

2016

Attack Lights - Aught4 Datasheet



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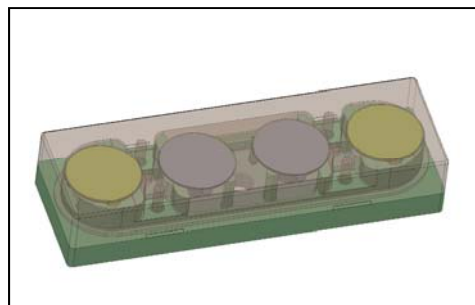
9/10/2016

This is the
amazing new
Attack Lights
Aught4 LED Light
Head



Attack Lights®

!Warning! DO NOT LOOK DIRECTLY INTO FLASHING ATTACK LIGHTS LIGHT HEADS!



Aught4 Series I LED Light Head

Features

- Made in America
- Cree 3Watt LED
- Low profile and rugged IP65 design
- Configurable lens options including forward spot, 45° H or V.
- 27 pre-programmed flash patterns including steady burn
- Custom flash patterns available
- Cover made of scratch coated and UV stabilized Makrolon polycarbonate
- Anodized aluminum base
- Two segment 4" x 1.25" light head
- Versatile mounting options available
- Waterproof Design

Options

- Available in any combination of Red, Blue, White, Amber, Green, and Red-Orange.
- Segments can be daisy chained together to produce synchronized custom patterns using the Bright-Talk interface.
- The aluminum base is available in Black, Red, Green, Blue, Gold, Purple, and Natural.
- Choose from face mount, flush mount, back mount, or bracket mount options.
- Lens Spot options include an 8° Spot, 10° spot, 20° spot
- Wide angle options include a 45° H and/or 45°V, with 160° H or V coming soon.
- User designed Custom flash patterns via Bright-Talk software via any Attack Lights controller or flasher.

The Aught4 Light Head was designed with the idea of bringing a truly American designed and manufactured light head back to the vehicle aftermarket lighting industry. Made with the highest quality materials and electronics, the Aught4 will outshine the competition with the latest generation Cree 3W LEDs and it will stun you with its ARM Cortex Microprocessor derived flash patterns.

Bright-Talk software allows the user to customize flash patterns for each input, create custom flash patterns, chain patterns together for repeating or shuffle mode patterns, generate patterns for segments that are daisy chained together for x-Input operation. X-input operation means that X number of chained light heads have X number of inputs to use for patterns selection.

The use of Bright talk requires the a connection through any Attack Lights controller or flasher.

Specifications

Voltage	10V – 24V
Current	1.4A Max at 10V
Off Current	< 58uA*
Light Output	> SAE 595**
Operating Temperature	-40°C to 70°C (-40°F to 158°F)

*Maximum leakage current at 70°C (158°F).

Typical leakage current is <20uA at 25°C (77°F).

**All Attack Lights preconfigured flash patterns will meet or exceed SAE J595 Class 1 flash requirements for all applicable colors.

Bright-Talk software is capable of auto-correcting non-compliant flashes and patterns but the customer can choose to use non-SAE compliant flash patterns if they so choose.

Attack Lights assume no responsibility for problems arising from customer generated flash patterns that are non-SAE compliant.

Default Flash Patterns

Default Flash Patterns

Blue Wire	Steady On (15%)
Single Color Devices	
White Wire	50% Duty 60FPM
Yellow Wire	*Chicago
White + Yellow	2 x Triple Pop
200FPM	
White + Blue	3 x Triple Pop
200FPM	
	+
	40% Duty 75FPM
White + Yellow + Blue	Fast Random

Dual Color Devices

The same as single color devices except the flashes alternate from side to side.

*Chicago pattern is based on the 911 Emergency Products "Chicago" pattern.

Default flash patterns can be modified at the factory per customer requests. Consult the factory for details.

Physical Specifications

Length	4.0"
Width (no bracket)	0.625"
Height	1.25"
Weight	< 1.0lb

Flash Pattern Programming

Changing Flash Patterns Manually

To manually change the patterns on the White, Yellow, or White + Yellow wires:

- 1) First, release all inputs for >3 seconds
- 2) Then pull the Blue wire > 8V
- 3) Wait 3 more seconds for the Aught4 to enter manual flash pattern programming mode. The Aught 4 will pulse a 100ms pulse to indicate that it's in programming mode.
- 4) Keeping the Blue wire pulled high, toggle the desired trigger wire to ground until the desired pattern is flashing.
- 5) Release the Blue wire and wait 3 seconds to save your flash new trigger wire flash pattern configurations.

To manually change the patterns on the White, Blue, or White + Blue wires:

- 1) First, release all inputs for >3 seconds
- 2) Then pull the Yellow wire > 8V
- 3) Wait 3 more seconds for the Aught4 to enter manual flash pattern programming mode. The Aught 4 will pulse a 100ms pulse to indicate that it's in programming mode.
- 4) Keeping the Yellow wire pulled high, toggle the desired trigger wire combinations to ground until the desired pattern is flashing.
- 5) Release the all 3 wires wire and wait 3 seconds to save your flash new trigger wire flash pattern configurations.

