

NEW PRODUCT - PRELIMINARY BULLETIN

ION™ Series

SURFACE MOUNTED SUPER-LED® LIGHT FOR INTERIOR AND EXTERIOR APPLICATIONS

**DASH
DECK
VISORS**



ION is a super-tough, ultra compact LED light that is perfect for mounting anywhere on your vehicle, inside or out.

ION shrugs off moisture, salt, chemicals and road vibration while providing added light for off-road vehicles, industrial equipment, motorcycles, utility vehicles, marine applications and many other heavy-duty applications. Compact and versatile enough to mount in any small space on emergency and rescue equipment.

FEATURES

- Smallest and most effective Super-LED light in the market (See chart on back).
- ION is a super-tough, compact LED light that is perfect for mounting anywhere on your vehicle.
- Water-resistant design is perfect for inside or outside mounting.
- Single color models have 25 Scan-Lock™ flash patterns, while split colors offer 69 patterns to choose from.
- Synchronizable to other Whelen Synch products.
- Choice of black or white housings.
- Includes universal mount: combination permanent/pedestal, clip, edge mounts and double sided tape.
- 0.40 amps average at 12.8 VDC.
- Supplied with 6" 4-wire pigtail.
- Meets or exceeds SAEJ595 specifications.
- Five year HDP® Heavy-Duty Professional warranty.



Pedestal/Clip Mount



Mounted in grille.

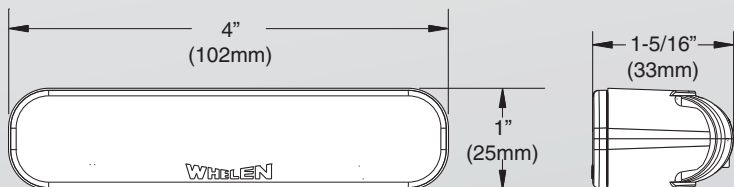


Mounted on trunk lid.

MODELS

- ION*Red, Blue, Amber or White, Black Housing
- IONJSplit Red/Blue, Black Housing
- IONDSplit Red/White, Black Housing
- IONMSplit Blue/Amber, Black Housing
- IONW*Red, Blue, Amber or White, White Housing
- IONWJSplit Red/Blue, White Housing
- IONWDSplit Red/White, White Housing
- IONWMSplit Blue/Amber, White Housing

Replace * in model number with color desired:
A = Amber, B = Blue, R = Red and C = White

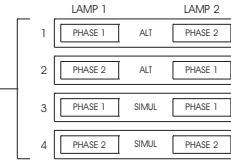


WHELEN®

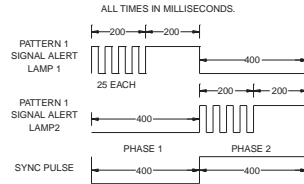
SPLIT COLOR 69 FLASH PATTERNS SPECIFICS

	PATTERN	SYNC	# SEQ	CAL	TIMING (in mS)
1/4	SIGNAL ALERT 75	YES	4	N	(4) 25 ON / 25 OFF, THEN 200 ON AND 400 OFF
5/8	COMET 75	YES	4	N	(4) 50 ON / 50 OFF, THEN 400 OFF
9/12	DOUBLE 75	YES	4	Y	160 ON / 80 OFF / 160 ON / 400 OFF
13/16	SINGLE 75	YES	4	Y	320 ON / 480 OFF
17/20	COM-ALERT 75	YES	4	N	(2) 50 ON / 50 OFF, THEN 200 ON AND 400 OFF
21/24	LONG BURST 75	YES	4	N	(5) 50 ON / 30 OFF, THEN 400 OFF
25/28	PING-PONG 75	YES	4	Y	250 ON / 80 OFF / 70 ON / 400 OFF
29/30	SSNF 75	YES	2	N	CH 1 FLASH - CH 2 SINGLE 75, SIMULTANEOUS ONLY
31A/32S	SINGLE 60	NO	2	Y	400 ON / 600 OFF
33A/34S	SINGLE 90	NO	2	Y	265 ON / 400 OFF
35A/36S	SINGLE 120	NO	2	Y	200 ON / 300 OFF
37A/38S	SINGLE 300	NO	2	N	80 ON / 120 OFF
39A/40S	DOUBLE 150	NO	2	N	75 ON / 50 OFF / 75 ON / 200 OFF
41A/42S	COM-ALERT 150	NO	2	N	(2) 25 ON / 25 OFF, THEN 100 ON / 200 OFF
43A/44S	ACTION FLASH 50	NO	2	N	2 CYCLES COMET 75 / 2 CYCLES SINGLE 50
45A/46S	MODU-FLASH 150	NO	2	N	2 CYCLES COMET 75 / 4 CYCLES SINGLE 150
47A/48S	MODU-FLASH	NO	2	N	VARIABLE, 30 ON to 150 ON to 30 ON OVER 5.0 SECONDS
49A/50S	DOUBLE 120	NO	2	Y	100 ON / 50 OFF / 100 ON / 250 OFF
51A/52S	PING-PONG 120	NO	2	Y	150 ON / 50 OFF / 50 ON / 250 OFF
53A/54S	TRIPLE 75	NO	2	Y	110 ON/40 OFF/110 ON/40 OFF/100 ON/400 OFF
55A/56S	TRIPLE 120	NO	2	Y	70 ON/25 OFF/70 ON/25 OFF/70 ON/250 OFF
57A/58S	SIG-ALERT CAL	NO	2	Y	(4) 30 ON / 20 OFF, THEN 200 ON AND 400 OFF
59A/60S	ACTION SF 60/120	NO	2	Y	2 CYCLES SINGLE 60 / 4 CYCLES SINGLE 120
61A/62S	ACTION SF120/TF75	NO	2	Y	4 CYCLES SINGLE 120 / 2 CYCLES TRIPLE 75
63A&S	CAL SCAN	NO	1	Y	RANDOM SELECTION OF CAL PATTERNS
64A&S	ACTION SCAN	NO	1	N	RANDOM SELECTION OF PATTERNS
65	STEADY FLASH 60	NO	1	Y	CHANNEL 1 STEADY, CHANNEL 2 SINGLE 60
66	STEADY FLASH 75	NO	1	Y	CHANNEL 1 STEADY, CHANNEL 2 SINGLE 75
67	STEADY FLASH 90	NO	1	Y	CHANNEL 1 STEADY, CHANNEL 2 SINGLE 90
68	STEADY FLASH 120	NO	1	Y	CHANNEL 1 STEADY, CHANNEL 2 SINGLE 120
69	STEADY & STEADY	NO	1	Y	STEADY

