

# Nextiva

## Intelligent Edge Devices

Verint® offers the industry's most comprehensive array of intelligent edge devices designed to:

- Capture images virtually anywhere*
- Analyse images quickly, accurately, and cost effectively*
- Transmit images wherever they are needed*
- Perform reliably and efficiently in a wide range of applications and environments*
- Deliver actionable intelligence from an IT-friendly platform*

Fully integrated with the Nextiva™ portfolio of video solutions, these intelligent edge devices use Nextiva's centralised device administration, system-wide device monitoring, and intelligent video distribution to make security initiatives more manageable, proactive, and effective.

Available on-board analytics make sophisticated analytic technology practical and affordable for nearly every enterprise camera, with high-quality image analysis and lower network transport, storage, and server requirements.

And a versatile Software Development Kit facilitates integration with complementary security, business, and IT solutions.

**Nextiva Intelligent Edge Devices are an essential element of a successful security strategy. And Nextiva Intelligent Edge Devices are from Verint, the leader in networked video security solutions worldwide.**

# The Industry's Most Comprehensive PoE

Single-port and multi-port, wireline and wireless, indoor and outdoor

## Nextiva Single-Port Encoders and Decoders

Nextiva Intelligent Edge Devices are available for a variety of single-camera, indoor applications, with performance up to 4CIF, 25 FPS.

Nextiva single-port encoders provide dual-stream MPEG4/MJPEG video, with optional Power over Ethernet (PoE) and on-board analytics. All Nextiva single-port devices also include an RS-422/485 serial connection for PTZ support, one alarm input and one alarm output, SSL-based authentication, a noise reduction filter, bi-directional audio, and an extended temperature option.



S1900e	Compact, DVD-quality encoder with optional on-board analytics
S1950e	Compact, high-resolution encoder for affordable CCTV migration to enterprise IP networks
S1970e	DVD-quality encoder for optimal image quality, with optional PoE
S1970e-R	Compact decoder for delivering DVD-quality video to analogue monitors, with single, quad, or guard tour display

## Nextiva Wireless Edge Devices

Built specifically for real-world security applications, Nextiva wireless devices transmit images from virtually anywhere with a combination of features virtually unmatched in the industry.

Nextiva wireless edge devices support video transmission over license-free 2.4 and 5 GHz wireless bands and the 4.9 GHz US public safety band. Designed for outdoor use, they feature compact, weatherproof enclosures, auto-sensing serial ports for device connectivity, SSL-based authentication, AES encryption with rotating 128-bit key, and a unique protocol to overcome standard wireless limitations. By combining a multi-band-radio, encoder, and antenna in a single compact enclosure, these devices also speed deployment and reduce power and space requirements.



S1100	Video encoder/transmitter and receiver (two units) for point-to-point wireless applications, delivering MPEG-4 based video up to 4CIF, 25 FPS
S1100w	Video encoder/transmitter for point-to-point or point-to-multipoint wireless applications, with SSL-based authentication, 802.11a/g and WPA2 support, and dual-stream, MPEG-4 based video up to 4CIF, 25 FPS
S3100	Wireless access point for aggregating traffic from multiple S1100w devices in point-to-multipoint applications; includes PoE
S3100-RP	Wireless repeater for retransmitting signals from Nextiva wireless devices to a wired LAN in point-to-point or point-to-multipoint applications
S3100-BR	Two units that acts as a wireless bridge for transmitting analogue or IP camera images between two LANs in point-to-point or point-to-multipoint applications

# Intelligent Edge Device Portfolio

and outdoor, and analytics embedded – Only Verint offers all this.



## Nextiva Multi-Port Encoders

Nextiva features powerful encoders for multi-camera, indoor applications, with performance up to 4CIF, 25 FPS.

Nextiva multi-port encoders provide dual-stream MPEG-4 video, an RS-422/485 serial connection for PTZ support, 12 alarm inputs and 2 alarm outputs, SSL-based authentication, and a noise reduction filter. Optional on-board analytics and bi-directional audio are also available. Compactly designed, these devices fit in a 1U, 6-inch (15-cm) enclosure.

S1704e	4-port, DVD-quality encoder with optional bi-directional audio channel and optional on-board analytics
S1708e	8-port, DVD-quality encoder with optional bi-directional audio channel or 12 audio inputs and optional on-board analytics
S1712e	12-port, high-resolution encoder with optional bi-directional audio channel or 12 audio inputs
S1724e	24-port, high-resolution encoder with optional bi-directional audio channel



## Nextiva IP Cameras

Nextiva offers an array of IP cameras that address the challenges of indoor and outdoor applications.

