

1. Purpose

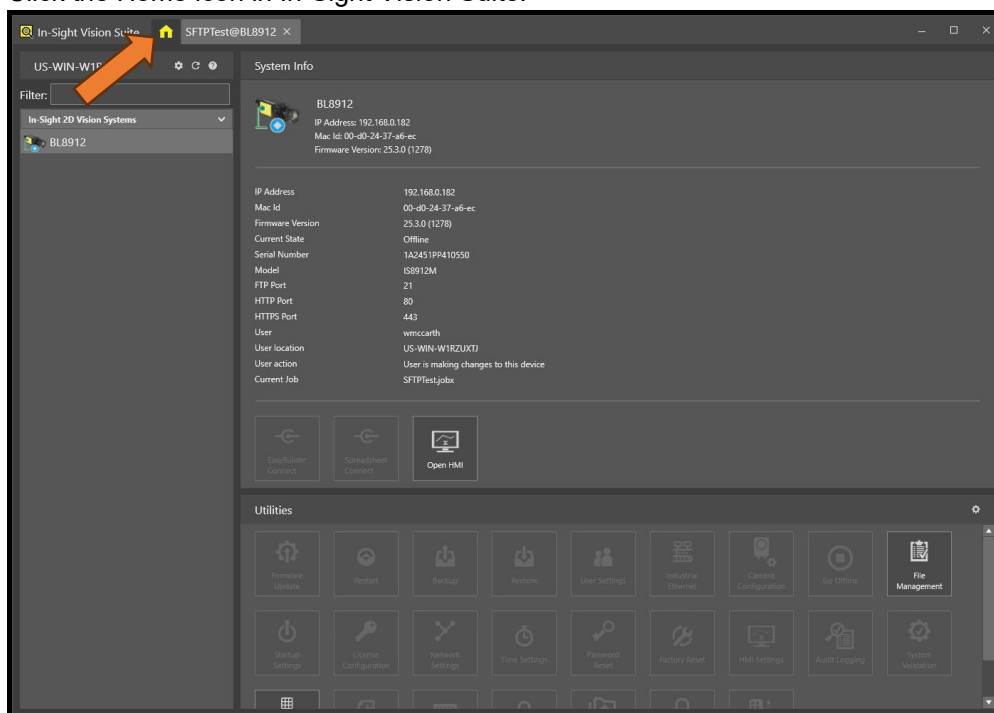
The purpose of this document is to demonstrate how to use the new SFTP or FTP “File Server” functionality that is part of In-Sight Vision Suite 25.3

1.1 Getting Started

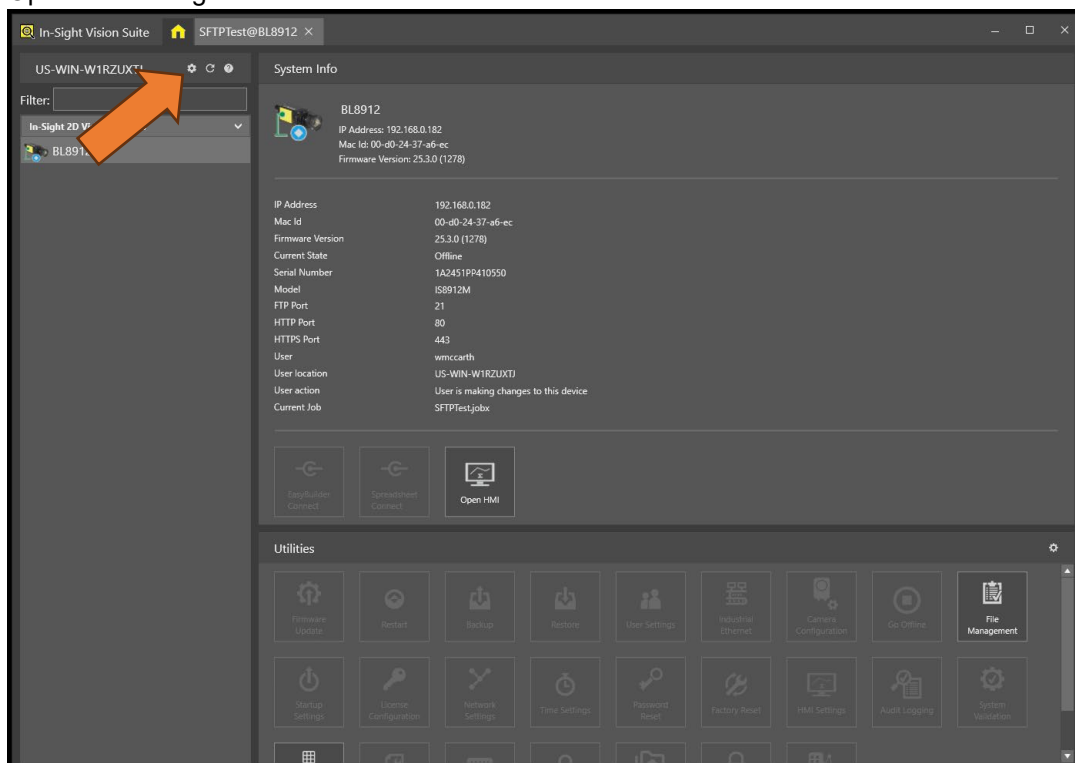
Download [In-Sight Vision Suite Setup](#) package.

