VORTEX

VORTEX Cameras

By VIVOTEK

Key Features

- Essential and Premium series
- From 2 MP up to 12 MP resolution
- Crystal clear image quality
- Easy to install, with zero configuration
- Embedded AI analytics
- Onboard storage for up to 30 days
- Weather-proof and vandal-proof
- Subtle designs
- NDAA compliance

Overview

Award winning VORTEX network cameras are designed to work 24/7 for all surveillance requirements. Our camera portfolio offers a variety of form factors - domes, bullets, turret, and 360° fisheyes - providing a wide range of views from overviews to zoom for close-ups. Cloud-based features include hassle-free installation, zero-configuration, and automatic firmware updates, providing customers with a more convenient and streamlined user experience. Onboard AI analytics and storage enable accurate detection in real-time as well as recording objects of interest. Equipped with Smart IR, WDR, and advanced noise reduction technology, VORTEX cameras capture crystal clear video imagery at all times of day and night.

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Key Features

Wide Camera Selection

- Many variations for all situations
- From 2 MP up to 12 MP resolution
- Domes, bullets, turret, and 360° fisheyes

Hassle-Free, Zero Configuration

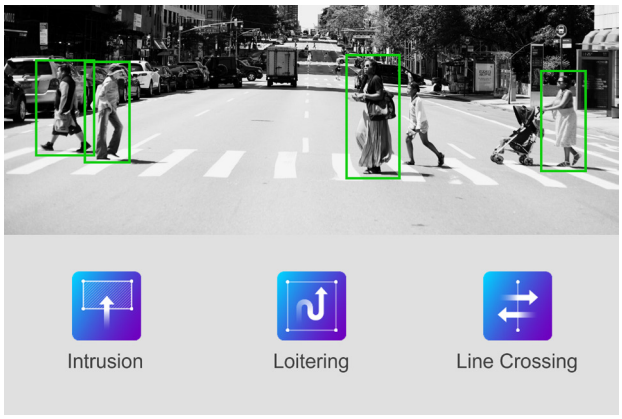
- QR codes for easy setup
- Automatic firmware updates

Crystal Clear Image Quality

- Smart IR enabled cameras for uniform, consistent night visibility
- WDR for improved images in high contrast lighting
- Advanced Noise Reduction

Onboard AI Analytics and Storage

- Intrusion, line-crossing, and loitering detection of people and vehicles
- Pre-installed SD card storage for up to 30 days recording
- Real-time notifications



Comprehensive Security Protection

- End-to-end encryption
- Video encryption
- HTTPS transmission from camera to the cloud

Trustworthy and Reliable

- IP66 / IK10 proof cameras for harsh environments
- 20+ years experience in IP surveillance

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VORTEX Camera Lineup and Video Analytics

VORTEX offers 2 series of cameras: Essential and Premium series.

Both Essential and Premium series VORTEX cameras are AI cameras with edge AI capabilities. Premium series cameras offer extended video analytics features.

Series	Model	Resolution	Indoor/Outdoor	Type	Lens
Essential	FD639	2MP	Outdoor	Dome	Fixed
	IB639	2MP	Outdoor	Bullet	Fixed
	FD819-H	5MP	Indoor	Dome	Fixed
	FD839-EHV	5MP	Outdoor	Dome	Fixed
	IB839-EH	5MP	Outdoor	Bullet	Fixed
	IT839-H	5MP	Outdoor	Turret	Fixed
	FD819-HT	5MP	Indoor	Dome	Zoom
	FD839-EHTV	5MP	Outdoor	Dome	Zoom
	IB839-EHT	5MP	Outdoor	Bullet	Zoom
Premium	FD837-HTV	5MP	Outdoor	Dome	Zoom
	IB837-HT	5MP	Outdoor	Bullet	Zoom
	FE912-H	12MP	Recessed	Fisheye	Fixed
	FE931-EHV	12MP	Outdoor	Fisheye	Fixed

		Essential	Premium
Live Event Detection	Object for detection	People	People and Vehicles
	Rules	Line Crossing Detection, Intrusion Detection, Loitering Detection	Line Crossing Detection, Intrusion Detection, Loitering Detection
Deep Search	Object for search	People or Vehicles	People or Vehicles
	Scene Search (Filter by rule)	Line Crossing, Intrusion, Loitering	Line Crossing, Intrusion, Loitering
	Attribute Search (Filter by appearances)	–	People Attributes: Gender / Age group / Upper body cloth color / Lower body cloth color / Accessories – Backpack and Hat
			Vehicle Attributes: Vehicle type / Color
	Re-Search (Person locator search)	–	Person Re-identification

