

Innovation in alarm & signal

CATALOGUE 2018.02
Warning Light Bar



Company Introduction



Qlight Gives You a Brighter Future!

Qlight has been a world-leading provider of visual and audible status indicating systems and solutions for the last three decades. We pride ourselves in developing products which help our customer's improve productivity, safety, and quality control in the industrial automation and commercial industries. Our strong dedication to innovative products, quality assurance, well-established supply chain, customizable manufacturing and strong customer relationships have helped us earn the top market share in Korea and China. These core values have also been fundamental to our continued growth into new markets. Qlight's products are certified by the International Quality Management System (ISO14001), IECEX, ATEX, UL, NEPSI, CE, Lloyd, KIMM, and KOSHA which display our dedication to strin-

gent quality control and product development based on safety-pursuing industry standards.

Our assembly lines in Busan, South Korea and Shanghai, China presently provide a variety of more than 450 of products to more than 40 countries, based on sales offices in South Korea (Seoul, Busan) China (Shanghai, Shenzhen, Shenyang, Tianzhen, Tianjin, Wenzhou), and the U.S. (Silicon Valley). The Qlight brand reflects 30 years of research and development, certification, and manufacturing experience.

We will continue to establish ourselves as an industry-leading provider by pushing the boundaries of technology in order to enhance our customer's efficiency and safety in every industry and region of the world.



Qlight Global Networks

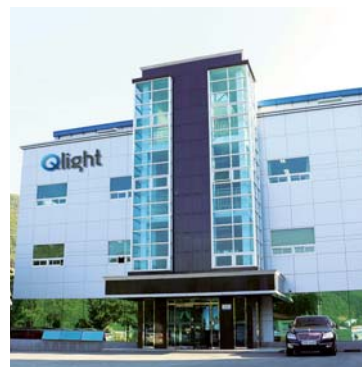
Country	Company name	Address	Phone
Korea	Qlight Co., Ltd.	HQ A-412, 579, Gyeongin-ro, Guro-gu, Seoul, Korea	+82-80-328-2222
		Factory 185-25, Mukbang-Ro, Sangdong-Myeon, Gimhae-si, Gyeongsangnamdo, Korea	+82-80-328-1111
USA	Qlight USA, Inc.	#341, 3003 North First St., San Jose, CA 95134 USA	+1-408-519-5740
China	SHANGHAI Qlight Electronics Co.,Ltd	#19, Nanda Road, Baoshan Area, Shanghai, China	+86-21-6651-7100

Qlight Clients Heavy industry / Ship building / Automotive / Steel / Machinery / Petrochemical / Power plants / Electronics / Semiconductor / Emergency Vehicles



Company History

Qlight has been striving to accomplish our mission to provide visual and audible status indicating systems and solutions to enhance our customer's work safety and efficiency for the last three decades.