Available Flash Paterns

Single Color Flash Patterns

- | | | | |
|---|-----------------|-----------------|-----------------|
| 1) 50% Duty | 2) 40% Duty | 3) 30% Duty | 4) 20% Duty |
| 5) 10% Duty | 6) Double Pop A | 7) Double Pop B | 8) Double Pop C |
| 9) 3 Pop A | 10) 3 Pop B | 11) 3 Pop C | 12) 4 Pop A |
| 13) 4 Pop B | 14) 4 Pop C | | |
| 15) 4 Pop A + 50% Duty | | | |
| 16) 16) 4 Pop B + 30% Duty | | | |
| 17) Double Pop A + 3 Pop B + 40% Duty x 3 | | | |
| 18) 3 Pop A + Double Pop B + 40% Duty x 5 | | | |
| 19) 4 Pop A + 3 Pop B +40% Duty x 5 | | | |
| 20) Double pop B + 3 Pop A +40% Duty x 5 | | | |
| 21) 3 Pop B + 3 Pop A +40% Duty x 3 | | | |
| 22) 4 Pop B + 3 Pop A +40% Duty x 4 | | | |
| 23) Double Pop C + 3 Pop C + 40% Duty x 3 | | | |
| 24) 3 Pop C + 3 Pop C +40% Duty x 4 | | | |
| 25) 3 Pop C + 3 Pop C +40% Duty x 5 | | | |
| 26) Fast Random | | | |
| 27) Off – Off is useful for | | | |

Daisy Chained Modules

Flash patterns from individual modules will differ from modules that are daisy chained together.

Modules that are Daisy Chained together can be used produce standard light stick patterns including direct left, direct right, center out, back and forth, with up to 27 different flash patterns.

Configuring the flash patterns is the same for Daisy Chained devices as it is for single devices. See page 4 for hookup details.

Approvals

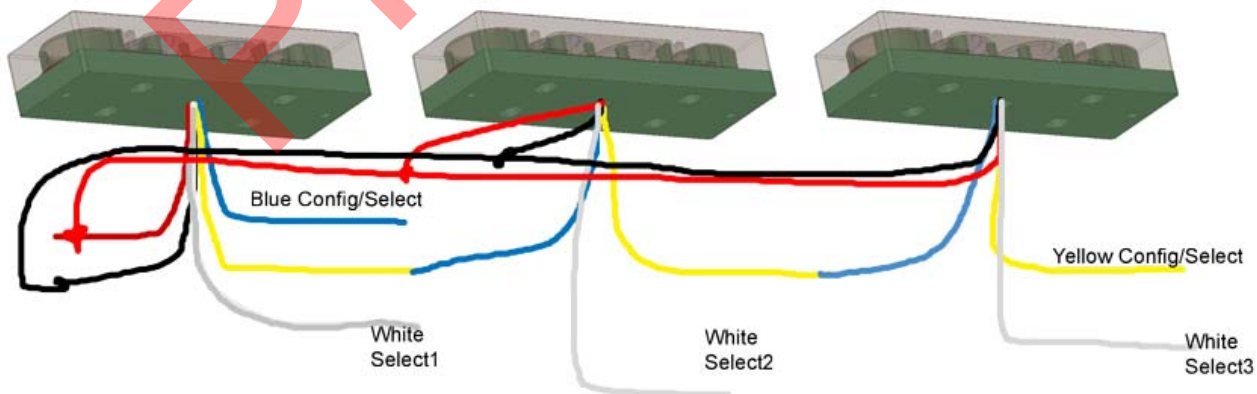
Coming soon SAE J595 and CCR Title 13.

All flash pattern are designed to meet or exceed SAE J595 and California Title 13 ClassI flash power and flash energy requirements.

Daisy Chain Hookup

To connect multiple devices together for synchronized patterns.

- 1) Connect power and ground to a source that is 10VDC to 24VDC.
- 2) Connect the Yellow wire of Module 1 to the Blue wire of Module 2.
 - a. The Blue wire of the first module will become the Blue pattern select wire.
 - b. The white wire of Module 1 will become White Select 1.
- 3) If only two modules are connected together then:
 - a. White wire of Module 2 will become White Select 2.
 - b. Yellow wire of Module 2 will become the Yellow pattern select wire.
- 4) If more than two modules are connected together then N represents the total number of modules:
 - a. Connect the Yellow Wire of Module N – 1 to the Blue of Module N.
 - b. The White wire of Module N – 1 becomes White select N – 2.
 - c. The Yellow wire of the end Module (N) becomes the Yellow select wire.
 - d. The White wire of the end Modul (N) becomes White select N.
 - e. A Maximum of 24 modules can be connected for a Maximum of a 96" bar.
- 5) Use the end White select wires to choose synchronized directional patterns.
 - a. If the farthest left module (Module 1) White wire is selected then directional, side to side, and wig-wag patterns will begin left to right.
 - b. If the farthest right module (Module N) White wire is selected then directional, side to side, and wig-wag patterns will begin right to left.
 - c. If the middle module (odd number N) White wire is selected then a directional, side to side, or wig-wag pattern will begin with the center module.
 - d. If one of the middle modules (even number N) White wire is selected then a directional, side to side, or wig-wag pattern will begin with the two adjacent segments of the two center modules.
 - e. Each white wire can be programmed to flash a different pattern.
- 6) In multiple module configurations the blue and yellow wires are used to configure patterns the same way that single module patterns are selected and they behave the same as the White wires in 5) a. and 5) b..



