



SEA Company

TRAFFIC ENGINEERING

more than 25 years
of reliable partnership





SEA Company

London

Cologne

Moscow

• **Kyiv, Ukraine**

*25 years
of reliable partnership!*

www.sea.com.ua

SEA Company was founded in 1990.

2015 - more than 300 professionals work in company offices in **Ukraine, Russia, Great Britain and Germany.**

Nowadays a group of companies under SEATM is a leading Ukrainian distributor of electronic components, power supplies, electrical equipment, power distribution equipment, industrial computers, measuring instruments, soldering equipment and wireless components.

SEA Company manufactures traffic lights and traffic information & control systems, parking meters & parking control systems, automated monitoring and control systems for urban infrastructure, electrical equipment and electricity meters, LED screen, etc.

Since 2007 SEA Company has been a **contract manufacturer of electronic devices.**

Quality Management System of the company was approved to ISO 9001:2009.



SEA Company

SEA Company's Fields of Activity

SEA Company has about 2000 m² of office space, its manufacturing and warehouse space exceeds 1800 m²



SEA Company

Leader in Intelligent Engineering Solutions

By combining engineering and data expertise, we enable our customers to make informed decisions when answering the challenges that urban and industrial infrastructures face today.

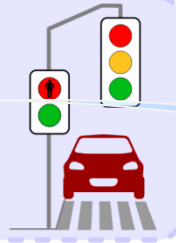




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**Urban Automation
Manufactured by SEA Company**

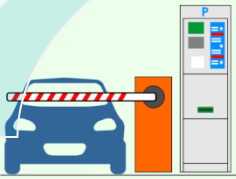
**TRAFFIC
MANAGEMENT
SYSTEMS**



**STREET
LIGHTING
CONTROL
SYSTEMS**

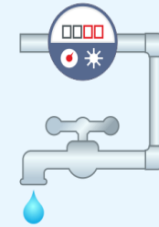


**PARKING
CONTROL
SYSTEMS**



**AUTOMATED
MONITORING &
CONTROL
SYSTEMS FOR
URBAN
INFRASTRUCTURE**

**WATER
CONSUMPTION
REMOTE
CONTROL
SYSTEMS**



**VEHICLE
TRACKING &
MONITORING
SOLUTIONS**



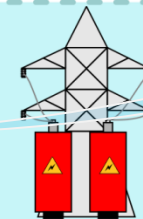
**ELEVATOR
DISPATCHING
CONTROL
SYSTEMS**



**DIGITAL
SIGNAGE**



**AUTOMATION OF
TRANSFORMER
SUBSTATIONS**





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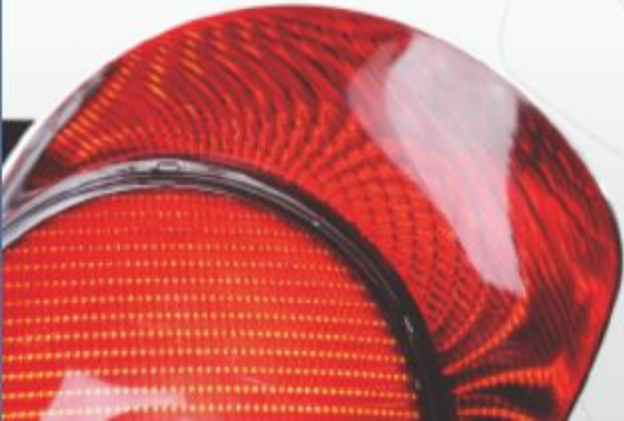
SEA Company's Manufacturing

LED TRAFFIC LIGHTS AND TECHNICAL EQUIPMENT FOR TRAFFIC MANAGEMENT

- LED traffic lights, LED traffic light countdown signs and LED traffic lights modules
 - Intelligent traffic light controller
 - Integral traffic management system
 - Traffic signs



SEA Company since 2008 engaged in the production of modern high-tech traffic light products, which are made on the basis of its own production traffic using modern equipment and the latest technology.



