-Pin DMX In

13. Foot Controller 3-Pin Connection

14. Light Bar Adjustment Knob

15. I.E.C. Power Input & Fuse Holder

16. Power Output (Edison Socket)
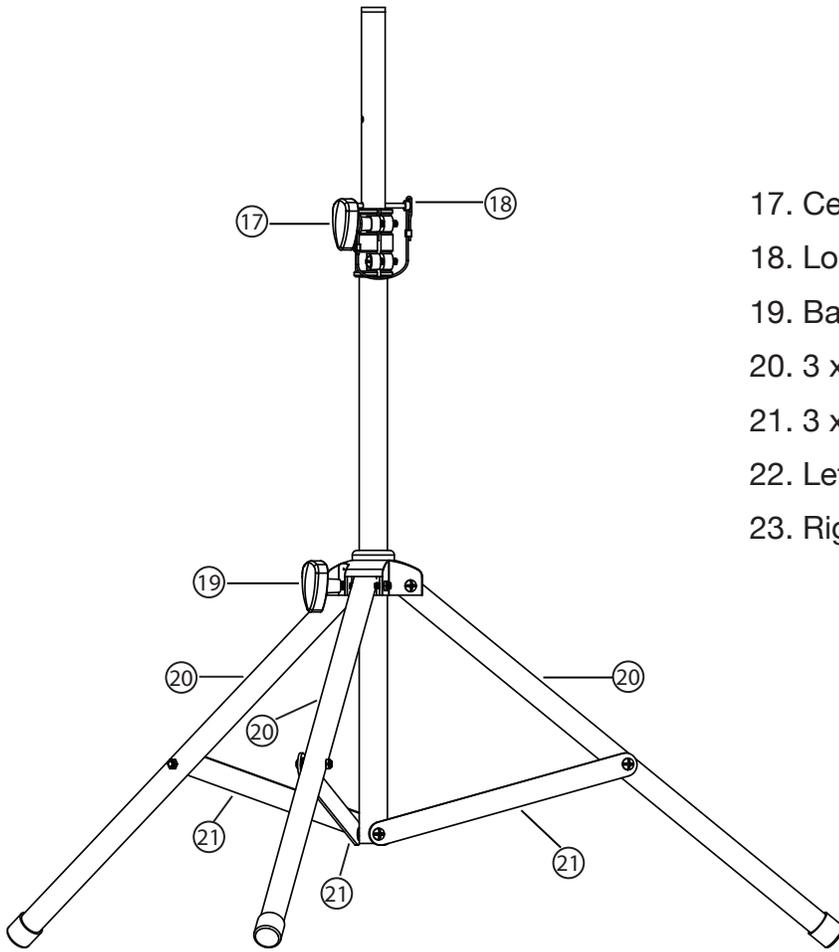
17. Center Adjustment Knob

18. Locking Pin

19. Base/Leg Adjustment Knob

20. 3 x Tripod Legs

21. 3 x Tripod Stays

22. Left Foot Pedal

23. Right Foot Pedal
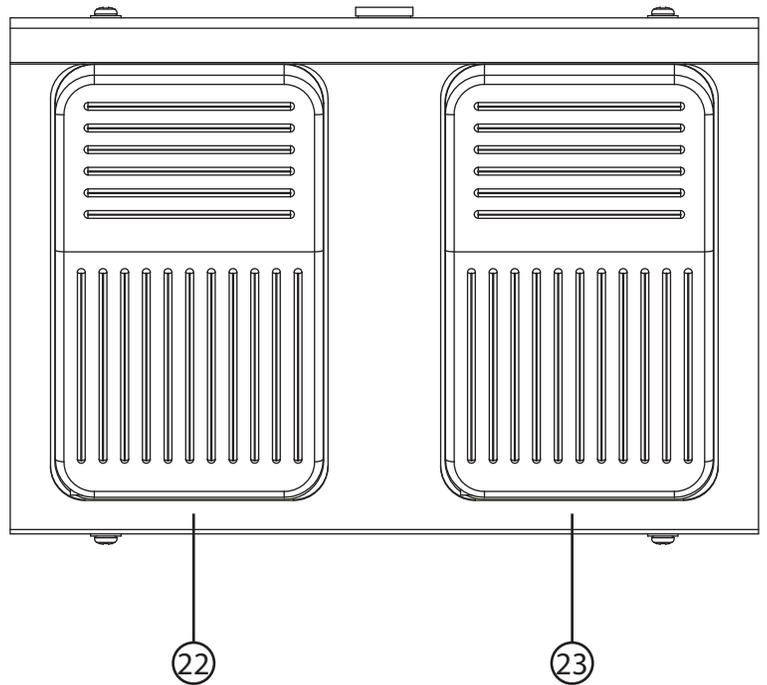
DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture 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 Starbar Wash can be controlled via DMX-512 protocol. The Starbar Wash has 5 DMX channel modes. The DMX address is set on the back panel of the Starbar Wash. 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

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.

COMMON

DMX512 OUT
3-PIN XLR

DMX +

DMX -

DMX512 IN
3-PIN XLR

Figure 2

XLR Male Socket

1 Ground

2 Cold

3 Hot

XLR Female Socket

2 Cold

1 Ground

3 Hot

Figure 3

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)
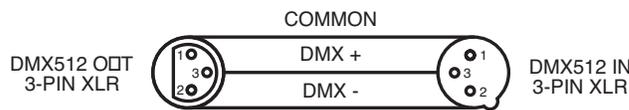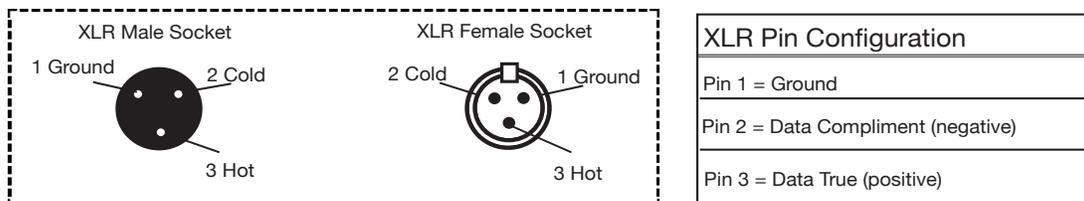
Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in 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.
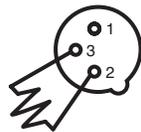
Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

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

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to "listen" to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way, in other words, changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will start to "listen" to the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

In the case of the Starbar Wash, when in 4 channel mode you should set the starting DMX address of the first unit to 1, the second unit to 5 (4 + 1), the third unit to 9 (5 + 4), and so on. (See chart below for more details.)

