SWITCH BLADE FLIP



blizzard

Blizzard Lighting, LLC
http://www.blizzardpro.com
Waukesha, WI USA
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1. GETTING STARTED

What's In The Box?

- 1x Switchblade™ Flip Moving Head
- 2x Omega Brackets
- 1x AC Power Cord
- This Lovely User Manual

Getting It Out Of The Box

Congratulations on purchasing the SwitchBlade™ Flip. Now that you've got your fixture, you should carefully unpack the box and check the contents to ensure that all parts are present and in good condition. If anything looks as if it has been damaged in transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Powering Up!

All fixtures must be powered directly off a switched circuit and **cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch**.

AC Voltage Compatibility - Confirm that the product's power requirements align with your local power supply before use. Refer to the product's label or the specifications chart provided with the product for details. The current rating listed represents the average current draw under normal conditions.

Warning! ***Verify the product's compatibility with your area's line voltage to avoid damage. Ensure that all connections are made to circuits that provide proper grounding (earthing).***

Getting A Hold Of Us

If something is wrong, please visit our website at www.blizzardpro.com/support and open a support ticket. We'll be happy to help, honest.

Disclaimer: The information contained in this document is subject to change without notice. Blizzard Lighting™ assumes no responsibility or liability for any errors or omissions that may appear in this user manual. We reserve the right to update the existing document or create a new one to correct any errors or omissions. You can download the latest version of this document from www.blizzardpro.com.

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Safety Instructions



Please read these instructions carefully. They include important information about the installation, usage and maintenance of this product.

• Please keep this User Guide for future use. If you sell the unit to someone else, be sure that they also receive this User Guide.

• ALWAYS make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.

• This product is intended for indoor use only.

• To prevent risk of fire or shock, do not expose fixture to rain or moisture.

• Make sure there are no flammable materials close to the unit while operating.

• The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.

• ALWAYS disconnect from the power source before servicing or replacing fuse and be sure to replace with same fuse size and type.

• ALWAYS secure fixture using a safety chain. NEVER carry the fixture by its head. Use its carrying handles.

• DO NOT operate at ambient temperatures higher than 104°F (40°C).

• In the event of a serious operating problem, stop using the unit immediately. NEVER try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

• NEVER connect the device to a dimmer pack.

• Make sure the power cord is never crimped or damaged.

• Never disconnect the power cord by pulling or tugging on the cord.

• Avoid direct eye exposure to the light source while it is on.

Caution! There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please open a support ticket at www.blizzardpro.com/support.

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2. MEET THE SWITCHBLADE™ FLIP

Main Features

- Dual faced hybrid beam/wash/pixel effect moving head
- 4x 60W RGBW 4-in-1 LEDs with 2.5° to 28° motorized zoom
- 9x 10W cool white LEDs with narrow 3.5° beams
- 108x 0.5W RGB 3-in-1 5050 SMD LEDs
- 96x 3W cool white SMD LEDs
- Pan: 540°, Tilt: 270° (8-16 bit resolution)
- Infinite pan and tilt
- Pixel mappable front/rear beams
- Eye-candy effects with speed and background control
- 0-30Hz linear strobe effects
- 5-button control panel menu with LCD display
- DMX channels: 20/34/93-channel modes
- Operating modes: DMX512, M/S, auto, sound active
- 5-pin DMX input/output
- PowerCON True1-compatible power input

DMX Quick Reference (20/34/93-Channel Modes)

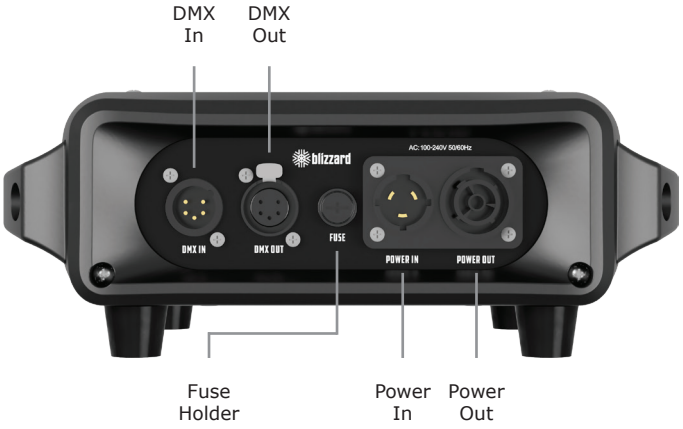
20CH	34CH	93CH	What It Does
1	1	1	Pan
2	2	2	Pan Fine
3	3	3	Pan Rotate (infinite)
4	4	4	Tilt
5	5	5	Tilt Fine
6	6	6	Tilt Rotate (infinite)
7	7	7	Pan & Tilt Speed (fast <-> slow)
8	8	8	Zoom (wide <-> narrow)
9	9	9	Dimmer (0% - 100%)
10	10	10	Group A - Strobe (slow <-> fast)
11-14	11-14	--	Group A - Red/Green/Blue/White
--	--	11-26	Group A - LEDs 1/2/3/4 (Red, Green, Blue, White)
--	15	27	Group A - Effects
--	16	28	Group A - Effect Speed
--	17	29	Group A - Background Color
--	18	30	Group A - Background Dimmer
--	19	31	Group B - Strobe (slow <-> fast)
15	20	--	Group B - Dimmer
--	--	32-40	Group B - LEDs 1-9 (White)
--	21	41	Group B - Effects
--	22	42	Group B - Effect Speed
--	23	43	Group C - R/G/B Strobe
16-18	24-26	--	Group C - R/G/B Intensity
--	--	44-70	Group C - R/G/B Intensity, Sets 1-9
--	27	71	Group C - Effects
--	28	72	Group C - Effect Speed
--	29	73	Group C - Background Color
--	30	74	Group C - Background Dimmer
19	31	--	Group D - Dimmer
--	--	75-90	Group D - LED Sets 1-16
--	32	91	Group D - Effects
--	33	92	Group D - Effect Speed
20	34	93	Reset (250-255)

