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1 Python SDK File

1.1 Python SDK File

It contains all the commands supported in the Dynamic Nizi POS | B30. The commands are sent in the form of arguments to the device.

1.1.1 File name: B30Sdk.py

1.1.2 Send a QR Code:

- python B30Sdk.py qr 123.23 "SCAN TO PAY"

1.1.3 Upload Real time Image:

- python B30Sdk.py realtime "path/to/image.jpg"
- Example: B30Sdk.py realtime "C:\Users\thapa\OneDrive\Documents\study\Internship\NiziPOs\Assests for pos\Screen.jpg"

1.1.4 Get Idle Screen:

- python B30Sdk.py idle
- This will send an "IDLE" command to the device

1.1.5 Logo Image Upload

- python B30Sdk.py image "path/to/image.jpg"

1.1.6 Text Display

- python B30Sdk.py text "Main Title" "Subtitle" "Message"

1.1.7 Loading Command

- python B30Sdk.py loading 560.50 "Please wait..."

1.1.8 Success Command

- python B30Sdk.py success "SUCCESS!" "Payment successful"

1.1.9 Failure Command

- python B30Sdk.py failure 560.50 "Payment Failed"

1.1.10 Warning Command

- python B30Sdk.py warning "Device Not Ready" "Please wait"

1.1.11 Information Command

- python B30Sdk.py info "Important" "Keep device connected"

1.1.12 Reset Command

- python B30Sdk.py reset

1.1.13 Format Command

- python B30Sdk.py format

1.1.14 Set Screen-time Command

- python B30Sdk.py screentimer 60

1.1.15 Wake Command

- python B30Sdk.py Wake

1.1.16 Important Notes

1. All commands require the device to be connected
2. For commands with spaces in messages, use quotes
3. Image upload requires specific format and size requirements which are included in the document below.
4. Format will remove the logo uploaded to the device and default logo will appear.

5. All commands end with a newline character

6. The device must be connected before running any commands

2 Requirements and Dependencies Documentation

The requirements and dependencies required to be present in order to run the above python file:

2.1 Python Dependencies

The following Python packages are required:

2.1.1 Core dependencies

i. pyserial>=3.5 For serial communication

ii. Pillow>=8.0.0 For image processing

2.2 Image Requirements

The code supports JPEG images with the following specifications:

- Format: Baseline JPEG (non-progressive)
- Dimensions: 240x320 pixels
- Maximum file size: ≤ 30KB

2.3 Usage Notes

1. The device must be connected before running the script

2. The script will automatically detect the Dynamic Nizi POS (CH341 devices).

3. If multiple devices are connected, the script will prompt for device selection

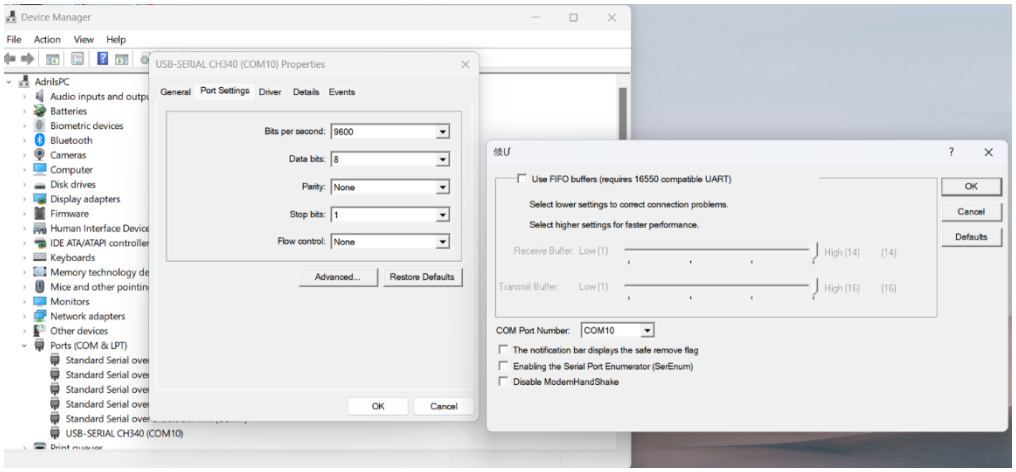
4. Default static image path can be configured in the `DEFAULT_STATIC_IMAGE` variable

3 Python File Guideline

3.1 Some steps to take to resolve the permission error in windows

3.1.1 Check Device Manager:

- Open Device Manager
- Expand "Ports (COM & LPT)"
- Right-click on your COM port
- Select "Properties"
- Go to "Port Settings" tab
- Click "Advanced"
- Make sure "Use FIFO buffers" is unchecked



3.1.2 Reset the port:

- In Device Manager, right-click on your COM port
- Select "Disable device"
- Wait a few seconds
- Right-click again and select "Enable device"

3.2 Some steps to take to resolve the permission error in Linux

- Need sudo access for the user
  - sudo usermod -a -G dialout <userName>