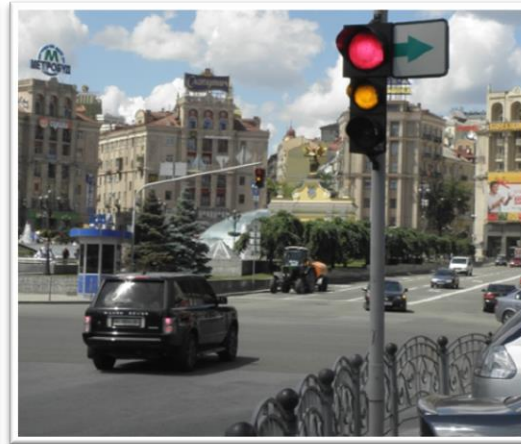


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SEA Company's Manufacturing

LED TRAFFIC LIGHTS AND TECHNICAL EQUIPMENT FOR TRAFFIC MANAGEMENT

SEA Company - market leader in Ukraine for manufacturing and sales of traffic lights



LED Traffic Lights Product for Vehicle Signal:

- 200 mm LED Pedestrian Signal
- 300 mm LED Pedestrian Signal
- LED Pedestrian Signal with Countdown Timer
- Audible Pedestrian Signals
- 200 mm LED Traffic Lights
- 300 mm LED Traffic Lights
- LED Traffic Lights with Countdown Timer
- 200&300 mm Combined LED Traffic Lights

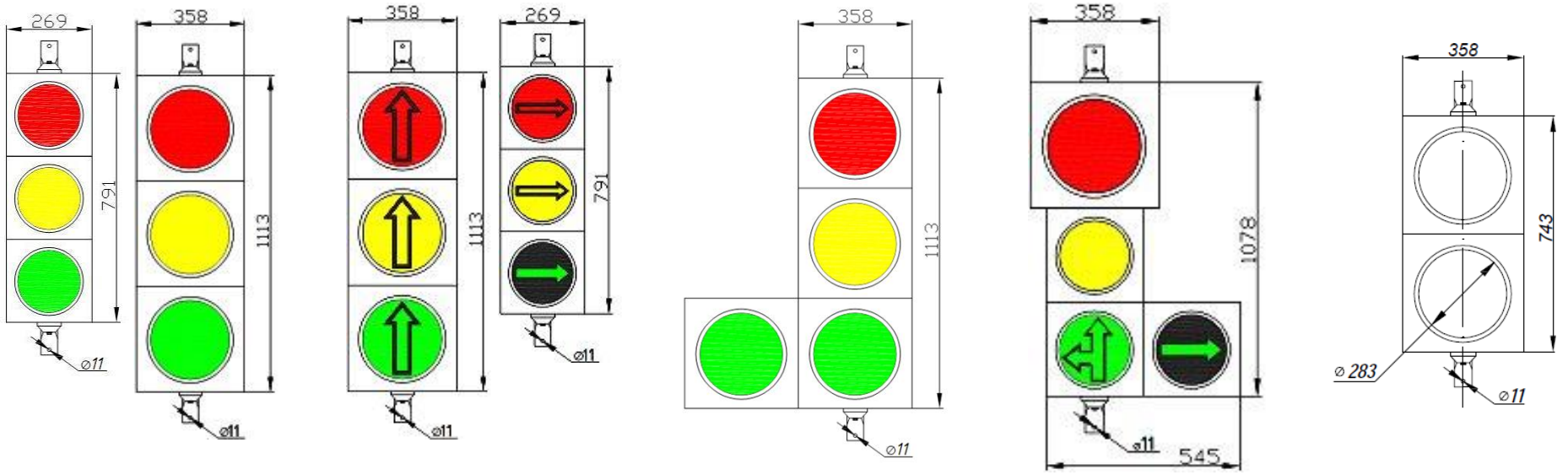
Traffic light characteristics conform to European Standard EN12368