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Figure 1: Switchblade™ Flip Pin-Up Picture



Figure 2: Rear Connections



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3. SETUP



Before replacing a fuse, disconnect the power cord.
ALWAYS replace with the same type and rating of fuse.

Fuse Replacement

Disconnect power and unplug the unit. Locate the fuse holder next to the rear power connections. Using a screwdriver, remove the fuse holder, replace the blown fuse with a new one, then reinstall the fuse holder.

Connecting A Bunch of Switchblade™ Flip Fixtures

You will need a serial data link to run light shows using a DMX-512 controller or to run shows on two or more fixtures set to sync in master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Fixtures on a serial data link must be daisy chained in a single line. Also, connecting more than 32 fixtures on one serial data link without the use of an optically-isolated DMX splitter may result in deterioration of DMX signal. The maximum recommended cable-run distance is 500 meters (1640 ft).

Data/DMX Cabling

To link fixtures together you'll need data cables. You should use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

For instance, Belden© 9841 meets the specifications for EIA RS-485 applications. Standard microphone cables will "probably" be OK, but note that they cannot transmit DMX data as reliably over long distances. In any event, the cable should have the following characteristics:

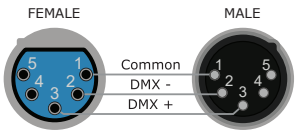
- *2-conductor twisted pair plus a shield*
- *Maximum capacitance between conductors – 30 pF/ft.*
- *Maximum capacitance between conductor & shield – 55 pF/ft.*
- *Maximum resistance of 20 ohms / 1000 ft.*
- *Nominal impedance 100 – 140 ohms*

Disclaimer: The power connectors fitted to the fixture and fixture cord are designed for compatibility with products manufactured by Neutrik AG, Neutrik USA and their related entities, however they are not manufactured by, affiliated with or endorsed by Neutrik AG, Neutrik USA, or any related entity. Neutrik® and powerCON® are registered trademarks of Neutrik AG.

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Cable Connectors

Cables must have a male XLR connector on one end and a female XLR connector on the other end. (Duh!)



A Word on Termination:

DMX is a resilient communication protocol, however errors still occasionally occur. Termination reduces signal errors, and therefore best practices include use of a terminator in all circumstances. If you are experiencing problems with erratic fixture behavior, especially over long signal cable runs, a terminator may help improve performance.

To build your own DMX Terminator:

Obtain a 120-ohm, 1/4-watt resistor, and wire it between pins 2 & 3 of the last fixture. They are also readily available from specialty retailers.

CAUTION: Do not allow contact between the common and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

3-Pin??? 5-Pin??? Huh?!?

If you use a controller with a 3-pin DMX output connector, you will need to use a 3-pin to 5-pin adapter. If you'd like to build your own, the chart below details a proper cable conversion:

Conductor	3-Pin Female (Output)	5-Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data 1- (Primary Data)	Pin 2	Pin 2
Data 1+ (Primary Data)	Pin 3	Pin 3
Data 2- (Optional)	--	Pin 4 - Do Not Use
Data 2+ (Optional)	--	Pin 5 - Do Not Use

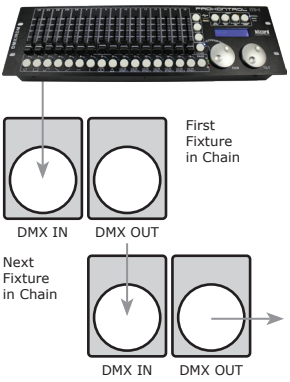
Take It To The Next Level: Setting Up DMX Control

Step 1: Connect the male connector of the DMX cable to the female connector (output) on the controller.

