

# GUSTAV MINI

MADE FOR SMART CITY & INDUSTRIAL APPLICATIONS



Preferred  
Partner



## ABOUT

GUSTAV Mini GMSL serie was developed to operate in the smallest environments. Whether it's robot control, machinery, or in-vehicle camera control, the goal of the GUSTAV Mini GMSL was to save space while maintaining the highest standards. The system delivers up to 100 TOPS, with up to 1 till 4 terabytes of SSD. It is ideal for specific computer vision tasks where cable security and cameras with high IP protection need to be connected. However, standard connections such as network interfaces, USB2, and a UART for debugging without the need for an HDMI or external monitor are also integrated.

This allows for fast troubleshooting with any monitor. Through the REBOTNIX SDK, you receive a complete system with GMSL drivers. Currently, the GMSL2 system supports the following cameras: D3 Embedded, Stereolabs ZedX, ECON20, ECON21 and TIERIV. Additional camera integrations can be supported.



## FLAWLESS CAMERA INTEGRATION

The GMSL standard is used, among other things, in the automotive sector. The reliability of the cameras and the ability to use up to 15 meters of cable make GMSL the optimal choice for deployment.

GUSTAV Mini GMSL integration is a ready-to-go package, where all camera drivers are optimally tuned to the hardware. This requires close collaboration with leading camera manufacturers, with REBOTNIX handling the porting of drivers to the latest NVIDIA Jetpack themselves.

# GUSTAV MINI

## SUPPORTS A WIDE RANGE OF GMSL CAMERAS



StereoLabs\*

D3 Embedded

TIER IV



## GUSTAV MINI - 2 CHANNEL GMSL

PROPERTY	INFO	INFO
<b>SKU</b>	RB_GM2CHGMSLO16 (16 GB)	RB_GM2CHGMSLO8 ( 8 GB)
<b>GPU</b>	ORIN NX 8GB / 16GB	8GB (70 TOPS) / 16GB (100 TOPS)
<b>GMSL</b>	2 x GMSL2 Camera inputs	GMSL 2 STANDARD
<b>NETWORK</b>	1 x 1000 MBIT	M12 Connector
<b>USB</b>	1 x 2.0 USB	-
<b>OPERATING</b>	-20°C to +88°C -4°F bis 190,4°F	CELSIUS FAHRENHEIT
<b>CASE</b>	FULL ALUMINIUM BLOCK	FOR PASSIVE AND ACTIVE COOLING
<b>DISPLAY</b>	HEADLESS (NO DISPLAY OR HDMI)	UART MINICOM SERVICE BOX FOR DEBUGGING AND CONFIGURATION
<b>POWERING</b>	+9V to +60V	DC (+12V to +48V DC Nom.)
<b>DIGITAL IO</b>	DIO 1 DIO 2	-
<b>WEIGHT</b>	540g	WITHOUT POWER SUPPLY UNIT
<b>SECURITY</b>	INTERNAL HARDWARE CRYPTO CHIP	INCLUDED
<b>STORAGE</b>	M2 SSD (INTERNAL)	1 TB SSD (internal)

## GMSL CAMERA SUPPORT

PROPERTY	SPECIFICATION	INFO
<b>D3 EMBEDDED</b>	GMSL	AR0234
<b>STEREOLABS</b>	ZEDX* SERIE	ZEDX & ZEDX MINI
<b>TIER IV</b>	GMSL	C1 & C2
<b>ECON</b>	GMSL	SturdeCAM20

\*ZED PLEASE NOTE THAT WE IMPLEMENT THE V4L AND ARGUS CAM THAT ENABLES BOTH CAM. CAUSE GUSTAV MINI IS A HEADLESS SYSTEM AND STEREO LABS REQUIRES AN ALWAYS HDMI OR SCREEN CONNECTED, YOU CANT USE THE API FROM THE ZEDX SDK.

PLEASE NOTE THAT YOU CAN CONNECT ONLY ONE TYPE OF GMSL ON THE 2 PORTS. FOR EXAMPLE 2 X D3 CAMERAS ON GMSL PORT 1 AND 2.