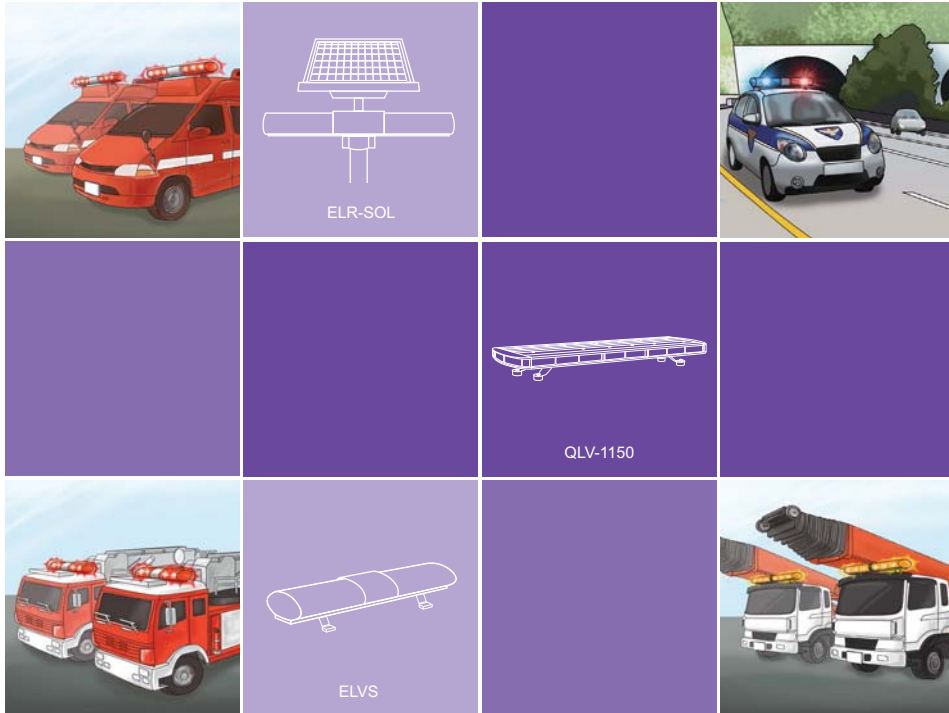


- 2017** 08 ISO 14001 : 2015 certificate aquired
02 Obtained ICAO certification for SAOL1
- 2016** 11 Obtained the patent for "multi-functional modular signal tower light"
(Patent # : 10-1676863)
09 Obtained the patent for "Emergency Vehicle Lightbar" (Patent # : 10-1662283)
07 Obtained UL certificate for LED signal lights Q series
07 Obtained the patent for "Bar style LED work lights" (Patent # : 10-1598123)
- 2015** 09 The second headquarter factory built
06 Limit switch models (3 items including SW2TS) acquired certificates from RMRS
03 LED work lights (QML150/250, QMFL 500/600) UL listed
- 2014** 10 Established the Qlight USA, Inc. in San Jose, CA.
Horn which that emits light patented (Patent # : 10-1452447)
Fan/ tilt type bracket patented (Patent # : 10-1452445)
09 LED strobe light with multi-lens patented (Patent # : 10-1444391)
08 Explosion proof product family including SNE, SNES, SESA, SEA, SPNA acquired
IECEX certificates
06 Selected as a promising export company by Small & Medium Business Admin., Korea
01 Non-sparking explosion proof tower lights including ST45ML and STB45ML
acquired KGS and NEPSI certificates
- 2013** 01 Portable warning lights for agricultural machine applications patented
(Patent # : 10-1226959)
- 2012** 12 Explosion proof warning lights (SNE, SNES) acquired CCS certificates
LED work light with cylindrical lens attached patented (Patent # : 10-1219020)
09 Explosion proof warning lights (SESA, SEA, SPNA) and heavy-duty warning lights
(SH1, SED, SEWN30) certified by CCS
01 LED warning light with LED reflector patented (Patent # : 10-1108102)
- 2011** 11 SNE, SNES certified by NEPSI, SNE, SNES, SESA, SEA, SPNA certified by KOSHA
08 KCC (Korea Communications Commission) certificate acquired
07 Light equipment applying prism system patented (Patent # : 10-1051056)
- 2010** 05 QEB certified by KIMM
LED warning light, bulb revolving warning light patented (Patent # : 10-0961472)
03 Research and development center established
- 2009** 12 SSEL certified by KIMM
LED tower lights compliant with the RoHS directive
- 2008** 04 Motor drive system patented (Patent # : 20-0439536)
03 LED revolving type lens patent acquired (patent # : 10-0808669)
- 2007** 11 Explosion proof electric horn (SPNA) acquired NEPSI certificates
05 Tower light models including ST45, ST56, ST80) UL listed
- 2005** 07 Heavy-duty products for vessel applications acquired Lloyd's (UK's Maritime Clas-
sification Society) certificates
04 ABS certificates acquired for 18 products including SH1
- 2004** 06 ISO 9001:2000 certificates acquired
- 2001** 02 Established Shanghai Qlight Electronic Co.,Ltd. in China
- 2000** 07 Established Qlight Limited
- 1993** 11 Nominated for developing domestic explosion proof warning lights by Korean
Ministry of Science & Technology
- 1988** 03 Developed limit switches for vessel applications
- 1986** 07 Established Qlight

CATALOGUE

Warning Light Bars

INNOVATION IN ALARM & SIGNAL



References	4
Product introductions	5

Specification List for Warning Light Bars



Model number(series)	QLV	QLV-SET	ELV	ELM	ELR-SOL	SAMP	
Voltage	DC12V	DC12V	DC12V, DC24V	DC12V, DC24V	DC12V	DC12V, DC24V	
Dimension (mm)	Diameter	300×64	30×84	285×167	280×136	1152(Width)	175(Width)
	Height	129	129	229	161	685	73
	Depth	885-1250(Length)	885-1250(Length)	1152(Length)	588-1708(Length)	484	165
	Materials	Lens-PC Cover, Board-Al	QLV-PC Other SAMP-100-Steel SM-100ND-Steel	Lens, Housing-PC Board-Al	Lens, Housing-PC Board-Al	Lens, Housing-PC Board-Al	Housing-Al
Light source & Operation	Bulb Steady/Flashing						
	Bulb Revolving						
	LED Revolving						
	LED Steady/Flashing						
	LED Strobe	•	•	•	•	•	
	LED Simulated revolving						
Xenon Strobe			•	•			
Sound & Volume	-	Max. 135dB at 1m	Max. 126dB at 1m	Max. 126dB at 1m	-	-	
Mounting structure	Direct mount	Direct mount	Direct mount	Direct mount	Direct mount	Bracket mounting type	
Cable entry							
Protection rating	IP56	IP56	IP55	IP55	IP56	-	
Certificates							
Customization							
Page	P6	P7	P9-10	P11-12	P11-12	P13	



Model number(series)	SAMP-100	SM-100ND	
Voltage	DC12V	DC12V	
Dimension (mm)	Diameter	175(Width)	Ø122
	Height	73	-
	Depth	165	118(Length)
Materials	Housing-Al	Housing-Steel	
Light source & Operation	Bulb Steady/Flashing		
	Bulb Revolving		
	LED Revolving		
	LED Steady/Flashing		
	LED Strobe		
	LED Simulated revolving		
Xenon Strobe			
Sound & Volume	-	Max. 135dB at 1m	
Mounting structure	Bracket mounting type		
Cable entry			
Protection rating	-	-	
Certificates			
Customization			
Page	P8	P8	