Step 2: Connect the female connector of the DMX cable to the first fixture's male connector (input).

Note: It doesn't matter which fixture address is the first one connected. We recommend connecting the fixtures in terms of their proximity to the controller, rather than connecting the lowest fixture number first, and so on.

Step 3: Connect other fixtures in the chain from output to input as above. Place a DMX terminator on the output of the final fixture to ensure best communication.



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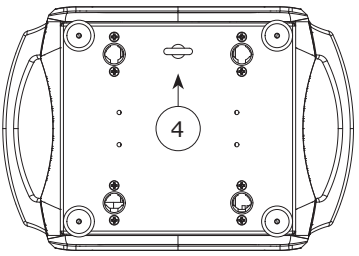
Fixture Linking (Master/Slave Mode)

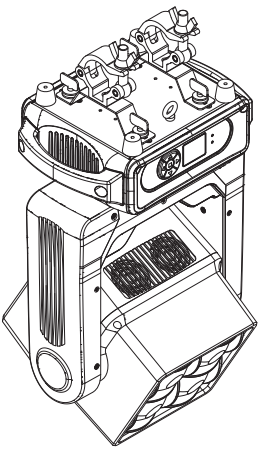
1. Connect the (male) 5-pin connector side of the DMX cable to the output (female) 5-pin connector of the first fixture.

2. Connect the end of the cable coming from the first fixture which will have a (female) 5-pin connector to the input connector of the next fixture consisting of a (male) 5-pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

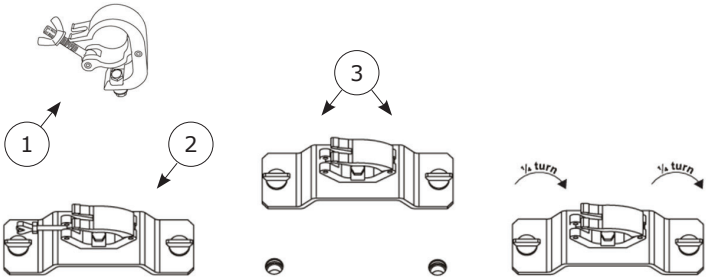
Clamp Mounting

This fixture provides a mounting bracket assembly that secures the bottom of the base, the "Omega Brackets," and the safety cable rigging point together. When mounting to truss, be sure to secure an appropriately rated clamp to the omega bracket.





1.) Clamp
2.) Omega Bracket
3.) ¼ Turn Quick Lock Fasteners
4.) Safety Loop



Securing the Fixture

Regardless of the rigging option you choose for your fixtures always be sure to secure your fixture with a safety cable. Be sure to use the designated rigging point found on the underside of the base assembly for the safety cable.

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4. OPERATING ADJUSTMENTS

The Control Panel

Use the front control panel on the SwitchBlade™ Flip to access all of its features. Its five buttons will allow you navigate the menu.

<LEFT>	Exits to the previous screen or cancels changes.
<RIGHT>	Selects a menu option or saves and exits.
<UP>	Scrolls up through menu options.
<DOWN>	Scrolls down through menu options.
<CENTER>	Selects a menu option or exits, saving changes.

Icons

System Setup

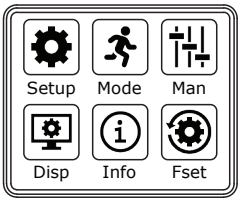
Display Settings

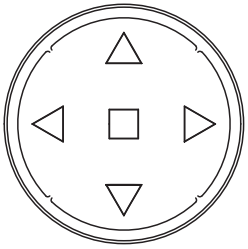
Run Mode

Information

Manual

Factory Settings





The control panel displays menu items from the map on page #11. Use **<UP>/<DOWN>** to navigate and **<CENTER>** to select or enable options. Press **<LEFT>** to go back without changing values.

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Control Panel Menu Structure

