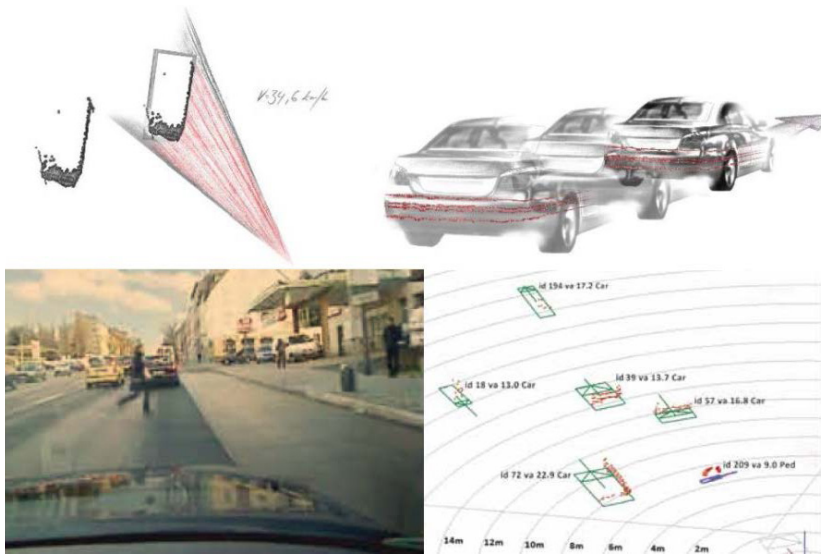


ibeo Object Tracking



All ibeo laser scanners are equipped with a **very robust and reliable** embedded object tracking.

The ibeo object tracking provides thanks to the **high resolution** of ibeo scan data a **high level** description of the surroundings.

Up to 65 objects will be **simultaneously** tracked and provide high level information like speed and moving vector.

Key features

- Simultaneously tracking of up to 65 objects
- Bounding box and speed information
- Single track model based ego
- Motion compensation

ibeo Object Tracking details

Scan data pre-processing

All scan points are marked with one of the following flags:

- Valid
- Ground
- Dirt
- Transparent
- Clutter

General tracking information

Technology	Kalman filter
Motion compensation	Single track model based ego motion compensation (requires ego motion data)
Max number of simultaneously tracked objects	65
Prediction of covered/hidden objects	Up to 1 s

Object output

ID	For a live time unique reference number
Position	x/y tracking reference point
Outline	<ul style="list-style-type: none"> • Up to 34 contour points • Bounding box (center, size, orientation)
Velocity	<ul style="list-style-type: none"> • Relative velocity vector • Absolute velocity vector (requires ego motion data)
Class (requires ego motion data)	<ul style="list-style-type: none"> • Car • Truck • 2-wheeler/bike • Pedestrian • Unknown small • Unknown big • Not classified
Certainty/object status	<ul style="list-style-type: none"> • Object age • Object prediction age • Classification age • Position sigma

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