

# FR3 Duo

PROTOTYPE

FR3 Duo combines two Franka Research 3 on a single mount, delivering a reference dual-arm system for control, manipulation, and imitation learning. Out-of-the-box, it minimizes integration overhead and speeds up time to research.



## 1. Same Trusted FR3, times Two

FR3 Duo uses two fully featured FR3 Arms — combined in a compact mount for bimanual use cases. All capabilities of the standalone FR3 apply, including force sensitivity and low-level 1 kHz access through Franka Control Interface (FCI). The setup allows exploration of advanced dual-arm scenarios without added integration effort.

## 2. Ready-to-Use Robot System

Franka Robotics provides a curated, pre-integrated setup: FR3 Duo comes with robot arms, control boxes, grippers, and cameras. FR3 Duo is integrated with ROS 2 and the rest of the ecosystem via FCI. It is optimized for quick deployment and minimal setup, supporting research from day one.

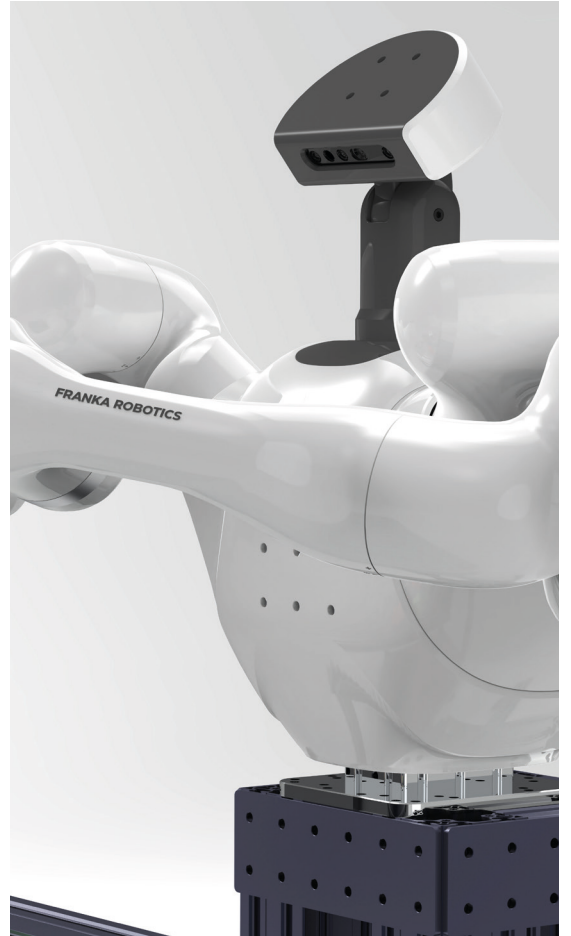
## 3. Perception & Expandability

The head-mounted stereo camera offers a wide field of view — ideal for teleoperation, augmented reality, and HRI. Additional torso and wrist cameras provide local perception for precise manipulation and close-range interaction. The torso cover and mount include extension points for future upgrades and research add-ons.

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Reach per Arm  
855 mm



Payload per Arm  
3 kg



Torque Sensors per Arm  
7



DOF per Arm  
7



Expandability  
Mech. and electr.  
connection points



Vision  
Head, Torso,  
2x Wrists



Control Freq.  
1 kHz  
(FCI)



Community  
Extensive  
resources

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