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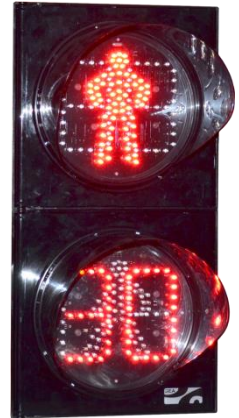
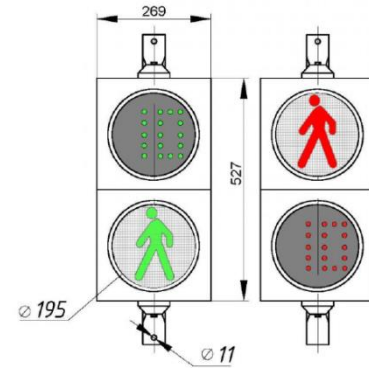
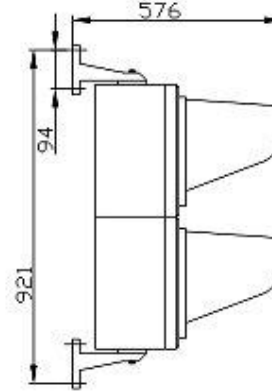
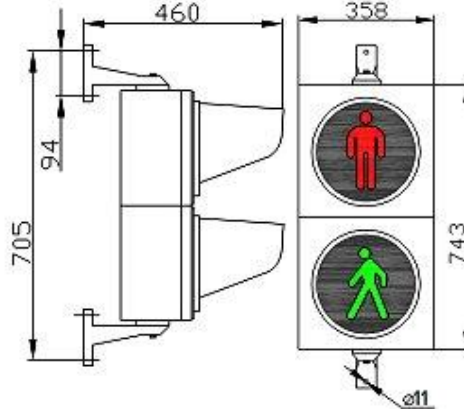
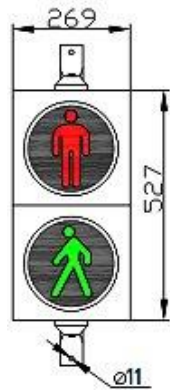
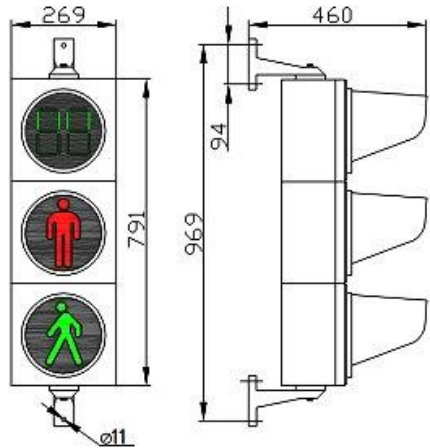
SEA Company's Manufacturing LED TRAFFIC LIGHTS





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**SEA Company's Manufacturing
PEDESTRIAN TRAFFIC LIGHTS**





SEA Company's Manufacturing

LED TRAFFIC LIGHTS AND TECHNICAL EQUIPMENT FOR TRAFFIC MANAGEMENT

Main features of LED traffic lights with central light source of SEA Company's manufacturing:

- ✓ **HIGH PERFORMANCE**
- ✓ **LONG LIFETIME**
- ✓ **LOW POWER CONSUMPTION**
- ✓ **ERGONOMIC DESIGN**
- ✓ **LIGHT WEIGHT**



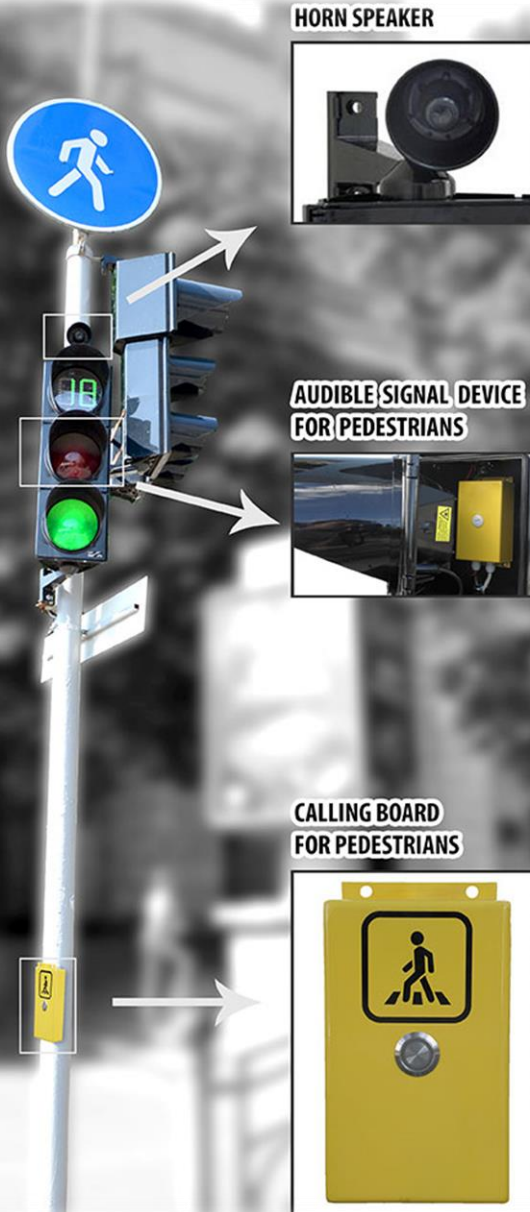
- Characteristics of SEA Company's traffic lights include long service life, high luminosity and sturdy construction.
- Color fastness of the cabinet material and high impact resistance of the material are guarantees for durability.
- Power-saving LED modules contribute to the perfect design.
- The elements are available in two versions: Slim Line and Classic Line.
- In addition to numerous symbol inserts SEA Company also offers turn arrows, counters and acoustic signal transmitters for pedestrian crosswalks.