Aerodynamic LED Light Bar Suitable for High Speed Emergency Vehicles

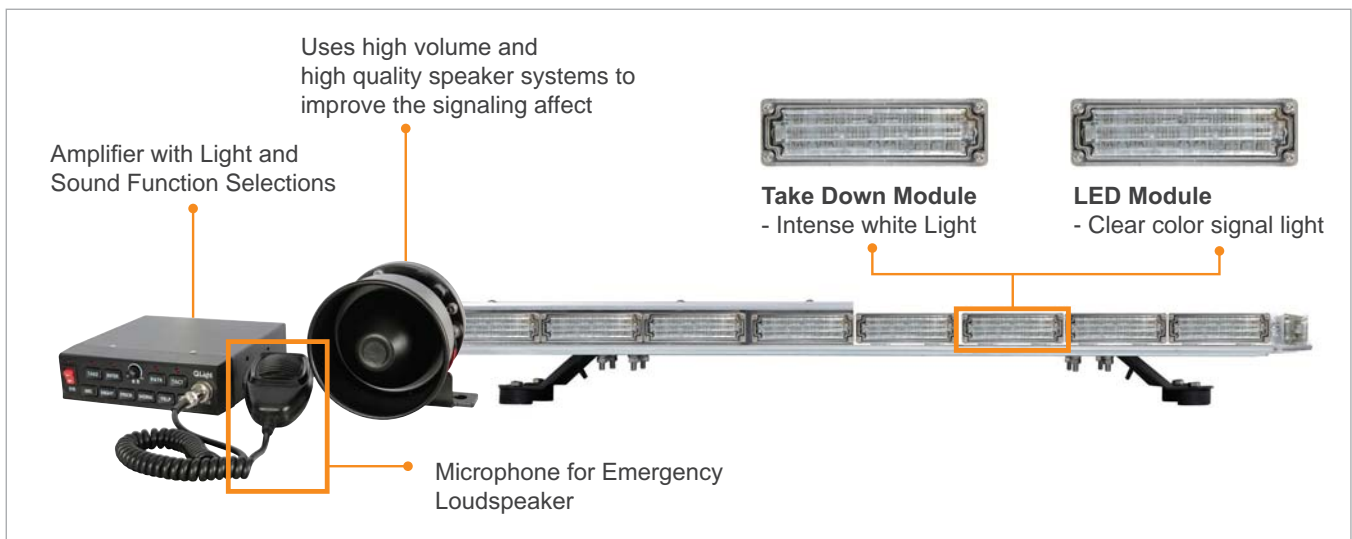
- Slim design
- Vivid & powerful signal



Common Specifications

- Compact and aerodynamic design minimizes air resistance in high speed vehicles
- Transparent polycarbonate outer and inner lens provides clear signal light transmission
- Strong mechanical strength, heat, and UV light resistance
- Excellent protection from vibration and impact with use of aluminum boards for both the top and bottom plates
- Internal heat discharges naturally because each LED module adopts an excellent heat dissipative structure
- QLV-SET includes amplifier that has a built-in one-touch switch for selection between signal sound and warning light
- QLV-SET includes a 100W high volume horn with clear warning sounds
- 1,250mm, 1,150mm and 885mm length models are also available
- Lens color : ●Blue-Red ●Red-Red ●Amber-Amber ●Green-Green
- Available in customized color arrangements
- Materials
 QLV Light Bar Model : Lens-PC, Cover-Al, Board-Al, Mount bracket-STs
 QLV-SET : QLV Light Bar Model-PC other/ SAMP-100-Steel, Al/ SM-100ND-Steel
- Ambient operating temperature : -30°C to +50°C
- Protection rating : IP56

Product Features



QLV series

Warning Light Bars for Emergency Vehicle (Max 123dB)



QLV LED Strobe Warning Light Bar

- Excellent light transmission with use of 24 High brightness LED Strobe modules
- Replaceable LED module design
- Flashing rate : 60-80flashes/min



QLV-1250



QLV-1150



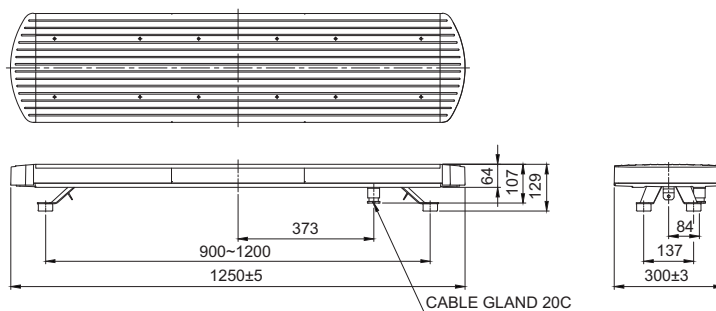
QLV-885



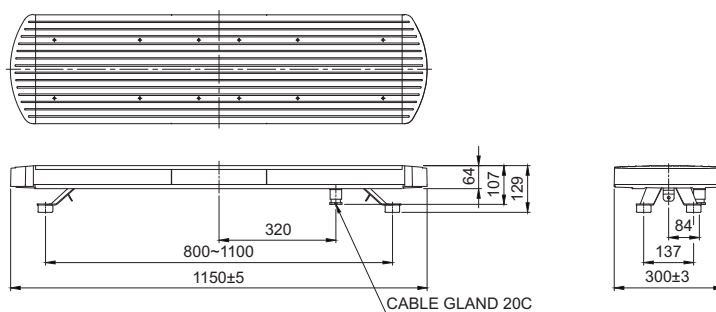
Technical Diagram

(Units : mm)

