

KURASENSE-TM ROBOT

QUICK START GUIDE

1. Package Contents

The following items are included in the KURASENSE-TM Robot package:

• KURASENSE 3D Sensor

Captures 3D visual data to enable precise part recognition and positioning.

• KURASENSE Controller

Acts as the central unit for managing sensor input and communication.

• Power Adapter

Supplies power to the controller and connected devices.

• Calibration Board

Used during initial setup to calibrate the 3D camera for optimal accuracy.

All components are securely packed in a cardboard box. Please inspect each item upon unpacking to ensure they are undamaged and complete. For further mounting details, refer to the official KURASENSE Manual.

Components Inside Package



2. Hardware Installation

2.1 Mounting KURASENSE on TM Robot

To install the KURASENSE system onto the TM Robot:

Design a Custom Mounting Plate

A custom plate should be fabricated to securely hold both the KURASENSE 3D camera and the controller. While the shape can be adjusted to suit your application, the mounting hole specifications must remain unchanged.

a. KURASENSE-C100FX (Head Section)

- Mounting specifications:
 - o 4 × M4 threaded holes (depth: 8 mm)
 - \circ 1 × φ 4 H7 positioning hole

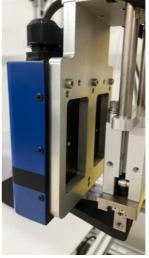
b. KURASENSE-C100FX (Controller Section – 2024/5~ Model)

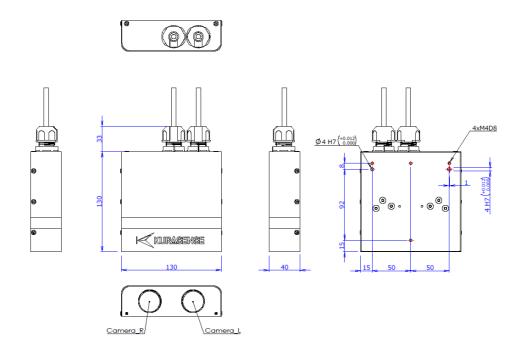
- Mounting specifications:
 - \circ 6 × M4 threaded holes (depth: 10 mm)

Please refer to the official **KURASENSE Manual** for detailed mechanical drawings and mounting guidance.

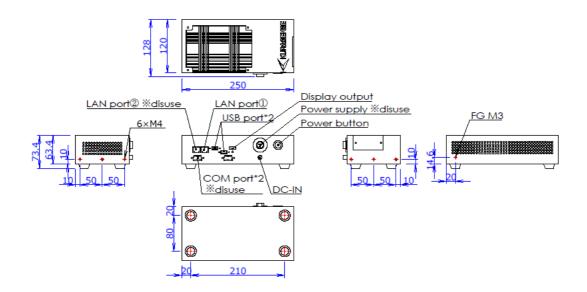
Example of Custom Mounting Plate







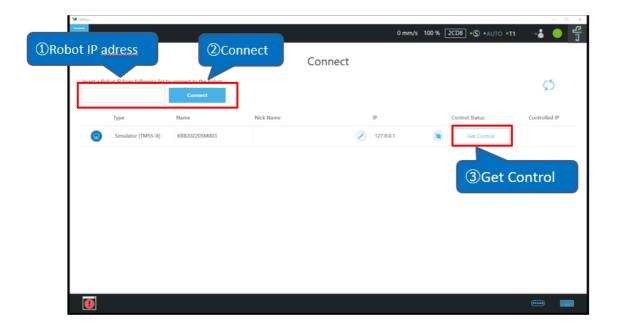
Kurasense-C100FX 2nd model (2024/5~) Controller section J



