

EES Electronic Enforcement Systems

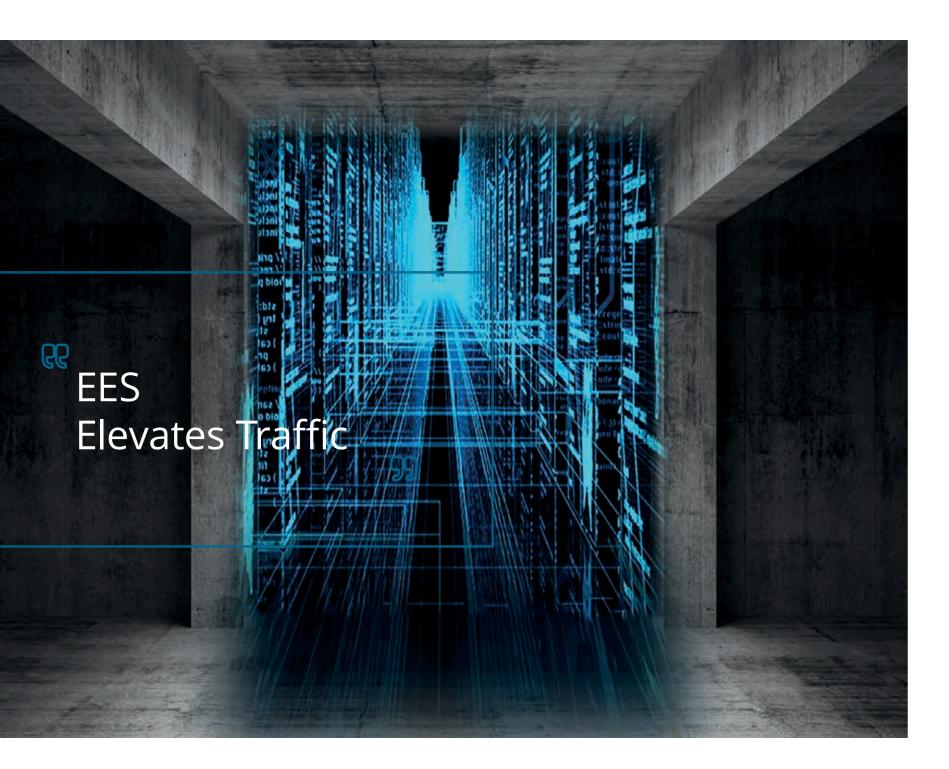




About Us

Founded in 2009, ISSD provides solutions to create added value in the field of intelligent transport. Its areas of expertise include traffic management, electronic applications and consulting services. With the slogan 'Complete Mobility Provider', ISSD contributes to mobility from A to Z by working for a greener, more efficient and accessible transport future in more than 5000 locations in 15 countries.

ISSD is located in METU Technopolis, Türkiye's most prestigious technology development zone. The company stands out from its competitors with its product portfolio, technical expertise, R&D capabilities and long-term customer relationships. ISSD's young and talented team is committed to creating value and aims to become a global leader by delivering this value to the world.



EES Electronic Enforcement Systems

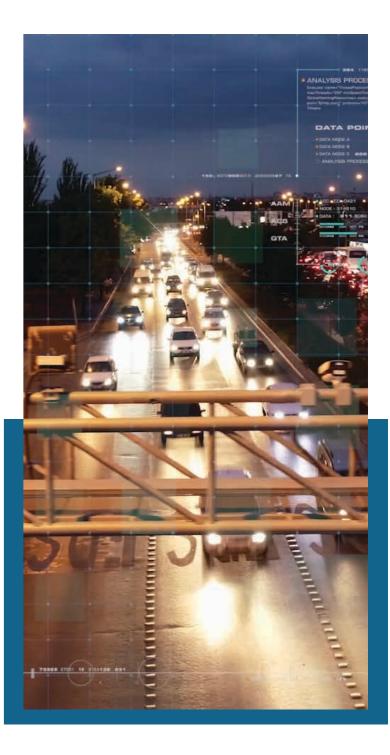
Traffic accidents, which increase as a result of rapidly growing vehicle ownership in our country, necessitate the use of electronic systems in traffic control.