2. System Setup

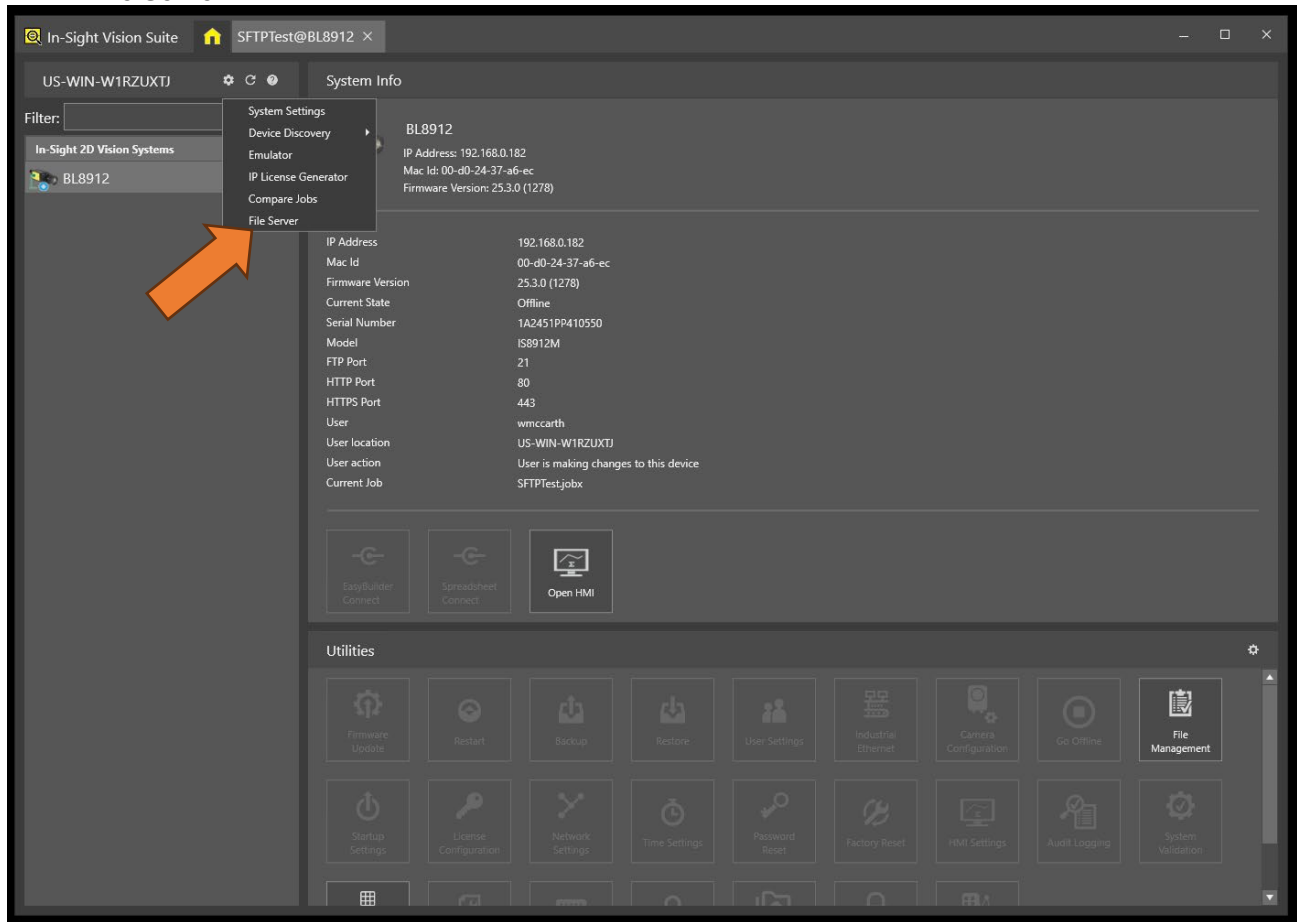
1. Open In-Sight Vision Suite.
2. Start the SFTP File Server.
3. Click the Home icon in In-Sight Vision Suite.



