ARTECO LPR APP FOR WISENET X CAMERAS

Arteco LPR App is an application which can be installed on WISENET X Camera Series, allowing them to become license plate reading cameras. Through the combination of these leading technologies, organizations can gain new levels of insight through the automation of video monitoring processes to strengthen security, optimize operations and boost awareness.

PRODUCT FEATURES

- Proprietary OCR SW
- Plates list management: possibility to import and edit a list of license plates.
- Perspective and Rotation correction: possibility to set an image correction in order to help the application to read plates when the camera is not mounted in ideal position.
- Pixelometer: graphic tool that shows in real-time the height of the plates/characters, helping the installers to mount and configure the camera correctly.
- Plate color: possibility to set different plates standards (Dark text on light background, Light text on dark background, both light and dark text).
- Double line plates: possibility to enable/disable the detection of plates with numbers/letters split in 2 rows.
- Detection/non-detection Area: possibility to define up to 10 customizable areas (of detection or non-detection) in order to let the app read plates in specific spots and avoid false positives.
- Event filter: if enabled, this functionality allows to avoid multiple output triggers/notifications if a vehicle is stopped in front of the camera and its plate is read continuously.
- Filter management: enabling this feature it is possible to define a time-based reset, in seconds, of the previous filter in order to re-trigger the defined actions. Example: to re-open a gate after the defined seconds even if the same vehicle/plate is still stopped.
- Match accuracy: allows to set the number of possible mismatched characters tolerance in order to trigger the defined actions.

NOTIFICATION METHODS

Arteco LPR App can notify users in many different ways.

OUTPUTS	EVENT DETAIL
FTP	Snapshot + Metadata
Hanwha Wisenet TCP	Textual information of the plate (metadata)
TCP JSON Push	Textual information of the plate (metadata) + a hi-res snapshot of the scene + the cropped image of the plate.
TCP JSON Simple	Textual information of the plate (metadata)
E-mail	Snapshot + textual information (metadata)
Output	Triggers the on-board camera relay

Any of the above reported method can be set to send its notifications in one of the following condition:

- any read plates
- only read plates included in the plates List
- only read plates not included in the plates List

INTEGRATION WITH ARTECO AND THIRD PARTY SOLUTIONS

- Arteco NEXT VEMS : via Arteco LPR Plug-in (optional on Arteco eMotion, Active and Extreme)
- Arteco Easy Traffic: via FTP protocol
- Hanwha Samsung NVR/VMS: via Socket TCP protocol
- Third party solutions: via FTP or via JSON protocols

SCENE REQUIREMENTS	ROADWAY UP TO 90 KMH/55 MPH	ROADWAY UP TO 140 KMH/87 MPH
Minimum character height	20 pixels	20 pixels
Maximum plate angle (x and y)	20°	10°
Max tilt	3°	3°
Framerate	> 10 FPS	> 20 FPS
Max distance	Up to 25 meters (cars), up to 20 meters (motorcycles)	Up to 15 meters (cars), up to 12 meters (motorcycles)
Max height	Up to 4 meters	Up to 2.5 meters

The above reported information is based on tests made with the following equipment and conditions:

- Certified Wisenet X Cameras: XNB-6000* and XNO-6120R
- Rear italian plate standard size

** Lens: Fujinon 80mm zoom "DV10x8SR4A-SA1L"*

SUPPORTED LICENSE PLATES STANDARDS

- EUROPE: all countries
- NORTH AMERICA: all countries (implemented and/or tested: Texas, California, Missouri, Florida, New Jersey)
- LATIN&SOUTH AMERICA: all countries (implemented and/or tested: Mexico, Caribbean, Brazil, Argentina)
- ASIA: Indonesia, Mongolia, Philippines
- AFRICA: sub-saharian countries
- OCEANIA: Australia