

Transportation Solution

Onboard, Wayside, Stations Surveillance with Edge Al

2024 **H2**

Reliable Transportation Monitoring Systems

High-quality video monitoring is crucial for passenger safety in public transport. Onboard and wayside surveillance deter crime, enable quick reactions, and aid in post-event analysis. VIVOTEK offers certified products with specialized features for transportation projects. From AI-powered safety solutions to rugged cameras, our portfolio ensures comprehensive security. Combined with long-term support, our solutions are tailored for mass transportation needs.



Safe Transit: Public to Private Security

VIVOTEK ensures safety across all transportation modes, including public transit and private fleets, with tailored camera systems. Safeguard passenger safety and protect valuable assets with our diverse range of camera systems, customized to meet your specific needs.



AI-Powered Safety Solutions

Enhance safety with VIVOTEK's Al-driven surveillance, detecting irregularities like pantograph conditions and unattended luggage for proactive alerts. Utilize our intelligent transportation solutions to monitor seat zone occupancy and wheelchairs, ensuring a safer environment.





Real-Time Network Monitoring

Maximize your transportation network's efficiency with VIVOTEK's transportation solutions. Utilize real-time vehicle tracking, remote live footage access, and centralized data management to stay informed and maintain control, 24/7.



Integrated Security Solutions

VIVOTEK seamlessly integrates with existing systems, providing cost-effective solutions for maximum efficiency. Our solutions eliminate costly replacements, designed for interoperability, enhancing overall effectiveness.



Rugged Cameras for Modern Transportation

Designed for tough environments, VIVOTEK cameras ensure reliable performance in modern transportation. They withstand extreme temperatures, vibrations, and conditions for uninterrupted operation.



Long-term Product Support

With 20+ years of experience and a global partner network, VIVOTEK is your trusted companion for transportation security. We meticulously plan product life cycles with a long-term perspective, ensuring future compatibility and streamlined project maintenance.



Get On Board with VIVOTEK Transportation Solution



Onboard Surveillance Systems Dedicated for Rolling Stock



Light Rail & Bus

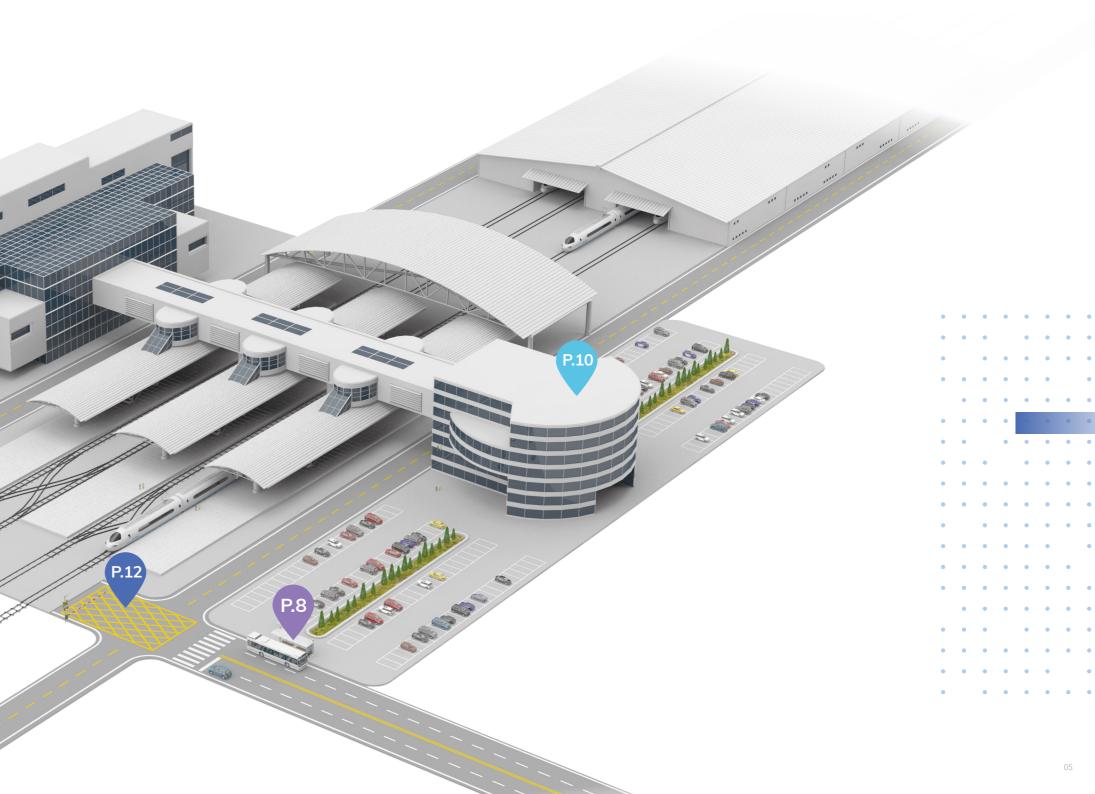
Onboard Surveillance Systems Dedicated for Light Rail & Bus