Nextiva IP cameras feature low lux sensitivity, dual-stream MPEG4/MJPEG video, one alarm input and one alarm output, analogue video output, noise reduction, SSL-based authentication, and performance up to 4CIF, 25 FPS. 12VDC support or PoE comes standard with most models, and on-board analytics and extended temperature options are available.

S2600e	Super wide dynamic range (102dB) IP camera with software-programmable support for both interlaced and progressive scan video, plus optional on-board analytics
S2610e	Super wide dynamic range (102dB) IP camera designed for day-to-night use, with software-programmable support for both interlaced and progressive scan video, plus optional on-board analytics
S2700e	IP mini-dome camera for day-to-night use, built to deliver DVD-quality video in a variety of lighting conditions; features triple axis rotation system for flexible camera placement/adjustment
S2700e-VR	IP66 vandal-resistant, IP mini-dome camera with waterproof/dustproof housing designed to deliver DVD-quality video in indoor or outdoor, day-to-night applications; features triple axis rotation system for flexible camera placement/adjustment and optional extended temperature support

## Built to Meet the Challenges of Today's Distributed IP Networks

Standards based and RoHS compliant, Nextiva Intelligent Edge Devices are designed for high availability and easy interoperability with IT and enterprise systems.

Nextiva Intelligent Edge Devices facilitate migration to IP systems, enabling organisations to continue using their existing analogue equipment together with advanced IP-based video technology. They help optimise use of valuable network resources, with MPEG-4 video compression, dynamic bandwidth allocation, and dual streaming capabilities. They enhance operational efficiency and security effectiveness with embedded analytics and dynamic noise reduction filters. And, with the Verint Video Services over IP (VSIP) SDK, they can be readily integrated with disparate security systems and used in custom applications developed for specific purposes and environments.

Today, organisations across the globe rely on Nextiva Intelligent Edge Devices for their mission-critical security programs.

## The Nextiva Portfolio of Video Solutions

Nextiva is an integrated portfolio of networked video solutions for enhancing security and operational effectiveness. Nextiva enterprise and vertical market solutions address the needs of a wide range of industries, from banking and critical infrastructure to retail and mass transit. Nextiva wireline and wireless edge devices and embedded DVRs capture images from virtually any stationary or mobile location. Nextiva's advanced analytics rapidly detect events in vast amounts of video and enterprise data. And Nextiva's robust video management software, intelligent video distribution, and system-wide monitoring and diagnostics simplify management of large, geographically-distributed operations.

Open, standards based, and IT friendly, Nextiva solutions provide superior system availability, interoperability, and value.



## Verint. Powering Actionable Intelligence.®

Verint Systems Inc. is a leading global provider of analytic software-based solutions for security and business intelligence. Verint solutions help organisations make sense of the vast voice, video, and data available to them, transforming this information into actionable intelligence for better decisions and highly effective performance.

Since 1994, Verint has been committed to developing innovative solutions that help global organisations achieve their most important objectives. Today, organisations in over 50 countries use Verint solutions to enhance security, boost operational efficiency, and fuel profitability.

[marketing.emea@verint.com](mailto:marketing.emea@verint.com)  
+44(0)1932 839500

[www.verint.com](http://www.verint.com)  
241 Brooklands Road, Weybridge,  
Surrey, KT13 ORH, UK

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# Nextiva Video Analytics

Enhancing Security and Operational Effectiveness

Nextiva™ Analytics help organisations make sense of vast amounts of security video and data, generating actionable intelligence for better decisions and more effective action.

This powerful suite of analytic applications automatically pinpoints potential breaches and significant events and sends video alerts to the appropriate people and agencies. Nextiva Analytics enhance situational awareness and transform threat detection from a manual, resource-intensive operation to an efficient, accurate, and automated process. With Nextiva Analytics, security staff can focus on deterring and managing threats, rather than watching banks of video monitors trying to detect them.

Full integration with the Nextiva Enterprise video management platform virtually eliminates the operational issues associated with standalone analytic products. And Nextiva analytics-embedded edge devices analyse video at the point of capture, delivering timely intelligence with lower data transport and storage requirements, making analytics practical and cost effective for virtually every camera in the enterprise.

Plus, Nextiva Video Analytics are from Verint®, the leader in networked video solutions worldwide.