Systems that are developed and designed by us;

- Automated Number Plate Recognition Systems
- Red Light Enforcement Systems
- Speed Corridor Enforcement Systems
- Parking Enforcement Systems
- Safety Line Enforcement Systems
- Mobile Enforcement Measurement and Detection Systems

are the basic elements of traffic enforcement.

Our systems are integrated into the POLNET system used by the General Directorate of Security and are available 24/7 under all weather conditions with 96% accuracy level.



Automated Number Plate Recognition System POINTR Moonlight, POINTR P3000

Automated Number Plate Recognition System allows the vehicle license plates to be read, stored and analyzed.

Automated Number Plate Recognition System

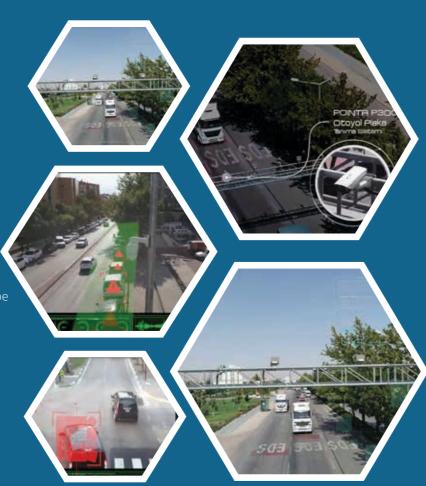
- Integrated License Plate Recognition System
- High Resolution Camera
- Continuing to work by keeping records in memory in network connection failures
- Night vision with IR Led
- IP 66, IK10 and NEMA 4x certified enclosure
- Ability to work 24/7
- Brand, type and color recognition
 Sending data to a central server via FTP
- Average speed violation detection with central software

Easy Operation, Easy Installation and Easy Integration

Highway Number Plate Recognition Systems in compact structures can be mounted on roads, bridges, highways and art structures.

Automated Number Plate Recognition System Applications

- Red Light Enforcement Systems
- Speed Corridor Enforcement Systems
- Parking Enforcement Systems
- Mobile Enforcement Systems
- Safety Lane Enforcement Systems
- Gauge Violation Detection Systems



Technical Specifications POINTR Moonlight, POINTR P3000

ЛS	Туре	Integrated License Plate Recognition System. All In One Unit (Camera, IR Source, OCR Proccessor Unit)								
System Specifications	Resolution			3 MP, 204	8 x 1536 CMOS Color Camera					
	Lens	Varifocal Lens (8mm ~ 50 mm)								
	Lighting	64 / 6 Pieces High Power Infrared Led, 850 nm (Moonlight / P3000)								
	Storage	128 GB SSD (Upgradeable to 512 GB)								
Sys	Video Format	2048x1546 30 FPS (H.264, H.265, MJPEG, MPEG4)								
Network .	Network	10/100 Base-T Ethernet (Ops. PoE)	_	Cooling/Heating	Included					
	Protocol	TCP/IP, UDP, HTTP, FTP, SMTP, NTP, DHCP, RTP	Environmental	Operating Humidity Ran	ge%0 ~ %90					
		Restrictable 1 ~ 100 Instant Transfer		Operating Temperature	-40 ~ +85					
	Instant Transfer	to Defined FTP Server	Envii	Sunroof	Included					
	Time Sync	NTP Server		Enclosure	IP66 / IK10 / NEMA 4X					
	Relay Output	Included		-						
SUC	Horizontal Recognition	4,2 Metre Included (Plate, System Name, Date, etc.)								
ANPR Specifications	License Plate Recognition	Plates with Non-Reflective Floor (Rectangular, Square)	Certificates	CE	Included LVD EN 61000					
ANPR S	Vehicle Recognition	96% Capture 96% Plate 80% Type 70% Brand 70% Color Accuracy Rate	Certif	Certification	EN 61000 EN 60950 EN 55016 EN 60068					
	Operating Voltage	24 VAC	JOL							
Power			Outdoor	Dimensions	164 x 132 x 404 mm (GxYxU)					
	Power Consumption	30 ~ 50 W		Weight	4.5 Kg					

Red Light Enforcement System POINTR K3000

Red Light Enforcement System POINTR K3000, detects vehicles committing red light violations. The system contributes to increased traffic safety by minimising accidents caused by violations at signalised intersections.