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
4 Channels	1	5	9	13
5 Channels	1	6	11	16
6 Channels	1	7	13	18
17 Channels	1	18	35	52
19 Channels	1	20	39	58

4 CH	5 CH	6 CH	17 CH	19 CH	VALUES	FUNCTIONS
1	1	1			000-255	**RED (ALL LEDS)** 0-100%
2	2	2			000-255	**GREEN (ALL LEDS)** 0-100%
3	3	3			000-255	**BLUE (ALL LEDS)** 0-100%
4	4	4			000-255	**WHITE (ALL LEDS)** 0-100%
			1	1	000-255	**RED (SPOT 1)** 0-100%
			2	2	000-255	**GREEN (SPOT 1)** 0-100%
			3	3	000-255	**BLUE (SPOT 1)** 0-100%
			4	4	000-255	**WHITE (SPOT 1)** 0-100%
			5	5	000-255	**RED (SPOT 2)** 0-100%
			6	6	000-255	**GREEN (SPOT 2)** 0-100%
			7	7	000-255	**BLUE (SPOT 2)** 0-100%
			8	8	000-255	**WHITE (SPOT 2)** 0-100%
			9	9	000-255	**RED (SPOT 3)** 0-100%
			10	10	000-255	**GREEN (SPOT 3)** 0-100%
			11	11	000-255	**BLUE (SPOT 3)** 0-100%
			12	12	000-255	**WHITE (SPOT 3)** 0-100%
			13	13	000-255	**RED (SPOT 4)** 0-100%
			14	14	000-255	**GREEN (SPOT 4)** 0-100%
			15	15	000-255	**BLUE (SPOT 4)** 0-100%
			16	16	000-255	**WHITE (SPOT 4)** 0-100%
	5	5		17	000-255	**MASTER DIMMER** 0-100%
		6				**FADE**
					000-010	No Function
					011-133	Fade In Slow - Fast
					134-255	Fade Out Slow - Fast
			17		000-255	**COLOR MACROS** Please see Color Macro Chart on pages 14-15

6 Channel Mode: Channel 6 is used with Channels 1-4.

4 CH	5 CH	6 CH	17 CH	19 CH	VALUES	FUNCTIONS
				18	000-009 010-109 110-209 210-255	**PROGRAMS** No Function 10 Color Change Programs 10 Color Fade Programs 5 Sound Active Programs
				19	000-009 010-109 110-209 210-255 000-255 000-010 011-255	**STROBING/COLOR CHANGE SPEED/** **FADE SPEED/SOUND SENSITIVITY** No Function Strobing Slow - Fast (Ch 1-16) Pulse Strobing Slow - Fast (Ch 1-16) Random Strobing Slow - Fast (Ch 1-16) Color Change/Fade Speed Slow - Fast Sound Sensitivity Off Adjust Sensitivity Least - Most Sensitive

19 Channel Mode:

When Channels 1-16 are being used, Channel 19 will control Strobing.

When Channel 18 is being used between the values of 10-209, Channel 19 will control the speed of the color change and color fade programs.

When Channel 18 is being used between the values of 210-255, Channel 19 will control the sound sensitivity.

Color No.	DMX VAULE	RGBW COLOR INTENSITY			
		RED	GREEN	BLUE	WHITE
OFF	0	0	0	0	0
Color1	1-4	80	255	234	80
Color2	5-8	80	255	164	80
Color3	9-12	77	255	112	77
Color4	13-16	117	255	83	83
Color5	17-20	160	255	77	77
Color6	21-24	223	255	83	83
Color7	25-28	255	243	77	77
Color8	29-32	255	200	74	74
Color9	33-36	255	166	77	77
Color10	37-40	255	125	74	74
Color11	41-44	255	97	77	74
Color12	45-48	255	71	77	71
Color13	49-52	255	83	134	83
Color14	53-56	255	93	182	93
Color15	57-60	255	96	236	96
Color16	61-64	238	93	255	93
Color17	65-68	196	87	255	87
Color18	69-72	150	90	255	90
Color19	73-76	100	77	255	77
Color20	77-80	77	100	255	77
Color21	81-84	67	148	255	67
Color22	85-88	77	195	255	77
Color23	89-92	77	234	255	77
Color24	93-96	158	255	144	144
Color25	97-100	255	251	153	153
Color26	101-104	255	175	147	147
Color27	105-108	255	138	186	138
Color28	109-112	255	147	251	147
Color29	113-116	151	138	255	138
Color30	117-120	99	0	255	100
Color31	121-124	138	169	255	138
Color32	125-128	255	255	255	255

Color No.	DMX VAULE	RGBW COLOR INTENSITY			
		RED	GREEN	BLUE	WHITE
Color33	129-132	255	206	143	0
Color34	133-136	254	177	153	0
Color35	137-140	254	192	138	0
Color36	141-144	254	165	98	0
Color37	145-148	254	121	0	0
Color38	149-152	176	17	0	0
Color39	153-156	96	0	11	0
Color40	157-160	234	139	171	0
Color41	161-164	224	5	97	0
Color42	165-168	175	77	173	0
Color43	169-172	119	130	199	0
Color44	173-176	147	164	212	0
Color45	177-180	88	2	163	0
Color46	181-184	0	38	86	0
Color47	185-188	0	142	208	0
Color48	189-192	52	148	209	0
Color49	193-196	1	134	201	0
Color50	197-200	0	145	212	0
Color51	201-204	0	121	192	0
Color52	205-208	0	129	184	0
Color53	209-212	0	83	115	0
Color54	213-216	0	97	166	0
Color55	217-220	1	100	167	0
Color56	221-224	0	40	86	0
Color57	225-228	209	219	182	0
Color58	229-232	42	165	85	0
Color59	233-236	0	46	35	0
Color60	237-240	8	107	222	0
Color61	241-244	255	0	0	0
Color62	245-248	0	255	0	0
Color63	249-252	0	0	255	0
Color64	253-255	0	0	0	255