3. Software Setup

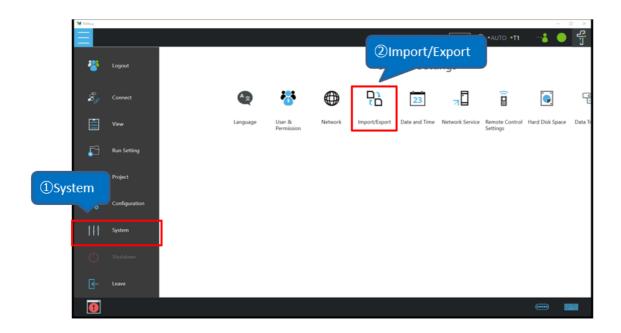
3.1 Launching TMflow

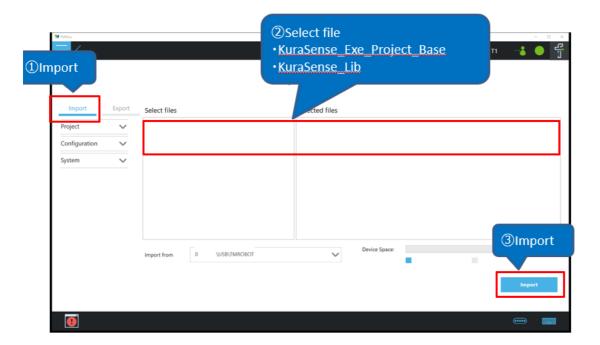
- Power on the TM Robot.
- Launch the **TMflow** software.
- Connect TMflow to the corresponding robot via the robot's network settings.



3.2 Importing the Project

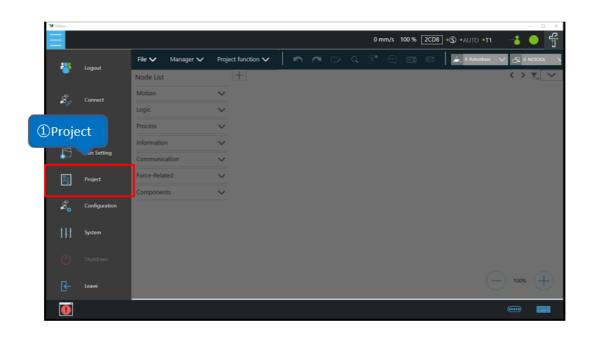
- In TMflow, go to **System** → **Import Project**.
- Locate and select the provided KURASENSE TMflow project file.
- Click **Import** to load the project into TMflow.

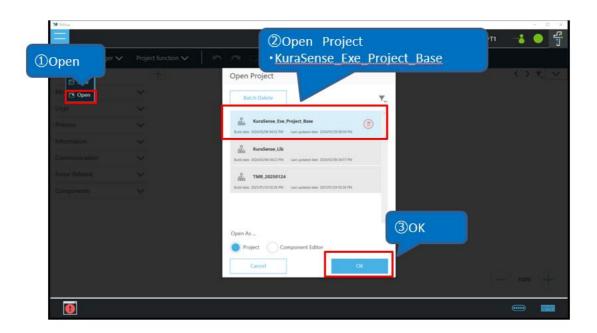


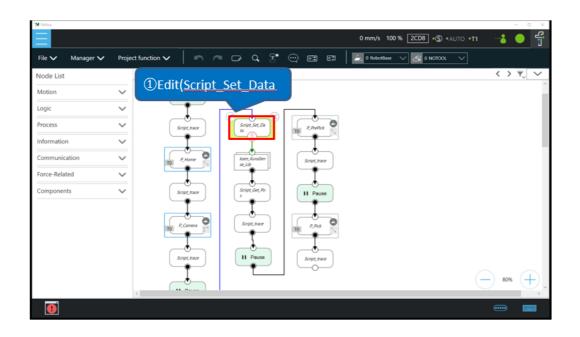


3.3 Configuring the Script

- Open the imported project within TMflow.
- Navigate to the Script_Set_Data section
- Edit the communication data within Script_Set_Data.









名前 Name	設定値 Value	説明 Description
var ksen IP Address	192.168.XXX. XXX	クラセンスのIPアドレス Kurasense IPaddress
var ksen Port No	10900 (Fixed)	クラセンスの通信ポート番号 Kurasense ConnectionPortNo
var ksen TriggerID	1(Optional)	トリガID(任意) TriggerID(Optional)
var ksen FuncMode	1~5 101,102	認識機能 FunctionMode
var ksen DetectNo	1~10	パラメータNo
var ksen CalibNo	1~10	キャリブレーションNo
var ksen CamNo	1~10	カメラNo
var ksen Reserve[0]~[4]	1	予約 (全て1) Reserved (All 1)
var ksen Rob eRx	Floating	計測時のロボットの姿勢情報(Rx.Rv.RZ) Robot Posture Information During Measurement(Rx.Rv.RZ)
var ksen Rob eRy		
var ksen Rob eRz		

3.4 Running the Project

- Once configured, run the project directly from TMflow.
- Use the **test component** to verify data reception and task execution.
- Adjust logic or parameters based on the application as needed.