4. Open the Settings menu.

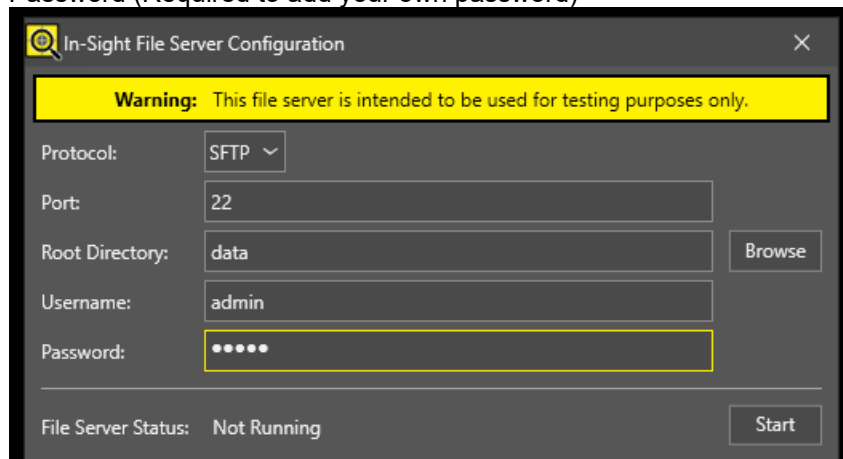


5. Select **File Server**.



6. Enter:

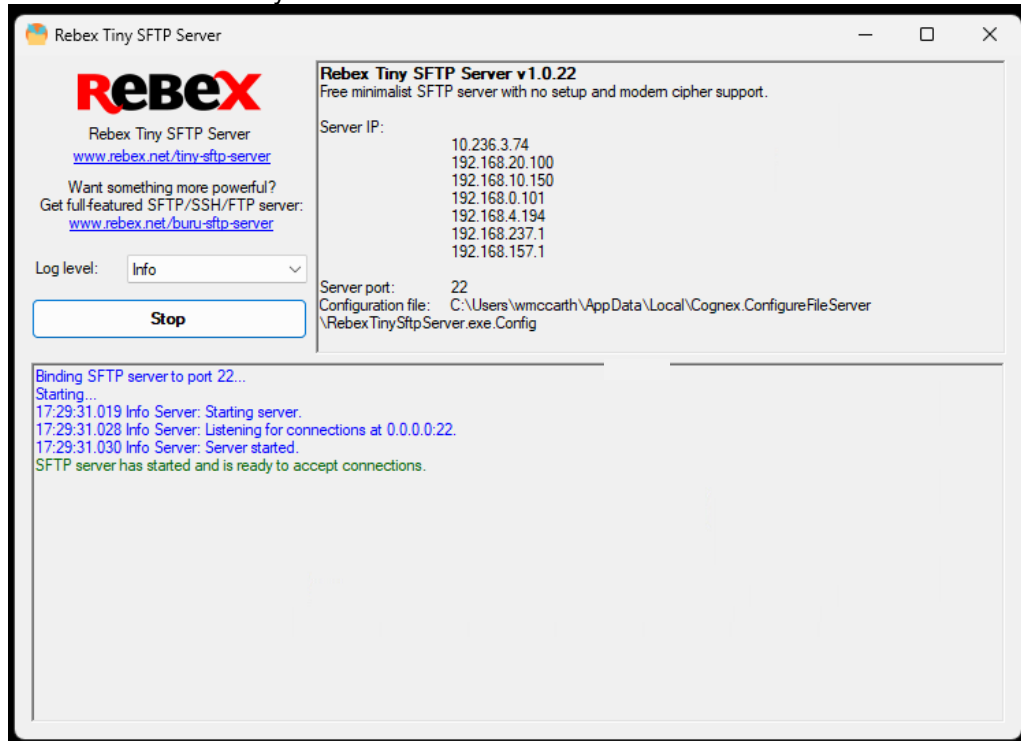
- Protocol (default **SFTP**, or select **FTP**)
- Port (default **22**, user selectable)
- Root Directory (default **data**,
C:\Users\<user name>\AppData\Local\Cognex.ConfigureFileServer\data)
- Username (default **admin**)
- Password (Required to add your own password)