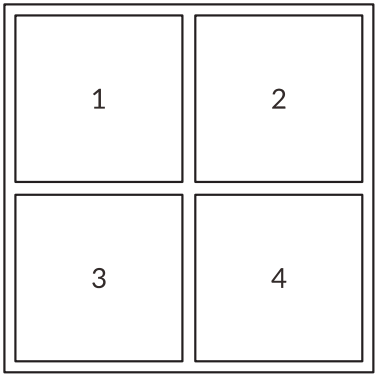
Setup	1. DMX Address	000-512	Set the starting DMX channel	
	2. Encoders	YES/NO	Pan/Tilt optical sensors off/on	
	3. Pan Reverse	YES/NO	Reverse pan direction	
	4. Tilt Reverse	YES/NO	Reverse tilt direction	
	5. Reset Defaults	YES/NO	Reset to all menu factory defaults	
	6. Advanced	**<ENTER>**	Factory use only (hidden)	
Mode	1. Run Mode	**<ENTER>**	DMX Mode	
		<ENTER>	Auto Mode	
		<ENTER>	Sound Active Mode	
	2. Channel	20CH	20-channel DMX mode	
		34CH	34-channel DMX mode	
		93CH	93-channel DMX mode	
	3. Lost DMX	1. Hold	Holds last signal if lost	
		2. Blackout	Blackout if signal is lost	
		3. Manual	As set in manual settings	
Man	**<ENTER>** *(34CH mode DMX values: 000-255)*	1. Pan	13. A - Blue	25. C - Green
		2. Pan Fine	14. A - White	26. C - Blue
		3. Pan Rotate	15. A - Effects	27. C - Effects
		4. Tilt	16. A - Speed	28. C - Speed
		5. Tilt Fine	17. A - BG Color	29. C - BG Color
		6. Tilt Rotate	18. A - BG Dim	30. C - BG Dim
		7. P/T Speed	19. B - Strobe	31. D - Dimmer
		8. Zoom	20. B - Dimmer	32. D - Effects
		9. Dimmer	21. B - Effects	33. D - Speed
		10. A - Strobe	22. B - Speed	34. Reset
		11. A - Red	23. C - Strobe	
		12. A - Green	24. C - Red	
Disp	1. Reverse	YES/NO	Rotate the display by 180°	
	2. Time Out	YES/NO	Display off after 1m, or always on	
Info	Code	---	Error codes	
	Time	---	Total usage time	
	Temperature	---	Current internal temperature	
	Version	---	Displays current firmware version	
Fset	Enter Password!	000-999	Factory use only	

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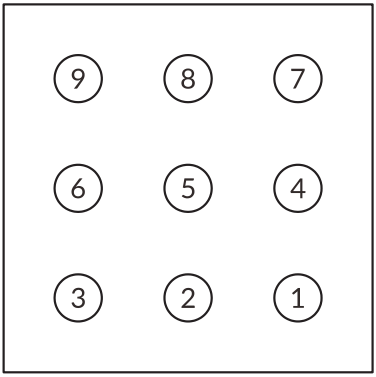
LED Pixel Groups

SwitchBlade™ Flip features a unique dual-faced design with four distinct pixel groups, each equipped with different types of LEDs.

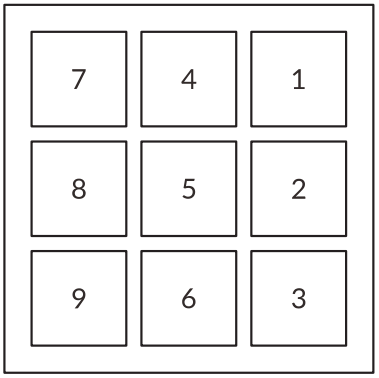
Group A
4x 60W RGBW 4-in-1 LEDs



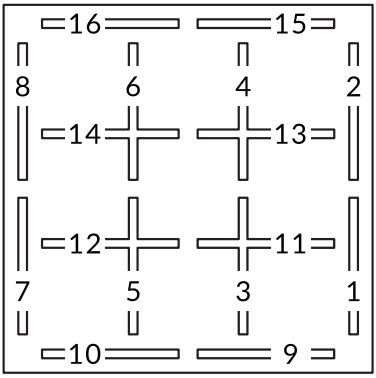
Group B
9x 10W Cool White LEDs



Group C
108x 3-in-1 RGB 5050 SMD LEDs



Group D
96x 3W Cool White SMD LEDs



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DMX Values In-Depth (20/34/93-Channel Modes)