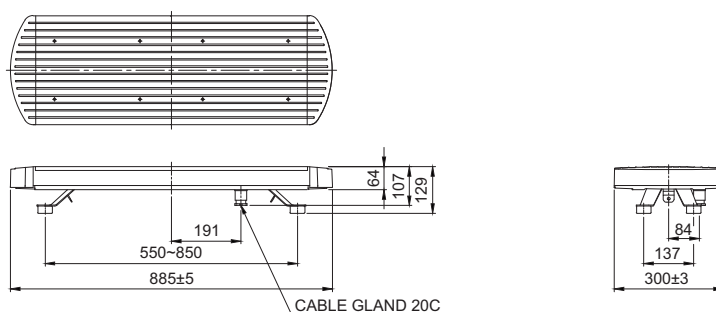
QLV-1250



QLV-1150



QLV-885

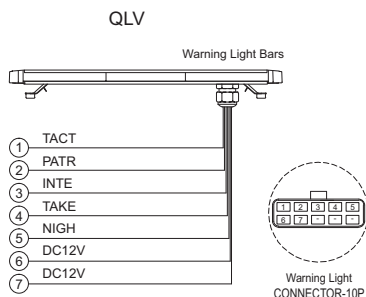


QLV Signal Light Functions

No.	Function
1	Full LED Strobe
2	LED Simulated revolving
3	Front & rear simulated revolving
4	TAKE DOWN LED Steady
5	NIGHT LED Steady (NIGHT MODE)



Wiring Instructions



Ordering Specification

QLV-1150	-	12	-	B/R
[Model number]		[Voltage]		[Color]
<ul style="list-style-type: none"> • QLV1250 • QLV1150 • QLV885 		<ul style="list-style-type: none"> • 12-DC12V 		<ul style="list-style-type: none"> • B/R Blue-Red • R/R Red-Red • A/A Amber-Amber • G/G Green-Green

QLV series

Warning Light Bars for Emergency Vehicle (Max 123dB)



QLV-SET

QLV-SET LED Strobe Light Bar SET

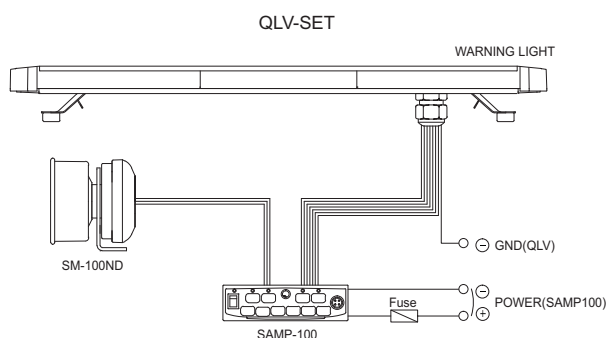
- Features high intensity LED strobe modules
- Amplifier includes built-in one-touch switch for selection between signal sound and warning light
- 100W high volume speaker with clear warning sounds
- Flashing rate : 60-80 flashes/min

Model number	LED module number	Voltage	Current	Volume	Certificate	Weight	Color
QLV-1250-SET	24EA	DC12V	28A	Max 135dB	-	20.31kg	● B-R
QLV-1150-SET	22EA		26A			19.42kg	● R-R
QLV-885-SET	18EA		23A			16.77kg	● A-A ● G-G

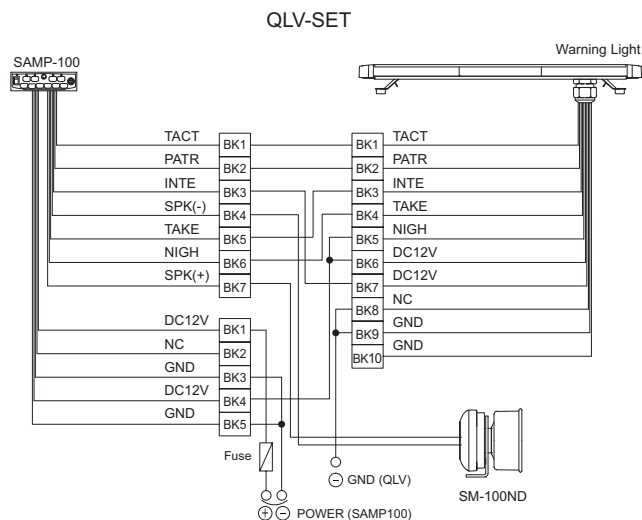
QLV-SET Signal Light and Sound Functions

	Mode	Function
Light Modes	TACT	Full LED strobe
	PATR	LED simulated revolving
	INTE	Front and rear simulated revolving
	TAKE	Take down LED steady
	NIGH	Night LED steady (Night mode)
Sound Modes	WAIL	Fire Alarm sound
	YELP	Emergency sound
	HORN	Horn sound
	PRIOR	Buzzer sound
	MIC	Microphone output mode

Technical Diagram (Units : mm)



Wiring Instructions



Ordering Specification

QLV1150	-	12	-	R/W	-	SAMP	-	HORN
[Model number]		[Voltage]		[Color]		[AMP]		[HORN]
• QLV1250 • QLV1150 • QLV885		• 12-DC12V		• B/R ● Blue-Red • R/R ● Red-Red • A/A ● Amber-Amber • G/G ● Green-Green		• SAMP - SAMP-100 included		• HORN - SM100-ND included

