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ProViu® ASL 360
Greater situational awareness using advanced driver assistance

The ASL360 Surround View Processing Unit combines the inputs of up to 6 wide angle fisheye cameras into a single 2D Surround View to mitigate the many blind spots around a vehicle. Used in conjunction with the ASL360 User Interface design tool, customer interfaces and views are possible without the need to develop custom software. This gives the operator the potential to produce a system optimized for their own vehicles and operations.

› Stitched video stream is shown on display

› Elimination / reduction of driver's blind spots

› The view can be configured individually and therefore shows an ideal view that is tailored to the driver's needs

› Reliability – self-monitoring system, guaranteeing no frozen frames up to output

› Easier maneuvering in tight spaces

› Rear view, trailer view, split view etc.

› Four-Camera Surround View Driver Assistance enables the driver to see 360° around the vehicle on display.

› The surroundings can be seen top-down from a bird's eye view perspective. Such a view eliminates blind spots during critical and precise maneuvers in different traffic situations.

› Input images from the cameras are processed and stitched together in 360° bird-view of the vehicle surroundings

› Wide angle fisheye cameras

› Flexible SW tool chain (e.g. multiple screens, configuration, custom user interface etc.)

› Genuine real time delivery at 30fps

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ProViu® ASL 360

Camera Optical Characteristics

› Multiple glass element lens
› Aperture F2.0 (nom)
› IR cut coating:
› 430-620nm, Tmin>80%
› 670+-/10nm,T=50%
› 730-1000nm,Tmax<5%
› True horizontal field of view 185 degrees (nom)
› Intrinsic visual parameters calibrated to ~0.2 pixels across entire field of view
› Focal range 30cm to ∞

› Camera

Camera Electrical Characteristics

Supply voltage	8V-32V
Power Cosumption	0.5W typ
Cable Type	Power+TP+LIN
Connector	robust M12 industrial type
Video output	Differential
Sensor size	¼¨
Sensor dynamic range	-75dB
Sensor signal to noise ratio	46dB
Sensor responsivity	16.5 V/lux at 550nm
Sensor outout	720 x 576 (PAL)

Camera Physical Characteristics

› Ingress IP69K
› -40°C to +85°C
› Orientable mount
› Max dimension from base ~48mm

Safety Features

› Frame counter

Options

› Narrow Field of View Lens
› Matching Camera Covers

ECU Electrical Characteristics

Supply voltage	8V-32V
Power Cosumption	6W typ.
Cable Type	Power +TP+LIN
Connector	robust M12 industrial type
Video output	Differential
Transient, Overvoltage and Reverse Polarity Protection	
Dual Video output	FBAS or SVGA
Inputs from vehicle systems	

› ECU

ECU Physical Characteristics

› Die-cast aluminium case – two mounting points
› 225w x 120d x 35h
› Max cable run >50m
› -40°C to +85°C

Options

› IP65 Case
› Additional inputs
› Image Processing / Machine Vision Algorithms

Safety Features

› Anti-stall
› Low latency

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ProViu® ASL 360 Part Numbers

Components	Description
2910000982101	ASL 360 System Kit (ECU+4 Cameras)
2910000982000	ASL 360 Control Unit
2910000951700	ASL 360 Camera (Black edition)
A2C59516758	ASL 360 Software license
A2C59516759	ASL 360 Camera cable 10m
A2C59516760	ASL 360 Camera cable 15m
A2C59516761	ASL 360 Camera cable 20m
A2C59516762	ASL 360 Camera cable 2,5m
A2C7449840000	ASL360 6.5M Extension Cable Rev 1
A2C59516765	ASL 360 Video Splitter Cable
A2C59516766	ASL 360 System Cable ECU
A2C59517120	ASL 7 Inch Camera Display
2910000118500	9 Inch Monitor

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