



SECURITY &SURVEILLANCE

Smart Cities

Presented by:

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ABOUT NORDEN

NORDEN IS A GLOBAL BRAND FOR SURVEILLANCE, SECURITY, CONNECTIVITY AND CABLING SOLUTIONS.



beginning

in 1998.



Mainly serves in Europe, the Middle management East, Africa, Pacific with Direct Presence in 18 Countries and Sales Operations in 26 Countries.

Has a quality system certified by Australia, and Asia- UKAS, operated by a dedicated quality assurance team.

Norden has received certification from UL, CE, FCC, ROHS. CCOE(PESO). IECEX, ATEX, Intertek (ETL), LPCB, and CPR Euro Classes, for its various products.

Specialised in offering surveillance solutions with NDAA Compliance.

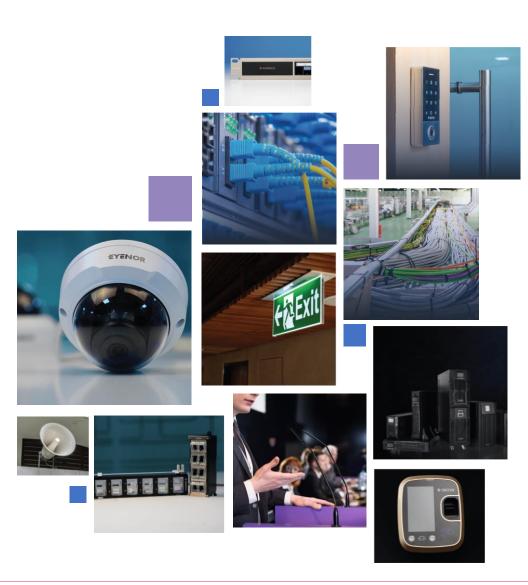
Other solutions provided includes Access Control Systems, Public Address Systems and Cabling Solutions.

Winner of the Network Middle East Award for many years.

► NORDEN®

PRODUCT RANGE

- Surveillance Systems (EyeNor)
- Public Address Systems (NVS)
- Access Control Systems (SecNor)
- Racks and Cabinets
- UPS Systems
- Fibre System (OptiNor)
- Copper System (DataNor)
- Data Centre Solution
- MPO/MTP Solutions
- Fire Resistant Cable
- Industrial Cable
- BMS Cable
- Coaxial Cables
- Instrumentation & Audio Cables
- Exit Sign Lights









Surveillance System in Smart City

Surveillance cameras have greatly reduced crime and worked to maintain the city's law and order in Smart City Projects. On most occasions, CCTV cameras installed in public places has helped the police department to prevent any mishaps and/ or identify evidence.

Surveillance System consists of

- Dome Cameras at ICCC
- Fixed Bullet / Box cameras at traffic signals and public places for general surveillance.
- PTZ cameras at public places which will have the Pan, Tilt and Zoom functions for Auto Tracking and Long Distance Monitoring.

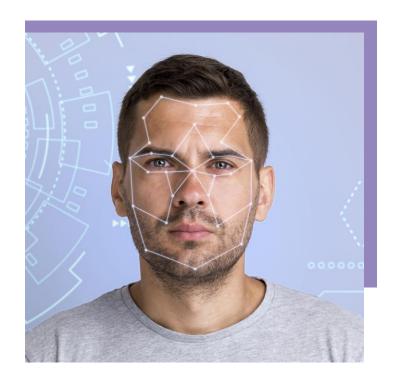




FRS (Face Recognition System)

Face Recognition

A Biometric method of identifying an individual by comparing live capture or digital image data with the stored record of that person. Facial Recognition systems are commonly used for security purposes but are increasingly being used in a variety of other applications.

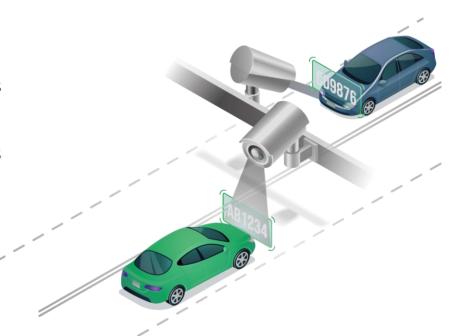






Automatic Number Plate Recognition

- A statutory requirement to capture all the vehicle numbers and keep them for future reference.
- Automatic Number Plate Recognition uses ANPR cameras and associated software. The numbers will be captured and kept in a database as images and OCR-based converted files.







Red Light Violation Detection

- A statutory requirement to capture all the vehicles which violate the red-light signals and keep them for future reference.
- ANPR cameras and associated RLVD software are used for Red Light Violation Detection. The vehicles and numbers will be captured and kept in a database as images and an OCRbased converted file

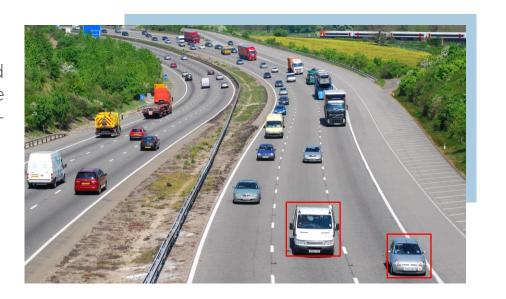






Speed Violation Detection

ANPR cameras and related SVD software are used for speed violation detection. The vehicles and number plates will be captured and stored in a database as images and an OCR-based converted file.







No Helmet Detection

No Helmet Detection is a system to detect people with/without helmets. No helmet detection technology removes manual intervention and brings transparency in the booking of violations, wherein a challan will be sent to the violator (without a helmet) by capturing the number plate of the vehicle and video clip of the violator.





