📸 ESP32-CAM Image Collection Guide for Edge Impulse

# 🔧 Step 1: Install the Library

1. Open Arduino IDE.  
2. Go to Tools > Manage Libraries.  
3. In the Library Manager, search for 'EloquentEsp32cam'.  
4. Click Install.

# 📂 Step 2: Open the Example Code

1. Navigate to:  
 File > Examples > EloquentEsp32cam > Collect\_Images\_for\_EdgeImpulse  
2. This example is used to collect images suitable for Edge Impulse datasets.

# 📶 Step 3: Add Your Network Credentials

In the opened example, locate these lines at the top and update them with your WiFi details:

#define WIFI\_SSID "YourNetworkName"  
#define WIFI\_PASS "YourPassword"

# 🔄 Step 4: Set Camera Model

Under the setup() function, make sure you select the correct camera model.  
Replace or ensure this line exists:

camera.pinout.aithinker(); // For AI Thinker ESP32-CAM board

✅ Note: This line must be placed inside the setup() function, not the main loop.

# 🔌 Step 5: Upload the Code

1. Select the correct board: AI Thinker ESP32-CAM.  
2. Select the correct COM port.  
3. Press Upload.  
4. After upload, open Serial Monitor at 115200 baud.

# 🌐 Step 6: Collect Images

Once connected to Wi-Fi, the serial monitor will show something like:  
\_\_\_IMAGE COLLECTION SERVER\_\_\_  
Camera OK  
WiFi OK  
Image Collection Server OK  
http://xxx.xxx.xxx.xxx

Open the provided IP in your browser.  
Capture and label images directly from your ESP32-CAM!