NOTE: PATTERN NUMBERS FOLLOWED BY AN "A" ARE ALTERNATING, "S" IS SIMULTANEOUS
 CAL = FLASH PATTERN IS CERTIFIED CALIFORNIA TITLE 13 COMPLIANT.
 STEADY = STEADY FOR ONE SECOND THEN SLOW RAMP TO 40.



PATTERN PHASING EXAMPLE

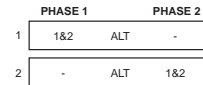


SINGLE COLOR 25 FLASH PATTERNS SPECIFICS

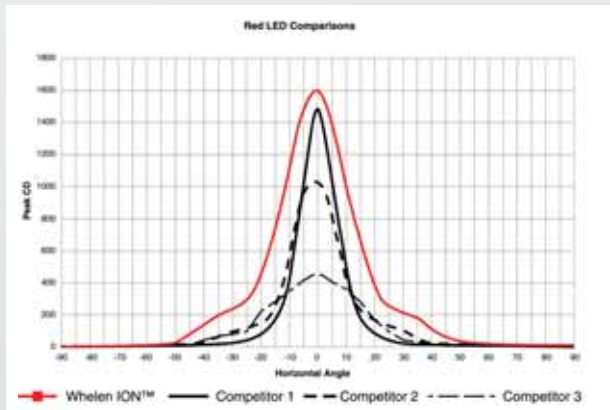
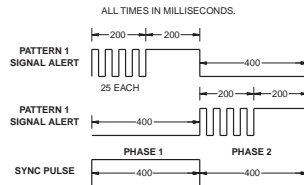
	PATTERN	SYNC	PHASES	TIMING (in mS)
1/2	SIGNAL ALERT 75	YES	1&2	(4) 25 ON / 25 OFF, THEN 200 ON AND 400 OFF
3/4	COMET 75	YES	1&2	(4) 50 ON / 50 OFF, THEN 400 OFF
5/6	DOUBLE 75	YES	1&2	160 ON / 80 OFF / 160 ON / 400 OFF
7/8	SINGLE 75	YES	1&2	320 ON / 480 OFF
9/10	COM-ALERT 75	YES	1&2	(2) 50 ON / 50 OFF, THEN 200 ON AND 400 OFF
11/12	LONG BURST 75	YES	1&2	(5) 50 ON / 30 OFF, THEN 400 OFF
13/14	PING-PONG 75	YES	1&2	250 ON / 80 OFF / 70 ON / 400 OFF
15	SINGLE 60	NO	1	400 ON / 600 OFF
16	SINGLE 90	NO	1	265 ON / 400 OFF
17	SINGLE 120	NO	1	200 ON / 300 OFF
18	SINGLE 300	NO	1	80 ON / 120 OFF
19	DOUBLE 150	NO	1	75 ON / 50 OFF / 75 ON / 200 OFF
20	COM-ALERT 150	NO	1	(2) 25 ON / 25 OFF, THEN 100 ON / 200 OFF
21	ACTION FLASH 50	NO	1	2 CYCLES COMET 75 / 2 CYCLES SINGLE 50
22	ACTION FLASH 150	NO	1	2 CYCLES COMET 75 / 4 CYCLES SINGLE 150
23	MODU-FLASH	NO	1	VARIABLE, 30 ON to 150 ON to 30 ON OVER 5.0 SECONDS
24	ACTION SCAN	NO	1	RANDOM SELECTION OF PATTERNS
25	STEADY	NO	1	1 SECOND STEADY THEN SLOW RAMP TO 40..

NOTE: NON SYNC PATTERNS DO NOT GENERATE OR RESPOND TO A SYNC PULSE.

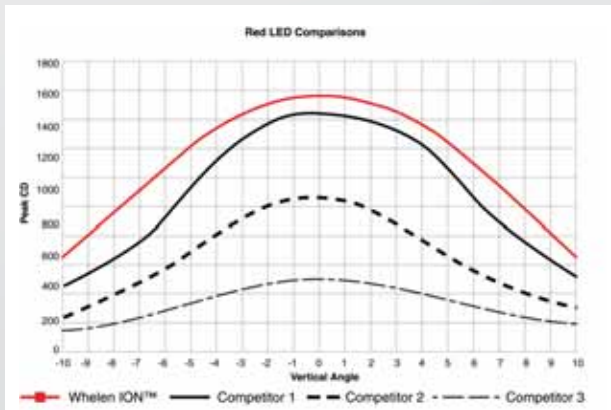
OUTLET SEQUENCING



PATTERN PHASING EXAMPLE



Horizontal angle comparison of the ION against the two leading competitors.



Vertical angle comparison of the ION against the two leading competitors.

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