

SenseCAP Watcher: endpoint AI + LLM

(30MIN.)

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TSUBOI Yoshihiro

seeed studio

「e」3つ

10s 電子工作→Z80,8255→internet (Unix, BSD)

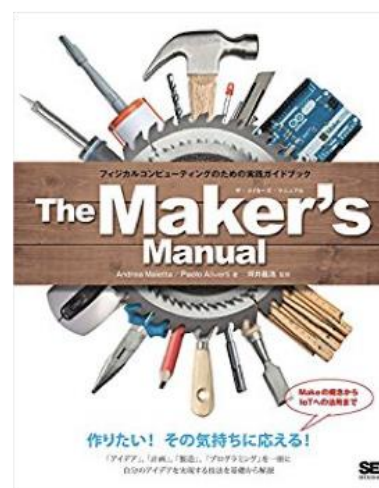
20s 薬学部在学中に専用線を引きたくなりinternetで起業

→電子決済システム(クレジットカード決済やポイントシステム)

30s Arduinoを知り、現代のマイコン開発やものづくり環境の変化を知る

→オープンソースハード業界に

2017年、中国Seeed Technologyの日本子会社、Seeed株式会社を設立



Seeed in the World

Global Distributors



Regional Distributors



200+



About Seeed



Projects Supported



Partner Communities

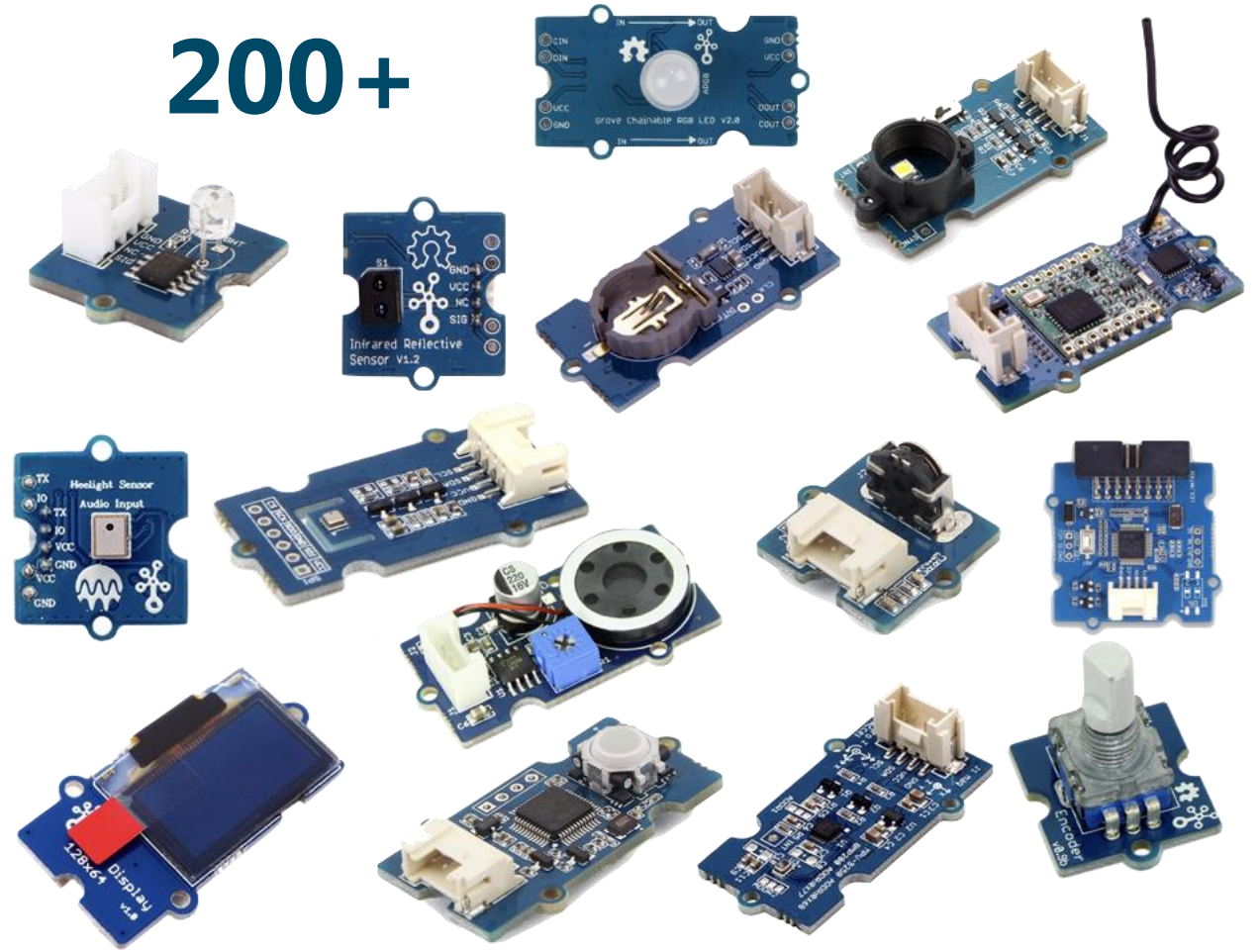


Customers



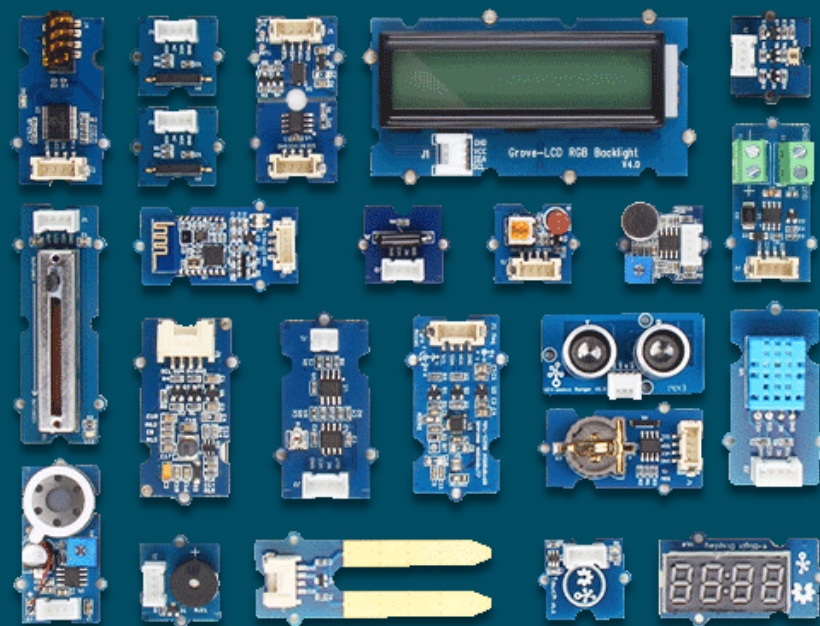
The logo for Grove, featuring a stylized green tree icon above the word "Grove" in a bold, green, sans-serif font.

200+



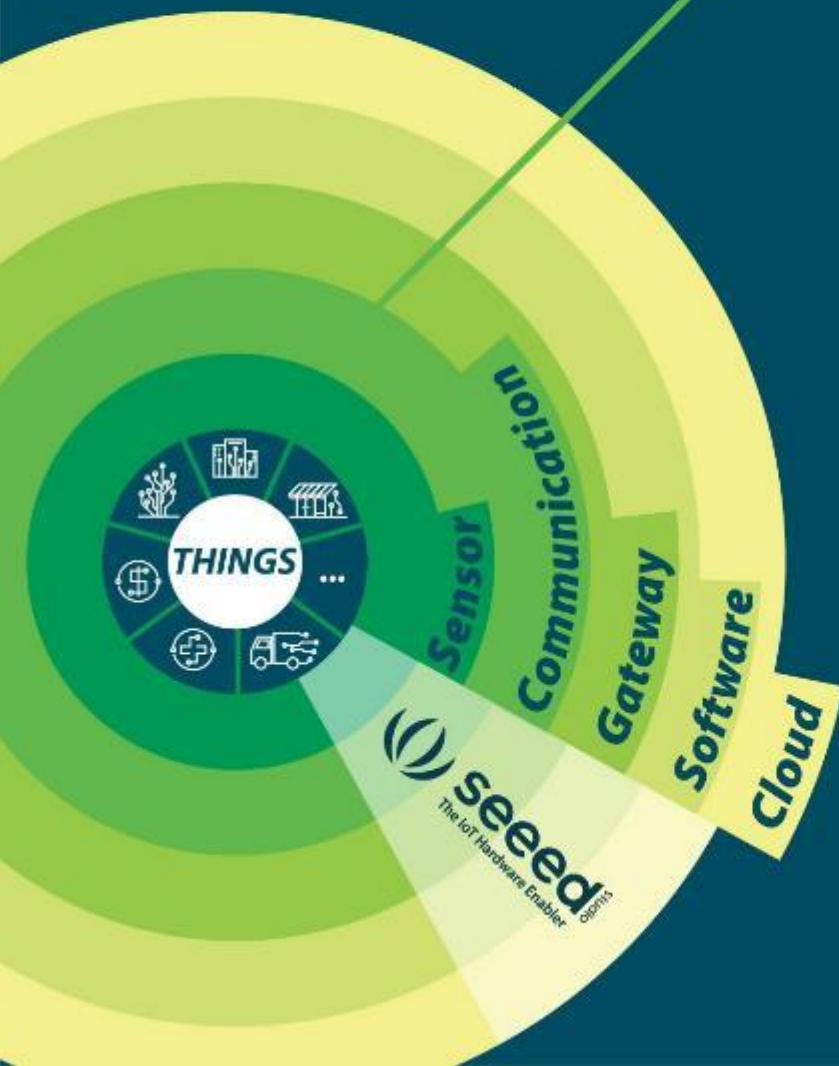
200+ existing sensor modules in the Grove system

