FANUC CRX-10*i*A Series

The next generation in collaborative

CRX-10*i*A

Easy Gripper Connection

Easy Operation

Manual Guided Teaching

Ergonomic Design

Lightweight at <40KG

Easy to Install

Flexible and Capable

1,000mm/sec collaborative speed

2,000mm/sec high speed mode

Through-arm cabling: I/O + vision or force

IP67 rating for arm & IP54 for vertical controller

Flexible mounting: floor, angle, invert

Standard and Long Arm Variants

Longer J2 arm

CRX-10*i*A

- **10kg payload**
- **1,249mm reach**

CRX-10*i*A/L

- **10kg payload**
- **1,418mm reach**

Specifications

Model		CRX-10*i* A	CRX-10*i* A/L
Type		6 axes (J1, J2, J3, J4, J5, J6)	
Reach		1249 mm	1418 mm
Installation (Note 1)		Floor, Upside-down, Angle mount	
Motion range (Maximum speed) (Note 2)	J1 axis	380° (120°/s) 6.63 rad (2.09 rad/s)	360° (120°/s) 6.28 rad (2.09 rad/s)
	J2 axis	360° (120°/s) 6.28 rad (2.09 rad/s)	
	J3 axis	570° (180°/s) 9.95 rad (3.14 rad/s)	540° (180°/s) 9.42 rad (3.14 rad/s)
	J4 axis	380° (180°/s) 6.63 rad (3.14 rad/s)	
	J5 axis	360° (180°/s) 6.28 rad (3.14 rad/s)	
	J6 axis	380° (180°/s) 6.63 rad (3.14 rad/s)	
Maximum speed (Note 2, 3)	Collaborative mode	1000 mm/s	
	High speed mode	2000 mm/s	
Max. load capacity at wrist		10 kg	
Allowable load moment at wrist	J4 axis	34.8 Nm	
	J5 axis	26.0 Nm	
	J6 axis	11.0 Nm	
Allowable load inertia at wrist	J4 axis	1.28 kg·m^2	
	J5 axis	0.90 kg·m^2	
	J6 axis	0.30 kg·m^2	
Repeatability (Note 4)		±0.04 mm	
Mass (Note 5)		40 kg	
Noise (Note 6)		70 dB or less	
Degree of protection		IP67	
Installation environment		Ambient temperature : 0 to 45℃ Ambient humidity :Normally 75% or less (No dew nor frost allowed) :Short term 95%RH or less (within one month) Vibration acceleration : 4.9m/s^2 (0.5G) or less	
Matching controller R-30*i* B Mini Plus	Rated Voltage	AC 100-120V, AC200-240V Single phase , 50/60Hz	
	Inpu power source capacity	1.5KVA	
	Mass of controller	20 kg	
	Dimensions(WxDxH)	410x277x370 mm	
	Degree of protection	IP54	

High Collaborative speed
(High Speed Mode available)

Strong Wrist Performance

Lightweight and Precise

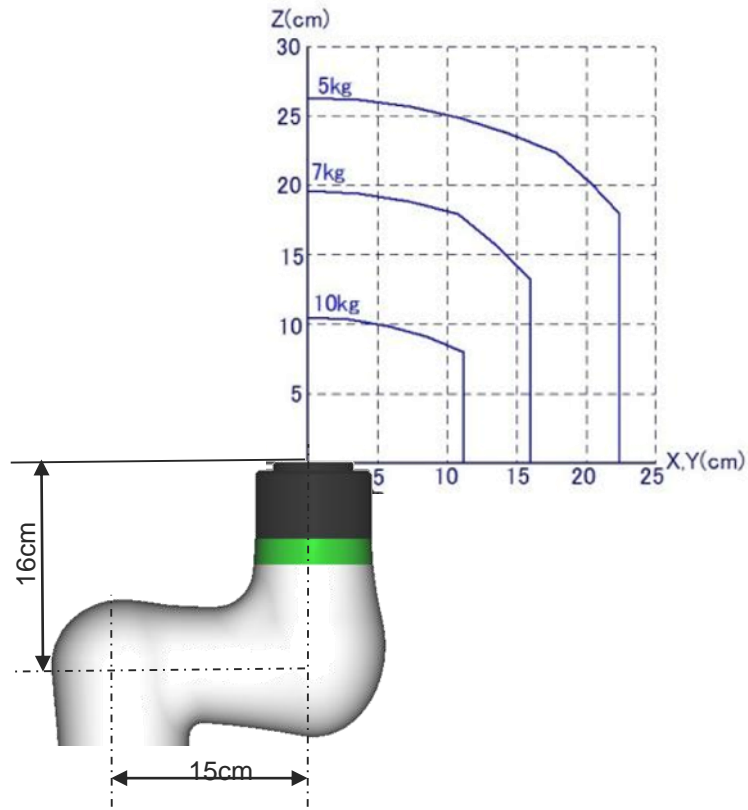Lightweight Industrial Controller
(Supports 100~120VAC)