MENU	OPTIONS	DESCRIPTION
1XXX	1001-1512	4 Channel Mode & DMX Addressing
2XXX	2001-2512	5 Channel Mode & DMX Addressing
3XXX	3001-3512	6 Channel Mode & DMX Addressing
4XXX	4001-4512	17 Channel Mode & DMX Addressing
5XXX	5001-5512	19 Channel Mode & DMX Addressing
CLXX	CL01-CL64	Color Macro Mode
S.S.XX	S.S.00-S.S.16 (00 = Off, 01-16 = Slow-Fast)	Color Macro Strobing
CPXX	CP01-CP10	Color Change Programs
FPXX	FP01-FP10	Color Fade Programs
PS.XX	PS.00-PS.16 (Slow-Fast)	Program Speed
SoXX	So01-So05	Sound Active Mode
SnXX	Sn01-Sn08 (Least-Most Sensitive)	Sound Sensitivity
rXXX	r000-r255	Red Dimming
GXXX	G000-G255	Green Dimming
bXXX	b000-b255	Blue Dimming
UXXX	U000-U255	White Dimming
S.FXX	S.F00-S.F16 (00 = Off, 01-16 = Slow-Fast)	RGBW Strobing
lrXX	IroN / IroF	Remote Activation
dXX	doN / doFF	Display Blackout

Operating Modes:
The Starbar Wash has six operating modes:
• DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller.
• RGBW Dimmer Mode - Choose one of the four colors to remain static or adjust the intensity of each color to make your own color.
• Sound Active mode - The unit will react to sound, chasing through the built in programs. The sound sensitivity is adjustable
• Color Change Mode - There are 10 built-in color change programs to choose from. The color change speed is adjustable.
• Color Fade Mode - There are 10 built-in color fade programs to choose from. The color fade speed is adjustable.
• Color Macro Mode - There are 64 colors to choose from.

DMX Mode:
Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs. The Starbar Wash has 5 DMX modes: 4 Channel mode, 5 Channel mode, 6 Channel mode, 17 Channel mode, and a 19 Channel mode. See pages 12-13 for the DMX values and traits.
1. This function will allow you to control each individual fixture's traits with a standard DMX 512 controller.
2. To run your fixture in DMX mode press the MENU button until "XXXX" is displayed. "XXXX" represents the current displayed DMX channel mode and address. Use the MENU button to find your desired DMX channel modem and use the UP or DOWN buttons to find your desired DMX address.
3. The Channel modes are listed below:
 • To run the 4 Channel Mode, press the MODE button until "1XXX" is displayed. This is the 4 channel DMX mode and address setting.
 • To run the 5 Channel Mode, press the MODE button until "2XXX" is displayed. This is the 5 channel DMX mode and address setting.
 • To run the 6 Channel Mode, press the MODE button until "3XXX" is displayed. This is the 6 channel DMX mode and address setting.
 • To run the 17 Channel Mode, press the MODE button until "4XXX" is displayed. This is the 17 channel DMX mode and address setting.
 • To run the 19 Channel Mode, press the MODE button until "5XXX" is displayed. This is the 19 channel DMX mode and address setting.
4. Please see pages 12-13 for the DMX values and traits.
5. After you have chosen your desired DMX Channel mode and address plug in the fixture via the XLR connections to any standard DMX controller.

Color Macro Mode:
In this mode you can choose 1 of 64 colors for output. Adjustable strobing is available for this mode.
1. Plug the fixture in and press the MENU button until "CLXX" is displayed. "XX" is the color number currently displayed.
2. There are 64 colors to choose from. Use the UP and DOWN buttons to find your desired color.
3. Press the MENU button again to access the strobe setting. "S.S.XX" will now be displayed. "XX" represents the current strobe setting.
4. Use the UP and DOWN buttons to adjust the strobe rate between "00" (off) to "16" (fast strobing).

Color Change Mode and Color Fade Mode:
In this mode you can choose 1 of 10 color change programs or 1 of 10 color fade programs to run. The running speed of both programs are adjustable.

1. Plug the fixture in and press the MENU button until "CPXX" is displayed. "CP" is color change mode and "XX" is the color change program number that is currently displayed.
2. Use the UP of DOWN button to find your desired color change program.
3. Press the MENU button again, and "FPXX" will be displayed. "FP" is color fade mode and "XX" is the color fade program number that is currently displayed.
4. Use the UP of DOWN button to find your desired color fade program.
5. Press the MENU button again to access the program speed setting. "PS.XX" will now be displayed. "XX" represents the current speed setting.
6. Use the UP and DOWN buttons to adjust the speed setting between "00" (slowest) to "16" (fastest). The speed setting will be the same for both color change and color fade programs.

Sound Active Mode:
In this mode the Starbar Wash will react to sound, and chase through the different colors. There are 5 sound active modes to choose from with adjustable sound sensitivity.

1. Plug the fixture in and press the MENU button until "SoXX" is displayed. "XX" represents the current sound active mode. Use the UP and DOWN buttons to find your desired sound active mode.
2. Press the MENU button again to access the sound sensitivity adjustment setting. "SnXX" will now be displayed. "XX" represents the current sound sensitivity level.
3. Use the UP and DOWN buttons to adjust the sound sensitivity level between "01" (least sensitive) to "08" (most sensitive).

RGBW Dimmer Mode:
In this mode you can adjust the individual colors to make your desired color. Adjustable strobing is available for this mode.