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LED TRAFFIC LIGHTS AND TECHNICAL EQUIPMENT FOR TRAFFIC MANAGEMENT



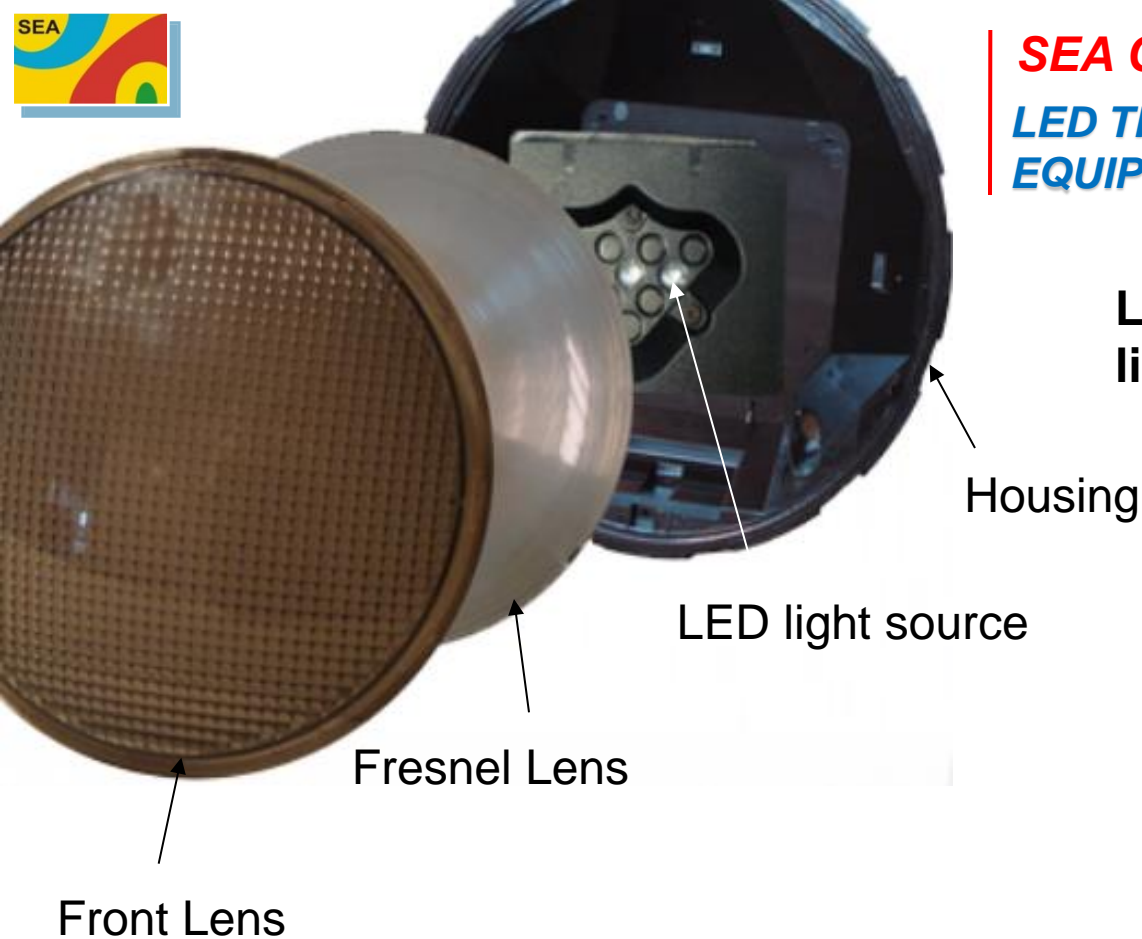
- Supply voltage 220V (+22 / -33) 50Hz;
- Average power for one traffic light section doesn't exceed 12W;
- Traffic lights maintain stable lighting parameters during the whole time of exploitation within range of supply voltage from 187VAC to 242VAC and have minimum power factor 0,9 within whole range of supply voltage and operating temperatures;



