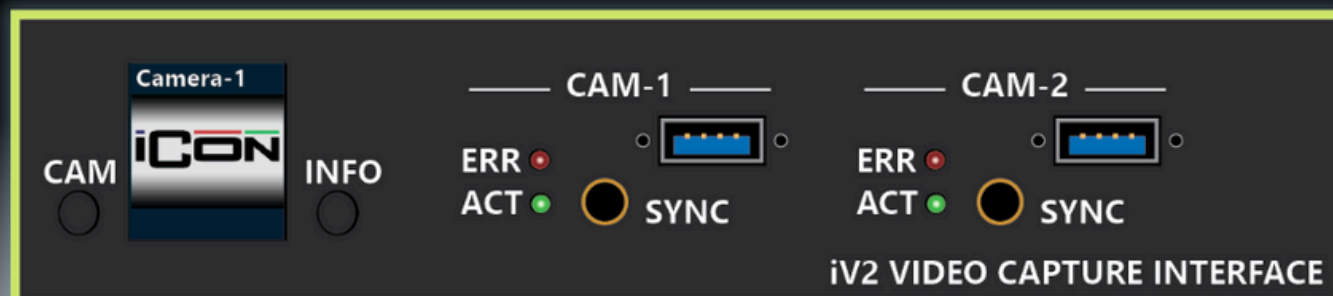# iCON

TDT
TUCKER–DAVIS TECHNOLOGIES

IVN - VIDEO PROCESSORS
A Member of the iCon Family of Devices

iVn Video Capture and Processing

iVn modules provide integrated video capture that is fully synchronized frame-by-frame with all other experimental data. The powerful IV2 model supports two cameras and adds real-time video tracking for behavioral feedback and closed-loop control experiments. For experiments that do not require positional tracking, the IV1 model offers a cost-effective solution for synchronous video capture from a single camera. We offer multiple camera options to cover a range of environments including infrared (low-light) recording

Features

- Framing synchronization to all system data
- Full framing and image capture control
- Onboard video compression to MP4 video files
- Powerful easy to configure small animal tracking
- Fully integrated into Synapse and Pynapse

Applications

- Open Field Behavior
- Radial Arm Maze Learning
- Morris Water Maze
- Condition Place Preference studies
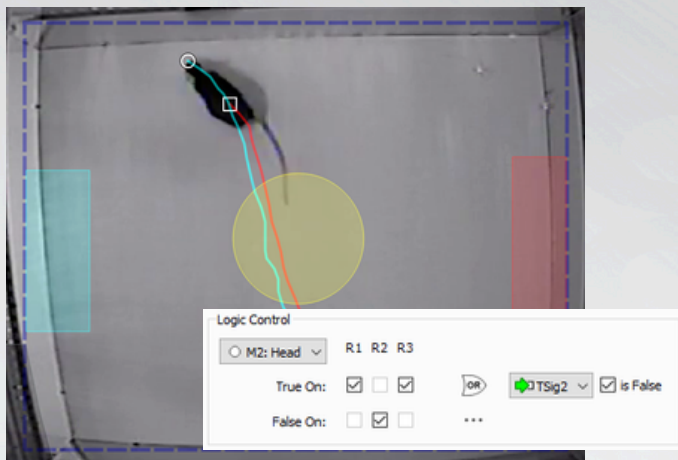- Novel Object Recognition
- Freely-Behaving Subjects

Have a question or would like to see a demo? Contact us today.

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Synapse Software

You can effortlessly set up and manage the capture and tracking capabilities of the iV1 and iV2 within Synapse. Create intricate subject tracking arenas with multiple target areas that produce yes/no behavioral outputs for use in your experiments. All positional data is stored, synchronized with your neural data. With Synapse incorporating video capture/tracking into your experiments is a snap.
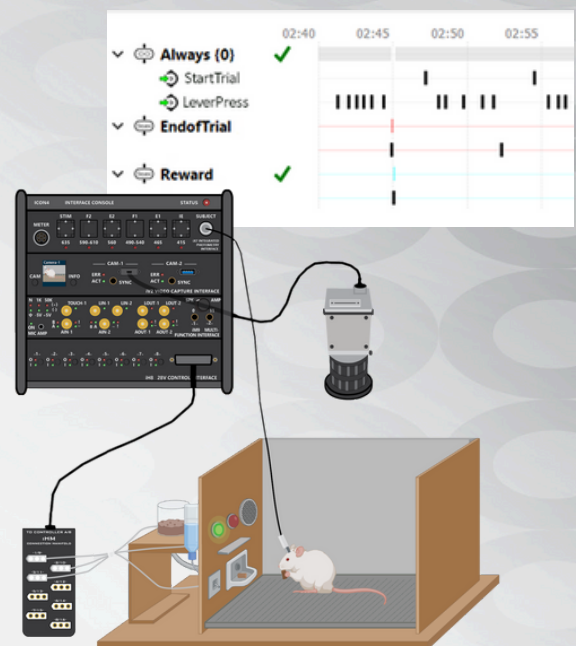
The iCon Platform

iCon is a cutting-edge hardware and software that allow you to configure the exact system you need. The unique modular hardware architecture enables users to mix and match devices for different experiments, including operant behavior, photometry, electrophysiology, and more. Best of all: iCon devices are designed to be integrated with Pynapse, our powerful behavioral coding environment embedded within Synapse.

Specifications

iV1	iV2
Single Camera	Dual Camera
60 fps at 800x600	160 fps at 800x600
	Two Tracking Models
	Multi-Subject Tracking