## A Powerful Suite of Integrated Analytic Applications

Nextiva Analytics feature:

**Rules-based object detection, classification, and tracking** for detecting suspicious activity in areas of interest and across tangible or virtual perimeters

**Real-world understanding** that intelligently applies scene- and object-specific analytic rules, factors in weather and lighting conditions, and uses ground vs. image plane analysis to determine an object's actual spatial location within a scene

**Real-time, contextual scene viewing** that lets operators view multiple camera feeds as a single scene and automatically applies scene-specific PTZ policies using camera settings

**Forensic analysis** for locating events and patterns in stored video, expediting investigations and making them more productive

## Analytics At the Edge for Superior Accuracy, Scalability, and Cost Effectiveness

Nextiva analytics-embedded edge devices apply sophisticated analytics to high-quality video in real time, making your cameras more intelligent, your analyses more accurate, and your alerts more timely. By eliminating the need to send all data to centralised servers for analysis, Nextiva analytics-embedded encoders and IP cameras reduce your data transport and storage requirements. Nextiva analytics "at the edge" can also dramatically increase the number of camera inputs per server, enabling you to expand your analytic capabilities with less equipment and at a lower cost.

## Nextiva Integration for Intelligent Alert Distribution and Highly Effective Operation

Nextiva Analytics are fully integrated with all Nextiva vertical market and video management solutions, virtually eliminating the deployment issues and operational costs associated with standalone analytic solutions. Video analytic rules can be easily created and rapidly applied within the video management environment. Alerts can be intelligently distributed practically anywhere, according to the security policies your organisation has in place. And operators and managers can instantly and easily view video alerts from Web browsers, network-connected PCs, and video walls — just as they would any other video.



Nextiva automatically identifies and classifies objects within a scene, like the man and the car in this video still.



Nextiva can automatically "see" when an exit is blocked.

# Nextiva Video Analytics Transform Video into Value



## 2. Seamless Interaction with All Nextiva Solutions

The Nextiva IntelliView Analytics Processor processes these rules and pushes them to your Nextiva Intelligent Edge Devices.



## 3. Analytics At the Edge

Nextiva analytics-embedded encoders and IP cameras capture and analyse video according to the rules your organisation has defined, and send video with alerts to the Nextiva IntelliView Analytics Processor.

## 1. Integrated Analytic Rules Definition

Security administrators use the intuitive Nextiva Analytics Rule Builder to create video analysis rules in line with your organisation's security policies.



## 4. Intelligent Alarm Distribution Anywhere Within the Video Management Environment

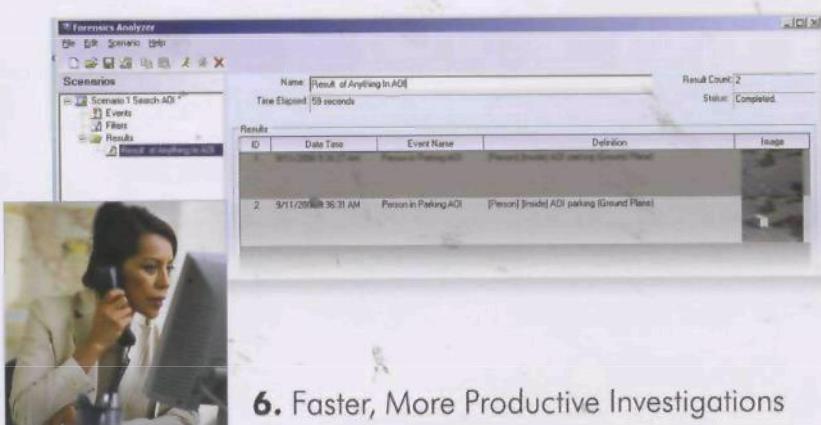
Nextiva automatically sends this video and data to network operations centres, emergency communications systems, security personnel, law enforcement agencies - virtually anywhere that your security policies direct.

Fully integrated with the Nextiva portfolio of video solutions, Nextiva policy-based event management and video distribut



## 5. Immediately View Alerts via a Unified, Rich User Interface

Using Nextiva Enterprise Review, authorised personnel can view alerts, video, and data from a networked PC or an Internet-connected PC with Web browser — just as they would view any other video.



## 6. Faster, More Productive Investigations

With the Nextiva Forensic Analyser, authorised staff can rapidly pinpoint past events, unusual activity, and significant behavioural patterns in stored video and data.

## Timely Intelligence for Mission-Critical Decisions

Nextiva access, direction, and behavioural analytics rapidly pinpoint suspicious behaviours and potentially dangerous situations: perimeter breaches, objects taken or left behind, people or vehicles loitering in sensitive areas, etc.