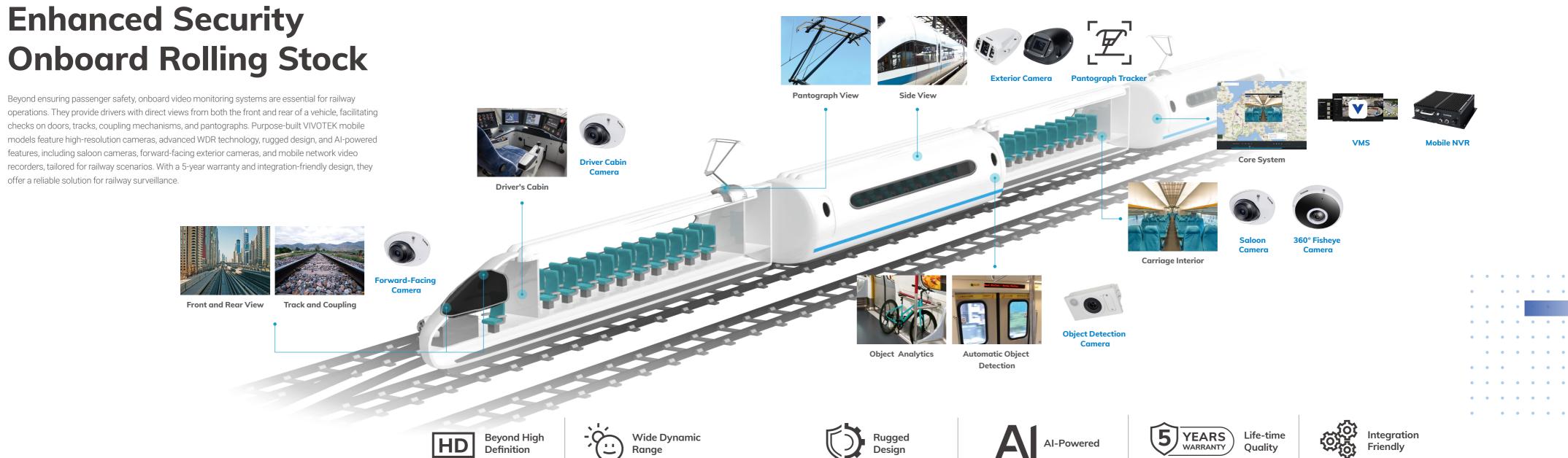


Surveillance Systems for Passenger Stations and Terminals



Monitoring Systems for Level Crossings and Wayside Infrastructure





Enhanced Security

operations. They provide drivers with direct views from both the front and rear of a vehicle, facilitating checks on doors, tracks, coupling mechanisms, and pantographs. Purpose-built VIVOTEK mobile models feature high-resolution cameras, advanced WDR technology, rugged design, and Al-powered features, including saloon cameras, forward-facing exterior cameras, and mobile network video recorders, tailored for railway scenarios. With a 5-year warranty and integration-friendly design, they offer a reliable solution for railway surveillance.