Audible Pedestrian Signals



SEA Company's Manufacturing **LED TRAFFIC LIGHTS AND TECHNICAL** **EQUIPMENT FOR TRAFFIC MANAGEMENT**



LED module with built-in central light source and Fresnel lens

- Front lenses of modules are transparent and completely exclude phantom flash;
- Traffic light housings are made of black polycarbonate;
- Protection level IP65;
- Operating temperatures $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$;
- Traffic light weight depending on configuration – 7~11 kg;
- Traffic light design allows fastening of additional sections to it;
- Fastening construction allows to install traffic lights at all types of consoles, walls and ropes;
- Lifetime not less than 10 years;
- Warranty period of exploitation is 5 years.

Front lens material - polycarbonate.

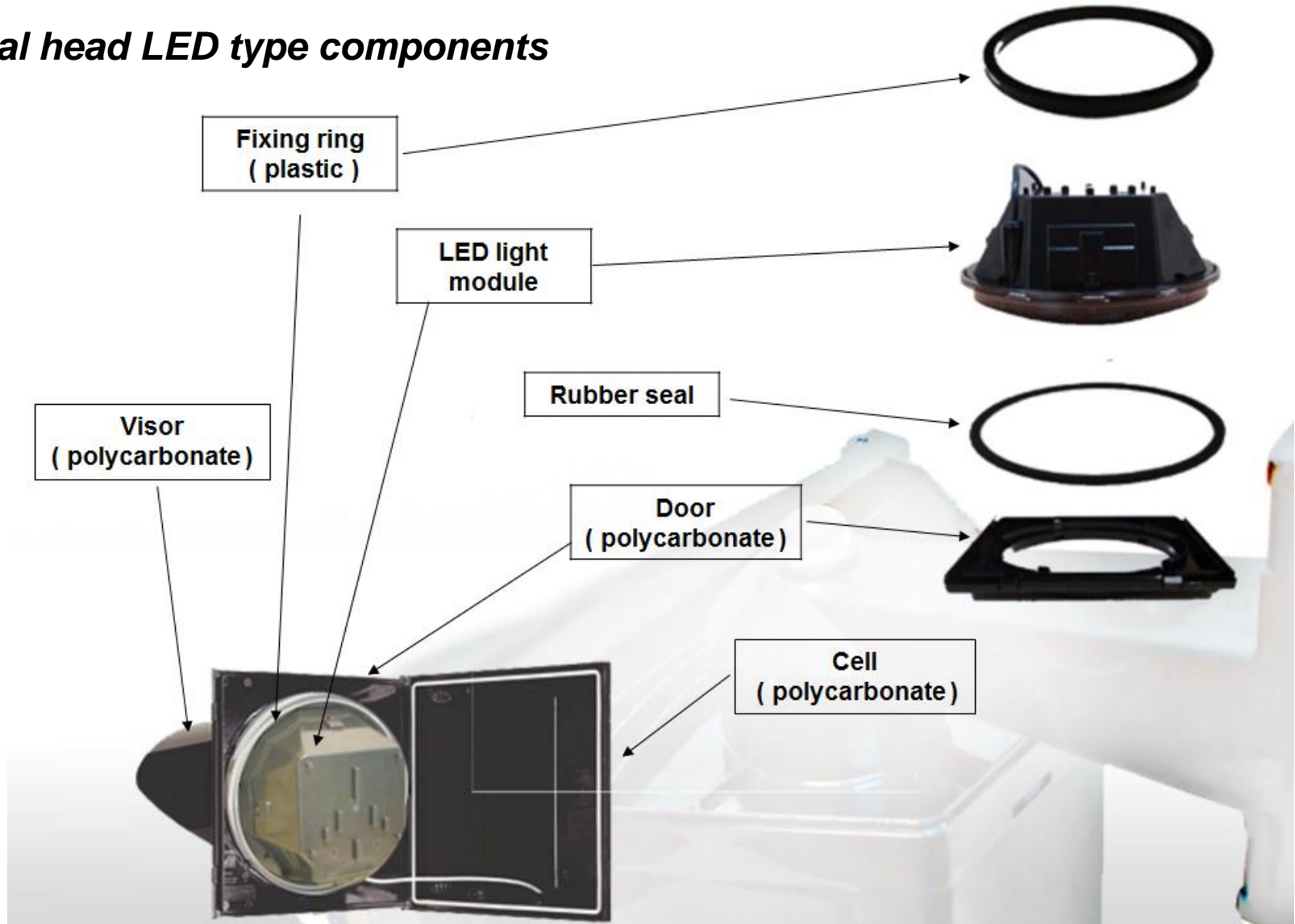
Color – colored or non-colored (black tint)