**D3 Embedded StereoLabs\* TIER IV**



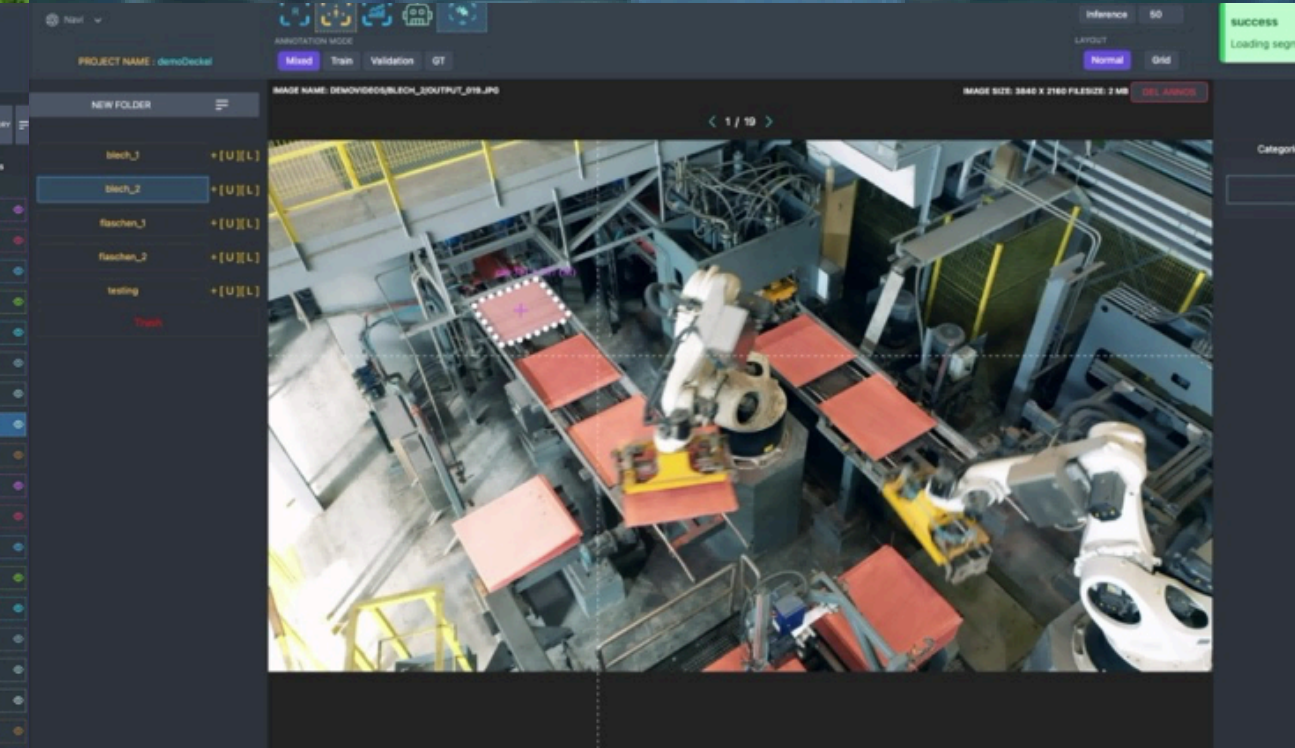