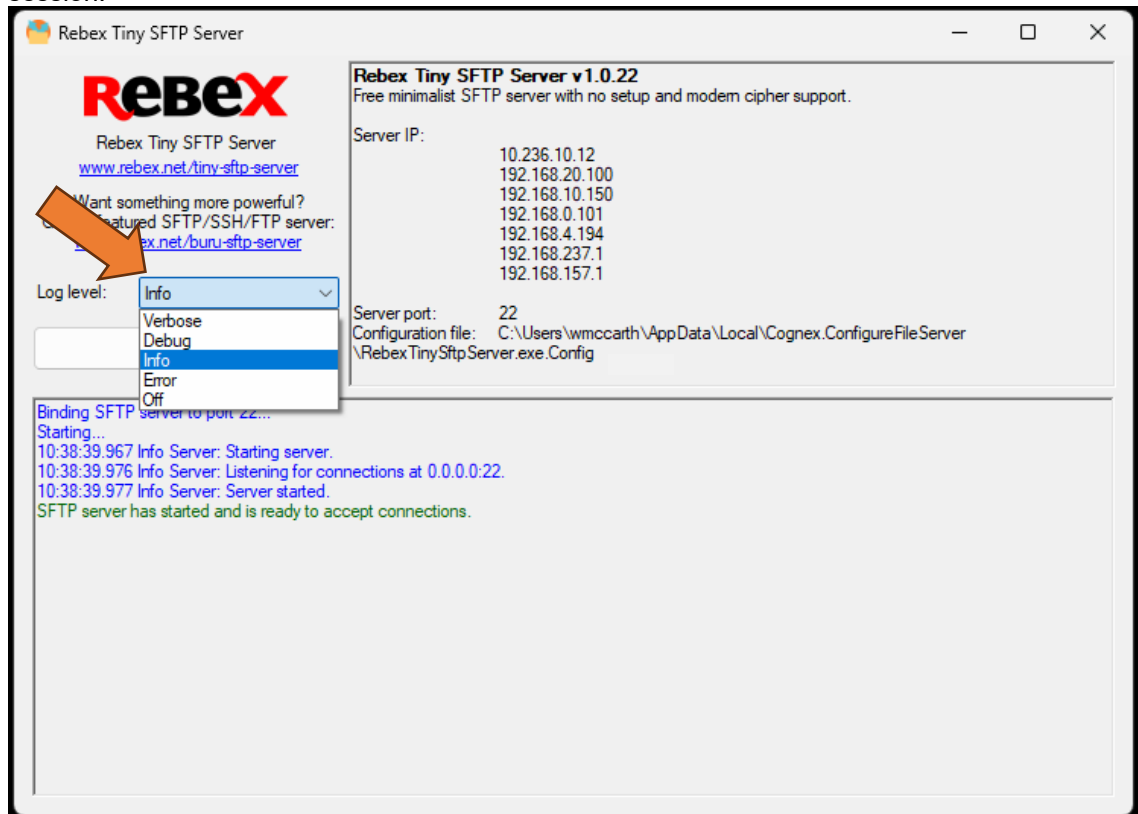
7. Click **Start**.

8. Rebex Tiny SFTP server is started and will display this window.

Note: This window may be minimized when loaded.

