

Panoramic Video Surveillance System

Panoramic Surveillance with Unparalleled Control



**See Everything.
Be Everywhere.**





What today's surveillance systems cannot do

Despite advancements in camera technologies, there are still persistent limitations that plague city authorities.

Blind spots

- Though many cameras now let users pan, tilt and zoom, their field of coverage at any one moment is limited. Criminals can simply avoid the camera when it turns in their direction, leaving law enforcement officers to search in vain for video footage to connect a suspect to a scene.

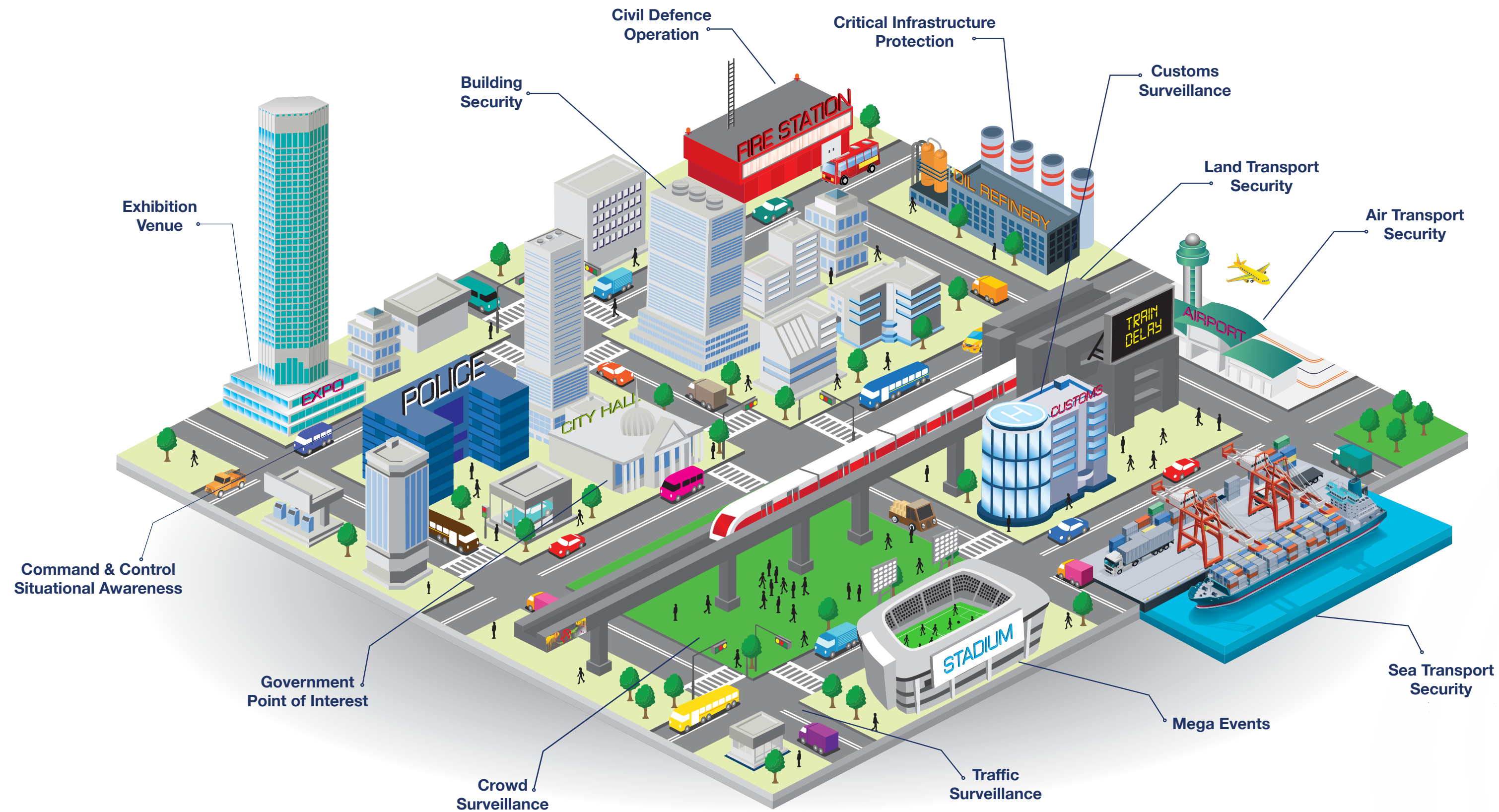
Inefficiency in set-up, synchronizing and sharing

- The installation of more cameras to provide a complete view of a location is unsightly, cumbersome and resource-heavy in terms of power usage.
- With multiple cameras recording from various angles, an operator has to “stitch” the footage together, expending valuable time in a fast-changing situation.
- The separate control of cameras by different government agencies results in silos of video pools residing with each agency; making sharing and collaboration a challenge.

Inflexibility of live footage

- Live recording has limited time-shift playback abilities.
- The multitude of video feeds from various cameras will end up flooding an information centre with too much raw unsynchronized data, revealing little actionable intelligence for leaders to make critical decisions.

PVSS the force multiplier in security



NEC's Panoramic Video Surveillance System (PVSS) is a state-of-the-art surveillance system that provides the latest in 2D/3D panoramic image capture, virtual reality, media processing, data management, user interaction and social media.

A revolutionary, end-to-end secure solution, PVSS streams HD surround video to an unlimited number of users with the ability to view, control and share unique views. PVSS offers customers the cutting edge surveillance capability for unprecedented command and control in protecting and securing critical assets and operational concerns.

Early detection of situations for preventive actions

- Enables users to pan, tilt and zoom interactively within a recorded or live video
 - Users have an 180-degree view of a situation where they can move their field of vision as if they are on site.
- Eradicates the tunnel vision of existing surveillance systems; the high-resolution undistorted images allow for accurate facial and object recognition and tracking.
- Native 3D format gives invaluable situation awareness to users, enabling them to remotely sense the environment in a deeply immersive way.

Enhanced traceability for investigative purposes

- Time-shift at will
 - Users can pause and change focus on any part of the footage while the video is still recording.
- Video file capable of sharing in real time or playback forensic mode with multiple users and agencies, achieve effective inter-agency collaboration.

Ease of installation for quick deployment

- Simple set-up
 - Two components; a camera unit and a main production engine box connected via fibre optic links.
 - The camera unit contains six pairs of cameras (12 in total) in a semi-circle shape to view the environment in an 180-degree arc. A second unit can be connected for a full 360-degree view of a location.
 - Footage shot in the camera unit is conveyed to the processing unit that automatically stitches all the video streams into a coherent panoramic view that is interactive to the user's controls.

PVSS the key to safer cities

With groundbreaking flexibility and panoramic visibility of a location unlike any video surveillance system in the market, PVSS makes cities safer.



Urban Surveillance

- From crowded city squares to large stadiums, a single PVSS set-up enables unprecedented visual access.
- Bundled with NEC's renowned NeoFace® Watch technology, PVSS provides users with facial recognition capability.



Defence

- PVSS augments military applications with panoramic capabilities.



Entertainment

- With PVSS in place, a live event in a stadium can be accompanied by personalized video replays of the happenings. Thanks to its "look anywhere" capabilities, an audience member can stream a video onto his smartphone and zoom in wherever he chooses.



Tourism

- PVSS elevates the virtual drive or walk through into the 3D realm, letting visitors look out in all directions within the locations.



- ▶ Citizen Services & Immigration Control ▶ Law Enforcement
- ▶ Critical Infrastructure Management ▶ Public Administration Services
- ▶ Information Management ▶ Emergency & Disaster Management ▶ Inter-Agency Collaboration

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