Fresnel lens material – transparent acryl

Housing material – dark polyamides



Signal head LED type components





Main technical characteristics of LED traffic lights with central light source of SEA Company's manufacturing:

Characteristics		D 200	D 300
Luminous intensity (red, tallow, green), Cd		350	400
Light distribution	type	B 2/1 (type W)	B 3/1 (type N)
	level	conform to Standard EN12368	
Wavelength, nm (conform to Standard EN 12368)	red	613,5 – 631	
	yellow	585 – 597	
	green	525 – 530	
Radiation uniformity		>1:10	>1:15
Phantom effect protection class		Possibility of phantom lighting from external light source is excluded	
Supply voltage, V		230B	230B
Maximum power consumption, W		9	12
Minimum power factor		0.9	
Protection level		IP65	
Maximum operating humidity, %		98	
Operating temperatures, °C		-40 / +70	
Shockproof		Class IR3	

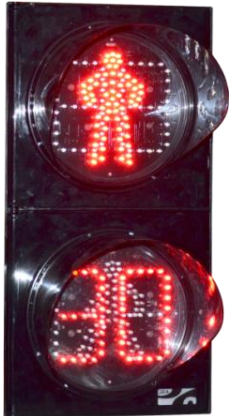




SEA Company's Manufacturing **LED TRAFFIC LIGHTS MODULES &** **TRAFFIC LIGHT COUNTDOWN SIGNS**

SEA Company is a manufacturer of high quality LED Traffic Light Countdown signs and LED traffic lights modules.

- LED traffic lights modules from SEA Company offer many advantages - including external diverging lens, specially developed for central lighting, and internal Fresnel lens.
- This solution ensures even light distribution in accordance with the requirements in the specification.
- The obscuring technology in the production of the front lenses reduces the phantom effect of the color change through the action of light, therefore making a major contribution to traffic safety.





LED traffic light modules 200 mm and 300 mm



SEA Company's Manufacturing
LED TRAFFIC LIGHTS MODULES & TRAFFIC LIGHT COUNTDOWN SIGNS

Name	Image	Description
TOIS1.10-T	for	traffic countdown timer for pedestrian with diameter 200mm, two green digits of countdown, two red digits of countdown, 220V AC
TOIS1.10-Y	for	traffic countdown timer for transport with diameter 200mm, two green digits of countdown, two red digits of countdown and yellow signal, 220V AC
TOIS1.10-G	for	traffic countdown timer for pedestrian with diameter 200mm, two green digits of countdown and green signal with the image of the going green pedestrian, 220V AC
TOIS1.10-R	for	traffic countdown timer for pedestrian with diameter 200mm, two green digits of countdown and red signal with the image of the standing red pedestrian, 220V AC
TOIS1.20-T	for	traffic countdown timer for transport and pedestrian with diameter 200mm, two green digits of countdown and red signal with the image of the standing red pedestrian, 220V AC
TOIS1.20-Y	for	traffic countdown timer for transport with diameter 300mm, two green digits of countdown, two red digits of countdown and yellow signal, 220V AC

- Power, consumed by the modules is not exceeding 12W.
- Operating temperature – from -40°C up to +60°C
- Relative humidity – 98% at +25°C
- Module protection level – IP65



Traffic diagnostic controllers of TDC series (hereinafter TDC) are intended for:

- Implementation of coordinated control of traffic-lights objects as part of traffic information systems of a wide-range integration (main-line traffic-lights objects, city/inter-regional/national control systems and for traffic monitoring);
- Diagnostic and monitoring of load circuits of traffic-light lamps.



Integrated Traffic Management Systems



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LED VARIABLE MESSAGE SIGNS

LED variable-message road signs (LED VMS) produced by **SEA Company** are multiway control road signs. LED road signs are intended to inform participants of road traffic about the traffic conditions on public roads, urban and rural settlements. LED variable-message road signs produced by **SEA Company** connect with the global system of traffic management.

All the LED variable-message road signs produced by **SEA Company** meet the European standard EN12966-1: 2005.