200+ existing sensor modules in the Grove system



Communications

Latest protocol and connectivity



WIFI



BLUETOOTH



CELLULAR



LORA



OTHER



And more...

Gateway

From industrial to Edge, AI, speech and vision





SenseCAP

Watcher

The World's First Physical
AI Agent for Smarter Spaces

- Scene Understanding
- Activate Actions Accordingly

work with:



OpenAI



ollama



Home
Assistant



Node-RED

Arduino

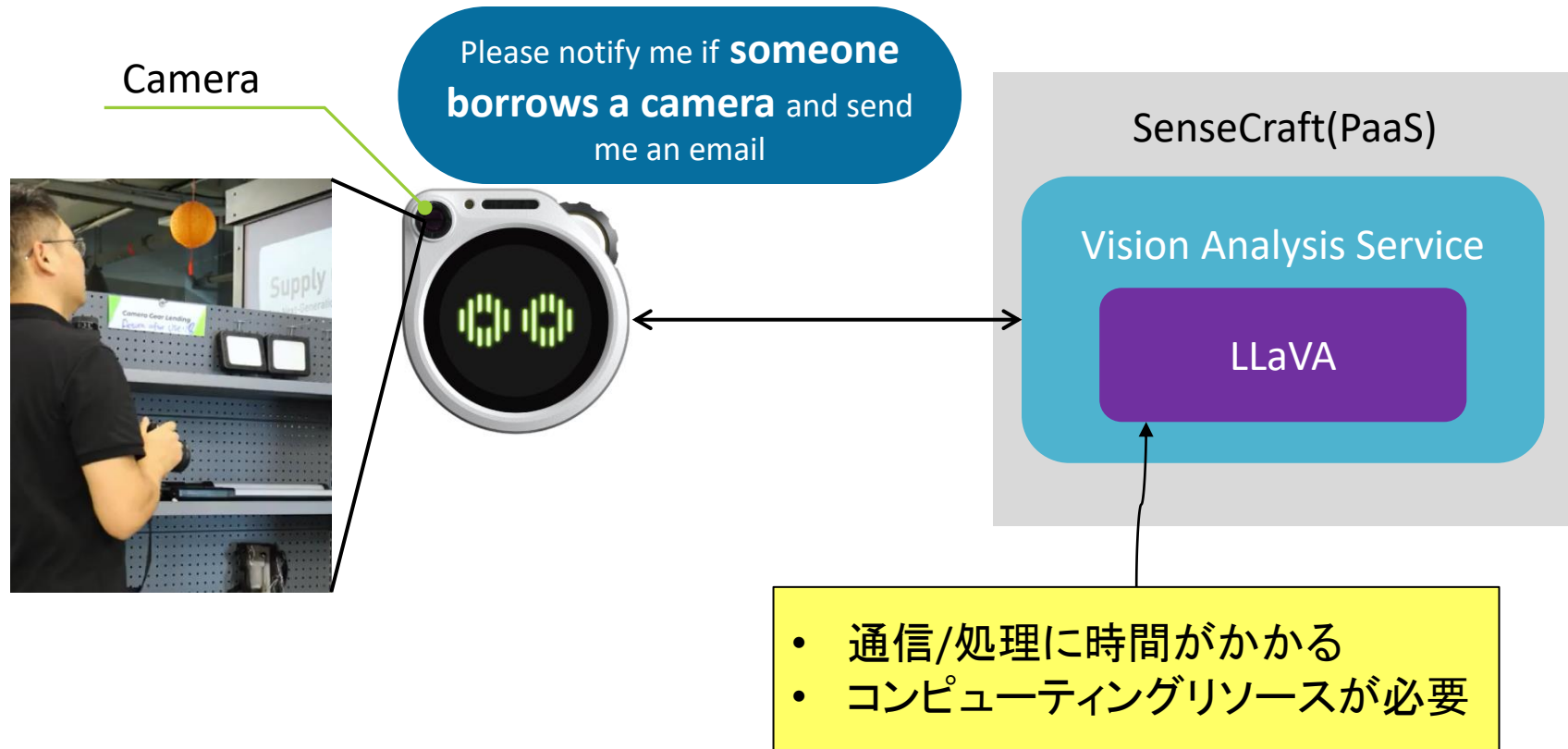
ESP32 ...