1. Plug the fixture in and press the MENU button until:
2. "rXXX" is displayed you are in Red dimming mode. Use the UP and DOWN buttons to adjust the intensity. After you have finished adjusting the intensity, or if you would like to skip to the next color, press the MENU button.
3. When "GXXX" is displayed you are in Green dimming mode. Use the UP and DOWN buttons to adjust the intensity.
4. When "bXXX" is displayed you are in Blue dimming mode. Use the UP and DOWN buttons to adjust the intensity.
5. When "UXXX" is displayed you are in White dimming mode. Use the UP and DOWN buttons to adjust the intensity.
6. Press the MENU button again to access the strobe setting. "S.FXX" will now be displayed. "XX" represents the current strobe setting.
7. Use the UP and DOWN buttons to adjust the strobe rate between "00" (off) to "16" (fast strobing).

Activate IR Control:

This function is used to activate and deactivate the IR remote control sensor. When this function is activated you can control the fixture using the ADJ UC IR remote or Airstream IR app. Please see page 21 for remote controls and functions.

1. Plug the fixture in and press the MENU button until "IrXX" is displayed. "XX" represents either "on" or "oFF".
2. Press the UP or DOWN buttons to either activate the remote sensor (On) or deactivate it (Off).

Display On/Off:

This function is used to control the display status. The display can be set to stay on at all times or turn off after 10 seconds.

1. Plug the fixture in and press the MENU button until "dXX" is displayed. "XX" represents either "on" or "oFF".
2. Press the UP or DOWN buttons to toggle between the display being "On" at all times or turn "Off" after 10 seconds.

Master-Slave Configuration:

This function will allows you to link units together to run in a Master-Slave set up. In a Master-Slave set up one unit will act as the controlling unit and the others will react to the controlling units operating mode. 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 ouput. 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. Set the "Master" unit to your desired mode of operation.
3. Connect the first "Slave" unit to the "Master."
4. Set the Slave unit(s) to any DMX setting. The "Slave" unit(s) will now follow the "Master".

The included Starbar Wash foot controller comes with basic controls and is very easy to use. Connect the foot controller to the light bar using the foot controller 3-Pin cable.
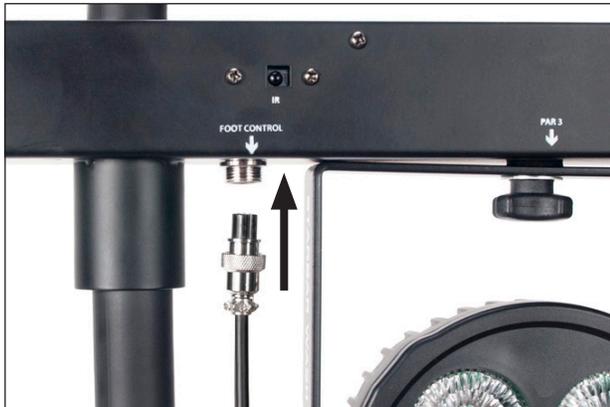
PEDAL	CONTROL	FUNCTION
LEFT	1st Press	White
	2nd Press	Red
	3rd Press	Green
	4th Press	Blue
	5th Press	Yellow
	6th Press	Magenta
	7th Press	Cyan
	8th Press	Color Change in a continuous loop
	9th Press	Color Fade in a continuous loop

PEDAL	CONTROL	FUNCTION
RIGHT	Press Once*	Blackout
	Press & Hold for 2 Seconds**	3 Second Fade Out, 3 Second Fade In
BOTH	Press Both Simultaneously	Activate/Deactivate Sound Active Mode
	Press & Hold Both Simultaneously	Activate/Deactivate Strobing

*Press once to activate the Blackout function. Press the pedal again to return to previous running mode.
**Current running mode will fade to blackout. Press and hold again to fade back in to previous running mode. Press the pedal once to automatically return to previous running mode.

The **ADJ UC IR** (not included) infrared remote gives you control of various functions (See below). To control the Starbar Wash you must aim the remote at the front or rear of the fixture bar and be no more than 30 feet away. To use the ADJ UC IR you must first activate the fixtures infrared sensor. To activate the sensor please see the instructions on page 19.

The **ADJ Airstream IR** remote transmitter (not included) plugs into the headphone jack of your iOS phone or tablet. To control your fixture, raise the volume to the maximum level on your iOS phone or tablet, aim the transmitter at the fixture sensor, and be no more than 15 feet away. The Airstream app is a free download from the app store for your iOS phone or tablet. The app comes with 3 pages of control depending on the fixture you are using. Please see below for IR functions including the corresponding app page.

		Stand by
Full ON	Fade/Gobo	
Strobe	Color	
1	2	3
4	5	6
7	8	9
Sound On	Show 0	Sound Off
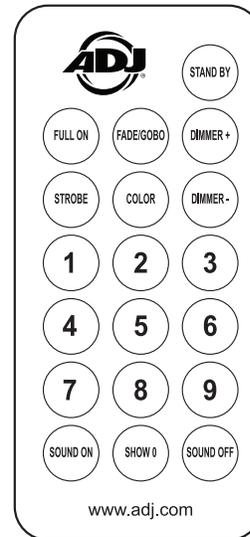
Works with App page 1

STAND BY
Press this button to activate and deactivate remote control functionality.

FULL ON
Press this button to activate "full on". Press any button to return to normal output/function.

FADE/GOBO
Press this button to activate and deactivate fade mode. Use the number buttons 1-9 to adjust the speed.

DIMMER "+" and DIMMER "-"
Press these buttons to adjust the output intensity.

STROBE
Press this button to activate strobing. Press the button again to stop strobing. Use the number buttons 1-9 to adjust the strobe speed. "1" being the slowest, and "9" being the fastest.

COLOR
Press this button activate static color mode. Use the number buttons 1-9 to find your desired color.

1-9
These number buttons are used for fade speed, strobe speed, color selection, and show selection.

SOUND ON & OFF
These buttons activate and deactivate sound active mode.

SHOW 0
Press this button activate show mode. Use the number buttons 1-9 to find your desired show.

