BERNARD GRUPPE

Product Sheet

BMA

BERNARD Mobility Analyser

Reliable, anonymised traffic data in real time – for more efficient, safer and sustainable mobility.

- **Multimodal Traffic Detection**
  Pedestrians, cyclists and micromobility as well as motorised light and heavy traffic
- **Versatile Applications**
  From cross-section counts to turning movement surveys and parking management
- **Robust and Weather-Proof**
  Day/night operation (IR), IP65 protection, permanent deployment on roads and in car parks
- **Privacy by Design**
  Local image processing, anonymised data

Overview

With the **BMA**, cities and operators gain a robust sensor for multimodal traffic detection: pedestrians, cyclists and micromobility as well as motorised light and heavy traffic are automatically detected and classified. Applications range from simple cross-section counts to complex turning movement surveys and parking management. The data forms the basis for efficient traffic planning and parking operations.

Thanks to day/night operation, IP65 protection and LTE connectivity, the BMA is suited for permanent deployment on roads and in car parks – with privacy by design.

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Core Features

- **12+1 Object Classes**
  High counting and classification accuracy
- **Speed Estimation**
  ±10% deviation at speeds below 60 km/h
- **Day/Night Capable (IR)**
  Robust for outdoor deployment (IP65)
- **Privacy by Design**
  Anonymised data, local image processing, pixelation in configuration mode
- **LTE Connectivity**
  Central fleet management in the Control Center for configuration and monitoring
- **Data Analysis in Data Center**
  Integration via the Data Center API or MQTT/JSON

System Integration

BMA

Detection & Classification of Road Users

→

Control Center

Configuration, Monitoring, Update Management

Data Center

Analysis of traffic and parking data

Typical Applications

- Cross-section counting (road & cycle path)
- Turning movement survey (junction analysis)
- Parking management (single space & balance counting)

Contact

Test the BMA at your site →

BERNARD Technologies GmbH

Auweg 20, 6112 Wattens, Austria

AT +43 5223 5840 10160

DE +49 221 222825 60

service@bernard-gruppe.com