20CH	34CH	93CH	Value	What It Does		
1	1	1	000 <-> 255	Pan		
2	2	2	000 <-> 255	Pan Fine		
3	3	3	000 <-> 255	Infinite Pan (001-128 CW, 129-255 CCW)		
4	4	4	000 <-> 255	Tilt		
5	5	5	000 <-> 255	Tilt Fine		
6	6	6	000 <-> 255	Infinite Tilt (001-128 CW, 129-255 CCW)		
7	7	7	000 <-> 255	Pan & Tilt Speed (fast <-> slow)		
8	8	8	000 <-> 255	Zoom (wide <-> narrow)		
9	9	9	000 <-> 255	Dimmer (0% - 100%)		
Group A: 4x 60W RGBW 4-in-1 LEDs						
10	10	10	000 <-> 255	Group A - Strobe (slow <-> fast)		
11	11	--	000 <-> 255	Group A - Red		
12	12	--	000 <-> 255	Group A - Green		
13	13	--	000 <-> 255	Group A - Blue		
14	14	--	000 <-> 255	Group A - White		
--	--	11-14	000 <-> 255	Group A - LED 1 (Red, Green, Blue, White)		
--	--	15-18	000 <-> 255	Group A - LED 2 (Red, Green, Blue, White)		
--	--	19-22	000 <-> 255	Group A - LED 3 (Red, Green, Blue, White)		
--	--	23-26	000 <-> 255	Group A - LED 4 (Red, Green, Blue, White)		
--	15	27	***Group A - Effects***			
			000 <-> 006	No Function		
			007 <-> 013	Effect 1	133 <-> 139	Effect 19
			014 <-> 020	Effect 2	140 <-> 146	Effect 20
			021 <-> 027	Effect 3	147 <-> 153	Effect 21
			028 <-> 034	Effect 4	154 <-> 160	Effect 22
			035 <-> 041	Effect 5	161 <-> 167	Effect 23
			042 <-> 048	Effect 6	168 <-> 174	Effect 24
			049 <-> 055	Effect 7	175 <-> 181	Effect 25
			056 <-> 062	Effect 8	182 <-> 188	Effect 26
			063 <-> 069	Effect 9	189 <-> 195	Effect 27
			070 <-> 076	Effect 10	196 <-> 202	Effect 28
			077 <-> 083	Effect 11	203 <-> 209	Effect 29
			084 <-> 090	Effect 12	210 <-> 216	Effect 30
			091 <-> 097	Effect 13	217 <-> 223	Effect 31
			098 <-> 104	Effect 14	224 <-> 230	Effect 32
			105 <-> 111	Effect 15	231 <-> 237	Effect 33
			112 <-> 118	Effect 16	238 <-> 244	Effect 34
			119 <-> 125	Effect 17	245 <-> 251	Effect 35
			126 <-> 132	Effect 18	252 <-> 255	Auto (1-35)
--	16	28	000 <-> 255	Group A - Effect Speed (slow <-> fast)		
--	17	29	000 <-> 255	Group A - Background Color		
--	18	30	000 <-> 255	Group A - Background Dimmer		
Group B: 9x 10W Cool White LEDs						
--	19	31	000 <-> 255	Group B - Strobe (slow <-> fast)		
15	20	--	000 <-> 255	Group B - Dimmer		
--	--	32	000 <-> 255	Group B - LED 1		
--	--	33	000 <-> 255	Group B - LED 2		
--	--	34	000 <-> 255	Group B - LED 3		
--	--	35	000 <-> 255	Group B - LED 4		
--	--	36	000 <-> 255	Group B - LED 5		
--	--	37	000 <-> 255	Group B - LED 6		

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DMX Values In-Depth (20/34/93-Channel Modes)

20CH	34CH	93CH	Value	What It Does		
--	--	38	000 <-> 255	Group B - LED 7		
--	--	39	000 <-> 255	Group B - LED 8		
--	--	40	000 <-> 255	Group B - LED 9		
--	21	41	***Group B - Effects***			
			000 <-> 008	No Function	126 <-> 134	Effect 14
			009 <-> 017	Effect 1	135 <-> 143	Effect 15
			018 <-> 026	Effect 2	144 <-> 152	Effect 16
			027 <-> 035	Effect 3	153 <-> 161	Effect 17
			036 <-> 044	Effect 4	162 <-> 170	Effect 18
			045 <-> 053	Effect 5	171 <-> 179	Effect 19
			054 <-> 062	Effect 6	180 <-> 188	Effect 20
			063 <-> 071	Effect 7	189 <-> 197	Effect 21
			072 <-> 080	Effect 8	198 <-> 206	Effect 22
			081 <-> 089	Effect 9	207 <-> 215	Effect 23
			090 <-> 098	Effect 10	216 <-> 224	Effect 24
			099 <-> 107	Effect 11	225 <-> 233	Effect 25
			108 <-> 116	Effect 12	234 <-> 242	Effect 26
			117 <-> 125	Effect 13	243 <-> 255	Auto (1-26)
--	22	42	000 <-> 255	Group B - Effect Speed (slow <-> fast)		
Group C: 108x 3-in-1 RGB 5050 SMD LEDs						
--	23	43	000 <-> 255	Group C - Strobe (slow <-> fast)		
16	24	--	000 <-> 255	Group C - Red		
17	25	--	000 <-> 255	Group C - Green		
18	26	--	000 <-> 255	Group C - Blue		
--	--	44-46	000 <-> 255	Group C - Set 1 (Red, Green, Blue)		
--	--	47-49	000 <-> 255	Group C - Set 2 (Red, Green, Blue)		
--	--	50-52	000 <-> 255	Group C - Set 3 (Red, Green, Blue)		
--	--	53-55	000 <-> 255	Group C - Set 4 (Red, Green, Blue)		
--	--	56-58	000 <-> 255	Group C - Set 5 (Red, Green, Blue)		
--	--	59-61	000 <-> 255	Group C - Set 6 (Red, Green, Blue)		
--	--	62-64	000 <-> 255	Group C - Set 7 (Red, Green, Blue)		
--	--	65-67	000 <-> 255	Group C - Set 8 (Red, Green, Blue)		
--	--	68-70	000 <-> 255	Group C - Set 9 (Red, Green, Blue)		
--	27	71	***Group C - Effects***			
			000 <-> 001	No Function	038 <-> 039	Effect 19
			002 <-> 003	Effect 1	040 <-> 041	Effect 20
			004 <-> 005	Effect 2	042 <-> 043	Effect 21
			006 <-> 007	Effect 3	044 <-> 045	Effect 22
			008 <-> 009	Effect 4	046 <-> 047	Effect 23
			010 <-> 011	Effect 5	048 <-> 049	Effect 24
			012 <-> 013	Effect 6	050 <-> 051	Effect 25
			014 <-> 015	Effect 7	052 <-> 053	Effect 26
			016 <-> 017	Effect 8	054 <-> 055	Effect 27
			018 <-> 019	Effect 9	056 <-> 057	Effect 28
			020 <-> 021	Effect 10	058 <-> 059	Effect 29
			022 <-> 023	Effect 11	060 <-> 061	Effect 30
			024 <-> 025	Effect 12	062 <-> 063	Effect 31
			026 <-> 027	Effect 13	064 <-> 065	Effect 32
			028 <-> 029	Effect 14	066 <-> 067	Effect 33
			030 <-> 031	Effect 15	068 <-> 069	Effect 34
			032 <-> 033	Effect 16	070 <-> 071	Effect 35
			034 <-> 035	Effect 17	072 <-> 073	Effect 36
			036 <-> 037	Effect 18	074 <-> 075	Effect 37

