VIDEONETICS

the future of video computing

Making the world a safer, smarter, happier place

We are driven by innovation,
and committed to making the world
a safer, smarter, happier place

Video is an all-pervasive media data in the digital age, and with the widespread adoption of 5G communication, its volume is expected to grow exponentially. This makes it essential to systematically capture, store and distribute video data in a computationally efficient manner.

Only if we are able to generate accurate and meaningful information from video and other sensory data, in real time, does it become truly actionable. Today, it is possible to do this with minimum human intervention, thanks to Artificial Intelligence (AI) based Machine Learning (ML) techniques and advanced video computing algorithms.

Videonetics developed the world's first unified platform to manage video data – as well as other sensor-generated, multi-sensory data – in a single unified framework. This Unified Video Computing Platform™ is powered by our indigenously developed Artificial Intelligence (AI) and Convolutional Neural Network (CNN) based Deep Learning (DL) framework, which is trained with very large datasets, making our solutions incredibly robust, smart and computationally efficient. It also enables us to reliably detect and infer patterns in real time, and create deep situational awareness, so that you can make smarter decisions to enhance your operational excellence. Additionally, we have trained our system with large, diverse Indian datasets to provide best inferencing in complex scenarios.

#1 VMS provider in India

Among the **top** 5 in Asia

IHS Markit

IHS/ INFORMA TECH RESEARCH 2019

★ Global Awards ★

500 | Technology **Fast 500** **2018** APAC **WINNER**

**DELOITTE TECHNOLOGY
FAST 500 APAC - 2018**
Among the fastest growing technology
companies in Asia Pacific

IE20

**MAYOR OF LONDON AND
LONDON & PARTNERS - 2018**
Emerging Indian Enterprise
of the Year

★ OTHER PRESTIGIOUS AWARDS ★

**iNFHRA
WORKPLACE PARTNER
AWARD - 2020**
Best Video Management
System Company

**OUTSTANDING
SECURITY PERFORMANCE
AWARDS - 2020**
Outstanding
New Security Product

**NASSCOM TECHNOLOGY
EXCELLENCE
AWARD - 2019**
Rising Star
in AI & ML

**ET & STATISTA RESEARCH
INDIA'S GROWTH
CHAMPIONS - 2020**
Among the fastest growing
companies in India

**SOFTWARE
TECHNOLOGY
PARKS OF INDIA**
Export Award
- 2018-19

**SECONA
SHIELD AWARDS**
Innovative Product of the Year
- 2018, 2016
Best R&D Effort of the Year
- 2015

FSAI FIST AWARDS
Indian OEM of the Year
- 2019
Best Innovation in Security
- 2018

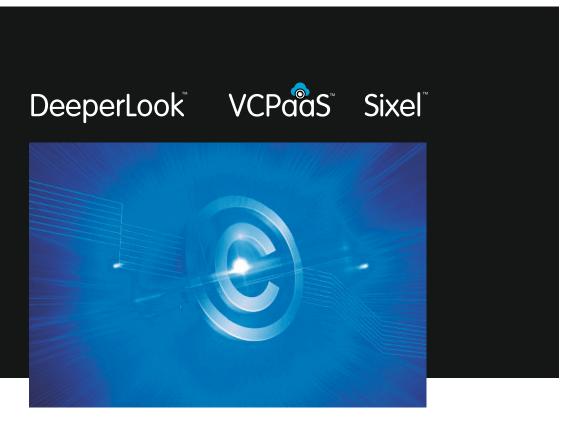**COMPUTER SOCIETY
OF INDIA**
IT Excellence Award
- 2020

**DELOITTE TECHNOLOGY
FAST 50 INDIA - 2018**
Fastest Growing
Technology Enterprise

Through its journey, Videonetics has won a host of prestigious awards from leading
Indian and global institutions for excellence in performance, innovative technology,
and industry leadership.

A pioneer in
video computing and
a technology leader

DeeperLook™   VCPaaS™   Sixel™

We bring to the table a long-term vision, leveraging our innovative and industry-leading technology that we have built ground up, to help customers achieve better return on investment. Our technology is based on a solid foundation of ground-breaking intellectual property portfolio.

Breakthrough technologies

- DeeperLook™: AI & DL powered video analytics with a single framework core and scalability.
- VCPaaS™: End-to-end video management and surveillance, as a subscription-based service.
- Sixel™: Going beyond video and pixel-based analytics, this technology unifies multiple sensory inputs such as pressure, temperature, pollution, humidity, social data, LiDAR, multi-spectral. Providing an unmatched level of rich, actionable intelligence.