All the LED variable-message road signs produced by **SEA Company** meet the European standard EN12966-1: 2005.

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SEA Company's Manufacturing PARKING EQUIPMENT & SYSTEMS

Parking Space Available Signs



Parking Entry & Exit Terminals



Parking Meters & Parking Payment Stations



Management Software



Automatic Parking Systems

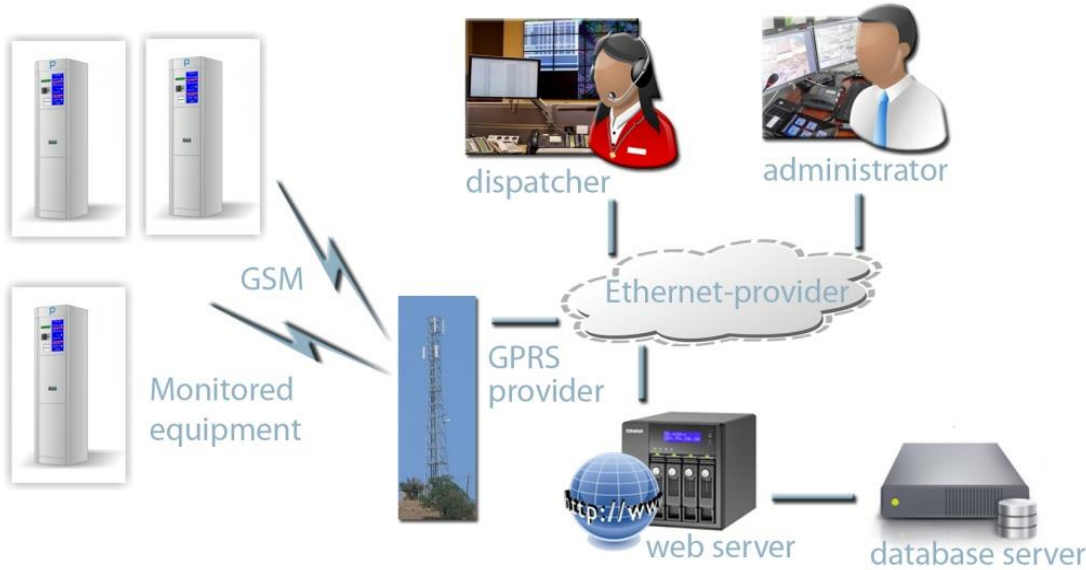


Parking Systems with an Operator



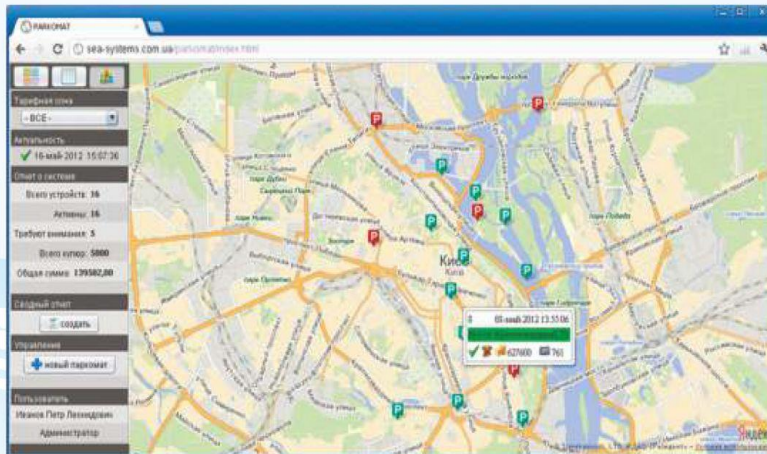
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SEA Company's Manufacturing PARKING MANAGEMENT SYSTEM



- Communication via GSM/GPRS modem, LAN or WI-FI makes it possible to establish a connection with the office system to perform remote diagnostics and monitoring of parking meters;
- That means that service calls could be minimized and collection trips to empty the cashbox and change paper rolls could be optimally coordinated;
- Alarm signals are registered and immediately relayed if any unauthorized access to the parking meter is attempted.