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DMX Values In-Depth (20/34/93-Channel Modes)

20CH	34CH	93CH	Value	What It Does		
--	--	--	***Group C - Effects*** *(continued)*			
			076 <-> 077	Effect 38	138 <-> 139	Effect 69
			078 <-> 079	Effect 39	140 <-> 141	Effect 70
			080 <-> 081	Effect 40	142 <-> 143	Effect 71
			082 <-> 083	Effect 41	144 <-> 145	Effect 72
			084 <-> 085	Effect 42	146 <-> 147	Effect 73
			086 <-> 087	Effect 43	148 <-> 149	Effect 74
			088 <-> 089	Effect 44	150 <-> 151	Effect 75
			090 <-> 091	Effect 45	152 <-> 153	Effect 76
			092 <-> 093	Effect 46	154 <-> 155	Effect 77
			094 <-> 095	Effect 47	156 <-> 157	Effect 78
			096 <-> 097	Effect 48	158 <-> 159	Effect 79
			098 <-> 099	Effect 49	160 <-> 161	Effect 80
			100 <-> 101	Effect 50	162 <-> 163	Effect 81
			102 <-> 103	Effect 51	164 <-> 165	Effect 82
			104 <-> 105	Effect 52	166 <-> 167	Effect 83
			106 <-> 107	Effect 53	168 <-> 169	Effect 84
			108 <-> 109	Effect 54	170 <-> 171	Effect 85
			110 <-> 111	Effect 55	172 <-> 173	Effect 86
			112 <-> 113	Effect 56	174 <-> 175	Effect 87
			114 <-> 115	Effect 57	176 <-> 177	Effect 88
			116 <-> 117	Effect 58	178 <-> 179	Effect 89
			118 <-> 119	Effect 59	180 <-> 181	Effect 90
			120 <-> 121	Effect 60	182 <-> 183	Effect 91
			122 <-> 123	Effect 61	184 <-> 185	Effect 92
			124 <-> 125	Effect 62	186 <-> 187	Effect 93
			126 <-> 127	Effect 63	188 <-> 189	Effect 94
			128 <-> 129	Effect 64	190 <-> 191	Effect 95
			130 <-> 131	Effect 65	192 <-> 193	Effect 96
			132 <-> 133	Effect 66	194 <-> 195	Effect 97
			134 <-> 135	Effect 67	196 <-> 197	Effect 98
			136 <-> 137	Effect 68	198 <-> 255	Auto (1-98)
--	28	72	000 <-> 255	Group C - Effect Speed (slow <-> fast)		
--	29	73	000 <-> 255	Group C - Background Color		
--	30	74	000 <-> 255	Group C - Background Dimmer		
Group D: 96x 3W Cool White SMD LEDs						
19	31	--	000 <-> 255	Group D - Dimmer		
--	--	75	000 <-> 255	Group D - Set 1		
--	--	76	000 <-> 255	Group D - Set 2		
--	--	77	000 <-> 255	Group D - Set 3		
--	--	78	000 <-> 255	Group D - Set 4		
--	--	79	000 <-> 255	Group D - Set 5		
--	--	80	000 <-> 255	Group D - Set 6		
--	--	81	000 <-> 255	Group D - Set 7		
--	--	82	000 <-> 255	Group D - Set 8		
--	--	83	000 <-> 255	Group D - Set 9		
--	--	84	000 <-> 255	Group D - Set 10		
--	--	85	000 <-> 255	Group D - Set 11		
--	--	86	000 <-> 255	Group D - Set 12		
--	--	87	000 <-> 255	Group D - Set 13		
--	--	88	000 <-> 255	Group D - Set 14		
--	--	89	000 <-> 255	Group D - Set 15		
--	--	90	000 <-> 255	Group D - Set 16		