Focus on Intellectual Property

Videonetics has a distinct organisational culture where everyone thrives on continuous innovation. Our technology foundation is aided with a rich and growing intellectual property portfolio including numerous patents granted in various countries – US, UK, Israel, Singapore, Canada and India.

Market leader across verticals

140+
cities secured

15k+
traffic lanes monitored

100+
large enterprises secured

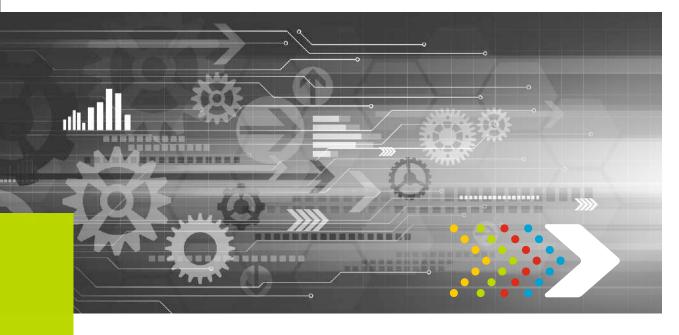**80+**
airports secured

100k+
cameras secured

Team Videonetics has a successful track record of supporting large field deployments, while always adhering to quality and time benchmarks, and being responsive to customer needs. From airports to IT hubs, from factories to malls, from smart cities to cloud services, Videonetics adds sense to surveillance, and ensures that the establishments people live and work in, run smoothly.

Exponential growth
and expanding
global footprint

According to Deloitte Technology Fast 500, Videonetics is one of the fastest growing tech companies in Asia Pacific, and as per Economic Times-Statista Growth Champions, it is among the fastest growing companies in India, across sectors. This growth is reflected in our 200% growth in CAGR in 3 years.

We have built a complete ecosystem of strategic partnerships with System Integrators, Consultants and OEMs, and support them with our high performance teams and world-class service, to ensure easy installation, maintenance and customisation.

With a network of 100+ partners across South Asia, Southeast Asia, Middle East, Africa and Europe, we are rapidly entering other markets as well, bringing us closer to our customers, regardless of their location.

Combining
global thought leadership
with entrepreneurial passion

Dr Tinku Acharya, FIEEE, FNAE, FIETE, FIE
Founder & Managing Director

An internationally acclaimed technologist, inventor and entrepreneur, Dr Acharya has held technology leadership positions across industries in the USA and India. He has also held academic positions in top institutions in these countries. He co-architected the first webcam from Intel, besides contributing to numerous other innovative technologies and products.

Dr Acharya has contributed to 160+ patents and authored 100+ research papers. He is the author of four technical books on image processing, JPEG 2000 standard for image compression, data mining, and information technology. These books are widely referred to globally, across both academia and industry.

A journey of growth and innovation

2008-10:
1st Gen IVMS and IVA

2010-12:
1st Gen ITMS
Video Précis

2012-14:
2nd Gen IVMS and IVA
Vconnect

2014-16:
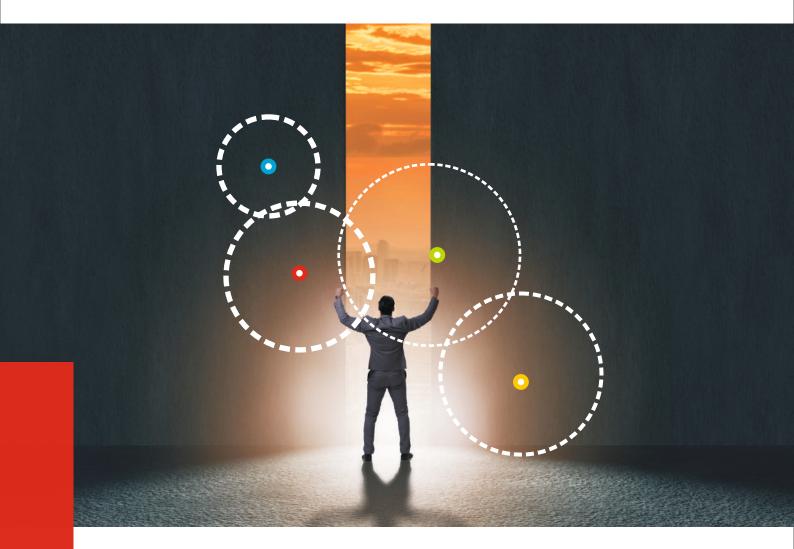AI & DL Framework
Unified Video Computing Platform™