CRX-10*i*A/L Flip Under

- Reduced interference area by utilizing under flip motion

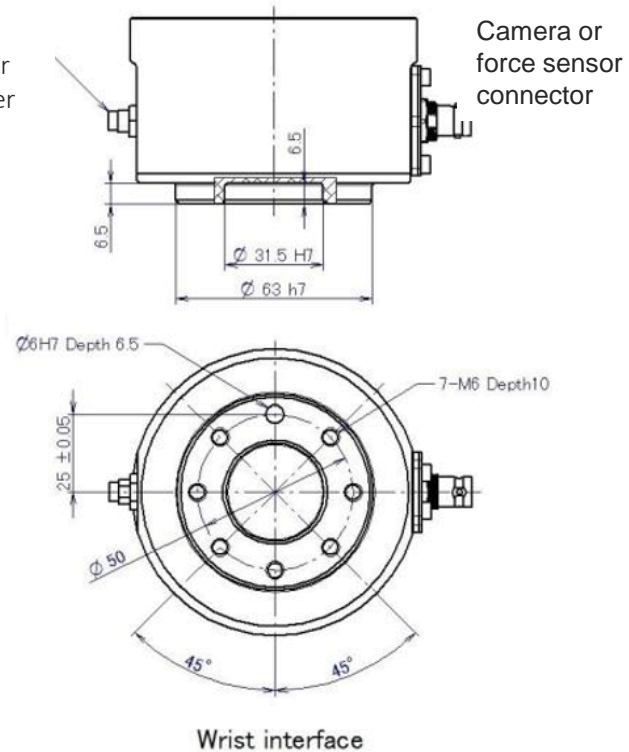- Higher productivity and improved efficiency

Flip Under Motion

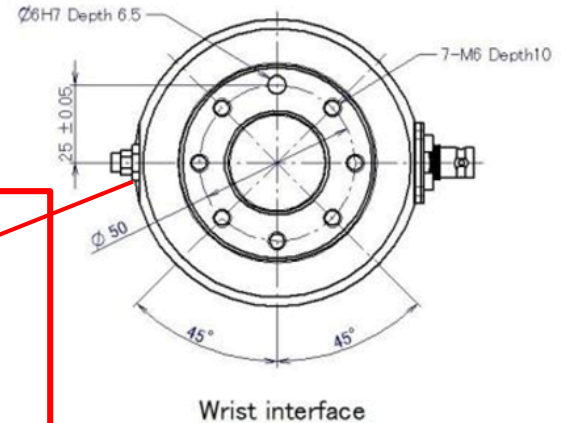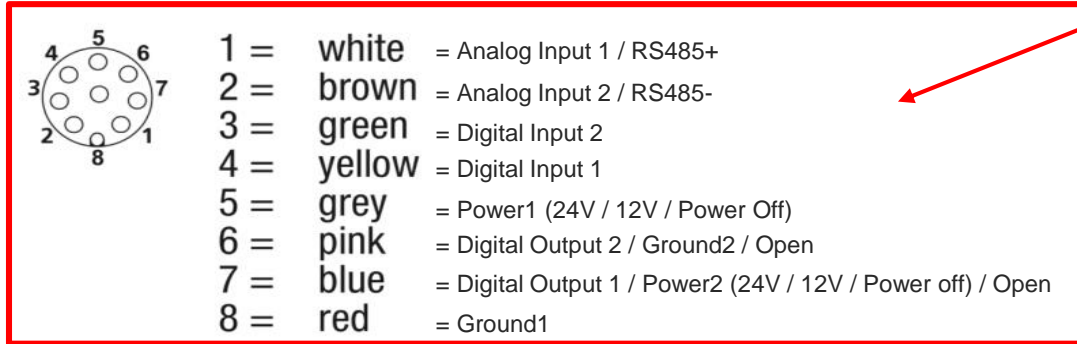# Wrist Interface and Wrist Load Diagram

