

AI-SENSOR AI Sensor Kit



FEATURES

- AI Starter Kit for Jetson Orin Nano with Common Board design, 30 Sensors and 38 Lessons (without Jetson Orin Nano board) is designed for hands-on learning and development of AI and embedded systems using the Jetson Orin Nano platform. Ideal for students, educators, and robotics.
- developers exploring computer vision, machine learning, and
- Powered by Jetson Orin Nano
- Includes 30 Sensors for Versatile Projects
- Integrated Sensor Board (No Soldering Required)
- 11.6" IPS Display for Interactive Learning
- 8MP IMX219 Camera for Vision Applications
- Supports Python-Based Development
- 38 Step-by-Step Tutorials
- Multiple Expansion Interfaces for Flexibility

SPECIFICATIONS

- **Main Processor:** Jetson Orin Nano
- **Number of Sensors:** 30
- **Sensor Board Design:** Integrated (Plug & Play)
- **Display Size:** 11.6 inch
- **Resolution:** 1366 × 768
- **Display Type:** IPS
- **Camera:** IMX219 8MP
- **Interfaces:** 2× I2C, 1× UART, 2× GPIO (D12, D13)
- **Brand:** Elecrow
- **Tutorials:** 38
- **Dimensions:** 300 × 200 × 100 mm
- Speaker
- Monocular Camera
- Servo
- Buzzer
- 8*8 RGB Matrix
- Stepper Motor
- Photoelectric Counter
- Vibration Motor

- Tilt Switch
- Without Jetson Core Control Board
- Touch Sensor
- Accelerometer & Gyro
- Barometer
- Hall Sensor
- LCD
- NTC
- PIR Motion Sensor
- Temperature & Humidity Sensor
- Ultrasonic Ranging Sensor
- Relay
- Gas Sensor (MQ2)
- NFC
- Infrared Remote
- Light Sensor
- Rotary Encoder
- Joystick
- Linear Potentiometer
- Microphone
- Button
- LED
- I2C
- UART
- IO
- 4-Digit Display

EXPERIMENT

- The built-in AI voice module enables fluent and natural human-computer dialogue. Whether it's intelligent question answering, voice command control, or personalized chat, it all comes together easily, helping you explore the infinite possibilities of voice AI.
- Integrating a gimbal control system and an 8MP camera, combined with AI models, this kit enables target tracking and face tracking. It takes you deeper into visual AI and provides a development platform for scenarios such as intelligent monitoring, robot navigation, and automated recognition.