2016-18:
AI based ITMS
Edge-to-Cloud Intelligence
Facial Recognition

2018-Present:
DeeperLook™
VCPaaS™
Sixel™
Video CCC

Providing an open, flexible, end-to-end solution for a wide range of applications

UNIFIED VIDEO COMPUTING PLATFORM (UVCP™)

Intelligent VMS

AI & DL Powered Video Analytics

Intelligent Traffic Management System

Facial Recognition

Video Command & Control Centre

VCPaaS™
Video Computing Platform as a Service

All our products and solutions are:

- Integrated yet modular
- Scalable and interoperable
- OS agnostic
- Browser agnostic
- Relational database agnostic
- Hardware agnostic (make and model, CPU/GPU)
- ONVIF profile compliant – S, G, T, Q
- Cloud-ready

The platform is based on the principle of green computing. Its small computational and memory footprint can substantially reduce both capital and total cost of ownership (TCO) for your video surveillance system, while improving its overall performance and reliability. Our platform and solutions are ISO 27001:2013 certified.
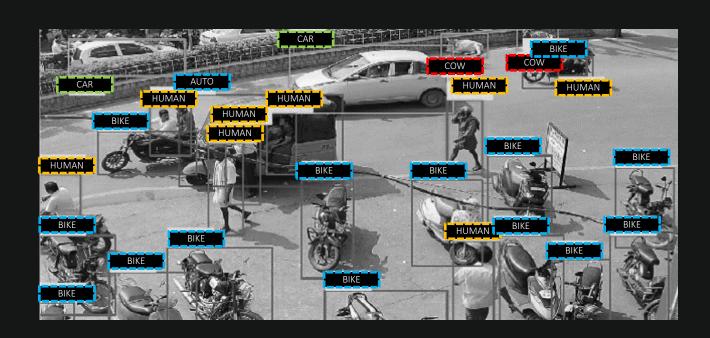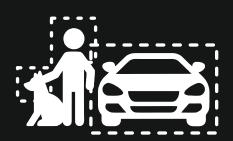
Intelligent
VMS

INTELLIGENT VMS

A hierarchical, distributed and modular enterprise-class video management software integrated with Intelligent Video Analytics framework. The underlying technology of the VMS is agnostic to any operating system (Windows, Linux, Unix, macOS etc.) and follows the principle of open architecture. Highly adaptable to customers' existing workflow and diverse environments, the software is also extremely simple to use and investigation-friendly. So you do not need much training, and can interact with the system using a very intuitive interface with minimum number of clicks.
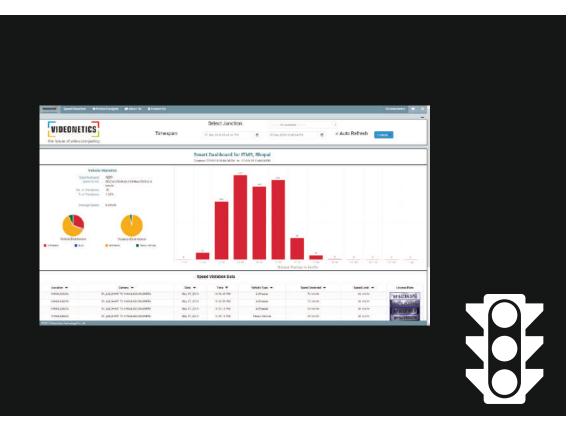
AI & DL Powered
Video Analytics

AI & DL POWERED VIDEO ANALYTICS

Our AI and DL powered Video Analytics framework (called DeeperLook™) automatically detects various types of patterns, features, intrinsic, objects, and events using a continuous self-learning mechanism from an ocean of video data. Based on this framework, we offer a series of applications for people monitoring, object monitoring, traffic monitoring, anomaly detection/ classification/ recognition.