M8 connector for gripper

Camera or force sensor connector

Wrist interface

Wrist Interface and Wrist Load Diagram

User-side EOAT connector M8 (female)

1 = white = Analog Input 1 / RS485+
2 = brown = Analog Input 2 / RS485-
3 = green = Digital Input 2
4 = yellow = Digital Input 1
5 = grey = Power1 (24V / 12V / Power Off)
6 = pink = Digital Output 2 / Ground2 / Open
7 = blue = Digital Output 1 / Power2 (24V / 12V / Power off) / Open
8 = red = Ground1

Wrist interface

Connector for EOAT : M8 connector for signal (female)
Digital Output : default PNP, switchable to NPN
Power1/2 , Ground1/2 : 1A max each
Power1 , Ground1 : 2A max (when 6 and 7 pins are not used(Open))
Digital Output1/2 : 0.5A max each

New Lightweight Controller: R-30iB Mini Plus

- **Compact controller weighs at <20kg**
- **Support two input power:**
  - AC100-120V (single phase)
  - AC200-240V (single phase)

- **Intelligent Features:**
  - iRvision, iRPickTool and
  - Force Sensing

370mm

410mm

277mm
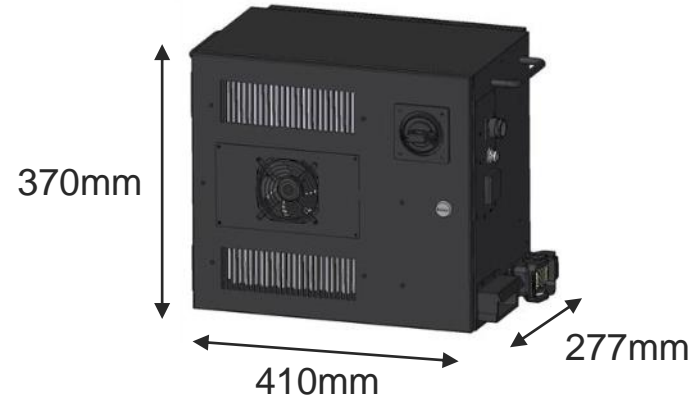
New Tablet Teach Pendant

- Combines base, tablet and apps for easy programming and operation

- Tough tablet comes dust/liquid proof and impact resistant

New Intuitive Touch Panel User Interface

Menu and Status Bar

- Dropdown menu
- Status icons

3D View Area

- Robot status graphics
- Displays teaching points

Timeline Program View

- Intuitive program representation
- Simple program navigation

Programming

- Drag & drop icons to the timeline
- Parameters adjustable in details
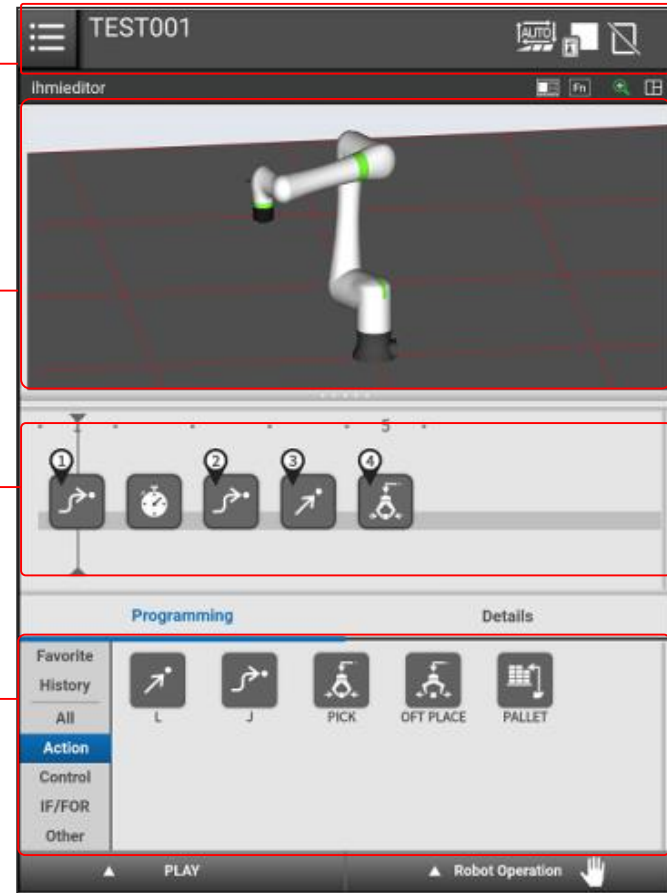
Easy Application Setup