**SenseCAP Watcher: a physical
AI agent for smarter spaces**

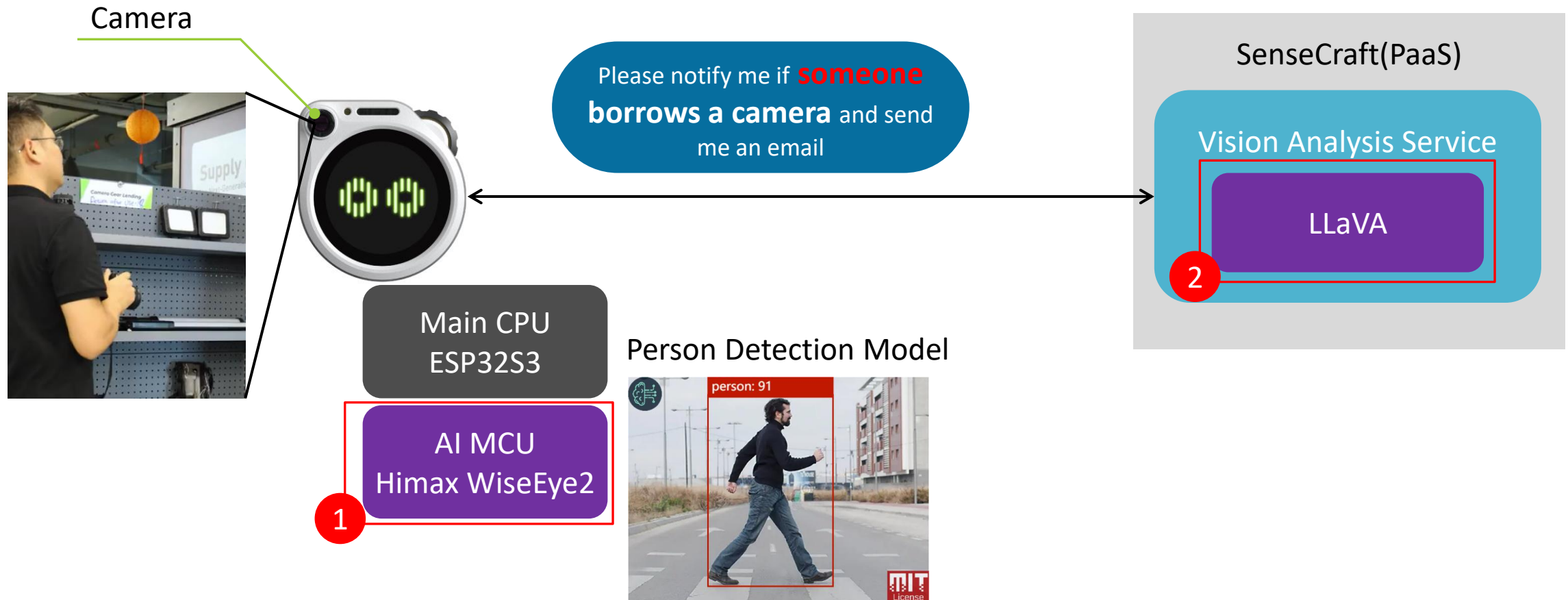
<https://youtu.be/7RTIRX1cd0Q>



Understand What it Sees (見ているものを理解)