QLV series

Controllable AMP for Warning Light Bars

Recommended Amplifier Designed for QLV Warning Light Bar



SAMP-100

SAMP-100 Controllable AMP for QLV Warning Light Bar

- Simple linkage between sound signal and warning lights
- Clear and stable sound signal
- Built-in switch for emergency voice on the microphone
- Amplifier is already part of QLV-SET model



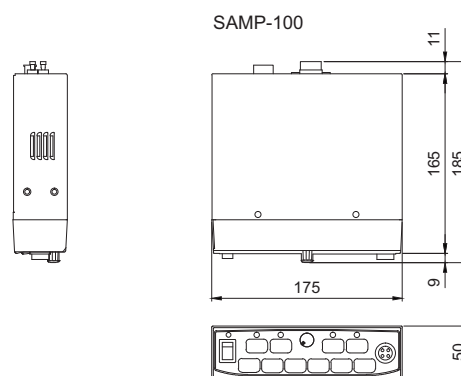
Specifications

Model number	Voltage	Current	Sound pattern	Frequency/ Repeat time	Certificate	Weight
SAMP-100	DC12V	10A	Fire Alarm	300-700Hz/140cycle	-	1.15kg
			Emergency	350-750Hz/14cycle		
			Horn	600Hz-91KHz		
			Buzzer	2.25Hz/90cycle		



Technical Diagram

(Units : mm)



QLV series

Horn for Warning Light Bars



Recommended Horn Designed for QLV Warning Light Bars



SM-100ND

SM-100ND Horn for QLV Warning Light Bars

- 100W high volume horn with clear warning sounds
- Mounting bracket for applications in various environments



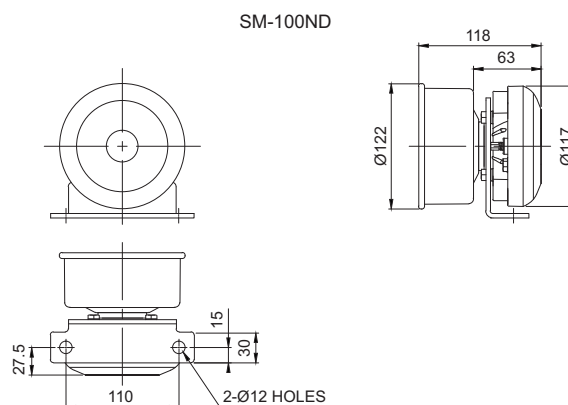
Specifications

Model number	Voltage	Volume	Certificate	Weight
SM-100ND	DC12V	Max 135dB	-	1.15kg



Technical Diagram

(Units : mm)



ELV series

Warning Lights for Emergency Response Vehicles (Max 126dB)

Suitable for all types of emergency response vehicles

Excellent durability with superior shock and vibration resistance, suitable for harsh environmental conditions such as storms and extreme hot/ cold environments



ELVS- Xenon lamp strobe type
ELVL- LED strobe type



Common Specifications

- LED and xenon lamp light sources are available to fit your sophisticated application needs
- Can deliver accurate and powerful signals even in crowded situations with a number of emergency vehicles in the field
- Designed in a structure which allows for quick disassembly and assembly for convenient light source replacement
- Stainless steel, aluminum, and polycarbonate (PC) materials are used to increase product strength while maintain a lightweight structure
- Waterproof and dustproof structure allows for superior durability in harsh environments such as storms and extreme heat/ cold
- Specially coated globe that protect the product from scratches, dust, and direct sunlight in order to maintain long lasting clarity
- Suitable for emergency response vehicles, security vehicles, road maintenance vehicles, and tow trucks
- Standard color arrangements : ●Blue-Red ●Red-Red ●Amber-Amber ●Green-Green
- Customized color arrangement available
- Materials : Lens/ Housing-PC, Speaker cover-STS, Reflector-Heat resistant ABS, Board-Al
- Protection rating : IP56

Product Features

Globe clamping structure added for improve sealing

The control board located in the side cover for stable operation

Special coating on the globe for improve transparency

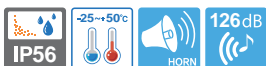
Uses high volume and high quality speaker systems to improve the signaling affect

Xenon Strobe Lamp Type
Easy lamp replacement with the special lamp connector system

LED Strobe Type
Individual LED diffusion lenses are coupled with the LED backlighting system for improved visibility

ELV series

Warning Lights for Emergency Response Vehicles (Max 126dB)



ELVS



ELVL

ELVS Xenon Strobe Warning Light Bar

- 6 xenon lamp and reflecting system that emits strong strobe flashing
- Special long-lasting light source with excellent vibration resistance and easy lamp replacement from the special lamp connector system

Model number	Voltage	Current	Bulb			Certificate	Weight	Color
			Spec	Standard	Parts no			
ELVS	DC12V	4.950A	280V -400V	BH0647(G) W Type	49	-	12.70kg	<ul style="list-style-type: none"> ● B-R ● R-R ● A-A ● G-G
	DC24V	2.970A						

