VideoGrabber installation (manual steps)

As administrator:

1. Install OBS Studio 27.2.4  
   (https://cdn-fastly.obsproject.com/downloads/OBS-Studio-27.2.4-Full-Installer-x64.exe)
2. Install Python 3.10.5  
   (https://www.python.org/ftp/python/3.10.5/python-3.10.5-amd64.exe)
   1. Settings for installation
      1. Install Launcher for all users
      2. Add to path
      3. Include all "Optional" features
      4. Advanced options:
         1. Install for all users
         2. Associate files with Python
         3. Create shortcuts for installed applications
         4. Add Python to environment variables
         5. Precompile standard library
         6. not Download debugging symbols
         7. not Download debug binaries
         8. Leave install location to default
         9. (c:\Program Files\Python310
3. reboot Windows
4. pip install websockets
5. pip install psutil
6. Install obs-websocket  
   (<https://github.com/obsproject/obs-websocket/releases/download/4.9.1/obs-websocket-4.9.1-Windows-Installer.exe>)
7. pip install simpleobsws  
   (or use <https://github.com/IRLToolkit/simpleobsws/tree/simpleobsws-4.x>)
8. mkdir “[C:\Program](../../../Program) Files\rfsl”
9. copy the VideoGrabber directory to “[C:\Program](../../../Program) Files\rfsl”

As patron (or the userid that patrons will use)

1. Start OBS-Studio
   1. in the first-time dialog that appears:
      1. optimize for recording
      2. set password to ‘family’
   2. configuration:
      1. Settings
         1. General
            1. not Automatically check for updates …
            2. all unchecked EXCEPT

System Tray

Enable

* + - 1. Stream
         1. nothing to see here
      2. Output
         1. Output Mode: Simple
         2. Video Bitrate: 2500 Kbps
         3. Encoder: h.264
         4. Audio Bitrate: 160
         5. Recording Path c:\users\patron\desktop
         6. checked: Generate File Name withou Space
         7. Recording Quality: High Quality, Medium File Size
         8. Recording Format: mp4
         9. Encoder: h.264
         10. Custom Muxer Settings: none
         11. unchecked: Enable Replay Buffer
      3. Audio
         1. Sample Rate: 48 kHz
         2. Channels: Stereo
         3. Desktop Audio: Disabled
         4. Desktop Audio 2: Disabled
         5. Mic/Aux Audio: Disabled
         6. Mic/Aux Audio 2: Disabled
         7. Mic/Aux Audio 3: Disabled
         8. Mic/Aux Audio 4: Disabled
         9. Decay Rate: Fast
         10. Peak Meter Type: Sample Peak
         11. Monitoring Device: Speakers/Headphones (...)
         12. checked: Disable Windows audio ducking
         13. Hotkeys: none
      4. Video
         1. Base (Canvas) Resolution: 720x480
         2. Output (Scaled) Resolution: 720x480
         3. Downscale Filter: Bicubic (...)
         4. Common FPS Values: 30
      5. Hotkeys
         1. none
      6. Advanced
         1. Process Priority: Normal
         2. checked: Show active outputs warning on exit
         3. Renderer: Direct3D 11
         4. Color Format: NV12
         5. Color Space:709
         6. Color Range: Partial
         7. Filename Formatting:
         8. %CCYY-%MM-%DD\_%hh-%mm-%ss
         9. unchecked: Overwrite if file exists
         10. unchecked: Automatically remux
         11. Replay Buffer Filename Prefix: Replay
         12. Suffix: <empty>
         13. unchecked: Stream Delay Enable
         14. checked: Automatically Reconnect Enable
         15. Retry Delay: 10 s
         16. Maximum Retries: 20
         17. Network Bind to IP: Default
         18. unchecked: Dynamically change bitrate
         19. unchecked: Enable network optimizations
         20. unchecked: Enable TCP Pacing
         21. checked: Enable Browser source Hardware Acceleration
         22. Hotkey Focus Behavior: Never disable Hotkeys
    1. Menus:
       1. View
          1. uncheck all
       2. Docks
          1. uncheck all
    2. Devices: (right-click preview area, Add, ...)
       1. Video: name=vgrabber (lock when configured)
          1. Device: "AV TO USB2.0"
          2. ...
          3. Resolution/FPS Type: Custom
          4. FPS: 30
          5. Video Format: MJPEG
          6. Color Space: Default
          7. Color Range: Default
          8. Buffering: Auto-Detect
          9. unchecked: Flip Verticallh
          10. unchecked: Apply rotation data
          11. Audio: Output desktop audio (DirectSound)
          12. checked: Use custom audio device
          13. Audio Device: Microphone (USB2.0 MIC)
       2. Audio: name=agrabber (lock when configured)
          1. Device: Microphone (USB2.0 MIC)
          2. unchecked: Use Device Timestamps
    3. Tools-Websockets Server Settings
       1. checked: Enable WebSockets server
       2. Server Port: 4444
       3. checked: Enable Authentication
       4. Password: family
       5. unchecked: Lock server to only using IPv4
       6. unchecked: Enable System Tray Alerts
       7. unchecked: Enable debug logging
    4. Preview: right-click
       1. checked: Enable Preview
       2. checked: Lock Preview
       3. Preview Scaling: Scale to Windows
  1. When configured:
     1. Mark as read-only:
        1. C:\Users\Patron\AppData\Roaming\obs-studio\basic\profiles\<profilename>\basic.ini
        2. C:\Users\Patron\AppData\Roaming\obs-studio\basic\scenes\<scenename>.json
        3. C:\Users\Patron\AppData\Roaming\obs-studio\blobal.ini

1. Desktop shortcut:
   1. Create Shortcut on Desktop from “[C:\Program](../../../Program) Files\rfsl\VideoGrabber\videograbber.pyw”
   2. Properties
      1. set the shortcut icon to “[C:\Program](../../../Program) Files\rfsl\VideoGrabber\VideoGrabber.ico”
      2. set to read-only