**Tangible and Virtual Perimeter Protection** enable single and double tripwires to be drawn and the threat level to be determined.

**Content-Based Viewing and Analysis** apply object- and scene-specific rules (or combinations of rules) to camera views.

**Automatic Object Acquisition** identifies suspicious activity.

**Automatic View Recognition** applies specific PTZ settings to specific camera views.

**Virtual PTZ Views** zoom in on specific objects without additional cameras.

**Forensic Analyser** pinpoints significant events and patterns in stored video.

## Integrated Analytics Leverage Nextiva Video Management Capabilities

**Nextiva Enterprise HealthCheck™** system-wide monitoring and diagnostics

**Nextiva Enterprise IntelliFlow™** rules-based video management engine

**Nextiva Enterprise IntelliStream™** virtual matrix video distribution

**Nextiva Enterprise Review** rich video viewing

**Nextiva Enterprise Map** interactive visual display of cameras and locations

**Nextiva Enterprise Investigation Management** for collecting event-related video, audio, and data in a searchable database

Finally, Nextiva Analytics leverage intelligent, distributed capabilities.

## The Nextiva Analytics Packages

Features and Capabilities	Nextiva Analytics Silver	Nextiva Analytics Gold	Nextiva Analytics Platinum
<b>Complete integration</b> with all Nextiva solutions and capabilities	■	■	■
<b>Edge device based</b> for lower infrastructure and operational costs	■	■	■
<b>Superior analytic accuracy</b> in: <ul data-bbox="163 572 856 662" style="list-style-type: none"> <li data-bbox="163 572 856 606">• Virtually all weather environments and day/night applications</li> <li data-bbox="163 617 856 662">• Scene change detection (including lights on/lights off)</li> </ul>	■	■	■
<b>Real-world understanding and accurate object detection</b> within areas of interest using ground vs. image plane analysis	■	■	■
<b>User-defined alert criteria</b> via definition of object minimum and maximum sizes and allowable percentage of change in size	■	■	■
<b>Moving object analysis:</b> classification of moving objects by type (people, vehicles, etc.) and object speed analysis	■	■	■
<b>Area of interest analysis</b> , including: <ul data-bbox="163 1066 775 1245" style="list-style-type: none"> <li data-bbox="163 1066 775 1100">• Moving objects that enter, exit, appear, or disappear</li> <li data-bbox="163 1133 775 1167">• Moving objects that are loitering</li> <li data-bbox="163 1201 775 1245">• Non-moving objects that are removed or left behind</li> </ul>	■	■	■
<b>Virtual perimeter analysis</b> to detect moving objects crossing: <ul data-bbox="163 1313 824 1448" style="list-style-type: none"> <li data-bbox="163 1313 824 1347">• A single virtual line in the field of view (Single Tripwire)</li> <li data-bbox="163 1358 824 1448">• Multiple virtual lines noting specific orders and directions (Double Tripwire)</li> </ul>	■	■	■
<b>Context-based viewing and analysis</b> with multiple, view-specific rules for PTZ camera pre-sets (Automatic View Recognition)	■	■	■
<b>Multiple rule combinations</b> for single views for greater flexibility in policy creation and analysis of complex scenes	■	■	■
<b>Nextiva Forensic Analyser</b> to rapidly detect patterns in stored video and retroactive rule creation and analysis	■	■	■

## Which Nextiva Analytics Package is For You?

**Nextiva Analytics Silver** is designed for organisations that seek sophisticated analytics capabilities, including the ability to detect and distinguish between people and other objects in specific areas, without the need for complex scene analysis.

**Nextiva Analytics Gold** is designed for organisations that require all of the capabilities of Nextiva Analytics Silver, plus the ability to detect perimeter breaches and other unusual activity through the use of virtual tripwires and different behavioural rules for different types of objects, such as people, cars, and trucks.

**Nextiva Analytics Platinum** is designed for highly security-sensitive organisations that require comprehensive behavioural monitoring of all objects in and around a location, including the chain of events preceding and following a breach.

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## Verint.

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Since 1994, Verint has been committed to developing innovative solutions that help global organisations achieve their most important objectives. Today, organisations in over 50 countries use Verint solutions to enhance security, boost operational efficiency, and fuel profitability.

marketing.emea@verint.com  
+44(0)1932 839500

www.verint.com  
241 Brooklands Road, Weybridge,  
Surrey, KT13 0RH, UK.

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