

FACTORY AUTOMATION

mitsubishi electric industrial/collaborative robot
High-Performance Teaching Box R86TB



Easy operation with just this one teaching box

- Easy to operate, intuitive user interface
- Major functions of the engineering software incorporated
- Data analysis ways provided for troubleshooting

Applicable to a wide range of work quickly

The R86TB is a new teaching box further evolved from the conventional high-performance teaching box.

Even if a computer cannot be brought to the site, one teaching box can handle a series of processes from setup to maintenance, reducing time and cost.

Improved operability

Accessible from any screen

Customizable

*Shortcut registration,
user definition screens*

3D monitor incorporated

Visualization of setting areas

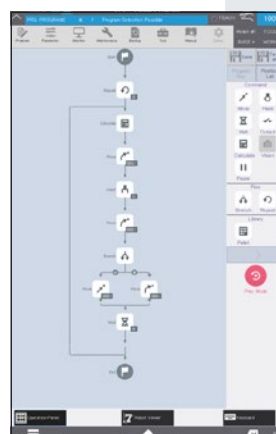
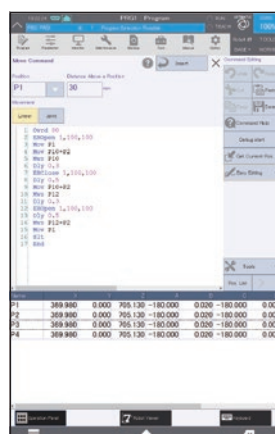
Security function

File editing can be restricted with a password, and use of functions can be restricted with user authority settings.

Feature 1

Easy to operate, intuitive user interface

Any function can be accessed from the Home screen or page list, and programs can be edited using the easy edit function or templates. The visual program function is included in addition to the programming function in MELFA BASIC.



Feature 2

Major functions of the engineering software incorporated

Visualization of setting areas on the 3D monitor screen, settings of safety logic, monitoring of signals, variables, and load conditions, and more features can be utilized with just this one teaching box.

The 3D monitor screen can display layouts created in RT ToolBox3.



Creation



Improved processing speed

Stress-free operability

Secure hardware buttons

Tactile and consistent operation using physical buttons.

Visual program function included

Robot programs can be created intuitively without specialized knowledge.

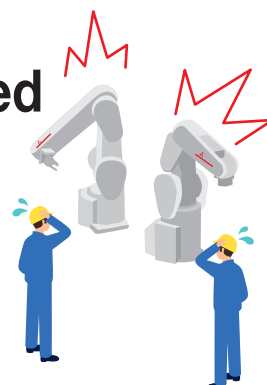
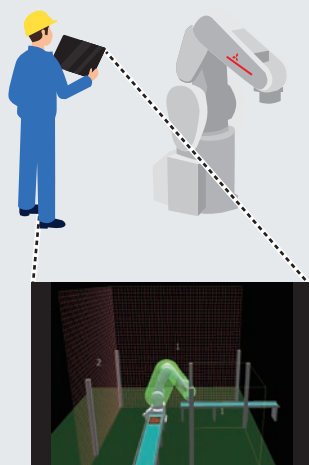
Abundant information on the large screen display

10.1-inch high-definition display

Feature 3

Data analysis ways provided for troubleshooting

Various types of displays and analysis screens make it possible to perform trouble diagnosis and achieve early troubleshooting without a computer.



Monitoring functions equivalent to those of RT ToolBox3

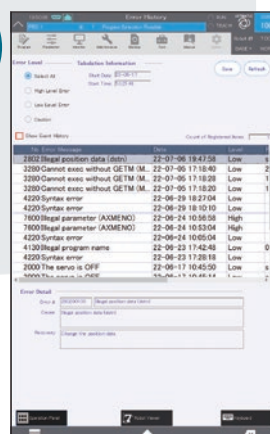


Layout reading

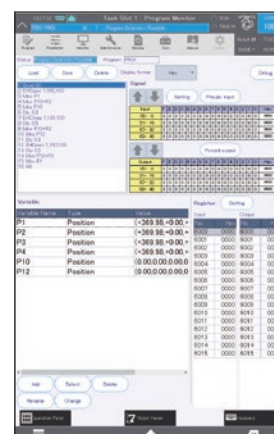


▲ Oscilloscope function*

* Not available for CR800-R/Q and CR860-R/Q controllers.



