## IR-PILOT 180P (Infrared-only) 180° Vehicle Night Vision Device







**IR-PILOT 180P** is a vehicle-mounted infrared night vision device with wide FOV developed for the automotive market.

It provides GSML and AHD interface with a horizontal FOV of 180°.

It can be used in ADAS and auto-piloting.

### IR-PILOT 180P (Infrared-only) 180° Vehicle Night Vision Device

#### 1.180°horizontal field of view

Eliminate blind spots in vision.

#### 2. All-weather application

Vehicle-mounted thermal imaging can be applied to environments such as total darkness, weak light, and glare, and is also suitable for severe weather such as dusty days and foggy days.

### 3. Automatic defrosting

Automatically turn on the heating function in an environment below 2°C to ensure the image quality.

Video output: AHD/TVI/GMSL

Communication Interface: I2C/RS232 Dimensions: 180\*90\*58mmWeight: 1200g

Ingress class: IP67

Operation temperature : -40°C ~ +85°C





Thermal:640\*512 Type: 12µm @ LWIR FOV: 180°\*50°



Lens	DD	DD	ID	ID
	(Vehicle)	(Human)	(Vehicle)	(Human)
	-	-	110m	72m

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5	Specifications	IR-PILOT 180P Infrared-only180° Vehicle Night Vision Device		
	Detector Type	VOx uncooled infrared detector		
	Spectral Band	8~14µm		
Thermal Camera Parameters	NETD	≤40mK@25°C,F#1.0		
	Image Size	720P or 1080P		
	Pixel Pitch	12µm		
	Focal Length	6.9mm		
	Focusing Mode	Fixed focus lens		
	FOV 180°x50°			
	Recognition Distance	110m/72m (Target: 12 pixels)		
	F#	1.0		
	Spatial Resolution 1.74mrad			
	Frame Rate 50Hz			
	Strong Light Protection	Supported		
	Scene-based Correction	Supported		
	Window Defrost	Supported		
	olor Palette White hot			
Size and Weight	Thermal Camera Size	180mm × 90mm × 58mm		
Size and Weight	Thermal Camera Weight	≈1200g		
Environment	Ingress Protection	IP67		
Liviloriment	Operating Temperature	-40°C to +85°C (-40°F to +185°F)		
	Thermal Camera Interface	Aviation	FAKRA	
	Thermal Camera Protocol	TVI or AHD	GMSL	
Interface	Thermal Camera Communication	RS232	I2C	
	Data Format	720P 50HZ or 1080P 50HZ	8-bit DCR data	
	Thermal Camera External Synchronization	Supported		
Physical Characteristics	Power Supply	12 VDC		
Physical Characteristics	Power Consumption	≤8W, and ≤17W when automatic defrost is on		