

ULTRA-WIDE 3D VISION SENSOR
FOR ROBOTS AND MOBILITY

ArgosVue Developer Kit

Panoramic 3D Vision Sensor
With a Human-like Field of View

Technology	Fisheye Stereo Camera
Field of View	240° x 160°
Resolution	1,200 x 800
Frame Rate	20Hz
Effective Depth Range	0.2m ~ 8m



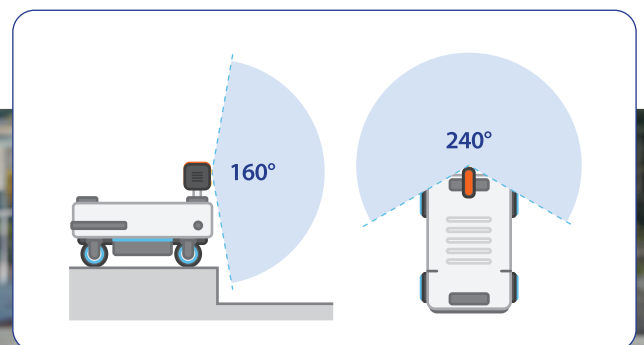
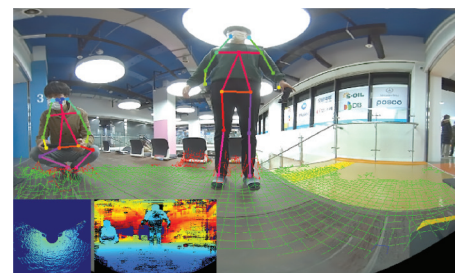
Ultra-Wide 3D Vision Sensor for Autonomous Driving and Human-Robot Interaction

An autonomous driving sensor for robots and mobility improved beyond LiDAR

It provides a wider vertical field of view and higher resolution imagery than LiDAR. Through this, it can easily recognize people and objects located in the front and on the sides of the robots and mobility.

Innovative Human-Robot Interaction

It can see the entire of a human being both full height and spread arms within 0.5 meter. It can detect people and recognize their behavior with an embedded AI processor.



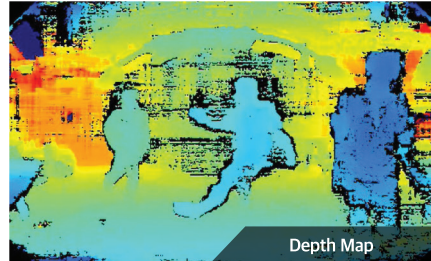
Ultra-Wide Computer Vision Solutions

Autonomous Driving Solutions for Smart Robots

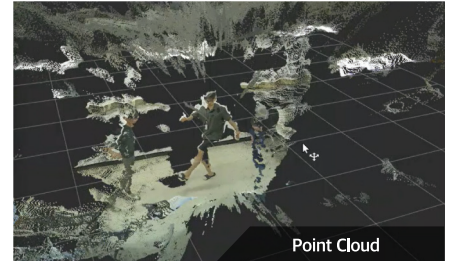
ArgosVue provides point cloud as well as depth map for an ultra-wide field of view up to 240°x160°



Ultra-wide View



Depth Map



Point Cloud

ArgosVue can recognize road surface as well as surrounding obstacles.



Stairway Recognition



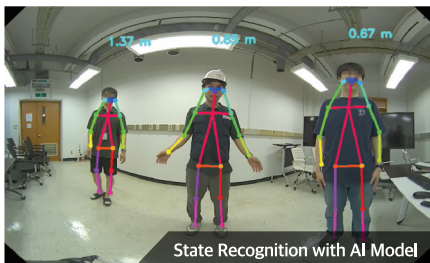
Curb Recognition



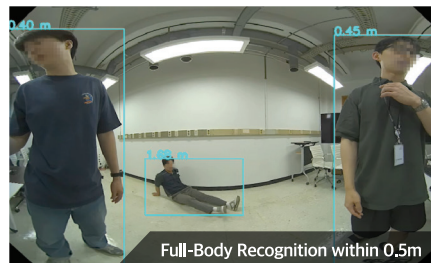
Obstacle Recognition

Human Recognition at Arm's Length

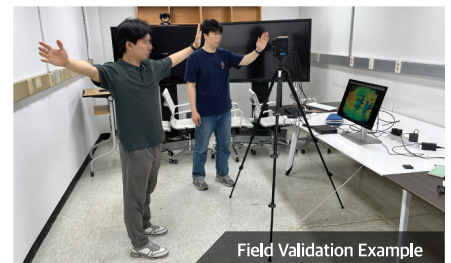
ArgosVue can recognize the entire body of a human being within 0.5 meter.



State Recognition with AI Model



Full-Body Recognition within 0.5m



Field Validation Example

ROS (Robot OS) Support for Fast Deployment

ArgosVue is available in ROS as a node that publishes its data to topics.



Applications



Smart Mobility



Smart Robot



Smart Factory



Smart Surveillance



Smart Retail



Smart City