

NASBox

Nexus ANPR Smart Box

NASBox is a complete integration solution for Hikvision TCM and Series 7 ANPR cameras. It provides regulated power via PoE+ and an ethernet communications hub for up to 2 (NASBox2) or 4 (NASBox4) cameras. Since each camera can cover up to 3 lanes of traffic a single NASBox can provide support for large multi-lane installations.

NASBox automatically retrieves ANPR data and images in real time for every vehicle from each camera connected to it. This data can then be augmented (for example by the incorporation of GPS co-ordinates and the application of meta-data to images) before being transmitted to a wide range of back office systems using industry standard protocols such as UTM and BOF2.



NASBox provides a broad range of options for both wired and wireless communications to back office systems, including 3G, 4G, dual-band Wi-Fi and gigabit Ethernet. A GPS receiver is included as standard, which provides accurate location information for transmission with ANPR data and can optionally be used to provide accurate time sync. High performance antennas are internal to the box.

Smart Features

- Simultaneous transmission of ANPR results to multiple back office systems via different communications channels and using different protocols
- Automatic cropping of the camera image to provide overview images containing only the vehicle of interest, the area of the overview and the compression being configurable to achieve a range of image file sizes
- User configurable meta data can be applied to overview images including, for example, camera ID, timestamp, lat./long co-ordinates, vehicle registration
- Buffering of up to 100,000 vehicle records in the event of communications outages and automatic forwarding when communications are restored
- Image retrieval on demand (where supported by the back office) - images can be requested selectively for vehicles of interest, reducing comms data charges and back office storage requirements
- Streaming in real time or batching of data at configurable intervals
- Provides time synchronisation for all connected cameras, GPS and SNTP options
- De-duplication of camera plate reads to ensure only one plate read per vehicle is output
- Optional encrypted transmission of data and images (back office must support)
- NEWA (Nexus Engineers Workstation Application) user-friendly software tool included for NASBox configuration and setup via local or remote connections