Wide Dynamic Range

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Effective Security for Buses and Trucks

VIVOTEK Transportation Solutions are versatile, suitable for deployment on various vehicles such as buses, trolleybuses, trucks, tankers, police cars, fire trucks, and ambulances. While high-resolution video monitoring ensures safety and situational awareness, additional features like passenger counting, GPS tracking, and occupancy detection enhance security and provide valuable passenger flow data. With advanced WDR technology and edge AI-powered analytics, our solutions offer clear footage and real-time insights. With a 5-year warranty and integration-friendly design, VIVOTEK provides reliable and future-proof solutions for optimizing route schedules and ticketing.







ject Detection Camera

AWA

NORTH EAST LOOP.

Object Analytics

Automatic Object Detection





360° Fisheye

Camera

Front and Rear View









Exterior Camera



Vehicle Interior





Camera

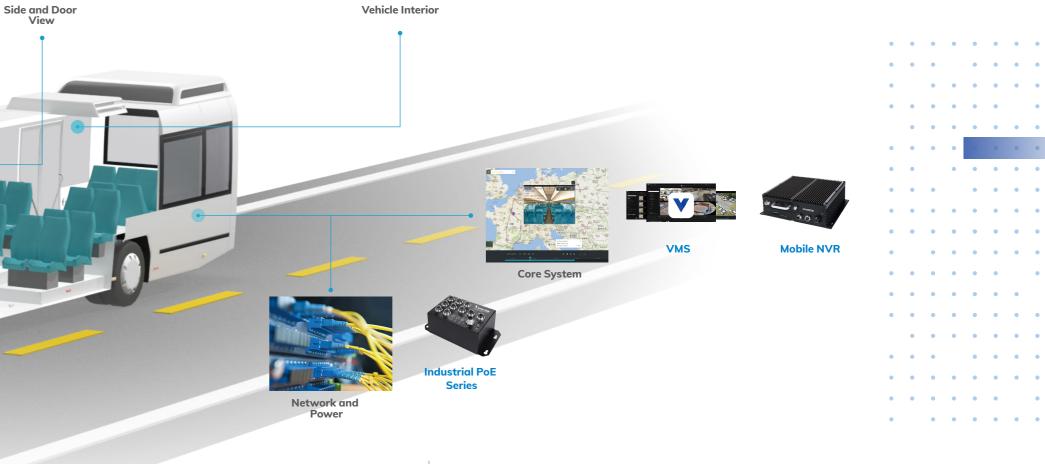


Camera



Occupancy Tracker

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Wide Dynamic Range





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Ensuring Passenger Safety at Stations and Bus Stop

A full spectrum of VIVOTEK's advanced monitoring and recording equipment efficiently secures every corner of transit area surroundings. Using a unified, integration-ready platform, high-resolution live feeds empower security staff to react immediately to any potential threats. Meanwhile, stored recordings allow for forensic post-incident analysis. Advanced edge analytics further enhance the system's capabilities, supplying valuable data for optimizing passenger flow and ensuring effective space allocation.







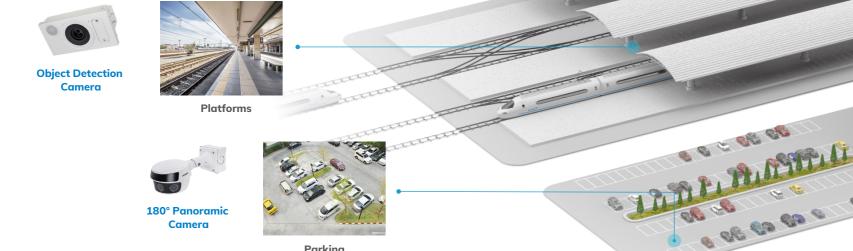
Camera

Dome Camera

Waiting Hall

Dome Camera





Parking







Control Room





Core+ AI NVR





Network and Power



Series





Network Camera

ATM **Digital Signage**







Entrance

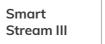
Camera



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Plugin for Milestone

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Keep a Keen Eye on **Rail Crossings and Infrastructure**

VIVOTEK Transportation Solution portfolio offers the ideal equipment to safeguard crucial railway assets, secure level crossings, and ensure proper monitoring of wayside areas. Our robust, outdoor-ready models, equipped with long-range zoom and IR illumination capabilities and supported by industrial-grade network equipment, provide efficient and reliable surveillance for any transport application.