Red Light Enforcement Recognition Systems

- Integrated License Plate Recognition System
- High Resolution Camera
- Continuing to work by keeping records in memory in network connection failures
- Night vision with IR Led
- IP 66, IK10 and NEMA 4x certified enclosure
- Ability to work 24/7
- Sending data to a central server via FTP
- Wide Angle Vision Camera
- High Power Flash Unit
- Virtual loop

POINTR K3000 Capabilities

- Line–based red light violation detection
- Number plate recognition
- 24/7 operation
- Remote access
- Automatic standby in case of traffic signal malfunctions
- Ability to switch off the system from the centre when the traffic police manage the intersection
- High resolution video recording
- Automatic fine receipt arrangement

Red Light Enforcement System Day / Night

The images obtained from the Red Light Enforcement System and the processed data (location, license plate, vehicle brand, vehicle color, date and time of the enforcement) are automatically transmitted to PLATÜRK Software and fine receipts are automatically generated and presented to the operator's approval.





Technical Specifications Red Light Enforcement System

		Туре	
	SUI	Resolution	
	catio	Lens	
	ecifia	Lighting	
	n Sp	Storage	
	system Specifications	Video Format	
	01	Enforcement Camera Feature	
		Network	
	×	Protocol	TCP
	Network	Instant Transfer	
		Time Sync	
		Relay Output	
	S	Horizontal Recognition	
	'R ation	Photo Tagging	Ind
	ANPR	License Plate Recognition	
1	0)	Vehicle Recognition	
	(er	Operating Voltage	
	Powel	Power Consumption	

Integrated License Plate Recognition Sy	/stem. A	ll In One Unit (Camera, If	R Source, OCR Proccessor Unit)
		3 MP, 204	48 x 1536 CMOS Color Camera
			Varifocal Lens (8mm ~ 50 mm)
			620 nm
		128 GE	3 SSD (Upgradeable to 512 GB)
	1	2 MP 3000x4000 30 FPS	(H.264, H.265, MJPEG, MPEG4)
	1	2 MP 3000x4000 30 FPS	(H.264, H.265, MJPEG, MPEG4)
10/100 Base-T Ethernet (Ops. PoE)	_	Cooling/Heating	Included
P/IP, UDP, HTTP, FTP, SMTP, NTP, DHCP, RTP	Environmental	Operating Humidity Rar	nge%0 ~ %90
Restrictable 1 ~ 100 Instant Transfer	JUUO.	Operating Temperature	-40 ~ +85
to Defined FTP Server	Invir	Sunroof	Included
NTP Server		Enclosure	IP66 / IK10 / NEMA 4X
Included			
4,2 Metre		CE	Included
cluded (Plate, System Name, Date, etc.)	Certificates		LVD EN 61000
Plates with Non-Reflective Floor (Rectangular, Square)	Certi		EN 60950 EN 55016
96% Accuracy Rate	Ū	Certification	EN 60068 TS 13789
	_	_	
24 VAC	Outdoor Unit	Dimensions	164 x 132 x 404 mm (GxYxU)
30 ~ 50 W	U O N	Weight	4.5 Kg

Speed Corridor Enforcement System POINTR Moonlight, POINTR P3000

Speed Corridor Enforcement System calculates the average speeds of the vehicles between two specified points on the highways and detects the vehicles that violate the rules.

