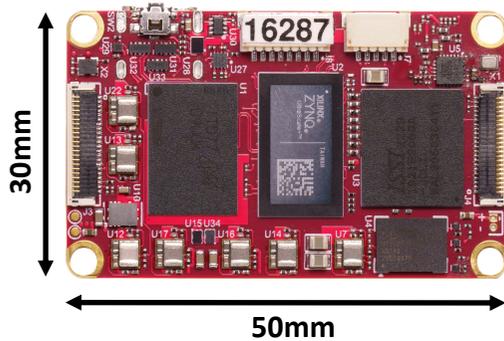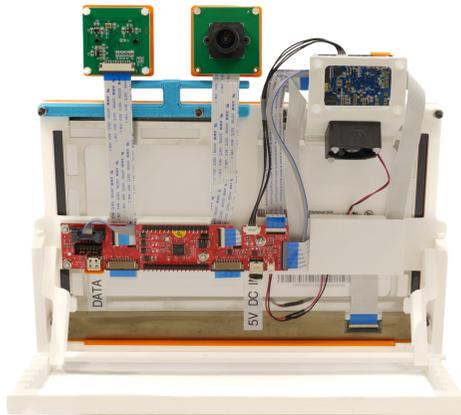# Sundance Multiprocessor Technology Ltd.

VCS³ - 3D Kit

SUNDANCE

Embedded Vision Development Platform. This kit is a self-contained hardware platform that houses the Sundance VCS³ Core, two cameras, a screen, and the VCS³ RP2040 converter card.

VCS³ Core actual size

30mm × 50mm

store.sundance.com/VCS3-3D-KIT

VCS³ Core

Pi Camera V2

10.1" screen 1920x1200

3D printed stand

VCS³ 3D KIT

The Sundance VCS³ 3D Kit is a compact, ready-to-assemble embedded vision system designed for rapid prototyping, education, and advanced development. Built around the powerful VCS³ Core (AMD Zynq™ UltraScale+™ MPSoC), the kit combines ARM processing with FPGA acceleration for real-time vision and control tasks.

The VCS³ 3D Kit demonstrates the VCS³ Core's compact size and performance in video processing applications.

Measuring just 30mm x 50mm, this tiny workhorse can be placed almost anywhere, opening up the benefits of FPGAs to many more applications.

The VCS³ 3D Kit also includes dual camera modules, a 10.1" high-resolution display, a VCS³ RP2040 co-processor board, and a complete set of 3D-printed mounts, enclosures, and cables, enabling users to quickly assemble a fully functional stereoscopic vision system.

Ideal for machine vision, robotics, sensor fusion, and FPGA-accelerated computing, the VCS³ 3D Kit offers a professional-grade platform in a compact, desktop-friendly form factor — perfect for labs, developers, and innovators pushing beyond traditional single-board computers.

Components included:

- 1x Sundance VCS³ Core
- 1x Sundance VCS³ RP2040 card
- 1x screen (10.1", 1920×1200, 34 pin)
- 2x Raspberry Pi Camera Module 2 (15 pin)
- 1x fan (30mm x 30mm, 5V)
- 1x mini JST 2 pin male connector
- 3D printed holder for the system
- Full cable kit
- Full fixings kit