ELVL LED Strobe Warning Light Bar

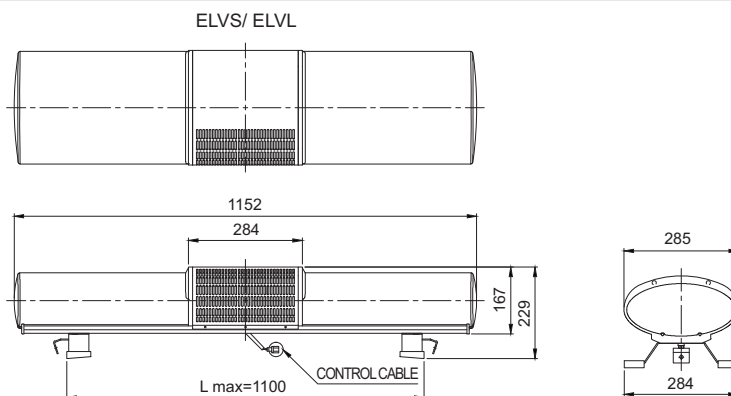
- A system of 14 LED strobe lights that emits flashing lights for excellent visibility
- Enhanced outdoor visibility with use of independent LED diffusion lenses coupled with the LED backlighting system
- Flashing rate : 60-80 flashes/min

Model number	Voltage	Current	Certificate	Weight	Color
ELVL	DC12V	1.000A	-	13.40kg	<ul style="list-style-type: none"> ● B-R ● R-R ● A-A ● G-G
	DC24V	0.555A			



Technical Diagram

(Units : mm)

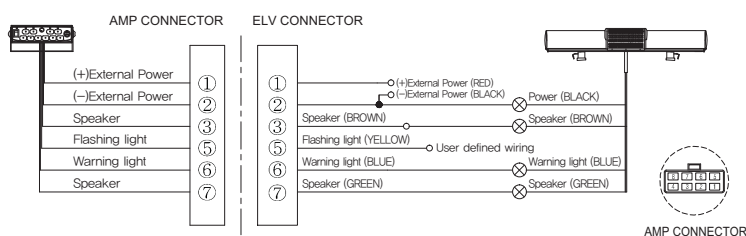


*: Power line standard : VCTF (0.75sq)×4C 3m



Wiring Instructions

ELVS/ ELVL-DC



Ordering Specification

ELVL	-	12	-	B/R	-	SAMP
[Model number]		[Voltage]		[Color]		[AMP]
<ul style="list-style-type: none"> • ELVS • ELVL 		<ul style="list-style-type: none"> • 12-DC12V • 24-DC24V 		<ul style="list-style-type: none"> • B/R ● Blue-Red • R/R ● Red-Red • A/A ● Amber-Amber • G/G ● Green-Green 		<ul style="list-style-type: none"> • None - No AMP • SAMP - AMP included

ELM series

Warning Lights for Road Safety (Max 126dB)

Various combinations of sizes, color, and light source depending on the application needs

ELMS - Xenon lamp strobe type
ELML - LED strobe type



Common Specifications

- Adjustable size depending on the type of vehicle and application needs
- Can select from a xenon or LED light source for your various application needs
- Suitable for tow trucks, patrol cars and parking lots
- Designed in a structure which allows for quick assembly and disassembly for convenient light source replacement
- Built-in speaker, volume : Max 126dB at 1m
- Standard color arrangements : ●●Blue-Red ●●Red-Red ●●Amber-Amber ●●Green-Green
- Customized color arrangements available
- Materials : Lens/ Housing-PC, Reflector-Heat resistant ABS, Board-AI
- Protection rating : IP56
- Modular design allows user defined color arrangement if necessary



ELMS Xenon Lamp Strobe Warning Light Bar

- Xenon lamp equipped with dual-faced reflector that emits a powerful strobe light
- Special long-lasting light source with excellent vibration resistance and easy lamp replacement by using the special lamp connector system
- Flashing rate : 60-80 flashes/min

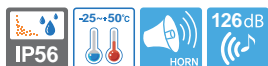


ELMS

Model umber	Lamp number	Voltage / Current (Based on 3 layers)	Certificate	Weight (Based on 3 layers)	Color
ELMS-1	2EA	DC12V / 4.950A DC24V / 2.970A	-	10.16kg	<ul style="list-style-type: none"> ●● B-R ●● R-R ●● A-A ●● G-G
ELMS-2	4EA				
ELMS-3	6EA				
ELMS-4	8EA				
ELMS-5	10EA				

ELM series

Warning Lights for Road Safety (Max 126dB)



ELML

ELML LED Strobe Warning Light Bar

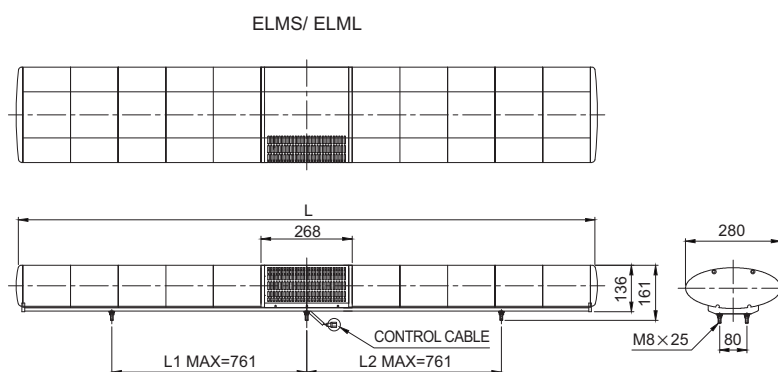
- Adopts LED strobe system that emits flashing light for excellent visibility
- Enhanced outdoor visibility with use of independent LED diffusion lenses coupled with the LED backlighting system
- Flashing rate : 60-80 flashes/min