Intelligent Traffic
Management System

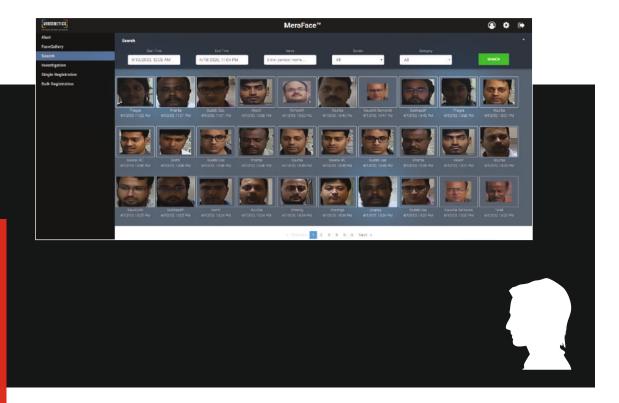## INTELLIGENT TRAFFIC MANAGEMENT SYSTEM (ITMS)

Our ITMS is designed and architected to replace tedious manual processes to track, analyse and regulate vehicle movement on roads, and automatically detect various types of violations to help enforce traffic rules for safety of citizens and their assets.

The ITMS suite includes automatic number plate recognition, red light violation detection, speed violation detection, no helmet detection, triple ride detection, no seat belt detection, detection of cell phone use while driving, free left turn block detection, wrong way vehicle movement detection, classification and count of vehicles, detection of black-listed and white-listed vehicles, vehicle-tracking in map, integrated e-Challan/ e-Ticket management software, smart ITMS dashboard, statistical analysis and smart data visualisation platform, among others.

Videonetics ITMS is one of its kind in the world, and all these features are enabled in the same computationally-efficient unified platform.

Facial Recognition

FACIAL RECOGNITION

Our Facial Recognition System is modern, robust and based on AI techniques for superior performance in various demographic conditions. The system is rigorously trained with a large database of faces, covering diverse demography with various features and skin colours. It is not biased with facial features of a particular demography and works well with facial features of Indian subcontinent as well. The architecture is highly modular and scalable and can handle a database more than 100 million face images.

The system is NIST listed and has been designed for diverse requirements – Access Control, Attendance Management, Retail, Hospitality, Law Enforcement, Border Security, Immigration, Security and Surveillance. The face recognition engine can be integrated with other devices (access control system, turnstiles etc.) over API. It uses anonymous face recognition to protect privacy while computing people analytics such as their visit history and description (by gender, age, ethnicity, time, location, etc.). The system works efficiently with images/ video having resolution as low as QCIF, and supports various video formats like JPEG, Motion JPEG, H.264 and H.265.

Video Command
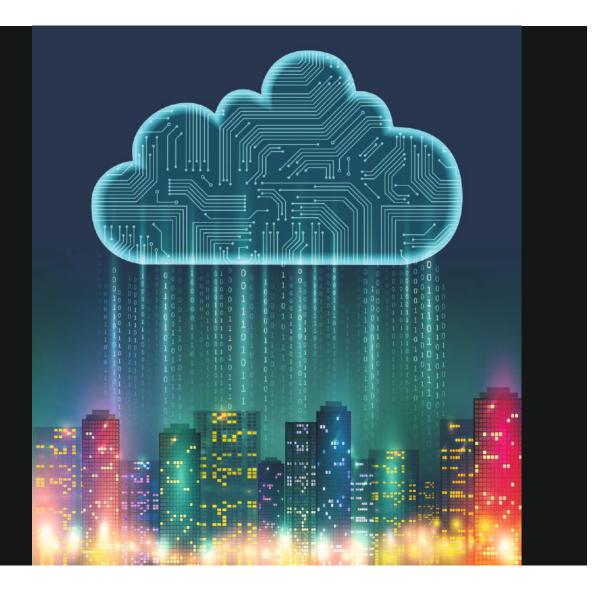# & Control Centre

VIDEO COMMAND & CONTROL CENTRE

Our indigenously developed Video Command & Control Centre offers a unified view of all sub-systems, and integration with Access Control System, Enterprise Resource Planning, Supervisory Control and Data Acquisition, Fire Alarm System, Terminal Automation System, among others. It also has a rich integration framework to integrate other sensory data. It comes with forensic and investigation tools, and enables external integrations/ communications with law enforcement agencies, emergency services and digital evidence management.

VCPaaS

Video Computing
Platform as a Service

VIDEO COMPUTING PLATFORM AS A SERVICE (VCPAAS™)

With VCPaaS™, users can enjoy video management and intelligent surveillance on the cloud, anytime, anywhere. The Intelligent Video Analytics framework is an integral part of the cloud stack. For the service providers, it offers a new and better business model, with its ongoing, subscription-based revenue stream. It is also cost-effective, secure and easy to maintain. For subscribers, it allows them to get started without having to invest in servers, and offers a wide choice of subscription plans. It comes with a mobile app to view, record, share video clips, rich insights from video analytics, and low bandwidth streaming.

