Specification Sheet

MOBOTIX HUB LPR
2021 R2

MOBOTIX AG

Key features

Capture
- Compatible with all cameras supported by MOBOTIX HUB
- Multi-lane detection with a single camera

Recognition
- Scalable server-based recognition engine
- Supports more than 200 countries and states with dedicated optimized recognition algorithms (country modules), including full coverage for European region, US states, and Australian states.
- Generic country modules for selective regions, and generic worldwide module
- Includes an algorithm dedicated to eliminating partial detection of license plates and optimizing recognition with country modules

Match List Management
- Unrestricted number of match lists for correlation of recognized license plates (examples: employees, guests, stolen vehicles, priority customers)
- Supports custom data as complement to license plate information, such as owner details, driver name, type of vehicle

Monitor
- Track vehicles by viewing LPR events and related video
- Enable modular camera views where license plate recognition events can be displayed together with corresponding video
- Raise alarms based on match lists matching using the alarm management function in the MOBOTIX HUB Desk Client

Action
- Saves time by automating manual actions
- Events can be generated on actual recognition or match with a specific match list
- LPR events can for example control cameras, external peripherals such as parking barriers and gates or generate alarms

Investigate and Report
- The dedicated LPR tab in MOBOTIX HUB Desk Client provides extensive search capability to list recognized license plates events, related video and possible match list information
- Data drilling functions enables swift analysis of LPR events related to specific camera, vehicle identity, country or match list (for example stolen vehicles)
- Generate LPR reports with license plate information, video thumbnails of associated video, and a license plate close-up image

Integration
- MOBOTIX HUB LPR can propagate events to third party applications integrated via the MIP SDK with a wide range of application areas:
- Look-up of vehicles in central registers
- Feeding tracking-, payment- and statistical applications with license plate information

Integration options
- MOBOTIX HUB LPR can propagate events to third party applications integrated via the MIP SDK with a wide range of application areas:
- Look-up of vehicles in central registers
- Feeding tracking-, payment- and statistical applications with license plate information

Detailed Product Features

LPR Monitoring View Item

- A dedicated LPR monitor view item presents a combined camera view and an event list displaying recognized license plate information. The LPR monitor view item can be used in any MOBOTIX HUB Desk Client view
- The LPR event list provides real-time license plate information for the identified vehicle, including country (if dedicated country modules are used in the system), match with possible match lists, and complementary vehicle information defined as custom data in the match list
- LPR monitor view items can be used in independent playback in line with normal camera view items. In independent playback the event list with license plate information can be reviewed with the possibility to directly jump to a specific vehicle and playback recorded video from the associated camera
- A shortcut makes it possible select any vehicle identified in the LPR Monitor and get a listing of the specific license plate recognition events in the LPR tab

Match List

- Central and instant management of match lists across multiple LPR servers
- Supports an unrestricted number of match lists for correlation of recognized license plates (examples: employees, guests, stolen vehicles, priority customers)
- Supports up to five custom data fields per match list as complement to license plate information, which can be used for complementary inflation such as owner details, driver name, type of vehicle
- Match lists may be edited in the VMS or NVR management interface, or from the LPR tab in the MOBOTIX HUB Desk Client
- Import and export possibilities makes it easy to work with centrally managed external or off-line lists

LPR Tab

- A dedicated LPR tab provides overview of recognized license plates, and provides a link between the identified vehicle and the recorded video
- Extensive filtering functions on specific camera, vehicle identity, country or match list and time, make investigations easy with wide possibilities for analysis and data drilling
- Immediate access to related video, makes it possible to instantly review recorded video related to any identified vehicle
- Detailed and more extensive investigations of specific events can be done by launching a full playback window with time navigation for the given event. This also makes it possible to include additional cameras in the investigation and produce evidence material easily for a given event
- Built in reporting support makes it easy document recognized vehicles based on the data analysis in the LPR event list. The report is generated as a pdf report, and includes license plate and possible match list details, a video thumbnail and a close-up of the recognized license plate
- Desk Client users can manage LPR match lists from the LPR tab

Integration with MOBOTIX HUB Desk Client functions

- MOBOTIX HUB LPR is seamlessly integrated with the MOBOTIX HUB Desk Client, where the availability of the MOBOTIX HUB LPR application tab can be controlled centrally for individual users
- Events from the recognition of an individual license plate, or a match with a match list, can be used can be used to generate alarms in the alarm manager
- In the MOBOTIX HUB Advanced VMS products, the events are available for the rule engine and can hence trigger any action, including control of external peripherals