Web-interface of parking meter SEA AP 100





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SEA Company's Manufacturing PARKING EQUIPMENT & SYSTEMS



ТАРИФИ
ЗА ПАРКУВАННЯ

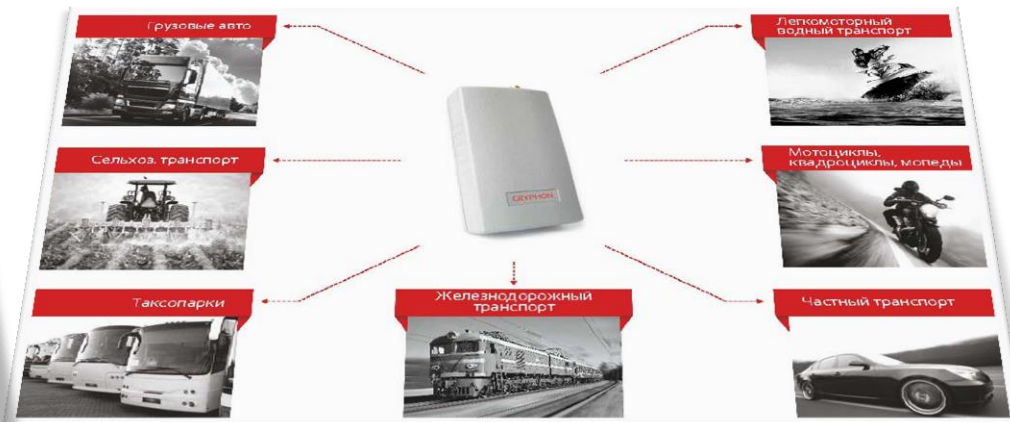
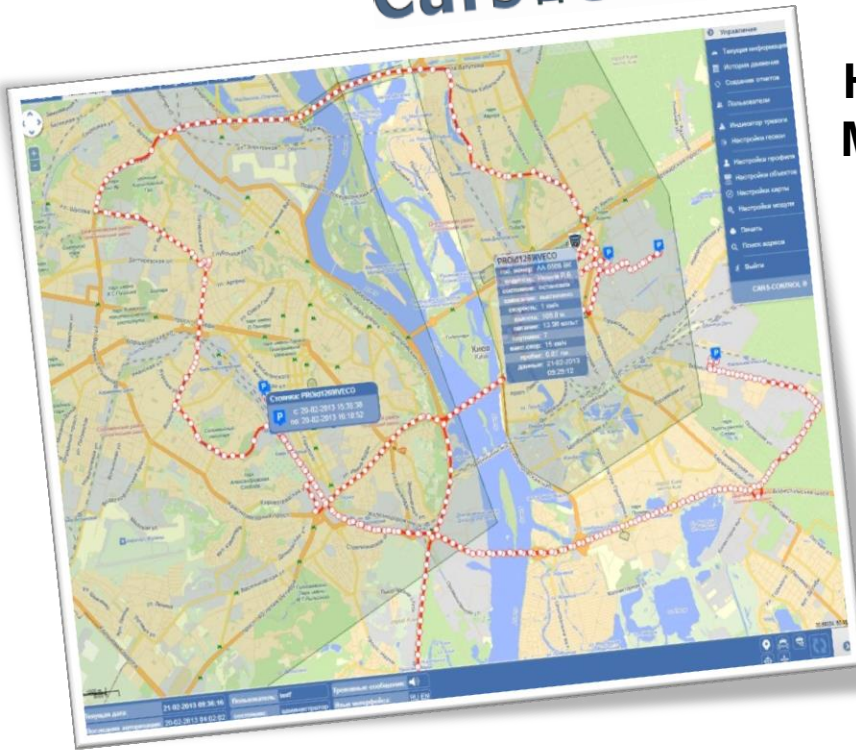
1 год.	- 5 грн.
2 год.	- 10 грн.
12 год.	- 11 грн.
13 год.	- 16 грн.
14 год.	- 21 грн.
24 год.	- 22 грн.

SEA Company is proud of a number of projects completed in Ukraine, Russia, Kazakhstan



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Hardware-and-Software Complex for Satellite Monitoring and Control of Vehicles and Other Mobile Objects



- Control of vehicles proper use
- Possibility to receive alarm messages to cellular phone;
- Possibility of free online monitoring;
- High accuracy and efficiency in monitoring of technical parameters and traffic parameters in online and offline modes;
- Generating a wide variety of reports for a selected period, including reports in MS Excel format;
- Possibility of remote vehicle-borne devices actuation.



GRYPHON MINI



GRYPHON MO1



GRYPHON PRO



GRYPHON MINI AE



CAR TRACK



GRYPHON MINI2



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***THANK YOU
FOR
ATTENTION!***

Our Contacts