System Details

- Integrated License Plate Recognition System
- High Resolution Camera
- · Continuing to work by keeping records in memory in network connection failures
- Night vision with IR Led
- IP 66, IK10 and NEMA 4x certified enclosure
- Ability to work 24/7
- Brand, type and color recognition
- Sending data to a central server via FTP
- Average speed violation detection with central software

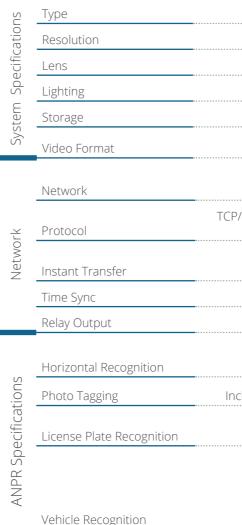


The Speed Corridor Enforcement System is comprised of number plate recognition units positioned at the entry and exit points of a designated corridor, along with central software that computes average speeds based on the collected number plate data. By measuring the travel time of vehicles from entry to exit and factoring in distance information, the system determines average speeds. Equipped with high-resolution cameras, it can detect vehicles on single or multi-lane roads, transmitting relevant details such as location, time, date, distance, direction, vehicle speed, and speed limit violations to a centralized software.

Unlike radar-based systems, this setup does not require calibration, and its emphasis on average speed enforcement aims to encourage compliance with speed limits across the entire route, contributing significantly to accident prevention resulting from excessive speed. The system also features safeguards such as audible warnings in the event of malfunctions or unauthorized interference.

Speed Corridor Enforcement System Features

- Remote control
- 24/7 speed enforcement
- High resolution photography of the offending vehicle and license plate identification
- Video recording with external camera



Technical Specifications

Wer	Operating Voltage
Pov	Power Consumption

Speed Corridor Enforcement System

Integrated License Plate Recognition Sy	stem. All I	n One Unit (Camera,	IR Source, OCR Proccessor Unit)					
3 MP, 2048 x 1536 CMOS Color Camera								
			Varifocal Lens (8mm ~ 50 mm)					
64 /	6 Pieces H	High Power Infrared L	ed, 850 nm (Moonlight / P3000)					
		128 G	B SSD (Upgradeable to 512 GB)					
		2048x1546 30 FPS	5 (H.264, H.265, MJPEG, MPEG4)					
10/100 Base-T Ethernet (Ops. PoE)	C	cooling/Heating	Included					
P/IP, UDP, HTTP, FTP, SMTP, NTP, DHCP, RTP	Environmental)perating Humidity Ra	ange %0 ~ %90					
Restrictable 1 ~ 100 Instant Transfer)perating Temperatur	-40 ~ +85					
to Defined FTP Server	Nvira	unroof	Included					
NTP Server			IP66 / IK10 / NEMA					
Included		nclosure	4X					
4,2 Metre								
cluded (Plate, System Name, Date, etc.)								
Plates with Non-Reflective Floor (Rectangular, Square)	S	CE	Included					
96% Capture	Certificates		LVD EN 61000					
96% Plate 80% Type	ertif		EN 60950 EN 55016					
70% Brand	Ŭ	Cartification	EN 60068					
70% Color Accuracy Rate		Certification	TS 13788					
	t	Dimensions						
24 VAC	Outdoor Unit	Dimensions	164 x 132 x 404 mm (GxYxU)					
30 ~ 50 W	0	Weight	4.5 Kg					

Parking Enforcement System POINTR P2000

The POINTR P2000 system is designed to mitigate parking violations by employing a high-resolution camera with Pan-Tilt-Zoom capabilities and an integrated image processing card. Operating within a 75-meter radius, the system continuously scans areas where parking is restricted, automatically identifying vehicles that exceed the predetermined parking duration limits set by the operator.

Upon detection of a violation, the system records the offending vehicle, determines the duration of the violation, and issues an automatic fine receipt when the violation surpasses the operator-defined threshold time. Additionally, the system's built-in IP camera captures pictures and video recordings of the vehicle during the violation, transmitting this evidence to the central system.