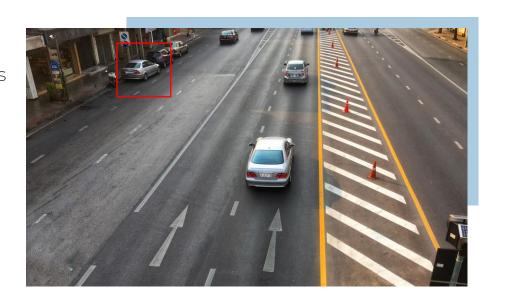


Illegal Parking Detection

Detects the vehicles parked by the roadside or in the areas where parking is prohibited.

The violations include:

- Overdue Parking
- Wrong parked vehicle
- Prohibited area parking





SURVEILLANCE SOLUTIONS



Specialized Products



4K Long Range Bullet Camera

- 8MP Resolution
- 5 to 50mm Motorized focal Length
- 100mtr IR
- NDAA Compliant



Box Camera

- 5MP/8MP Resolution
- NDAA Compliant
- Quad Stream with 2 streams at 1080P resolution



50X Laser PTZ Camera

- 2MP/4MP Resolution
- 50X Optical Zoom
- 500mtr Laser IR
- Dual 1080P Stream



SURVEILLANCE SOLUTIONS



Explosion & Corrosion Proof Cameras



Bullet Camera



PTZ Camera



Dome Camera

- 2MP / 5MP / 8MP Resolution Cameras
- 304/316L Stainless Steel Housing
- ATEX, IECEx, CCoE Certified
- Up to 200M IR Support
- Optional SFP Port

- 2MP / 4MP / 5MP Resolution Cameras
- 304/316L Stainless Steel Housing
- ATEX, IECEx, CCoE Certified
- Up to 200M IR Support
- Optional SFP Port

- 2MP/4MP/5MP Resolution Cameras
- 304/316L Stainless Steel Housing
- Up to 50M IR Support
- IK10 Support
- Optional SFP Port



SURVEILLANCE SOLUTIONS



Thermal Cameras



Bullet Camera

- 640×512 / 400×300 Thermal Resolution
- 15/25/35/50/75mm Thermal Lens
- PoE Support



PTZ Camera

- 2MP Visible Resolution Cameras
- 30X/32X/37X/60X Optical Zoom Lens
 400×300/256×192 Thermal Cameras
- 640×512 / 400×300 / 256×192 Thermal Resolution



Body Temperature Detection Camera

- 2MP Visible Resolution Cameras
- Resolution
- ± 0.3° C Accuracy

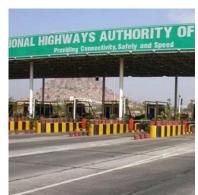




Projects delivered on Norden Products

- Food & Civil Supply Gujarat 6000 + IP Cameras & Passive Products.
- Varanasi Smart City 2400 + IP Cameras including & Fibre accessories.
- Knowledge Consortium of Gujarat (KCG) 1500 + IP Cameras & Passive Products.
- Noida ITMS 1400 +
- Trivandrum ITMS 1000+ IP Cameras
- National Highways Authority Of India 2600 + IP Cameras













Projects delivered on Norden Products

- General Services Group (Department of Atomic Energy, Chennai - IGCAR)
- Science and Technology Department, Gujarat.
- Gujarat University, Ahmedabad.
- BASF Catalysts India Pvt Ltd.
- Biocon Limited.
- Indian Oil Corporation Limited (IOCL)
- Bharat Petroleum Corporation Ltd (BPCL)
- The Oil and Natural Gas Corporation (ONGC)
- Hindustan Petroleum Corporation Ltd (HPCL)
- Engineers India Limited (EIL)
- Parco Institute of Medical Sciences
- Rail Coach Factory, Kapurthala

- NS Cooperative Hospital
- Multi Commodity Exchange of India Ltd, Mumbai
 - E-Health Kerala
 - Mumbai Airport and much more

































Public Address & Emergency Call Box Solution



Traffic Junction



Admin Building Conference Room









Public Address & Emergency Call Box Solution



Outdoor Audio Intercom



IP Wall-mount Video Intercom Terminal



Explosion-proof Video Intercom

- Outdoor type audio Intercom panel
- Strong anti-riot property & automatic door-covering technology
- Supports initiating and receiving offline intercom.
- User-defined quick call target to achieve one-click call.
- Explosion-proof intercom terminal, suitable for places that contain explosive gas and dust.





IP/SIP Speakers



IP/SIP PoE Horn Speaker



IP/SIP PoE Wall Mount Speaker



IP/SIP Column Speaker 30/60/120W

- Network-based design
- Supports SIP protocol
- Automatic Volume level control
- IP65 Protection

- Built-in digital signal processor
- Scheduled announcements
- In-built memory for storing prescheduled programs





Digital Conference System







Desktop Chairman Microphone



Desktop Delegate Microphone



HD PTZ Conference Camera

- Hand-in-hand loop connection method
- Conference modes are first-in first-out (FIFO), limitation of speaking, chairman only, time- limited speak mode.
- Conference audio recording function
- External Audio input
- Integration with online meeting platforms

- Microphones are of Tabletop structure
- 3.5mm stereo headphone jack for connecting headphones and the headphone volume is adjustable.
- Automatic Camera-tracking function
- Supports VISCA, PELCO-D, PELCO-P protocols.
- 2D and 3D noise reduction technology, results in clear image in low-light environment.



THANKS