FRONT VIEW

PAR 1   **PAR 2**   **PAR 3**   **PAR 4**

REAR VIEW

PAR 4   **PAR 3**   **PAR 2**   **PAR 1**
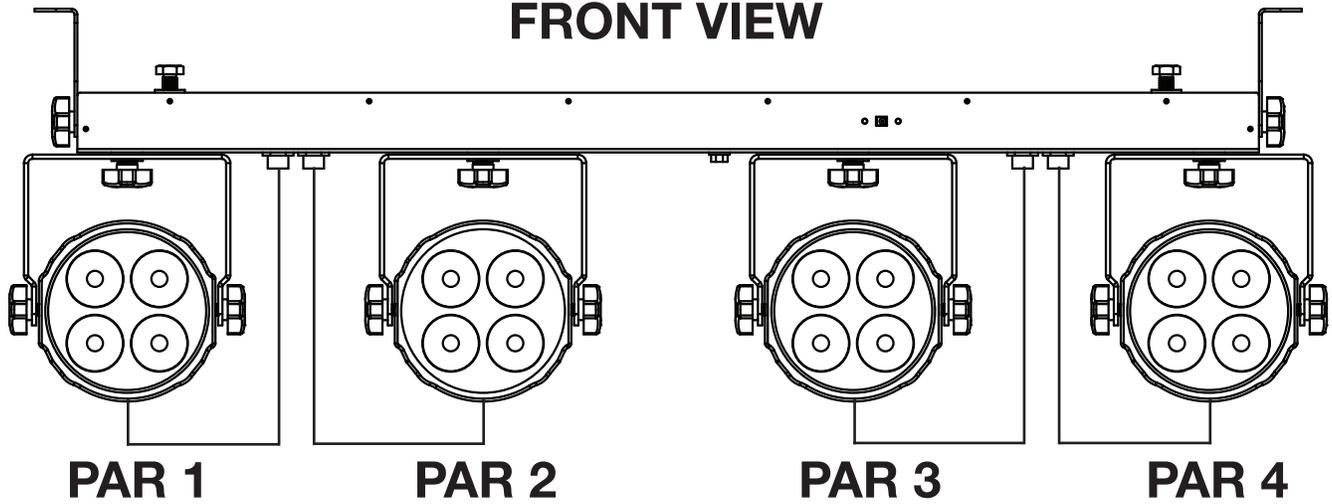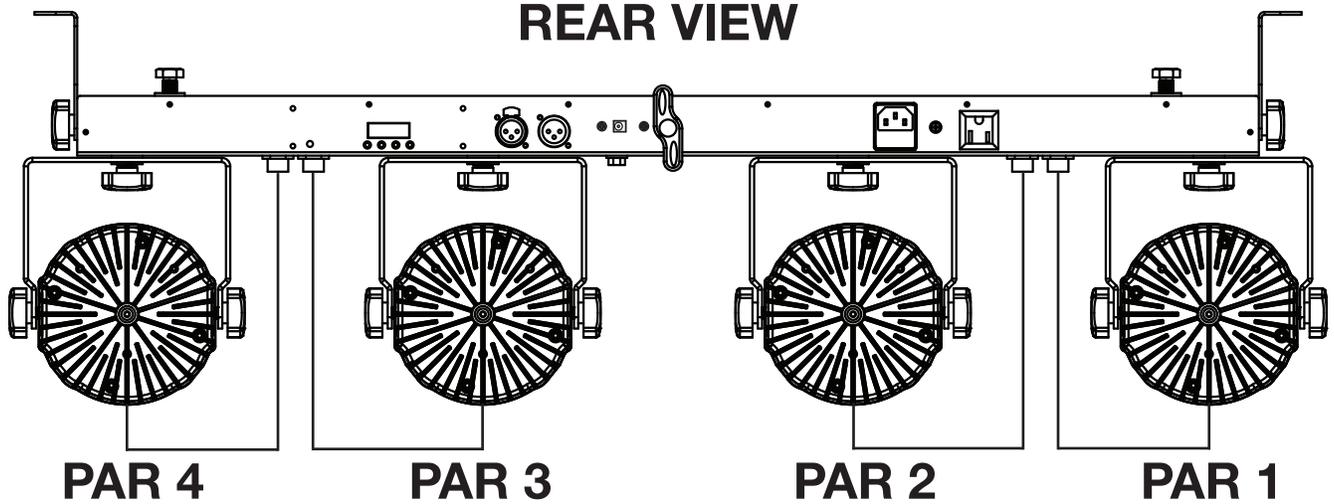
Installation:

The Starbar Wash can be installed using the supplied tripod (light stand), using the supplied brackets, or hung from a fixture using clamps (optional).

Stand:

1. Set the tripod on an even and stable surface. Extend the legs until the stays are horizontal and secure the base by turning the knob at the base clockwise. ***Note: For safety, please use sandbags to secure the tripod legs to prevent accidental tip overs.***
2. Raise the center section to the desired height and insert safety pin. Tighten adjustment knob to secure the center section.
3. Install the tripod adjustment knob on the Starbar Wash (between the two spring loaded screws) *(see Figure 1)*. **DO NOT** tighten at this time.
4. Place the Starbar Wash onto the top section of the tripod with the tripod going through the tripod mount at the center of the Starbar Wash *(see Figure 2)*.
5. Tighten the adjustment knob by turning clockwise. Tighten until the top section is secure *(see Figure 3)*. Be careful not to over tighten.
6. Raise the top section of the tripod to the final desired height and insert safety pin. Tighten adjustment knob to secure the top section.


Figure 1

Figure 2

Figure 3

End Brackets:

The Starbar Wash can be installed onto a ceiling or fixture using brackets and optional clamps.

1. Install the mounting bracket by lining up the holes on the bracket with the threaded hole on the end of the Starbar Wash *(see Figure 4)*.
2. With a washer between the bracket and adjustment knob, install the adjustment knob *(see Figure 5)*. Tighten the adjustment knob by turning clockwise.
3. Repeat steps 1 and 2 for the other side.