The Parking Enforcement System's processed data, including location, number plate, vehicle brand, color, and date/time of violation, is then forwarded to the PLATÜRK Software, where fine receipts are automatically generated for operator approval. This integrated approach aims to streamline the enforcement process and enhance parking compliance.

Parking Enforcement System Features

- Violation detection within a 75 metre radius
- Automated number plate recognition
- Remote access
- 32 Preset points violation detection
- High resolution video recording
- Automatic fine receipt issuance
- Quick setup

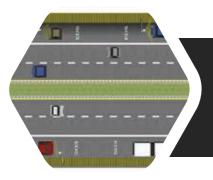


Technical Specifications Parking Enforcement System

	US	Туре	
	atio	Resolution	
	cific	Lens	
	Spe	Lighting	
	System Specifications	Storage	
	Sys	Video Format	
		Network	
	Network	Protocol	TCP
		Instant Transfer	
		Time Sync	
		Relay Output	
		Horizontal Recognition	
	ions	Photo Tagging	In
	ANPR Specifications	License Plate Recognition	
	ANPR S		
		Vehicle Recognition	
	Dower	Operating Voltage	
	РС	Power Consumption	

Integrated License Plate Recognition System. All In One Unit (Camera, IR Source, OCR Proccessor Unit)									
2 MP, 1920 x 1080 CMOS Color Kamera									
	Varifocal Lens (8mm ~ 50 mm)								
64	l / 6 Ade	t High Power Infrared Led	, 850 nm (Moonlight / P3000)						
		128 GB 9	SSD (Upgradeable to 512 GB)						
1920x1080 30 FPS (H.264, H.265, MJPEG, MPEG4)									
10/100 Base-T Ethernet (Ops. PoE)		Cooling/Heating	Included						
P/IP, UDP, HTTP, FTP, SMTP, NTP, DHCP, RTP		Operating Humidity Rang	ge %0 ~ %90						
Restrictable 1 ~ 100 Instant Transfer to Defined FTP Server	Environmenta	Operating Temperature	-40 ~ +85						
NTP Server	С Ш	Sunroof	Included						
Included		Enclosure	IP66 / IK10 / NEMA 4X						
4,2 Metre									
cluded (Plate, System Name, Date, etc.)									
Plates with Non-Reflective Floor (Rectangular, Square)	es	CE	Included						
96% Capture 96% Plate 80% Type 70% Brand	Certificates	Certification	LVD EN 61000 EN 60950 EN 55016 EN 60068						
70% Color Accuracy Rate									
24 VAC	Outdoor	Dimensions	164 x 132 x 404 mm (GxYxU)						
30 ~ 50 W	nO	Weight	4.5 Kg						

Safety Lane Enforcement System POINTR E3000



The Safety Lane Enforcement System is a system that allows the license plates of vehicles traveling in the safety lane to be read, stored and the data obtained to be analyzed. Safety Lane Enforcement System consists of image-based license plate recognition unit and central server applications. The license plate recognition unit contains a high resolution camera and embedded processor platform in an IP66 enclosure with built-in IR illumination unit.

The Safety Lane Enforcement System can detect the license plate, brand and color of vehicles 24/7 in all weather conditions. Thanks to the system, these data can be transferred to a desired remote center either wired or wirelessly.

Easy to Use, Easy Installation and Easy Integration It can be mounted on poles, bridges, highway structures.



Technical Specifications Safety Lane Enforcement Detection Systems

	SC	Туре	
	atio	Resolution	
	ecific	Lens	
	Spe	Lighting	
	System Specifications	Storage	
	Sys	Video Format	
		Network	
	Ķ	Protocol	TCP/
	Network	Instant Transfer	
		Time Sync	
		Relay Output	
	10	Horizontal Recognition	_
	tions	Photo Tagging	Incl
	pecisifications	License Plate Recognition	
	be		