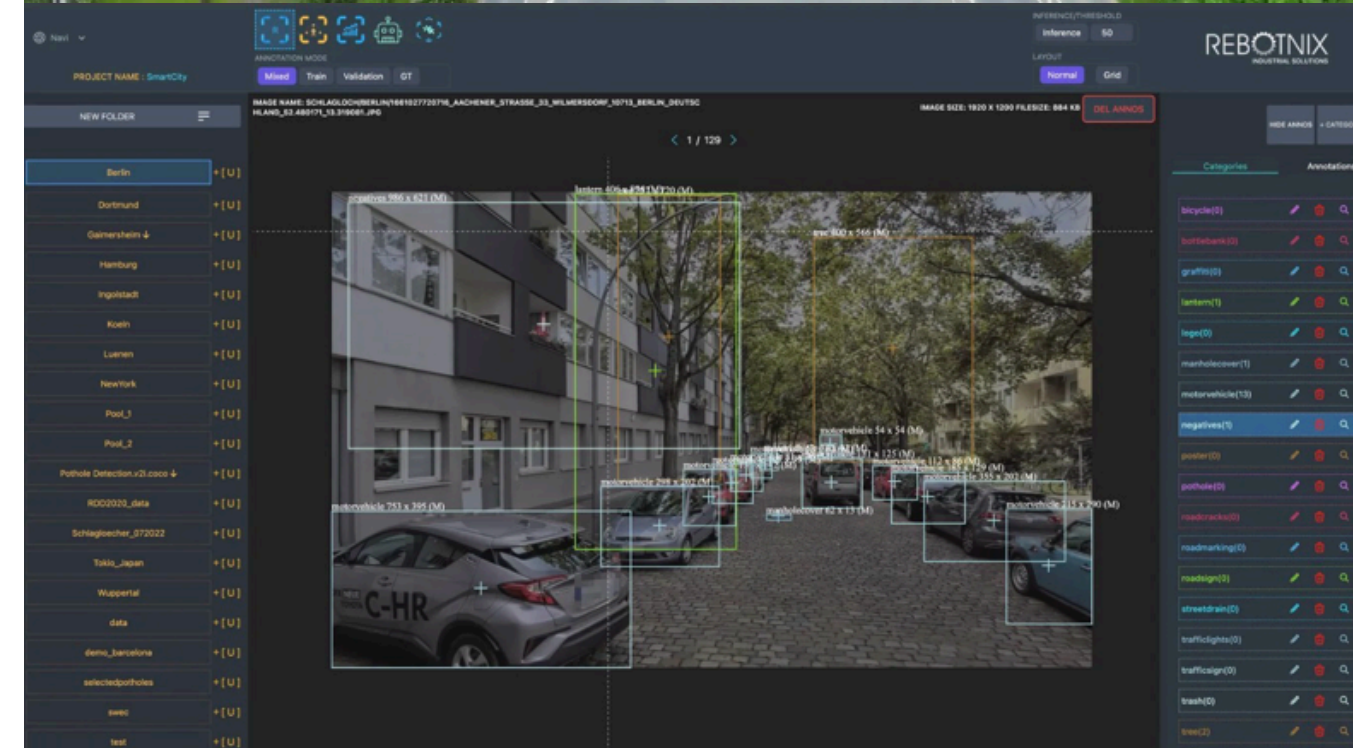
