

# DOBOT Nova Series SmartRobot Owner's Manual

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## DOBOT Nova Series SmartRobot

DOBOT Nova Series – Collaborative Robots For The Commercial Sector

### Product Specifications

- Model: Nova 2, Nova 3
- Weight: 11 kg (24.3 lbs), 14 kg (30.9 lbs)
- Payload: 2 kg (4.4 lbs), 5 kg (11 lbs)
- Working Radius: 625 mm (24.6 in), 850 mm (33.5 in)
- Maximum Speed: 1.6 m/s (63 in/s), 2 m/s (78.7 in/s)
- Range of Motion: J1 to J6
- Maximum Joint Speed: Typical value, Maximum value –
- End IO: 2 inputs
- Repeatability: Supported
- IP Classification: IP54
- Noise: 65 dB (A), 70 dB (A)
- Working Environment: Temperature, Humidity –
- Power Consumption: 100W, 230W, 250W, 770W
- Installation Orientation: Any angle
- Cable Length to Controller: 3 m (9.84 ft)
- Materials: Aluminum alloy, ABS plastic
- Product Size: Controller 200 mm x 120 mm x 55 mm (7.9 in x 4.7

in x 2.2 in)

- Weight Input Power
- IO Power
- IO Interface
- Communication Interface
- Environment Remote Power On/Off
- DI DO AI AO Network interface USB 485 interface

## **Product Usage Instructions:**

- Step 1: Connect the robot to the power source using the input power cable.
- Step 2: Choose the appropriate installation orientation as per your requirement.
- Step 3: Connect the IO power cable to the robot.
- Step 4: Connect the IO interface to the robot.
- Step 5: Connect the communication interface to the robot.
- Step 6: Connect the network interface and USB 485 interface to the robot if required.
- Step 7: Turn on the robot using the remote power on/off feature.
- Step 8: Teach the robot via hand guiding and graphical programming as per your requirement. It is easy to learn and operate, and no prior experience is required. Training a Nova takes as little time as 10 minutes.
- Step 9: Use the robot for various applications such as latte art, brewing tea, cooking noodles, frying chicken, moxibustion, massage, and ultrasonography based on the specific model you have purchased.

**Note:** The Nova series offers clean design aesthetics and is easy to use. Having multiple safety features with customizable colors, Nova is not only safe to work alongside but also fits effortlessly into surroundings. It is ideal to take restaurant, retail shop and physiotherapy experiences to the next level.

### **DOBOT Nova Series**

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## **Key Features**

### **Peace of Mind**

- **Built in multiple safety features.**

Nova is equipped with sensors offering 5 adjustable levels of collision detection. Operation stops in 0.01 second upon detecting collision. Additional safety features such as human motion sensing and posture freeze upon power shutoff realize much desired human-robot collaboration.

### **Lightweight and Portable**

- **Minimum space. Maximum performance.**

Compact joint design results in a light body. Accompanied by a palm-sized control box, Nova occupies just 1 square meter of space. Minimum re-arrangements of store layout are needed.

## Easy to Learn and Operate

- **No prior experience required.**

Teach Nova via hand guiding and graphical programming. Simple yet elegant that anyone can master. Training a Nova takes as little time as 10 minutes.

## Customization

- **Create your unique Nova.**

Industry first bespoke service on color customization. Take your branding to the next level with your personalized Nova.

## Application Scenarios

### For Retail


The Nova 2 is made specifically for retail stores looking for automation. 625 mm working radius and 2 kg payload easily meet the demand of most tasks.

### For Physiotherapy

The Nova 5 is made specifically for physiotherapy scenarios. 800 mm working radius easily reaches massage spots like the neck, back and waist.

## Product Specifications

## Documents / Resources

	<a href="#">DOBOT Nova Series SmartRobot</a> [pdf] Owner's Manual Nova Series SmartRobot, Nova Series, SmartRobot
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## References