Operating Voltage

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Power Consumption

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Integrated License Plate Recognition Sys	stem. A	ll In One Unit (Camera, IR	Source, OCR Proccessor Unit)	
		3 MP, 204	18 x 1536 CMOS Color Camera	
			Varifocal Lens (8mm ~ 50 mm)	
64 /	6 Piece	s High Power Infrared Le	d, 850 nm (Moonlight / P3000)	
		128 GE	SSD (Upgradeable to 512 GB)	
		2048x1546 30 FPS	(H.264, H.265, MJPEG, MPEG4)	
10/100 Base-T Ethernet (Ops. PoE)		Cooling/Heating	Included	
/IP, UDP, HTTP, FTP, SMTP, NTP, DHCP, RTP	ental	Operating Humidity Range	%0 ~ %90	
Restrictable 1 ~ 100 Instant Transfer to Defined FTP Server	Environmenta	Operating Tempera- ture	-40 ~ +85	
NTP Server	С Ш	Sunroof	Included	
Included		Enclosure	IP66 / IK10 / NEMA 4X	
4,2 Metre cluded (Plate, System Name, Date, etc.) Plates with Non-Reflective Floor (Rectangular, Square) 96% Capture 96% Plate 80% Type 70% Brand 70% Color Accuracy Rate	Certificates	CE Certification	Included LVD EN 61000 EN 60950 EN 55016 EN 60068	
24 VAC 30 ~ 50 W	Outdoor	Dimensions Weight	164 x 132 x 404 mm (GxYxU) 4.5 Kg	

Mobile Enforcement System POINTR-2M

POINTR-2M is used to detect situations such as parking, safety lane violations, stops that adversely affect the normal flow of traffic, to prevent possible accidents and to ensure road safety by controlling corridors and intersections through moving cameras.

POINTR-2M Features

- Full compliance with the General Directorate of Security's number plate recognition and EES filing, database table and column standards
- Automatic Information provision with the use of the POLNET vehicle query service



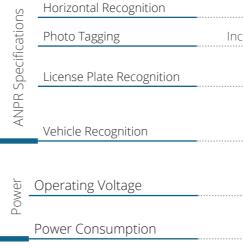


- HTML/HTML5 web interface
- Detailed archive query and reporting
- User management features
- Automatic fine receipt issuing and addition to the General Directorate of Safety's system
 Storage of fine receipts in PDF format
 Violation Detection Scheduling for EES violation detections

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Technical Specifications Mobile Enforcement System

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	atio	Resolution	
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	System Specifications	Storage	
_	Sys	Video Format	
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	Network	Instant Transfer	
		Time Sync	
		Relay Output	



Integrated License Plate Recognition Sy	/stem. A	All In	o One Unit (Camera, IR S	Source, OCR Proccessor Unit)		
			3 MP, 2048	x 1536 CMOS Color Camera		
			V	arifocal Lens (8mm ~ 50 mm)		
				850 nm		
			128 GB 5	SSD (Upgradeable to 512 GB)		
			20/8×15/6 30 EPS (F	H.264, H.265, MJPEG, MPEG4)		
			204071340 3011 3 (1	1.204, 11.203, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10		
10/100 Base-T Ethernet (Ops. PoE)	_	Сс	ooling/Heating	Included		
/IP, UDP, HTTP, FTP, SMTP, NTP, DHCP,	Environmental	Op	perating Humidity Rang	e %0 ~ %90		
RTP	muc	Op	perating Temperature	-40 ~ +85		
Restrictable 1 ~ 100 Instant Transfer to Defined FTP Server	invir	Su	Inroof	Included		
NTP Server		Er	nclosure	IP66 / IK10 / NEMA 4X		
Included						
4,2 Metre						
cluded (Plate, System Name, Date, etc.)		es	CE	Included		
Plates with Non-Reflective Floor		Certificates		LVD EN 61000		
(Rectangular, Square)		erti		EN 60950		
96% Capture		0	Certification	EN 55016 EN 60068		
96% Plate 70% Color Accuracy Rate						
24 VAC	Outdoor	nit	Dimensions	164 x 132 x 404 mm (GxYxU)		
	Out	\supset	Weight	4.5 Kg		
30 ~ 50 W			TTCIGITE	ул с. . -		

Imprint

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