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DMX Values In-Depth (20/34/93-Channel Modes)

20CH	34CH	93CH	Value	What It Does		
--	32	91	**Group D - Effects**			
			000 <-> 004	No Function	130 <-> 134	Effect 26
			005 <-> 009	Effect 1	135 <-> 139	Effect 27
			010 <-> 014	Effect 2	140 <-> 144	Effect 28
			015 <-> 019	Effect 3	145 <-> 149	Effect 29
			020 <-> 024	Effect 4	150 <-> 154	Effect 30
			025 <-> 029	Effect 5	155 <-> 159	Effect 31
			030 <-> 034	Effect 6	160 <-> 164	Effect 32
			035 <-> 039	Effect 7	165 <-> 169	Effect 33
			040 <-> 044	Effect 8	170 <-> 174	Effect 34
			045 <-> 049	Effect 9	175 <-> 179	Effect 35
			050 <-> 054	Effect 10	180 <-> 184	Effect 36
			055 <-> 059	Effect 11	185 <-> 189	Effect 37
			060 <-> 064	Effect 12	190 <-> 194	Effect 38
			065 <-> 069	Effect 13	195 <-> 199	Effect 39
			070 <-> 074	Effect 14	200 <-> 204	Effect 40
			075 <-> 079	Effect 15	205 <-> 209	Effect 41
			080 <-> 084	Effect 16	210 <-> 214	Effect 42
			085 <-> 089	Effect 17	215 <-> 219	Effect 43
			090 <-> 094	Effect 18	220 <-> 224	Effect 44
			095 <-> 099	Effect 19	225 <-> 229	Effect 45
			100 <-> 104	Effect 20	230 <-> 234	Effect 46
			105 <-> 109	Effect 21	235 <-> 239	Effect 47
			110 <-> 114	Effect 22	240 <-> 244	Effect 48
			115 <-> 119	Effect 23	245 <-> 249	Effect 49
			120 <-> 124	Effect 24	250 <-> 254	Effect 50
			125 <-> 129	Effect 25	255	Auto (1-50)
--	33	92	000 <-> 255	Group D - Effect Speed (slow <-> fast)		
20	34	93		**Reset**		
			000 <-> 249	No Function		
			250 <-> 255	Reset		

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5. APPENDIX

Keeping Your Switchblade™ Flip As Good As New

The fixture you've received is a rugged, tough piece of pro lighting equipment, and as long as you take care of it, it will take care of you. Cleaning the optics routinely with a suitable glass cleaner will greatly improve the quality of light output.

In transit, keep the fixtures in cases. Common sense and taking care of your fixtures will be the single biggest thing you can do to keep them running at peak performance and let you concentrate on designing a great light show. That's what it's all about, after all!

Returns (Gasp!)

We've taken a lot of precautions to make sure you never even have to worry about sending a defective unit back, or sending a unit in for service. But, like any complex piece of equipment designed and built by humans, once in a while, something doesn't go as planned. If you find yourself with a fixture that isn't behaving like a good little fixture should, you'll need to obtain a Return Authorization (RA).

Don't worry, this is easy. Just visit www.blizzardpro.com/support and open a support ticket, and we'll issue you an RA. Then, you'll need to send the unit to us using a trackable, pre-paid freight method. We suggest using USPS Priority or UPS. Make sure you carefully pack the fixture for transit, and whenever possible, use the original box & packing for shipping.

When returning your fixture for service, be sure to include the following:

1.) Your contact information (Name, Address, Phone Number, Email address).
2.) The RA# issued to you
3.) A brief description of the problem/symptoms.

We will, at our discretion, repair or replace the fixture. Please remember that any shipping damage which occurs in transit to us is the customer's responsibility, so pack it well!