Recognition

- Scalable server-based recognition engine, where an unrestricted number of LPR servers can be used
- Supports more than 200 countries and states with dedicated optimized recognition algorithms (country modules), including full coverage for European region, US states, and Australian states.
- Generic country modules for selective regions, and generic worldwide module

- Any combination of country modules may be activated in a system, given that the licensed number of concurrent active country modules is not exceeded
- For complete list of supported countries and license plate styles, please refer to MOBOTIX website

Configuration and administration

- Configuration and administration of MOBOTIX HUB LPR is made as an integral part of the management interface of the MOBOTIX HUB VMS system
- Intuitive configuration wizard supports the system administrator through all configuration steps and provides recommendations to configuration settings.
- Snapshot driven configuration and optimization of the recognition algorithms for high recognition accuracy and optimal system performance
- Automatic validation of configuration settings against the snapshot series, where the confidence level for each license plate reading is presented and the accuracy can be confirmed by the administrator
- Possibility to import already captured snapshot series
- Access to advanced configuration settings, with the ability to verify any change against the snapshot

System Components

- LPR Server
  Runs the license plate recognition engine
- LPR Plugin for Event Server
  Generates of recognition events based on license plate match lists
- LPR Plugin for Management Client/Application
  Configuration of the MOBOTIX HUB LPR system
- LPR Plugin for MOBOTIX HUB Smart Client
  Operational presentation layer

Miscellaneous

MOBOTIX HUB LPR 2021 R2 system requirements
The minimum system requirements for MOBOTIX HUB LPR servers running the license plate recognition logic follow the requirements for MOBOTIX HUB, which are available on the MOBOTIX website:
https://www.mobotix.com/sites/default/files/2021-09/Mx_TS_SystemRequirements_MxHUB_V1-01_en_20210927.pdf
As the system requirements for the license plate recognition logic is processor intensive, and varies significantly dependent on the environmental conditions, camera settings and other parameters, MOBOTIX recommends anyone installing MOBOTIX HUB LPR to study the guidelines in the Administrator's Guide first.

Supported languages
The operator interface of MOBOTIX HUB LPR is localized to the same languages as MOBOTIX HUB Desk Client. The management interface is localized to the same languages as the MOBOTIX video management software product that MOBOTIX HUB LPR is being used with.

Supported MOBOTIX products
MOBOTIX HUB LPR 2021 R2 is a MOBOTIX HUB add-on product compatible with all MOBOTIX HUB Versions except MOBOTIX HUB L1.

To benefit from the full functionality of MOBOTIX HUB LPR 2021 R2, the latest release of the following products should be used:

- MOBOTIX HUB L5 2021 R2
- MOBOTIX HUB L4 2021 R2
- MOBOTIX HUB L3 2021 R2
- MOBOTIX HUB L2 2021 R2

Licensing Structure
MOBOTIX HUB LPR 2021 R2 is licensed through three different licenses, and follows the same principal licensing scheme as earlier versions of the product:

MOBOTIX HUB LPR Base License
The MOBOTIX HUB LPR Base License unlocks the full license plate recognition functionality for a single MOBOTIX HUB VMS system, allowing an unrestricted number of MOBOTIX HUB Desk Clients and MOBOTIX HUB LPR servers to be installed on the given VMS.

MOBOTIX HUB LPR Camera License
One MOBOTIX HUB LPR Camera License is needed per camera stream on which the license plate recognition functionality is to be applied. The MOBOTIX HUB LPR Camera License is needed in addition to the device license in the MOBOTIX HUB VMS.

MOBOTIX HUB LPR Country Module License

The MOBOTIX LPR Country Module License controls how many different recognition modules that can be active in the system simultaneously. Any combination of the more than 200 generic and country optimized modules can be used. The MOBOTIX HUB LPR Base License includes five country modules, and additional country modules can be purchased individually via the MOBOTIX HUB LPR Country Module License.

Intelligent Video Security Solutions

MOBOTIX offers a comprehensive range of solutions for all aspects of video-based security systems. We develop high-quality, decentralized, energy-efficient systems that mean our customers save money on every MOBOTIX system installed.

Our motto BeyondHumanVision is also our mission: MOBOTIX is fully committed to making itself the most reliable company it can be, one that protects people and property by using intelligent, cyber-secure video technology to go beyond human vision.

MOBOTIX
BeyondHumanVision