



EverFocus Product has Won 2023 Taiwan Excellence Award

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Taipei, Taiwan, October 28, 2022 - EverFocus Electronics Corporation (TWSE: 5484), the leading provider of edge AI solutions for smart city and transportation, is honored to announce that our SMARTER AI MIRROR wins the 2023 Taiwan Excellence Award! We are running into another huge milestone on the international stage!

The built-in Neural-network Processing Unit (NPU) of Smarter AI Mirror is an application of bionic technology, which can apply the principle of biological characteristics to artificial products, and directly complete high-speed computing, enabling to have greatly improved computing efficiency. In addition, AI object recognition is mainly applied to Video Streaming to perform three recognition models: object detection, body recognition, and object cutting. Video Streaming is composed of continuous image frames and identifies all image frames through AI object recognition and the neural network processor (NPU).

Then, the image signal with Blind Spot Detection (BSD) operation marking the bounding box is transmitted to the driver assistance system (ADAS) processor for optical flow detection to detect the moving speed of at least one moving object and direction, wherein the neural network processor (NPU) and the driver assistance system (ADAS) processor use a universal asynchronous transceiver (UART) for transmission, and the above optical flow detection uses optical flow. The optical flow technique is used for calculation to calculate the time change of the pixel point of at least one moving object in the image signal with blind spot detection (BSD) operation, and to calculate the moving speed of at least one moving object and direction, and transmit the image signal with blind spot detection (BSD) operation after optical flow detection to the video encoder, and then encode the image signal with blind spot detection (BSD) operation after optical flow

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detection Process and integrate into digital images.

Smarter AI Mirror

AI BSD Detection Camera & Electronic Rear View Mirror System



- Equipped with optical flow detection, which can enhance BSD by measuring vehicles' movements and directions more accurately.
- Warn the drivers when making a steer, brake or reverse through displaying the channel live view with warning icons or trigger an alarm sound.



Mirror Specification	
LCD Type / Size	TFT-LCD / 1920 x 720 Pixel
Luminance	550cd / m2.
View angle	85 / 85 / 85
Power	DC12V -35V
Power Consumption	6W
Operating Temp.	-20~70° C
Dimensions	340 x 159 x 34 mm

Camera Specification	
Effective Pixels	Rear: 1920 (H) x 1080 (V) Downward: 1920 (H) x 720 (V)
Frame Rate	1080P/720P@25fps
Rear Viewing Angle	82° (V) 155° (H)
Downward Viewing Angle	53° (V) 95° (H)
Operating Temperature	-20 °C ~ 70 °C RH 95% Max.
Dimensions	113.9 x 80.8 x 62.2 mm

The Smarter AI Mirror can alert the driver with voice and visual warnings when the BSD camera identifies a pedestrian or cyclist in the vehicle's blind spot. The AI recognition and optical flow detection will detect the moving speed and direction of at least one moving object, and then output to the vehicle rearview mirror to display and provide the driver with the vehicle through the vehicle rearview mirror. With the audible alarm or visual warning, it can warn and remind the driver, thereby complementing the general rearview mirror for the blind spots and improving the driving safety. At the same time, it has passed CE/FCC/EN50155 safety standards to ensure the safety of customers using products.

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About EverFocus Electronics Corporation

EverFocus provides diversified surveillance solutions from the front-end cameras, edge devices like industrial PC and back-end servers. The devices coverage includes IP, CCTV, vehicle, and access control systems. EverFocus has offices globally, including the U.S.A, China, Japan, Taiwan.

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