Figure 4

Figure 5

4.45" / 113mm

4" / 101mm

3.75" / 95.2mm

3.13" / 79.5mm

35" / 890mm

32.5" / 830mm

34" / 860mm

1.37" / 35mm

1.65" / 42mm

Minimum Height: 45.25"/ 1150mm

40"/ 1000mm

Maximum Height: 73.6"/ 1870mm

STOP

1.0" / 23mm

6.9" / 175mm

6.5" / 166mm

1.6" / 40mm

5.7" / 145mm

4.3" / 109mm

5" / 127.5mm

4.9" / 124mm

1.3" / 33mm

6.8" / 172.5mm

4.68" / 119mm

2.5" / 61.8mm   2.5" / 61.8mm

1.65" / 42mm
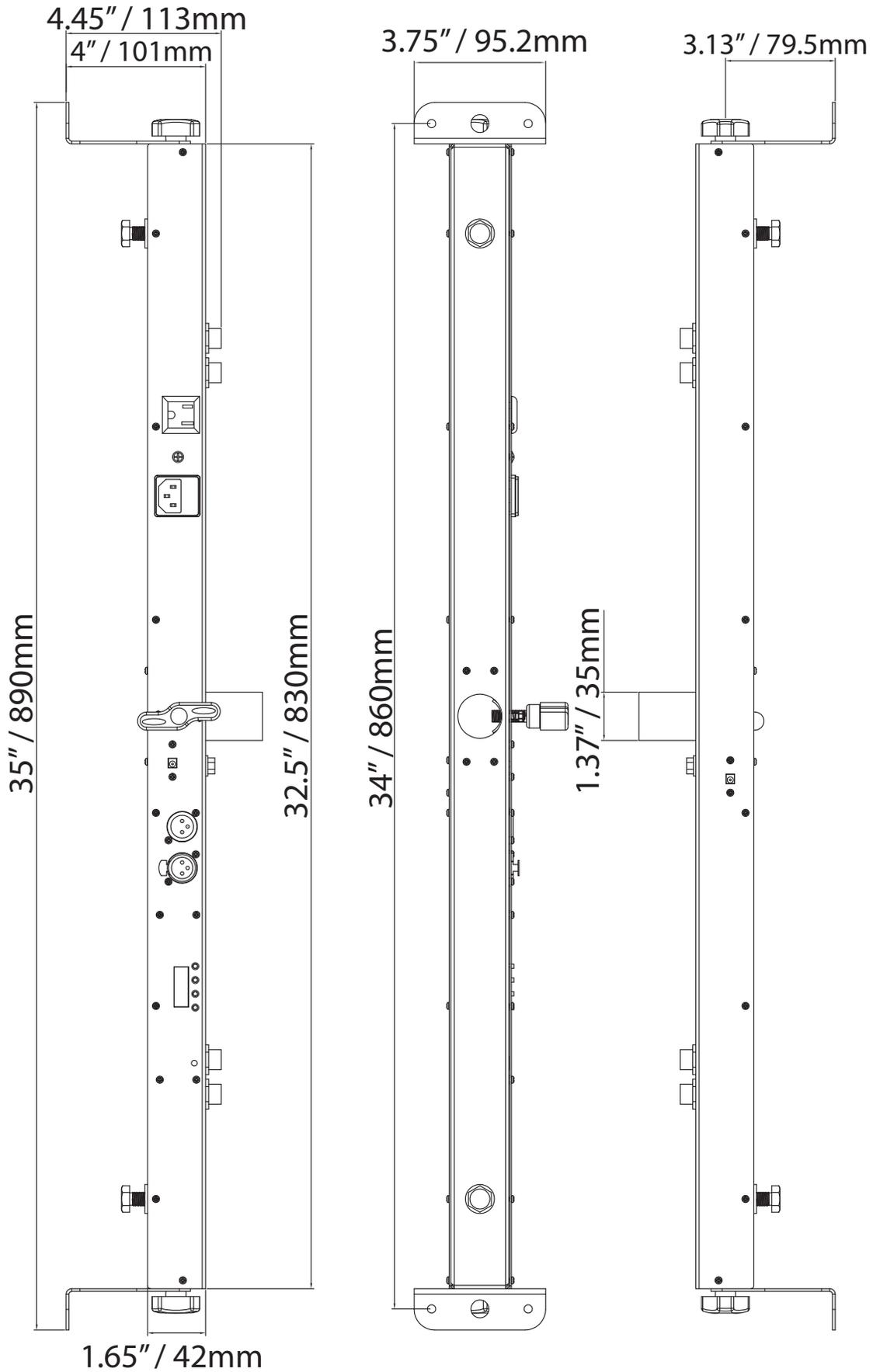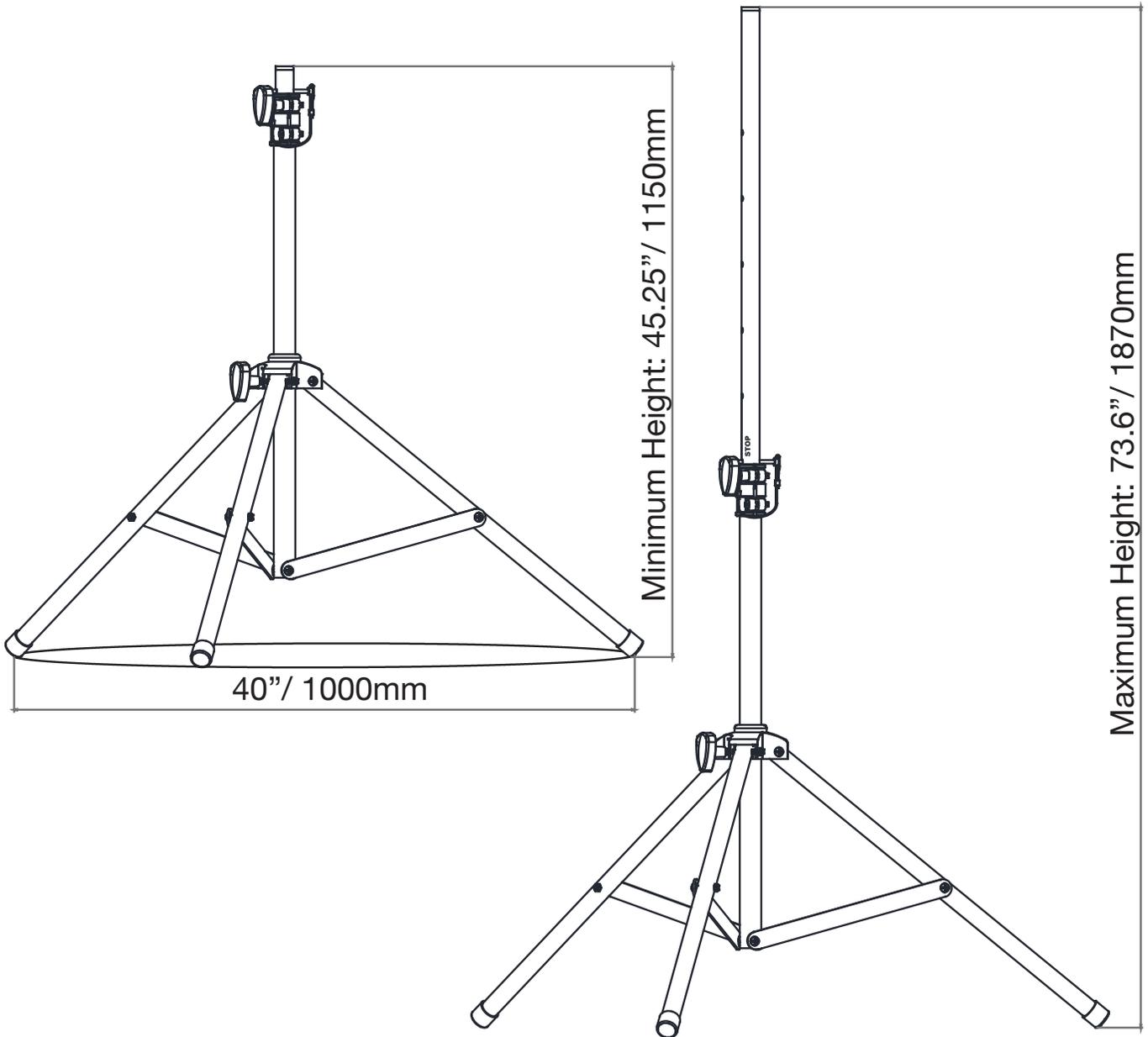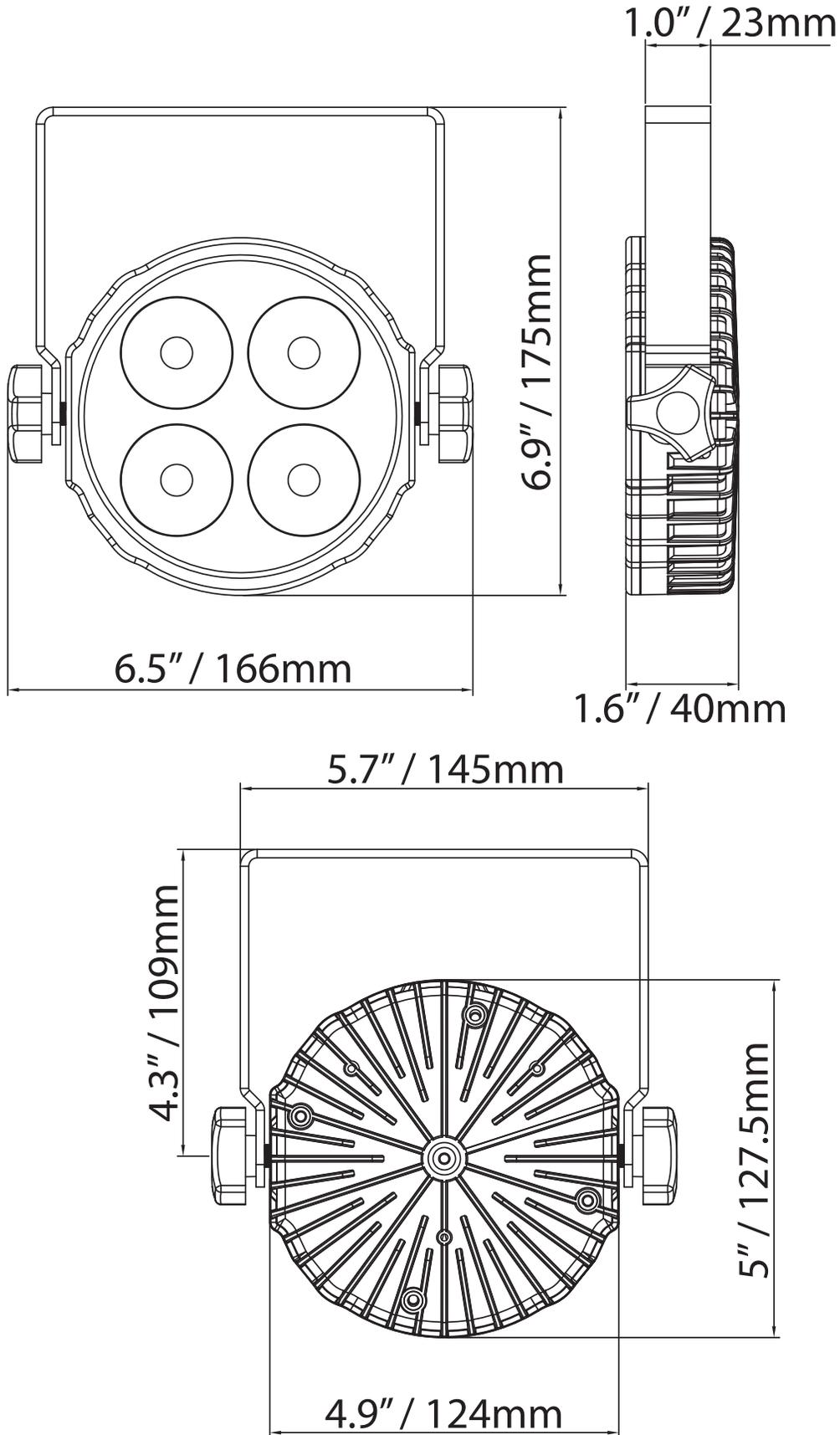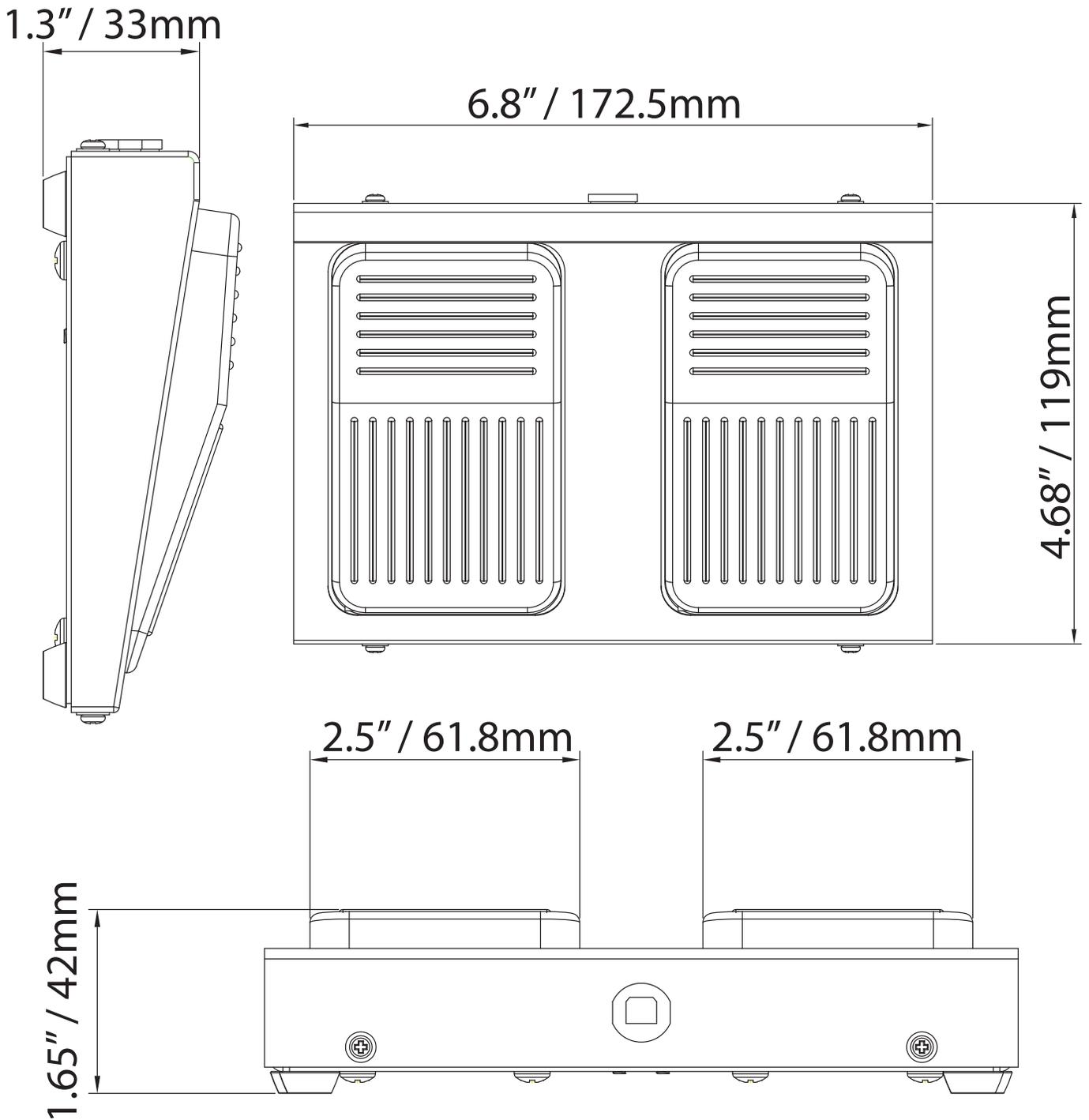
Starbar Wash — Multiple Unit Power Linking

