seeed studio

INDUSTRIAL PRODUCT DATASHEET

SenseCAP Watcher W1-A Clear Enclosure - The Physical AI Agent for Smarter Spaces

SenseCAP Watcher is built on ESP32S3, incorporating a Himax WiseEye2 HX6538 AI chip with Arm Cortex-M55 & Ethos-U55, excelling in image and vector data processing.

SKU	UPDATED	PRICE
113991315	2026-11-11 09:42:26	$54.90(Excl. VAT)



Overview



SenseCAP Watcher is built on ESP32S3, incorporating a Himax WiseEye2 HX6538 AI chip with Arm Cortex-M55 & Ethos-U55, excelling in image and vector data processing. Equipped with a camera, microphone, speaker, SenseCAP Watcher can see, hear, talk. Plus, with LLM-enabled SenseCraft suite, SenseCAP Watcher understands your commands, perceives its surroundings, and triggers actions accordingly.

Key Features

01 **Specified event**

someone takes up the pink keyboard;

02 **Specified two reactions**

1) one via voice reply, saying 'Good choice! This is our latest version, inspired by the Pink Royal Typewriter'; 2) the other via a text message to salespersons: 'Someone is interested in the latest keyboard! please go to the shelf ASAP'.

03 **Add Watcher to Home Assistant**

04 **Add Watcher to your Node-RED flow**

05 **Add Watcher to your Arduino | ESP32 and other hardware systems**

06 **SenseCAP Watcher is open source, giving you full access to thoroughly understand how it works.**

07 **It supports on-premise deployment. The backbone of SenseCAP Watcher is SenseCraft software suite, which is used to configure Watcher, interpret your commands, and access LLMs. Hence, everything is stored and running privately, ensuring that your models and data are not streamed to any public LLMs or public clouds. SenseCraft can run on Windows/ MacOS / Linux. Since SenseCraft contains LLMs, certain performance criteria are required for the computer, as follows.**

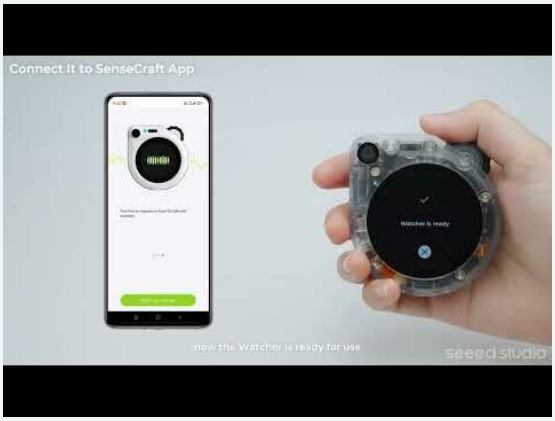
08 **Industrial-grade reliability**

Designed for industrial and commercial applications, Jetson AGX series boasts a longer MTBF (Mean Time Between Failures). Engineered for 24/7 operation, it offers superior reliability for round-the-clock applications compared to consumer graphics cards.

09 **Compact and low power**

With embedded and edge computing applications in mind, Jetson AGX series are designed in a smaller form factor and consume 3+ times less power, compared to consumer graphics cards. Suitable for constrained spaces, Jetson AGX series generates less heat and helps reduce overall operating costs. This is crucial for embedded systems.

Product Gallery














SenseCAP
Watcher

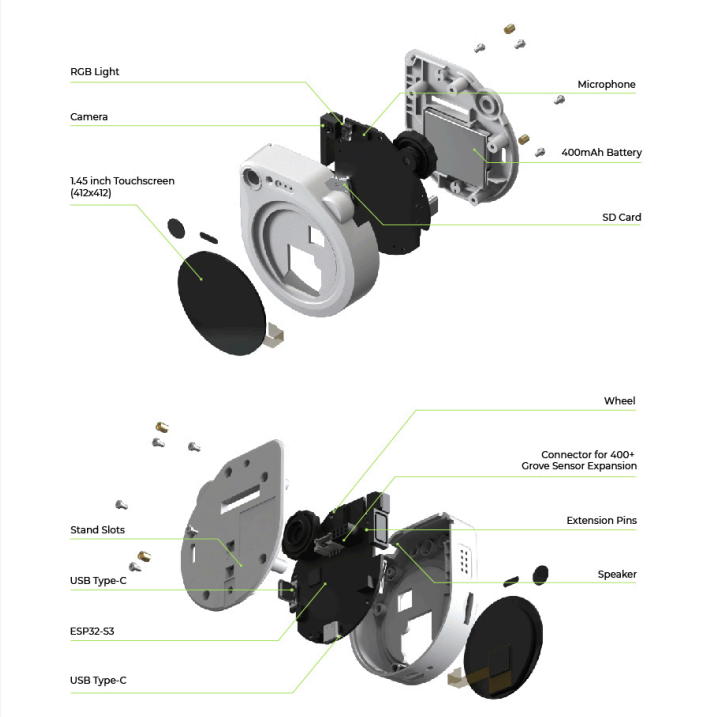







20 mm
65 mm
69 mm

Hardware Overview





Applications

- **Fun fact: Here at Seeed, Watcher has the nickname "Nobody," symbolizing a robot with No Body. This conveys a powerful message: Give Watcher a body! Watcher can be a cool head for your robot!**
- **Others used it as:**
- **Customization - Shortest Path to Build AI Hardware**
- **The next gadget should be AI-powered. Hardware with built-in AI connected to LLMs is the trend!:** With SenseCAP Watcher, we've developed a revolutionary framework that brings powerful LLMs to the very edge of the physical world. This framework speeds up AI hardware prototyping. With our customization services, you can bring your AI hardware to life faster than ever before!

Resource Links

- https://www.seeedstudio.com/SenseCAP-Watcher-W1-A-p-5979.html
- SenseCAP Watcher Brochure
- 3D print your own sunflower stand for Watcher (by Gokul)

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