Key Infrastructure







Monitoring Station



Core+ AI NVR





Perimeter





Rails





Level Crossing



Camera

360° Fishey Camera





Supreme Night Visibility



Image Stabilization





Digital Noise Reduction

Onboard Systems

	Product Lineup						
	Exterior Camera		Saloon Camera		360° Fisheye	Object Detection	
		ENE -			0		
Model	MD8564-EH/DEH-v2	MD9584-H	MD9582-H/ H(DMS)	MD9560-H/ DH	FE9391-EV-v2-M12	SC9133	
Camera Features							
Resolution	60 fps @ 1920x1080 30 fps @ 2560x1920	60 fps @ 1920x1080 30 fps @ 2560x1920	60 fps @ 1920x1080 30 fps @ 2560x1920	30 fps @ 1920x1080	30 fps @ 2816x2816	30 fps @ 1792x1792	
Max. Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams	3 Streams	
Mode	Day&Night, 45M IR	Day&Night, 50M IR	Day&Night 20M IR	Day&Night 20M IR	Day&Night 5M Invisible IR	Object Classification & Counting	
WDR Technology	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro	WDR Pro	
Housing	Metal, IK10+, IP6K9K, NEMA 4X	Metal, IK10+, IP6K9K, NEMA 4X	Metal, IK10, IP67, NEMA 4X	Metal, IK10, IP67, NEMA 4X	Metal, IK10, IP66, NEMA 4X	Metal, IK10, IP66	
Certifications	CE, FCC, EN50155, EN50121-3-2, EN61373, EN45545-2, ECE R10, ECE R118*						
Operating Temperature	-40°C ~ 70°C	-40°C - 70°C	-40°C - 70°C (IR Off) -40°C - 65°C (R on)	-25°C - 55°C	40°C - 70°C (IR Off) -40°C - 65°C (IR on)	-30°C - 60°C	
Power Input	PoE + DC (De-icing heater) [-EH] DC + DC (De-icing heater) [-DEH]	PoE + DC (De-icing)	PoE	PoE (-H) DC (-DH)	PoE, DC	PoE, DC	
Dimensions (mm)	242 x 162 x 82	120 x 180 x 59	98 x 54 x 110	98 x 54 x 110	Ø 160 x 62	140 x 76 x 42	