With this feature you can connect the fixtures to one another using the power cable input and output sockets.

NOTE: USE CAUTION WHEN POWER LINKING OTHER FIXTURES AS THE POWER CONSUMPTION OF OTHER MODEL FIXTURES MAY EXCEED THE MAX POWER OUTPUT ON THIS FIXTURE! CHECK SILK SCREEN FOR MAX AMPS.

Starbar Wash — 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.

Starbar Wash — 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).

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 it's 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 maintnance, 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.

MANUFACTURER'S 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** (excluding laser diodes which have a 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**

Model: Starbar Wash

Voltage:	100V ~ 240V/50~60Hz
LEDs:	12 x 12W 6-in-1 HEX LED's
Power Draw:	133W
Weight:	20 lbs. / 9 Kgs.
Unit With Stand:	17 lbs. / 7.7 Kgs.
Par:	1.2 lbs. / 0.5 Kgs
Foot Controller:	2 lbs. / 0.9 Kgs.
Bag:	1 lbs. / 0.4 Kgs.
Stand Max. Load:	55 lbs. / 25Kgs.
Dimensions:	37" (L) x 2" (W) x 11" (H)
	939.8 x 50.8 x 279.4mm
Stand Height w/o Bar:	45.25" / 1150m (Minimum Height)
	73.6" / 1870m (Maximum Height)
Open Leg Diameter:	40" / 1m
Par:	6.5" (L) x 1.6" (W) x 6.9" (H)
	166 x 40 x 175mm
Foot Controller:	6.8" (L) x 4.68" (W) x 1.65" (H)
	172.5 x 119 x 42mm
	32ft. (Cable Length)
Colors:	RGBW Color Mixing
DMX Channels:	5 DMX Modes: 4 Channel Mode, 5 Channel Mode, 6 Channel Mode, 17 Channel Mode, & 19 Channel Mode
Warranty:	1 Year (365 Days)
Approvals / Ratings:	CE Certified

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