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Brodmann17 accelerates the adoption of AI camera for ADAS / Automotive

Brodmann17 offers the next generation of camera perception software solutions for ADAS and Automated Driving. We've developed in house solutions based on DNN, that offer state-of-the-art accuracy utilizing only a fraction of the computing power, making it a vastly more affordable solution for Tier1 suppliers and automakers to utilize.

This patented technology allows the combination of any sensor with any processor, offering best-in-class computer vision capabilities on the rear camera, front camera, and blind-spot cameras across the L1-L3 range.

LOWEST POWER PERCEPTION

AN OPEN PLATFORM

HARDWARE AGNOSTIC

UNCOMPROMISING DEEP LEARNING AI

Brodmann17 Solutions Suits

Front Facing Integrated

Vehicles	Class types	Passenger cars, trucks, motorcycles, vans
	3D vehicle detection	Full 3 dimentional detection
	Maximum detection distance	130m (TP > 98%)
	Maximum ego speed	0-150kph
	Maximum relative speed	0-150kph
VRUs	Class types	Pedestrians, cyclists
	Maximum detection distance	70m (TP > 98%)
	Pedestrian occlusion	0-20% occlusion
Lanes	Types	Dashed, solid, botts-dots, double
	Color	White, Yellow, Orange, Blue
	Maximum view range	90 meters
	Number of lane lines	Four lanes - host and adjacent lanes
	Curvature	100 meter curve radius
Traffic signs	Sign types	Speed signs, stop signs
Traffic lights	Light types	Vertical, Horizontal
Certification	NCAP	
Applications	AEB/FCW, ACC, HBA, LKA, TSR, TFL, assisted parking	
Input resolution	1080p	
Memory	0.5GB	
Camera setup	FOV: 50-60 RGB/YUV	
Hardware reference	TI TDA2x, Renesas R-Car, NXP 32v234 ,Ambarella CV2/CV22	

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Rear-near Field

Vehicles	Class types	Passenger cars, trucks, motorcycles, vans
	Maximum detection distance	25m (TP > 98%)
	Maximum ego speed	0-20kph
	Maximum relative speed	0-20kph
VRUs	Class types	Pedestrians, cyclists
	Maximum detection distance	18m (TP >98%)
	Pedestrian occlusion	0-20% occlusion
Functionality	Rear Pedestrian warning	
FPS	10-30	
Object distance	10m-18m	
Memory	6MB-20MB	
Camera setup	Fisheye	
Hardware reference	OnSemi (CEVA) DSP	

Blind Spot

Vehicles	Class types	Passenger cars, trucks, motorcycles, vans
	Maximum detection distance	50m (TP > 97%)
	Maximum ego speed	0-130kph
	Maximum relative speed	0-130kph
VRUs	Class types	Pedestrians, cyclists
	Maximum detection distance	20m (TP >97%)
	Pedestrian occlusion	Fully visible
Lanes	Types	Dashed, solid with classification
	Color	White, Yellow, Orange, Blue
	Maximum view range	35m
	Number of lane lines	4 (Host left/right, next left/right)
Functionality	Blind spot detection	
FPS	15-301080p	
Object distance	30m-70m	
Memory	50MB per camera	
Camera setup	Dual cameras, FOV 50-70	
Hardware reference	Ambarella CV22/CV2	