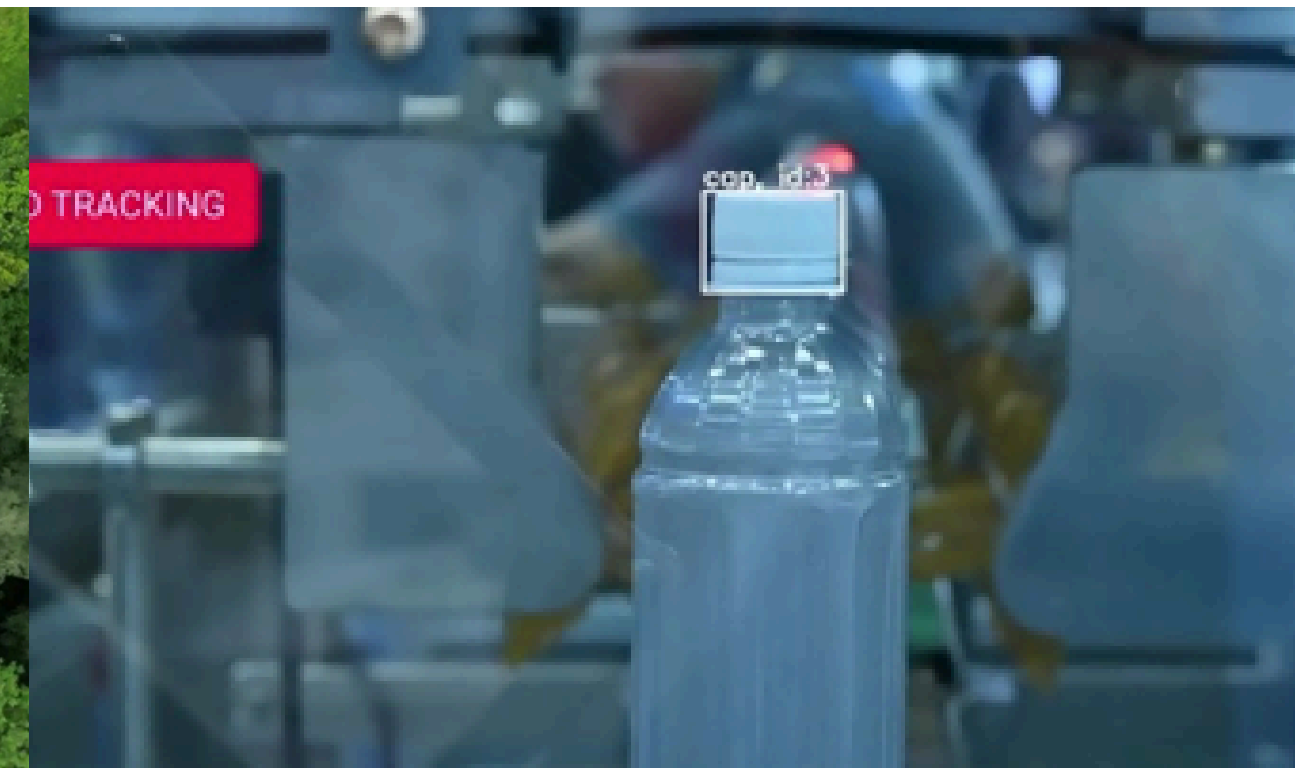
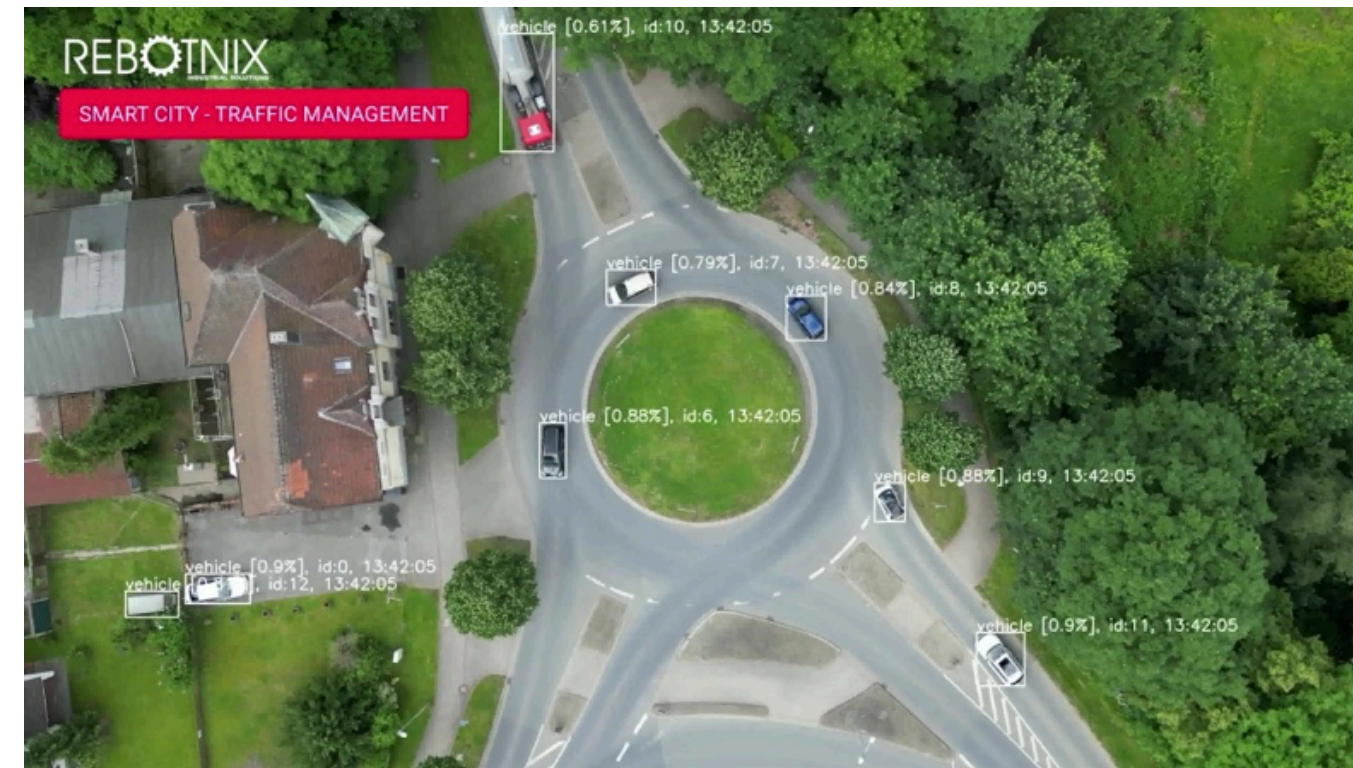