Model number	LED module number	Voltage / Current (Based on 3 layers)	Certificate	Weight (Based on 3 layers)	Color
ELML-1	2EA	DC12V / 1.000A DC24V / 0.555A	-	11.02kg	<ul style="list-style-type: none"> • B-R • R-R • A-A • G-G
ELML-2	4EA				
ELML-3	6EA				
ELML-4	8EA				
ELML-5	10EA				



Technical Diagram

(Units : mm)



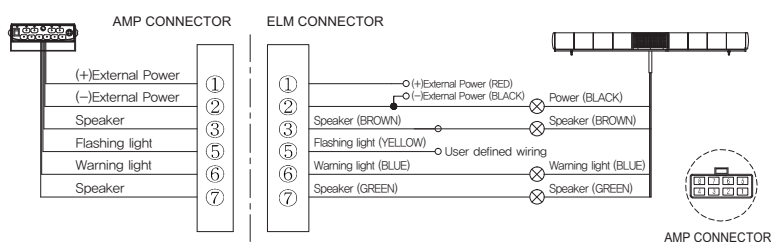
L (LENGTH)	
ELM-1 (BLOCKS 2)	588mm
ELM-2 (BLOCKS 4)	868mm
ELM-3 (BLOCKS 6)	1148mm
ELM-4 (BLOCKS 8)	1428mm
ELM-5 (BLOCKS 10)	1708mm

*Power line standard : VCTF (0.75sq)×4C 3m



Wiring Instructions

ELMS/ELML-DC

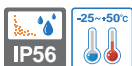


Ordering Specification

ELML	-	4	-	12	-	B/R	-	SAMP
[Model number]		[Layer]		[Voltage]		[Color]		[AMP]
<ul style="list-style-type: none"> • ELMs • ELML 		<ul style="list-style-type: none"> • 1-1layer • 2-2layers • 3-3layers • 4-4layers • 5-5layers 		<ul style="list-style-type: none"> • 12-DC12V • 24-DC24V 		<ul style="list-style-type: none"> • B/R ● Blue-Red • R/R ● Red-Red • A/A ● Amber-Amber • G/G ● Green-Green 		<ul style="list-style-type: none"> • None • No AMP • SAMP • - AMP included

ELR-SOL

Solar Powered Warning Light Bar



Solar powered warning light bar for road safety

- Semi-permanent lifetime by adopting high brightness LED
- Solar powered design does not require a power system (Built-in rechargeable battery)
- Built-in SUN switch activates a system that automatically operates the product when darkness is detected
- Operates for 96 hours upon full charge
- Flashing rate : 60-80 flashes/min



Specifications

Model number	Battery voltage	Battery capacity	Running time	Certificate	Weight
ELR-SOL	12V	12Ah	96 hour	-	12.80kg

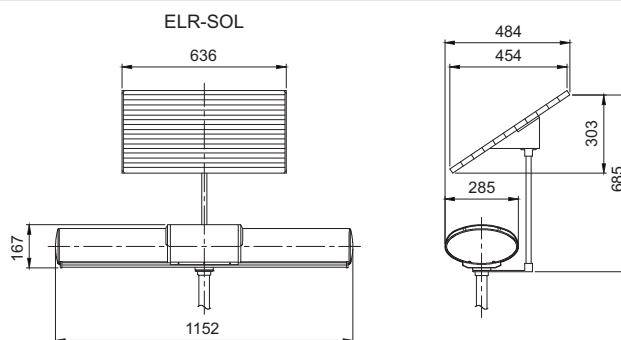


Technical Diagram

(Units : mm)



ELR-SOL



SAMP

Controllable AMP for Warning Light Bar

Signal sound AMP for ELV and ELM

- Simple linkage between sound signal and warning lights
- Clear and stable sound signal
- Built-in switch for emergency voice on the microphone
- Commonly applicable for ELV and ELM



Specifications

Model number	Voltage	Current	Sound pattern	Frequency/ Repeat time	Certificate	Weight
SAMP	DC12V DC24V	4.150A 1.870A	Fire	300-700Hz / 140cycle	-	1.09kg
			Emergency	350-750Hz / 14cycle		
			Ambulance	610-690Hz / 50cycle		
			Buzzer	2,200Hz		
			Horn sound	595Hz - 1,040Hz		

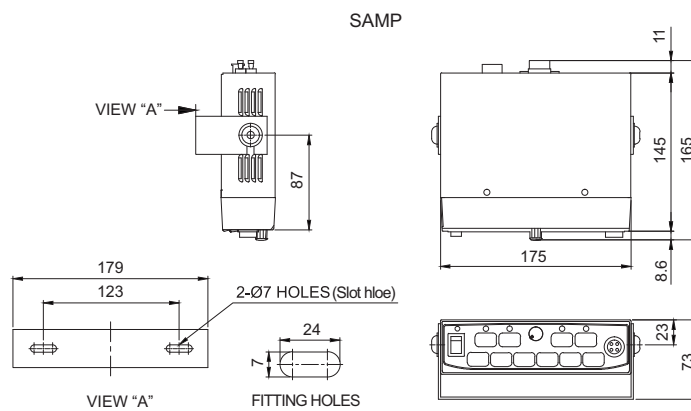


Technical Diagram

(Units : mm)



SAMP



Ordering Specification

SAMP	-	12
[Model number]		[Voltage]
• SAMP		• 12-DC12V • 24-DC24V

Icon Description

This catalogue helps users quickly identify the product's specifications and features by using several types of icons. If you understand the concept for each icon, you will find it easy to understand the catalogue information.