Shipping Issues

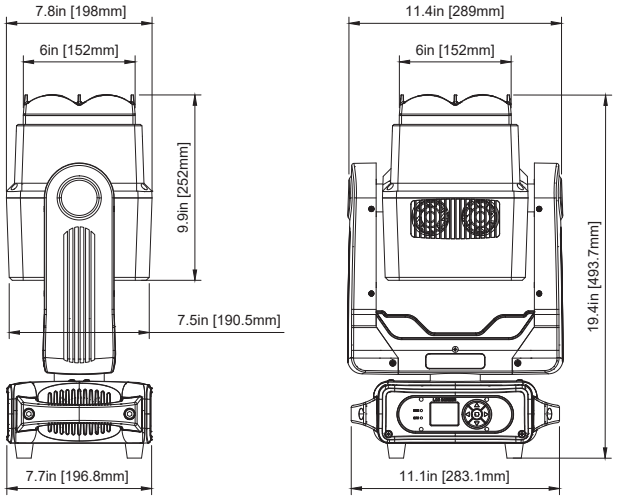
Damage incurred in shipping is the responsibility of the shipper, and must be reported to the carrier immediately upon receipt of the items. Claims must be made within seven (7) days of receipt.

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Tech Specs!

Weight & Dimensions	
Dimensions	11.4 x 7.8 x 19.4 inches (289 x 198 x 493.7 mm)
Weight	22.8 lb. (10.4 kg)
Power	
Operating Voltage	AC 100V-240V/50-60Hz
Power Consumption	370W, 3.26A, PF: .99
Fuse	10A, 250V
Light Source	
LED	4x 60W RGBW 4-in-1 LEDs (3.9° to 28° zoom) 9x 10W cool white LEDs (3.5° beam angle), CCT = 10,000K 108x 0.5W 3-in-1 RGB 5050 SMD LEDs 96x 3W cool white SMD LEDs, CCT = 10,000K
Thermal	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
Movement Range	
Pan/Tilt	540°/270 (8-16 bit resolution) + infinite pan/tilt
Control	
Protocol	USITT DMX-512, RDM
DMX Channels	20/34/93-channel DMX modes
Input/Output	5-pin XLR male/female
Other Operating Modes	DMX512, M/S, sound active, auto mode
Warranty	2-year limited warranty, does not cover malfunction caused by damage to LEDs.

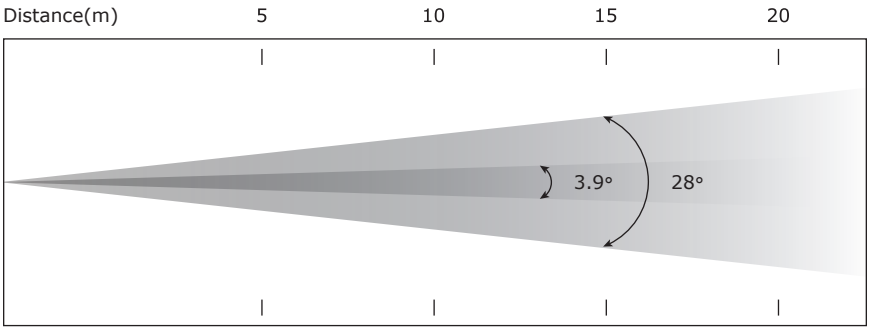
Dimensional Drawings



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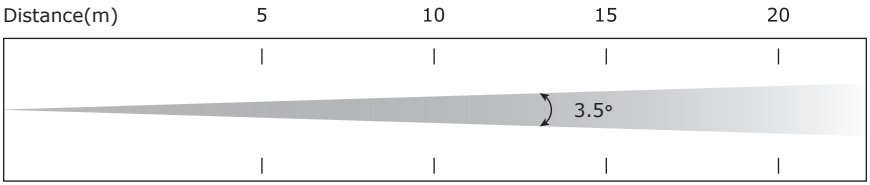
Photometric Data

4x 60W RGBW LEDs - 3.9° to 28° Beam Angle



Lux (3.9º)	13,599	4,064	2,282	1,433
Fc (3.9º)	1,263.4	377.6	212.0	133.2
Diameter(m)	1.2 ft (35.1 cm)	2.3 ft (70.2 cm)	3.5 ft (105.3 cm)	4.6 ft (140.4 cm)
Lux (28º)	768	220	101	60
Fc (28º)	73.0	20.4	9.4	5.6
Diameter(m)	8.3 ft (252 cm)	16.5 ft (504 cm)	24.8 ft (756 cm)	33.1 ft (1008 cm)

9x 10W Cool White LEDs - 3.5° Beam Angle



Lux (3.5º)	7,685	2,366	1,094	626
Fc (3.5º)	714.0	219.8	101.6	5.1
Diameter(m)	1.0 ft (31.5 cm)	2.1 ft (63.0 cm)	3.1 ft (94.5 cm)	4.1 ft (126.0 cm)



Enjoy your product!
Our sincerest thanks for your purchase!
--The team @ Blizzard Lighting