

QR Scanner Tools

Small, free utilities that scan QR codes live off your screen or camera — no phone-to-screenshot shuffle, no third-party app, nothing uploaded anywhere.

Three tools, pick what fits:

Tool	Platform	What it does
Full-Screen Scanner	Windows + Linux	Watches your entire screen in the background. Start it, play any video or open any image — it catches QR codes the moment they appear.
Frame Overlay	Windows only	A draggable, resizable transparent frame you park over a QR code. Scans only what's inside it.
Camera Scanner	Android (via Pydroid 3)	Uses your phone's camera to scan QR codes live, with tap-to-open-link.

If you're not sure which one you need: start with the **Full-Screen Scanner** — no positioning required, works on both desktop OSes.

Setup — Windows / Linux

1. Install Python 3

- Windows: python.org/downloads — check "Add Python to PATH" during install.
- Linux: usually preinstalled. Confirm with `python3 --version`; if missing, `sudo apt install python3 python3-pip python3-tk`.

2. Install dependencies

Download `requirements.txt` into the same folder as the scripts, then:

```
pip install -r requirements.txt      #  
Windows  
sudo apt install python3-tk libzbar0 && pip  
install -r requirements.txt      # Linux
```

3. Run it

```
python qr_fullscreen_scanner.py      #  
Windows  
python3 qr_fullscreen_scanner.py      #  
Linux
```

```
python qr_overlay.py #  
Windows only, frame overlay
```

Setup — Android (Camera Scanner)

1. Open **Pydroid 3** → menu (≡) → Pip → install `opencv-python` and `pygame` .
 2. Grant camera permission: Android Settings → Apps → Pydroid 3 → Permissions → Camera → Allow.
 3. Open `qr_camera_scanner.py` in Pydroid 3 and hit Play.
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How to use

Full-Screen Scanner — small control panel appears top-right. Click Start Scanning. Any QR code visible anywhere on screen triggers a popup with Copy / Open Link / Dismiss.

Frame Overlay — drag the green-bordered frame over a QR code by its dark top bar; resize from the bottom-right grip. Scans automatically every ~0.3s.

Camera Scanner — point your phone at a code. A banner appears at the bottom with Open Link (if it's a URL) and Dismiss.

Troubleshooting

Problem	Fix
Missing dependencies error	Re-run the <code>pip install</code> command; make sure it's the same Python on your PATH.
Nothing detected	Make sure the code is clearly visible, not blurry or moving too fast.
<code>libzbar</code> / DLL error (Windows)	Install the Microsoft Visual C++ Redistributable .
<code>libzbar</code> error (Linux)	<code>sudo apt install libzbar0</code> (Debian/Ubuntu) or <code>sudo dnf install zbar</code> (Fedora).
Full-screen scanner sees nothing on Linux	You're likely on Wayland, which blocks background screenshotting. Log out and pick "Ubuntu on Xorg" / "GNOME on Xorg" at login.
High CPU usage	Full-screen scanning polls the whole display (~0.6s interval), heavier than the frame overlay (~0.3s, small region). Close other heavy apps, or ask about lowering scan frequency.

A note on privacy

Nothing is uploaded anywhere — all scanning and decoding happens locally on your device. Links are never opened automatically; you have to tap "Open Link" yourself. Treat any scanned link the way you'd treat one from an unknown source — check it before opening if you don't trust where the video/image came from.