AL_A401 indicates Attack Lights Aught4 Version 1-----^

aa – indicates color combination-----^

AA = Amber – Amber

BB = Blue – Blue

RR = Red – Red

WW = White – White

AB = Amber – Blue

AW = Amber – White

AR = Amber – Red

BR = Blue – Red

BW = Blue – White

RW = Red- White

bbbb – indicates lens configuration-----^

1 - 8°Spot

2 - 11° Spot

3 - 20° Spot

4 – wide angle 9° x 45° horizontal pattern

5 - orthogonal wide angle 9° x 45° vertical pattern

*6 – wide angle 10° x 160° horizontal pattern

*7 – orthogonal wide angle 10° x 160° vertical pattern

* 10° x 160° patterns are coming soon.

Example 2442 = default:

LED1 has an 11° Spot

LED2 has a wide angle 9° x 45° horizontal pattern

LED3 has a wide angle 9° x 45° horizontal pattern

LED4 has an 11° Spot

cc – indicates mounting configuration-----^

A1 – no mounting hardware – default

A2 – single plate bracket for grill mount.

A3 – black aluminum bezel for face mount

A4 – single angle bracket low

A5 – single angle bracket 3" height

A6 – single plate for face mount

A7 – single bracket for vertical mount

A8 – single motorcycle mount left

A9 – single motorcycle mount right

D1 – double bracket 4" height

xyz – special options-----^

Notes:

Preliminary

Warnings and Disclaimer

Warning! DO NOT LOOK DIRECTLY INTO THE LIGHT HEAD!

Looking directly into the light head at close range can temporarily impair your vision or cause epileptic fits. If any of these symptoms occur look away from the light immediately.

¡Advertencia! NO MIRE DIRECTAMENTE A LA CABEZA DE LUZ !

Mirando directamente a la cabeza de la luz a corta distancia puede afectar temporalmente su visión o causar ataques epilépticos . Si cualquiera de estos síntomas apartar la mirada de la luz inmediatamente.

Varoitus! Älä katso suoraan valoon HEAD ! Katse suoraan valoon päähän lähietäisyydeltä voi heikentää näön tai aiheuttaa epilepsia-kohtauksia . Jos jokin näistä oireista katsoa pois päin valoa välittömästi .

Attention! NE REGARDEZ PAS DIRECTEMENT DANS LA TÊTE DE LA LUMIÈRE ! Regarder directement dans la tête de lumière à courte portée peut temporairement affecter votre vision ou provoquer des crises d'épilepsie . Si l'un de ces symptômes se produisent regarder loin de la lumière immédiatement.

警告！不要直視燈頭！

直視光頭部在近距離可以暫時損害你的視力或導致癲癇發作。如果有這些症狀出現立即尋找遠離光。

Jǐnggào! Bùyào zhíshì dēngtóu!

Zhíshì guāng tóu bù zài jìn jùlí kěyǐ zhànshí sùnhài nǐ de shìlì huò dǎozhì diǎnxián fāzuò. Rúguǒ yǒu zhèxiē zhèngzhuàng chūxiàn lǐjǐ xúnzhǎo yuǎnlí guāng.

Warning ! LIGHT толгой руу нь шууд битгий хараарай !

ойр зайнаас гэрлийн толгой руу шууд харахад түр таны алсын харааг муутгаж , эсвэл эпилепсийн татаж хүргэж болох юм. нэн даруй харах хол гэрэл эдгээр шинж тэмдэг нь ч илэрч байгаа бол .

Warning ! LIGHT tolgoi ruu ni shuud bitgii kharaarai !

oir zainaas gerliin tolgoi ruu shuud kharakhad tür tany alsyn kharaag muutgaj , esvel epilyepsiin tataj khürgej bolokh yum. nen darui kharakh khol gerel edgeer shinj temdeg ni ch ilerch baigaa bol .

Предупреждение! Не глядите директно во глават светлина !

Гледа директно во светлината главата од непосредна близина , може привремено да го нарушат вашата визија или да предизвика епилептични напади. Ако се случи било кој од овие симптоми се погледне подалеку од светлина веднаш.

Predupreduvanje! Ne gledajte direktno vo glavata svetlina !

Gleda direktno vo svetlinata glavata od neposredna blizina , može privremeno da go narušat vašata vizija ili da predizvika epileptični napadi. Ako se sluči bilo koj od ovie simptomi se pogledne podaleku od svetlina vednaš.

Dėmesio! Nežiūrėkite tiesiai į šviesą galvą!

Domina tiesiai į šviesos galvos iš arti gali laikinai sutrikdyti regėjimą arba sukelti epilepsijos priepuolius. Jei kuris nors iš šių simptomų išvaizdą veidrodyje .