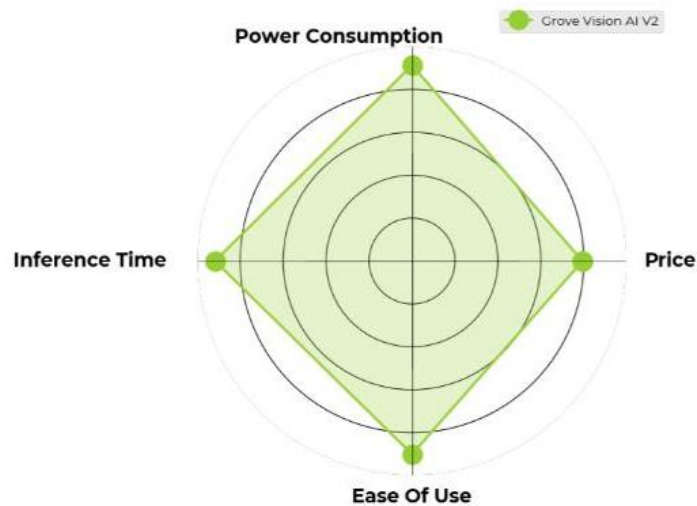


Understand What it Sees (見ているものを理解)



WiseEye2 vs ESP32S3

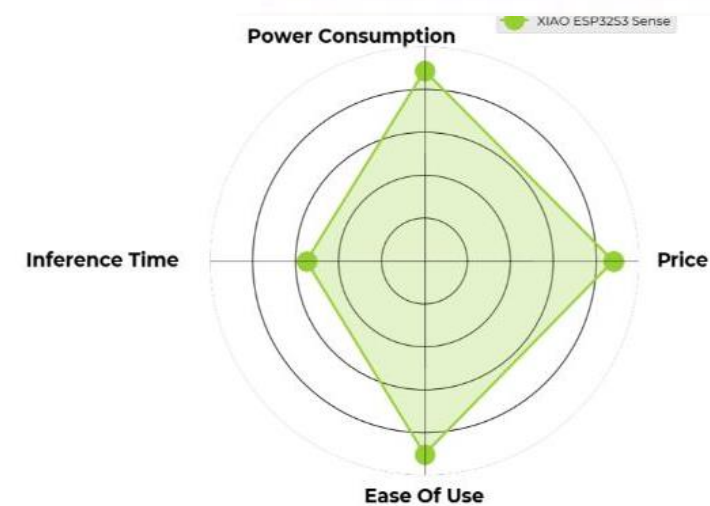
Frame Rate Comparison



Power Consumption: 0.35W 
Inference Time: 33.0ms
Frame Rate: 30.30FPS
Ease of Use: 9.0
Price: \$23.89

Grove Vision AI V2

Himax WiseEye2 HX653B (Cortex®-M55 + Ethos-U55)
400 MHz + 150MHz (M55) + 400MHz (U55)



Power Consumption: 0.45W
Inference Time: 180.0ms
Frame Rate: 5.55FPS
Ease of Use: 9.0
Price: \$13.99

XIAO ESP32S3 Sense

ESP32S3 (Dual-Core Tensilica LX6) 240 MHz

SenseCraft AI

学習済みモデル

The screenshot displays the SenseCraft AI website's 'Pretrained Models' section. The header includes the SenseCraft AI logo and navigation links: Home, Pretrained Models, Training, Vision Workspace, and About SenseCraft AI. A search bar and a 'Sign In' button are also present. The left sidebar features a search bar, a '16 Models' indicator, a 'Clear' button, and a 'Task' section with buttons for Detection, Classification, Segmentation, Pose, and Generation. Below this is a 'Supported Devices' section listing reComputer Jetson, XIAO ESP32S3 Sense, Grove - Vision AI V2, SenseCAP Watcher, and reCamera. The 'Publisher' section at the bottom lists SenseCraft AI and jerteach. The main content area is titled 'Public AI Models' and 'My Own Models', with an 'Add Model' button. It displays a grid of six pre-trained models, each with a thumbnail image, a title, a description, and a 'Detection' button. The models are: Keyboard Detection, Fire Extinguisher Detection, Microwave Detection, Bicycle Detection, Glasses Detection, and Chair Detection. Each model card also shows the 'SenseCraft AI' logo and a heart icon.