- **Setup real applications easily with Advanced Icon Instructions!**
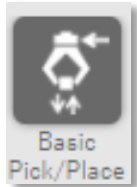
Pick/Place with single icon
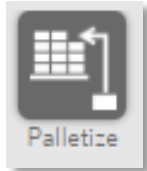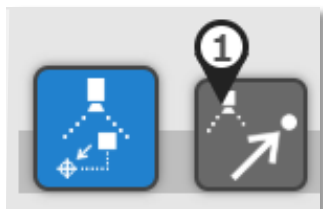
Easy Pallet Setup
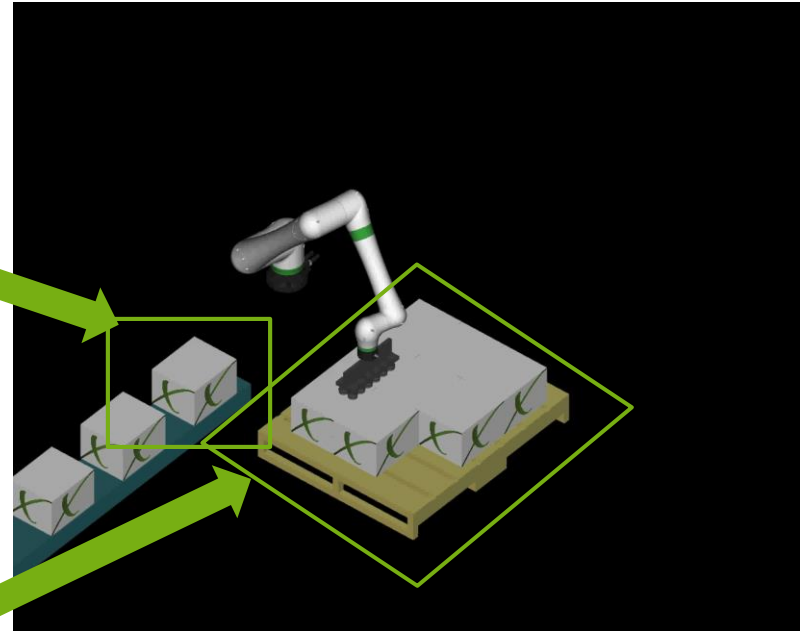
Easy Vision Setup