The cloud stack is indigenously developed by Videonetics and is agnostic to any cloud provider. The software stack can be installed in any bare metal server in a data centre to create a private or public cloud, enabling cloud service for intelligent video surveillance and related applications.

Technical
Support
& Services

An ISO 9001:2015 certified company, Videonetics has put in place CRM-based quality assurance and issue resolution processes, to ensure a seamless experience across the customer journey:
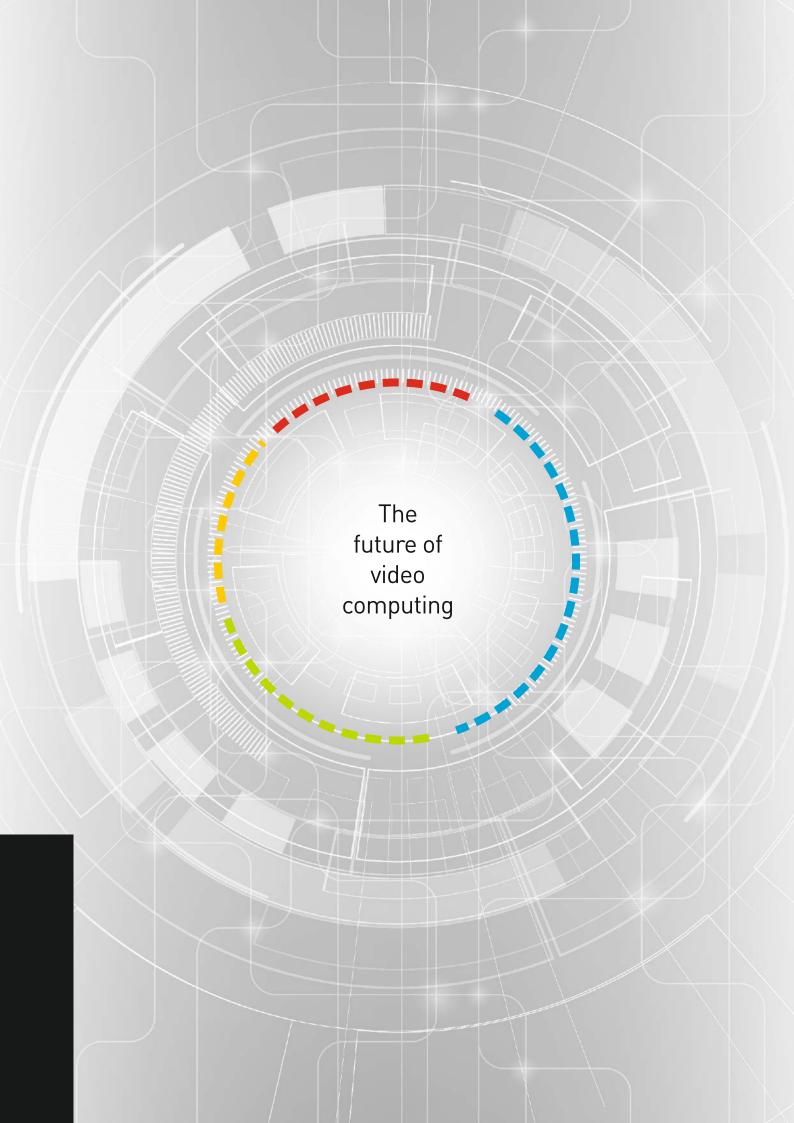
- Pre and post-sales support
  - Solution design, quote preparation, documentation
  - POC/ Demos, Dedicated Level 1 Help Desk, Level 2 Tech Support SME, Level 3 Engineering Support, Warranty & Post Warranty Support
  - User testing and validation
  - Subject Matter Expert to support System Integrator in going live with the project
  - Software delivery/ Upgrades/ Warranty/ Concerns handling, AMC

- Single view customer dashboard

- Training & certification, Knowledge base, Bulletins

- Product experience-cum-training centre

- World-class (LEAN) processes

Careers

Recognised for its transparent, flexible, merit-based culture, Videonetics is an exciting place for top-flight talent, providing unparalleled opportunity to do work that is inventive and innovative.

▪ Rapidly-growing company, for a rapid career growth
▪ Top talent hub, providing an opportunity to work with and learn from the best
▪ Transparent and fair value system, for a great work culture
▪ Invention-inspired vision, giving a platform to create real-life solutions

The
future of
video
computing

VIDEONETICS

the future of video computing

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