# POWERING SMART TECHNOLOGIES ACROSS INDUSTRIES

The GUSTAV Mini, a compact embedded computer powered by NVIDIA Jetson GPU technology, offers versatile applications across a wide range of industries, from smart cities to advanced robotics, thanks to its high-performance capabilities in real-time data processing and AI integration.

## APPLICATIONS

- Smart City: traffic control, infrastructure monitoring.
- Manufacturing: automation, process monitoring.
- Drones & UAVs: autonomous navigation, real-time data processing.
- Robotics: AI-driven control, sensor integration.
- Edge AI: real-time analytics at the device level.
- Security: surveillance, facial recognition, anomaly detection.
- Environmental Monitoring: air quality, weather data collection.
- Autonomous Transport Vehicles: obstacle detection, route planning for transport and delivery systems.
- Communication: satellite communication (e.g., Starlink), network optimization, real-time data transfer.



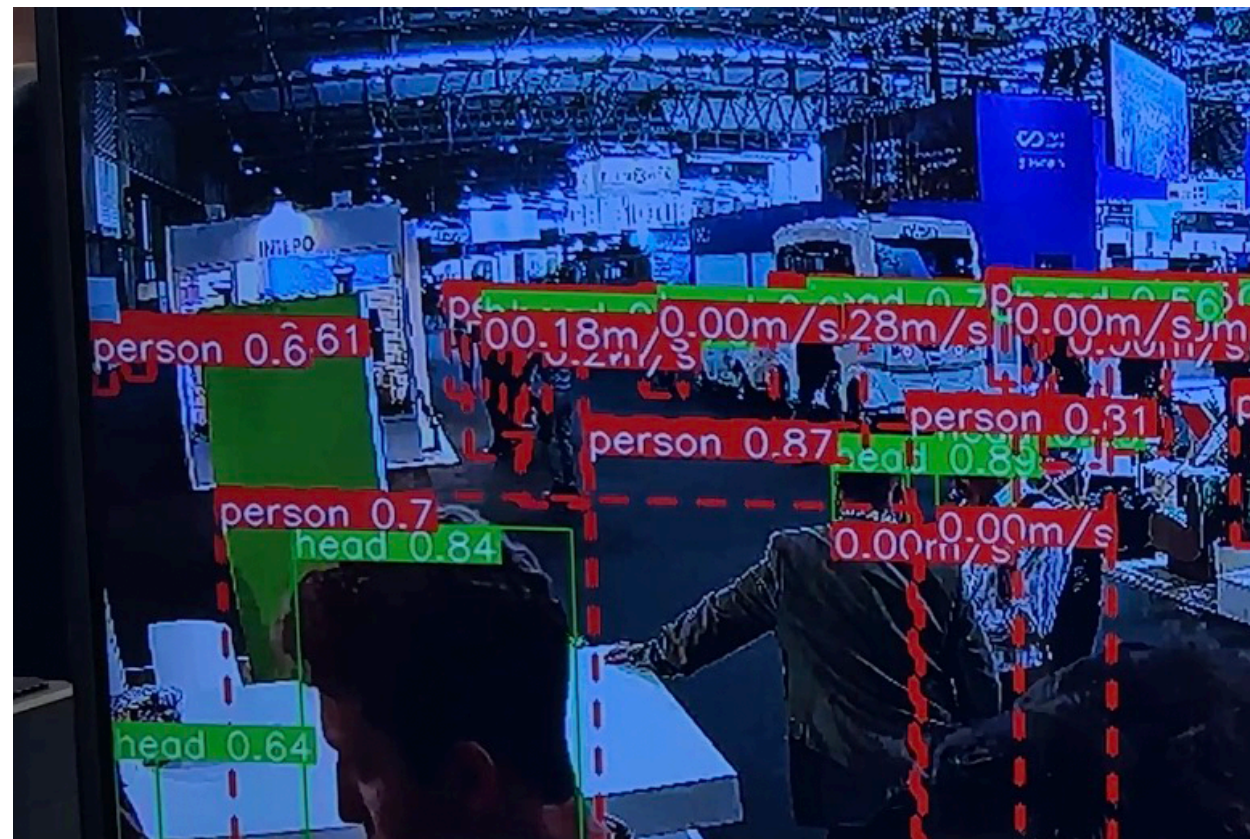


