

Sony ILX-LR1 Remote Control GUI (Python + RemoteCli)

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Overview

This tool provides a graphical interface (built with Python and Tkinter) to control a **Sony ILX-LR1** camera via the **RemoteCli.exe** tool included in the official Sony Camera Remote SDK.

The interface allows you to:

- View RemoteCli console output in real time.
- Interact manually or through buttons to send commands.
- Automate actions such as autofocus and interval-based photo capture.
- Avoid manual menu navigation: the script enters/exits the correct submenus automatically.

Requirements

- **RemoteCli.exe** (included in the official Sony SDK)
- Windows 10 or higher
- Python 3.8 or newer
- Tkinter module (`pip install tk`)
- A Sony ILX-LR1 camera connected via USB or Ethernet

How It Works

Startup

1. The script launches **RemoteCli.exe** as a subprocess.
2. The user selects the camera manually (as prompted by RemoteCli).
3. The user enters **Remote Control Mode**.
4. After this, the Python interface takes over to control the menus automatically.

Button Functions

- **Send** – Sends any typed command directly to RemoteCli. Pressing Enter also work.
- **Focus** – Enters the “Shutter/Rec Operation Menu” and executes autofocus.
- **Focus + Photo** – Executes both autofocus and photo trigger in sequence.
- **Auto** – Starts/stops automatic photo capture every second.
- **Quitter** – Gracefully shuts down RemoteCli and closes the GUI.

Automatic Navigation

Before executing any photo or focus action, the script automatically:

1. Enters the **Shutter/Rec Operation Menu** by sending 1.
2. Sends the corresponding command:
 - 1 → Shutter Release
 - 2 + y → Half-press for autofocus
 - 3 + y → Half + Full press (focus + photo)
3. Exits the shutter menu with 0.

Installation

1. Make sure the Sony ILX-LR1 is powered on and connected via USB.
2. On the camera:
 - Go to **Setup** → **USB Connection** → **PC Remote Function**
 - Make sure **Authentication Setting** = **Off**
3. In the Remote Function menu, select **Pairing** and ensure the PC is properly paired.
4. Set the path to `RemoteCli.exe` in the Python script.
5. Launch the GUI:

```
python remotecli_gui.py
```

Common Issues and Fixes

“I don’t see the camera”

- Verify the USB cable and camera power.
- On the camera, check:
 - **Setup** → **USB Connection** → **Authentication Setting** is set to **Off**.

“Connection is refused”

- On the camera, go to **PC Remote Function** → **Pairing**
- Perform pairing again and then restart the script.

“Photo doesn’t trigger in AF mode”

- Make sure the subject is in clear focus and well-lit.
- Use the **Focus** button before capturing photos.
- Check that the **Focus Mode is set to AF-S** (Single-shot autofocus).
- Also check that no settings (like shutter speed or drive mode) prevent capture.

Future Improvements

- Dynamic parsing of RemoteCli output for adaptive state transitions.
- Full GUI pairing and focus mode toggles.
- Support for burst mode and video recording.