▲ Error history



▲ Program monitor

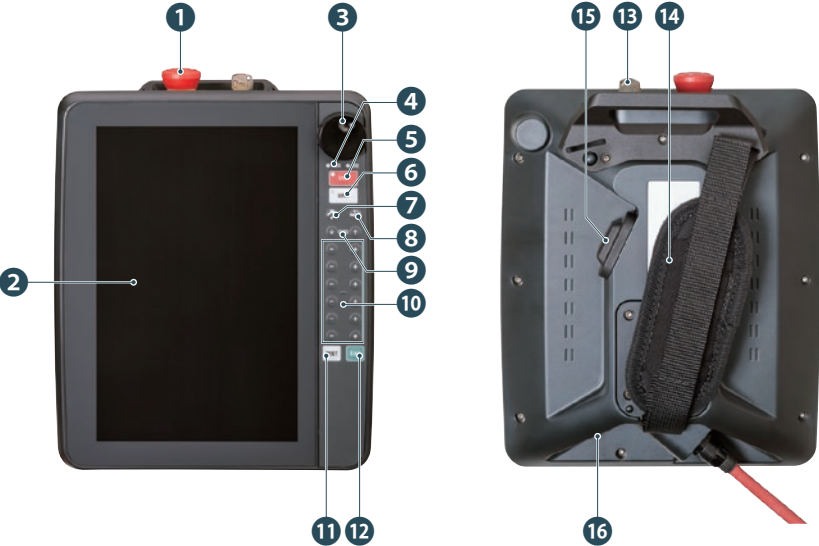


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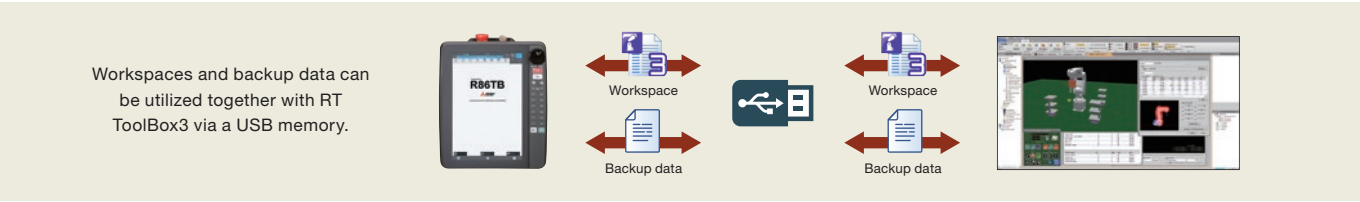
Specifications

Item	Description
External dimensions	215mm (width) × 284mm (height) × 76mm (depth)
Mass	Approx. 1,200g (only the teaching box, excluding cables)
Body color	Dark gray
Connection method	Connected with the controller using a dedicated connector, Cable length: 7m
Interface	USB port × 1 (32G bytes or less)
Display	10.1 TFT (800 × 1280) color touch panel with a back light
Operation section	Display (touch panel), emergency stop button, enable switch (3-position), wheel, operation-specific key × 20
Display language	Japanese/English/simplified Chinese/traditional Chinese
Compatible controllers	CR800 series, CR700 series (Extension cable model: 2F-32EXTBST-□□M (□□: 01, 05, 10, 15m)), CR751 (Conversion cable required, Conversion cable model: 2F-32CON□□M (□□: 01, 05, 10, 15m))
IP rating	IP65 (excluding conversion and extension cables, and the connector section)

Part names



No.	Name
1	Emergency stop button
2	Display (touch panel)
3	Wheel
4	Power lamp and error lamp
5	STOP button
6	SERVO button
7	HAND button
8	JOG button
9	OVRD button
10	+/- button
11	RESET button
12	EXE button
13	Key switch
14	Grip handle
15	3-position enable switch
16	USB connector



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