Light Source and Operating Mode Icons

Icon	Operating Mode	Icon	Operating Mode
	Bulb steady type		Bulb steady/flashing type
	Bulb revolving type		LED revolving type
	LED steady type		LED steady/ flashing type
	LED simulated revolving type		LED strobe type
	Xenon lamp strobe type		

Acoustic Signal Icons

Icon	Operating Mode	Icon	Operating Mode
	Buzzer		Speaker
	Horn		Bell
	Motor siren		MP3
	Decibel		

Specifications Icons

Icon	Operating Mode	Icon	Operating Mode
	Magnet type		Ambient operating temperature
	NPN type transistor		PNP type transistor
	IP rating		Wireless Network

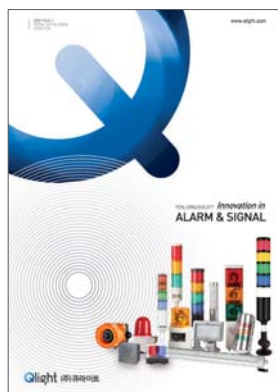
Detail Icons

Icon	Operating Mode	Icon	Operating Mode
	Common specification		External view drawing
	Wiring		Mounting
	User specifications		Model selection

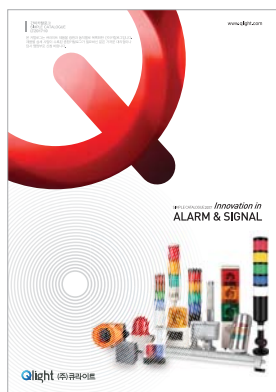
Qlight Catalogue Introduction

Qlight produces a wide variety of product categories which offers the customer the ability to select the suitable device for their application needs and environments.

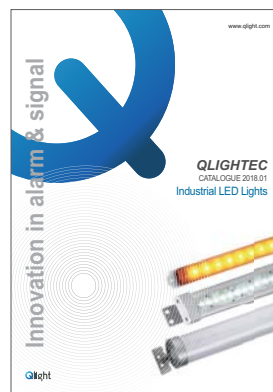
There are warning/signal lights, electric signal horns, signal tower lights, warning light bars, PC control tower lights, industrial LED lights, aviation obstruction lights, and limit switches.



Total Catalogue



Simple Catalogue



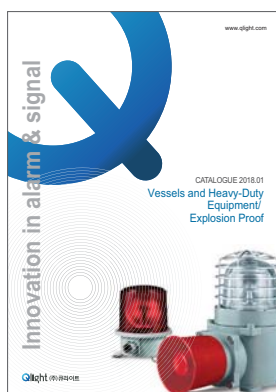
Industrial LED Lights



Signal Tower Lights



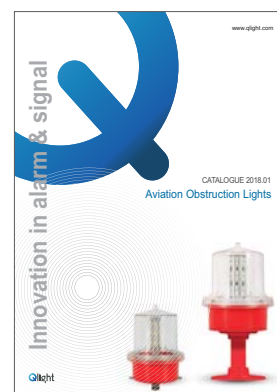
Warning/ Signal/ Signal & Electric Horn



Vessels and Heavy-Duty Equipment/ Explosion Proof



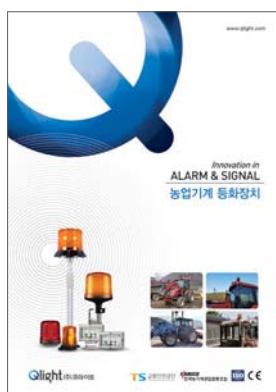
Warning Light Bar



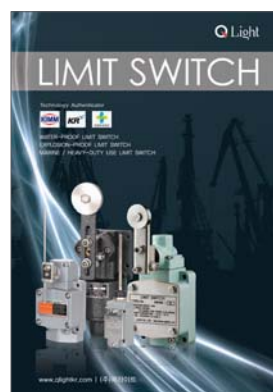
Aviation Obstruction Lights



Wireless Network System



Agriculture Machine Warning Light



Limit Switch



For Steel Manufacturing Facilities



FOR YOUR
SAFETY

Specification and dimensions listed in this catalogue are subject to change without prior notice for product quality improvement. The newest product information is available on our web site. (www.qlight.com) Please read the Instruction Manual attached to the product carefully before installation and use.

Qlight Catalogue Introduction

Signal Tower Lights

Warning/ Signal & Electric Horn

Vessels and Heavy-Duty & Equipment/ Explosion Proof

Warning Light Bar

Aviation Obstruction Lights

Industrial LED Lights

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Qlight



WARNING LIGHT | ELECTRONIC HORN | SIGNAL TOWER LIGHT | EMERGENCY LIGHT BAR | LED OBSTRUCTION LIGHT | LED WORK LIGHT