

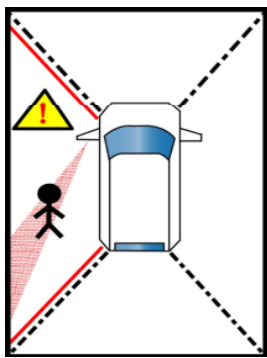
Around View Detection System (AVDS)

■ Introduction

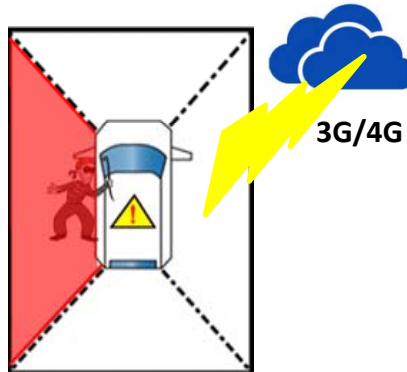
H.P.B. Around View Detection System (AVDS) is utilizing real-time image processing algorithm and using four HD 180° cameras with choices of LVDS or Ethernet AVB interface to provide 360° seamless surround view. Combined with H.P.B. VDD technology, the AVDS module is able to measure moving object distance on 360° around view for the best vehicle security application.

■ System Application

- 1) When vehicle in low speed, detect surrounding object distance and alert
- 2) When driver is not in car, detect lingering objects and alert vehicle owner via cell phone in designated distance



1.) Provide surround view monitoring in low speed



2.) Provide vehicle surveillance when driver is not in car



■ HPB Camera Specification

Items	LVDS Camera (Option 1)	Ethernet AVB Camera (Option 2)
Sensor Pixels Array	1280(H) x 800(V)	1280(H) x 960(V)
Power Supply	5V _{DC} ±10%	+8V _{DC} ~ +32V _{DC} (Typ. : +12V _{DC})
Maximum S/N Ratio	41dB	43.9dB
Video Output Format	YUV422 10bit	H.264/ MJPEG
F No.	2.0	2.1
View Angle	H: 190°±3% ; V:115°±3%	H: 180°±3% ; V:120°±3%
Relative Illumination	50 %	50 %
Operation Temperature	-40 ~ +85°C	-40 ~ +85°C
Storage Temperature	-40 ~ +105°C	-40 ~ +105°C
Dimension (mm)	24*24*29 (W/O BKT)	35.1*35.1*51.6 ±0.2 (W/O BKT)
Waterproof Grade	IP69K	IP69K