Wayside and Station Systems

		Product Lineup					
	Speed Dome	Panoramic	Multi-adjustable	License Plate Capture	Object Detection		
	VINOTEK						
Model	SD9161-H-v2/ SD9384-EHL	MS9390-EHV-v2/ MS9321-EHV-v2	MA9322-EHTVL	IP9165-LPC-v2 Kit	SC9133-RTL		
Camera Features							
Resolution	30 fps @ 1920x1080 (-61) 30 fps @ 2560x1920 (-84)	30 fps@4864x1632 (MS9390) 30 fps@7680x2560 (MS9321)	30 fps @2560x1440 (each lens)	60 fps @ 1920x1080	30 fps@ 1792x1792		
Max. Streams	4 Streams (-61) 3 Streams (-84)	3 Streams	2 Streams	3 Streams	3 Streams		
Mode	Day&Night (-61) Day&Night, 200M IR (-84)	Day&Night, 20M IR (MS9390) Day&Mght, 30M IR (MS9321)	Day&Night	Day&Night	Object Classification & Counting		
Zoom	10X (-61) 30X (-84)	-		-			
WDR Technology	WDR Pro	WDR Pro	WDR Pro	WDR Pro II	WDR Pro		
Housing	Metal (-61, -66) IK10, IP66, NEMA 4X (-84)	Metal, IK10, IP66	Metal, IK10, IP66	Metal, IK10, IP68	Metal, IK10, IP66		
Operating Temperature	-10°C - 55°C (-61) -40°C - 60°C (-84)	-20°C - 55°C (-MS9390) -40°C - 55°C (-MS9321)	-40°C - 50°C	-40°C - 60°C (with heater)	-30°C - 60°C		
Power Input	PoE, DC, AC	PoE (MS9390) PoE, AC (MS9321)	PoE, AC	DC, AC	PoE, DC		
Dimensions (mm)	Ø 172 x 157 (-61) Ø 256 x 336 (-84)	165x 112x100 (MS9390) Ø 110x210 (MS9321)	Ø 267x114	503 x 170 x 400	140 x 76 x 42		
			Product Lineup				
					morest		
Model	AT Cabinet Series	Industrial PoE S	eries N	ID/ NR Series	Low Lux Series (-65/91-v2)		
Camera Features							
Description	Outdoor Ready High Durability Tampering Alert Extension Modules	 Full Range of PoE Switc Managed and Unmanage Ethernet/SFP Connection Unique Management Fee 	shes 8CH to 1 ged Rack Mo	ge of Network Recorders 28CH, PoE Ports ount, Hot Swappable on with VAST Security Station	Various Form Factors Ultra Low Lux, 60 fps (-65-v2) 4K Resolution, 120 fps (-91-v2) Smart VCA Vision Object Analytics Trend Micro Security		

* For more detailed technical specifications, please refer to the general product brochure or visit VIVOTEK website. Specifications may change without notice.



A Trusted and Reliable Solution Provider of Transport Surveillance

VIVOTEK stands as a premium brand in the global security market, specializing in IP surveillance tailored for transportation applications. With offices and representatives globally, and robust partnerships with leading system integrators, VIVOTEK delivers timely project and technical support across a broad spectrum of transport-related applications.

VIVOTEK designs comprehensive security systems that encompass a specialized selection of onboard and wayside cameras, recording and network equipment, software platforms, and people-counting solutions. To date, a continually increasing number of global deployments underscore the aptness of VIVOTEK's solutions for applications such as rolling stock and motor vehicle onboard systems, passenger stations and terminals, level crossings, and wayside monitoring.











Poland Intercity Trains



Spain High Speed Trains



Italy Sicily Trains





Italy Intercity Coaches



Malaysia LRT Stations



South Korea Metro Trains



France City Trams



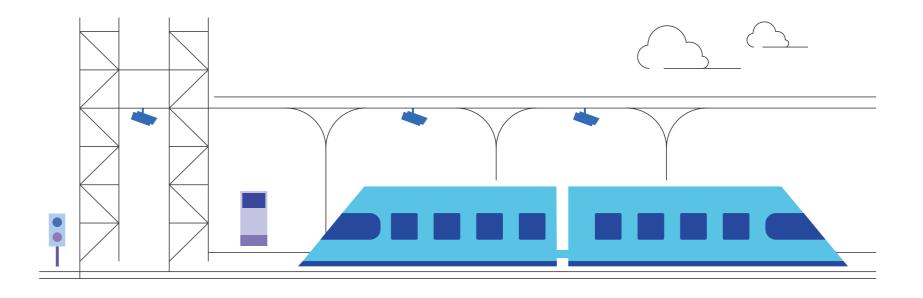
Australia Train Stations



Fire Trucks

Turkey







India Metro Trains



South Africa Freight Trains



Mexico Metro Trains



France Metro Stations



Czech Republic Municipal Trams



Taiwan Airport Skytrain



Brazil Light Rail



USA Freight Locomotives



Turkey City Trams



Thailand Metro Stations



Germany Local Trains



Poland Railway Crossings



Notes	Date:



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