- **Easily setup iRVision applications with new Tablet TP UI!**
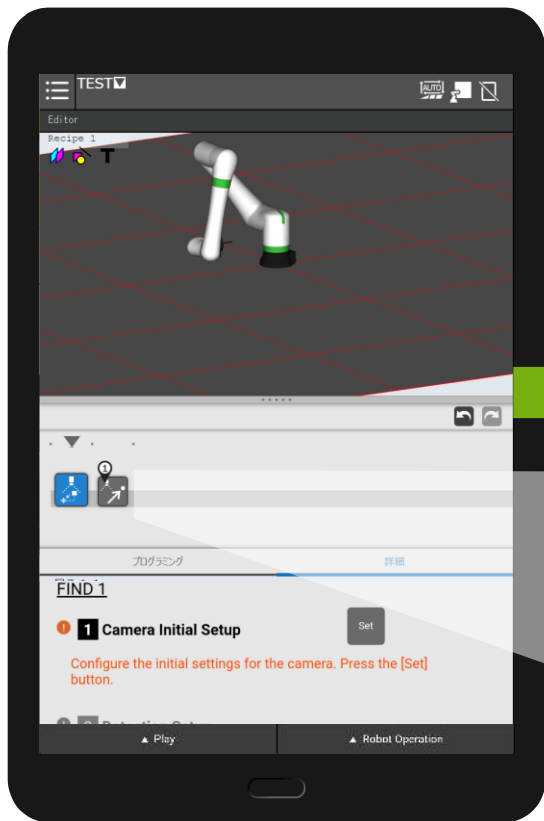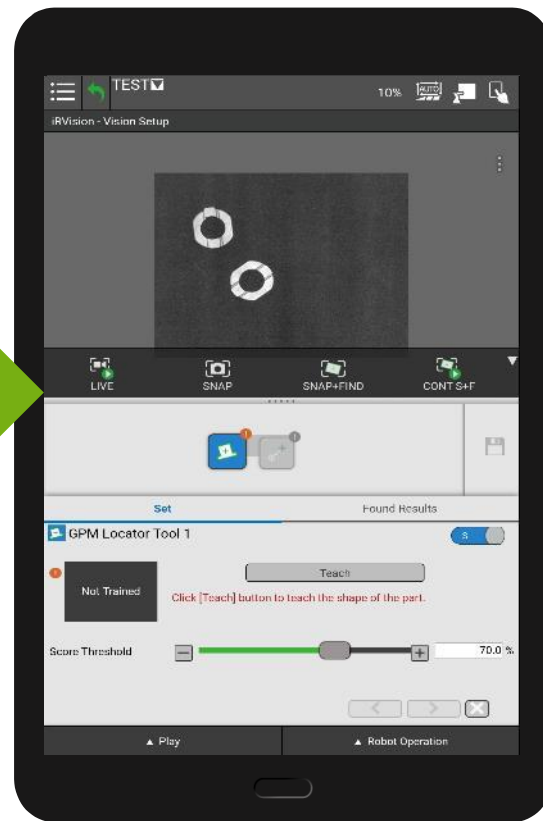

Integrated Vision Setup

FIND   Offset Motion

Easy Calibration

Parameter Auto-tuning
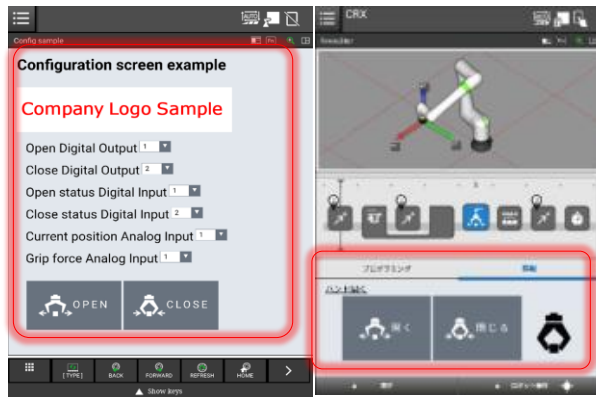
New Peripheral Software Interface

Main menu (example)

Custom command/details screen (example)

- Display custom menus and execute custom commands for peripheral devices by adding plug-ins

- Peripherals plug-ins development tool is available. For more information, contact https://www.fanuc.co.jp/ja/contact/form/index.html to request "CRX Plug-ins Development Tool."

- The list of plug-ins for the CRX-ready peripherals will be made available on the FANUC website along with reference to each company's website.

- Plug-in software will be obtained through the peripheral device company
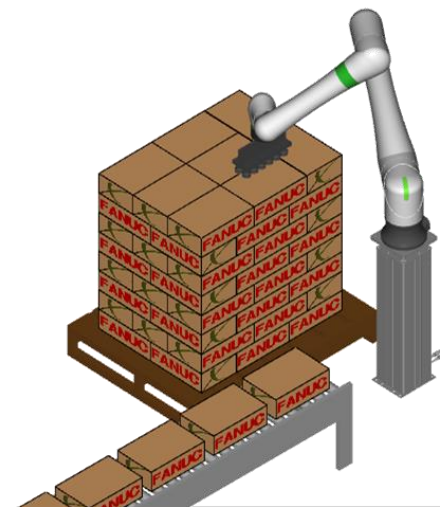
CRX Application Examples

QSSR – Machine Tending

Intelligent – Visual Tracking

Palletizing

AND MANY MORE!!!!!