# AI MODELS (OPTIONAL)

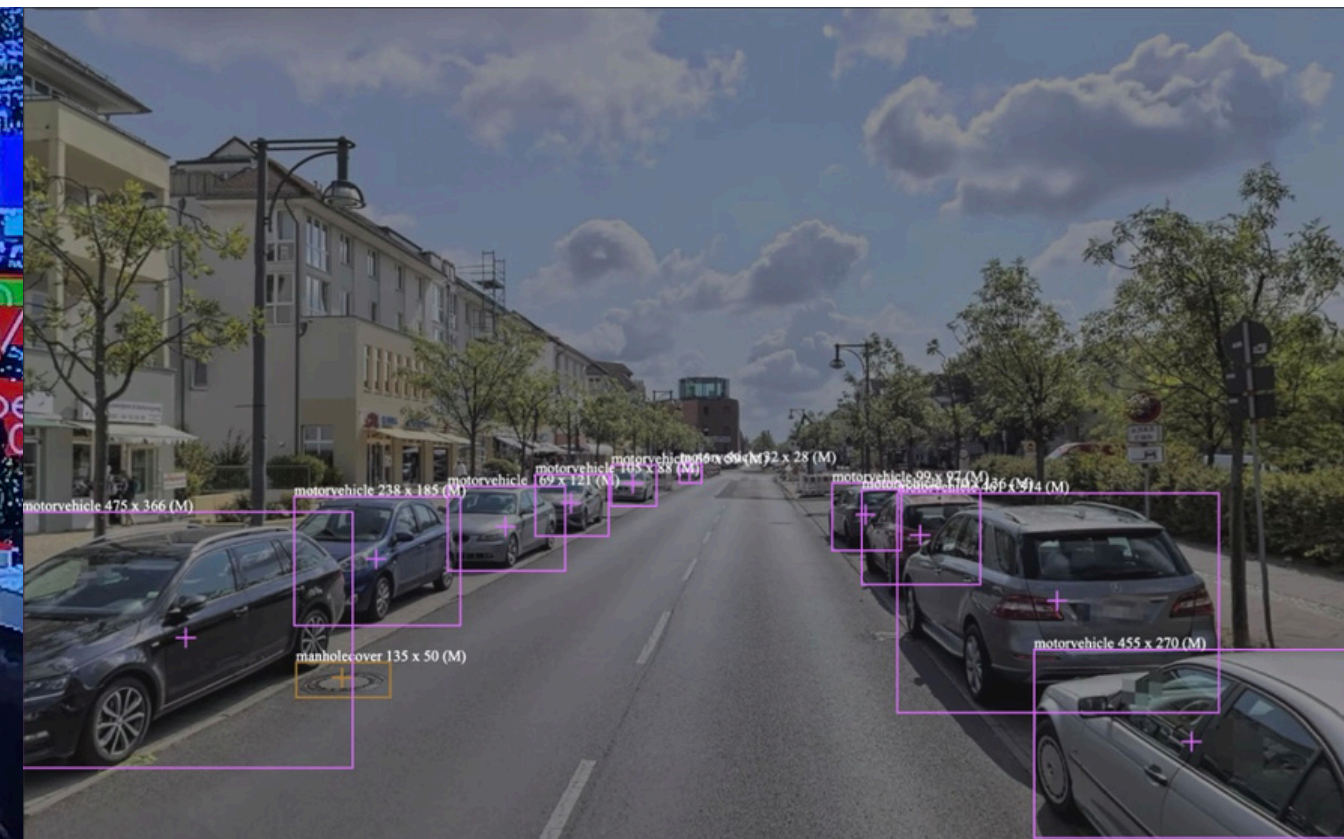
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## OVERVIEW OF SOME OF OUR MODELS

- PERSON HEAD AND SPEED ESTIMATION
- VIDEORECORDING DVR
- MOTORVERHICLE DETECTION
- POTHOLE STREET CONDITIONS
- GRAFITI DETECTION
- CUSTOM MODEL DESIGN



PERSON DETECTION | HEAD AND SPEED ESTIMATIONS



MOTORVERHICLE | CARS AND TRUCKS, MOTORBIKES

## YOUR CUSTOM MODEL TRAINABLE IN WEEKS

### REBOTNIX TRAINS YOUR AI MODEL IN-HOUSE.

If you want to train or own a custom model using your data, we can provide data collection, annotation, and model training services.

THE TRAINED MODEL THE MODELS DO NOT NEED ANY CLOUD CONNECTION. AND BE DIRECTLY EXECUTED ON THE GUSTAV MINI.



POTHOLE, STREET CONDITIONS



GRAFITTI

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## OVERVIEW

- LICENSE PLATES | RECOGNITION

**YOUR CUSTOM MODEL**  
TRAINABLE IN WEEKS



LICENSE PLATES | LICENSE RECOGNITION ALPR





**FOR MORE INFORMATION VISIT**  
**[HTTPS://REBOTNIX.COM/GUSTAV-MINI](https://rebotnix.com/gustav-mini)**