カスタムモデル

The screenshot displays the SenseCraft AI website's 'Training' section, specifically the 'Generate AI Classification Model' page. The header includes the SenseCraft AI logo and navigation links: Home, Pretrained Models, Training, Vision Workspace, and About SenseCraft AI. A search bar and a 'Sign In' button are also present. The left sidebar features a search bar, a '16 Models' indicator, a 'Clear' button, and a 'Task' section with buttons for Detection, Classification, Segmentation, Pose, and Generation. Below this is a 'Supported Devices' section listing reComputer Jetson, XIAO ESP32S3 Sense, Grove - Vision AI V2, SenseCAP Watcher, and reCamera. The 'Publisher' section at the bottom lists SenseCraft AI and jerteach. The main content area is titled 'Generate AI Classification Model' and 'Step 1: Collect Classification Data'. It shows a 'Training Type' section with 'Detection Type' and 'Classification Type' buttons. The 'Training Records' section displays a list of training records, including 'car 2' and 'ball 2', each with a 'Modify your tags' button and a '302 Image Samples' or '270 Image Samples' indicator. A 'Start Training' button is highlighted. The 'Preview' section shows a 'Webcam' feed and a 'Hold to Record' button. A progress bar indicates '99%' completion. Red arrows point to the 'Start Training' button, the 'Hold to Record' button, and the 'Grove Vision AI(V2)' device selection. Text annotations include: 'chose Grove Vision AI(V2)', 'Click this button save training photos', and 'If you have saved enough photos and modified the settings'.

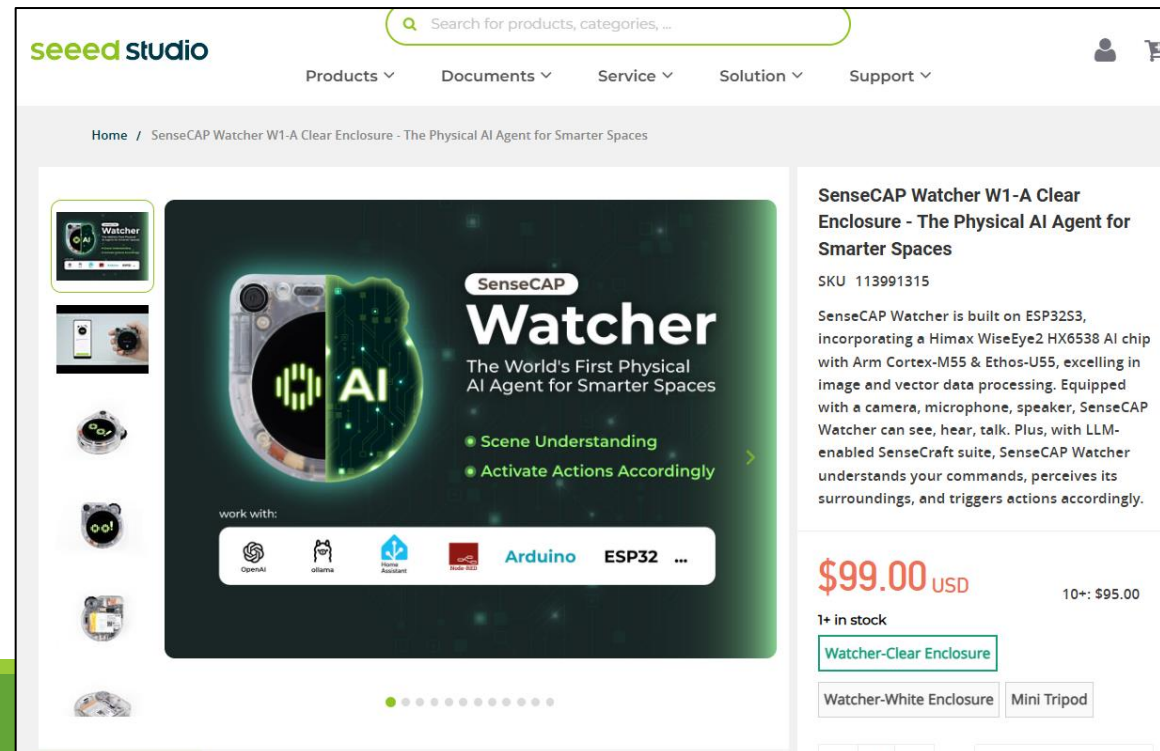
~~Kickstarter~~ 1個から購入可能

SenseCAP Watcher W1-A

<https://www.seeedstudio.com/SenseCAP-Watcher-W1-A-p-5979.html>

SenseCAP Watcher W1-B

<https://www.seeedstudio.com/SenseCAP-Watcher-W1-B-p-5980.html>



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