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Dome and Turret

Technical Specifications

	FD639	FD819-H	IT839-H	FD839-EHV	FD819-HT	FD839-EHTV	FD837-HTV
Series	Essential						Premium
Resolution	2MP	5MP					
Image Sensor	1/3.1" CMOS	1/2.7" CMOS					1/2.8" CMOS
Lens Type	Fixed				Zoom		Zoom
Focal Length	f = 2.8 mm				f = 2.8~10 mm		F = 2.7~13.5 mm
F-number	F2.0				F1.8~F2.74		F1.4~F2.8
Field of View	116° (H)/ 165° (V)/ 140° (D)	103° (H)/ 76° (V)/ 134° (D)			95°~41° (H)/ 69°~31° (V)/ 127°~51° (D)		97°~27° (H)/ 70°~20° (V)/ 131°~34° (D)
IR Illuminators	30m						
Audio	One-way						Two-way
Pre-installed SD Card	128 GB	256 GB					
Indoor/ Outdoor	IP66/IK10	Indoor	IP66/IK10		Indoor	IP66/IK10	
Dimensions	Ø110 x 85 mm	Ø 130 x 95 mm	Ø 122 x 99 mm	Ø 129 x 94 mm	Ø 130 x 95 mm	Ø 129 x 94 mm	Ø 155 x 104 mm
Power Consumption	6.49W	6.3W	7.4W	8.55W	9.7W	12.3W	27W
Operating Temp	-30°C~50°C (-22°F~122°F)	-10°C~45°C (14°F~113°F)	-20°C~50°C (-4°F~122°F)	-40°C~50°C (-40°F~122°F)	-10°C~45°C (14°F~113°F)	-40°C~50°C (-40°F~122°F)	
Connectivity	10 Base-T/100 Base-TX Ethernet (RJ-45)						
WDR	WDR Enhanced	WDR Pro					
Video Analytics	Real time alerting: Intrusion / Line-Crossing / Loitering (People) Deep Search: Scene Search						Real time alerting: Intrusion / Line-Crossing / Loitering Deep Search: Attribute Search for People / Vehicles, Scene Search, Re-Search
Compliance	FCC/CE/UL/NDAA						

*FD639 2-axis design

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Bullet

Technical Specifications

	IB639	IB839-EH	IB839-EHT	IB837-HT
Series	Essential			Premium
Resolution	2MP	5MP		
Image Sensor	1/3.1" CMOS	1/2.7" CMOS		1/2.8" CMOS
Lens Type/ Focal Length/ F-number	Fixed		Zoom	Zoom
Focal Length	f = 2.8 mm		f = 2.9~10 mm	f = 2.7~13.5 mm
F-number	F2.0		F1.8 ~ F2.74	F1.4 ~ F2.8
Field of View	118° (H)/ 65° (V)/ 140° (D)	76° (H)/ 56° (V)/ 100° (D)	95°~41° (H)/ 69°~31° (V)/ 127°~51° (D)	97°~27° (H)/ 70°~20° (V)/ 131°~34° (D)
IR Illuminators	30m			
Audio	-			Two-way
Pre-installed SD Card	128 GB	256 GB		
Indoor/Outdoor	IP66/IK10			
Dimensions	Ø 91 x 182 mm	Ø 86 x 300 mm	Ø 88 x 308 mm	Ø 118 x 294.6 mm
Power Consumption	6.49W	11W	12.95W	36W
Operating Temp	-30°C~50°C (-22°F~122°F)	-40°C~50°C (-40°F~122°F)		-30°C~50°C (-40°F~122°F)
Connectivity	10 Base-T/100 Base-TX Ethernet (RJ-45)			
WDR	WDR Enhanced	WDR Pro		
Video Analytics	Real time alerting: Intrusion / Line-Crossing / Loitering (People) Deep Search: Scene Search			Real time alerting: Intrusion / Line-Crossing / Loitering Deep Search: Attribute Search for People / Vehicles, Scene Search, Re-Search
Compliance	FCC/CE/UL/NDAA			

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360° Fisheye

Technical Specifications

	FE912-H	FE931-EHV
Series	Premium	
Resolution	12MP	
Image Sensor	1/2.3" CMOS	
Lens Type	Fixed	
Focal Length	f = 1.22 mm	
F-number	F2.0	
Field of View	180° (H)/ 180° (V)/ 180° (D)	
IR Illuminators	-	20m
Audio	One-way Audio	Two-way
Pre-installed SD Card	512 GB	
Indoor/Outdoor	-	IP66/IK10
Dimensions	Ø 82 x 122 mm	Ø 150 x 68.2 mm
Power Consumption	9W	22.5W
Operating Temp	-10°C~50°C (14°F~122°F)	-40°C~50°C (-40°F~122°F)
Connectivity	10 Base-T/100 Base-TX Ethernet (RJ-45)	
WDR	WDR Pro	
Video Analytics	Real time alerting: Intrusion / Line-Crossing / Loitering Deep Search: Attribute Search for People / Vehicles, Scene Search, Re-Search	
Compliance	FCC/CE/UL/NDAA	

Cloud Licenses

A VORTEX cloud license is required to activate each camera and enable VORTEX services.

License Type	Cloud-based Feature	Annual Licensing Fee ($ USD)
Standard (one license / camera)	Unlimited Archive	$ 149 / year
Professional (one license / camera)	Unlimited Archive 30-day Backup	$199 / year

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