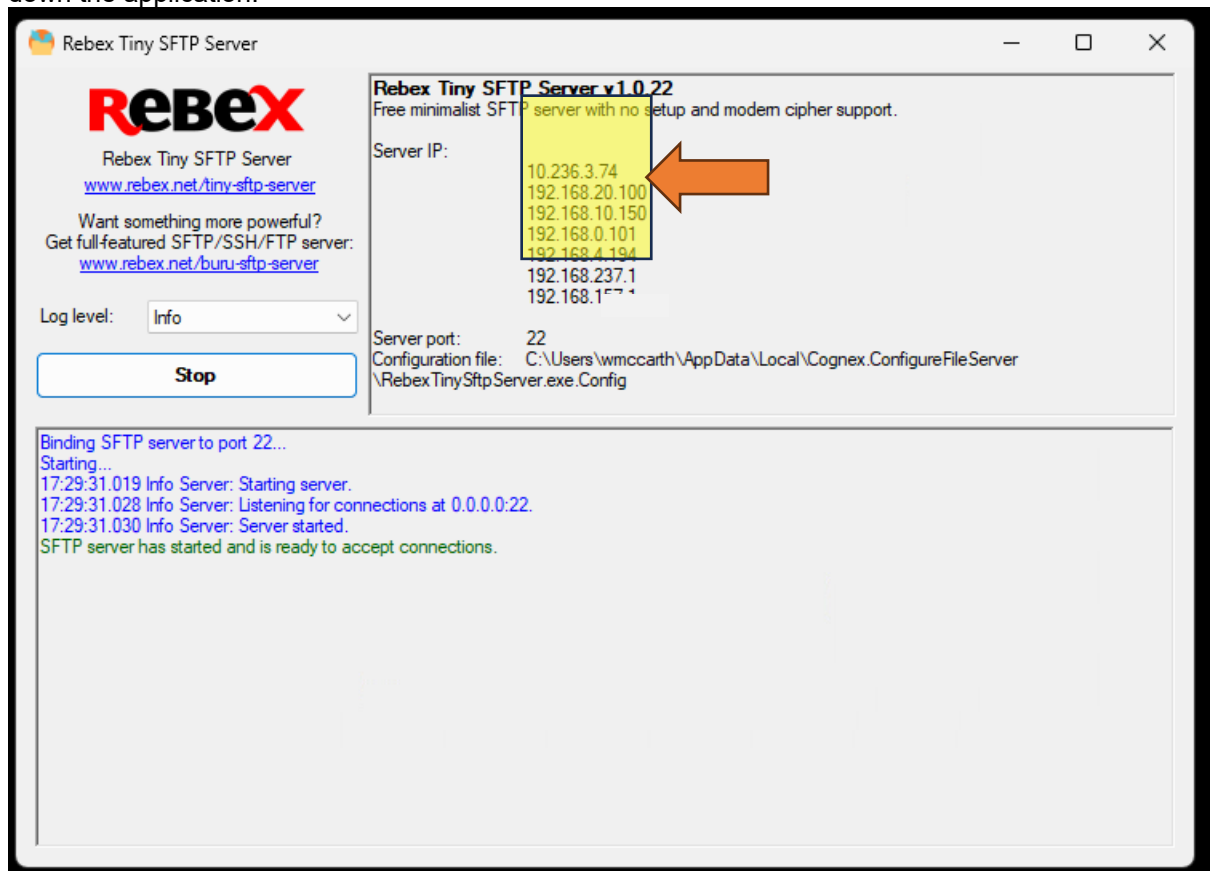


9. Note that the user can change the log level per what is needed to administer or monitor your session.

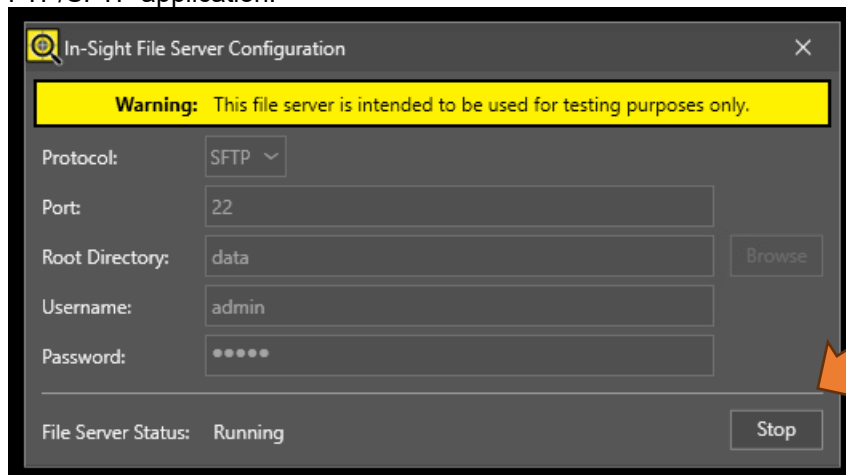


10. Other clients may need different IP addresses.

Note: The FTP/SFTP service can be stopped and started from this Application. It will not shut down the application.

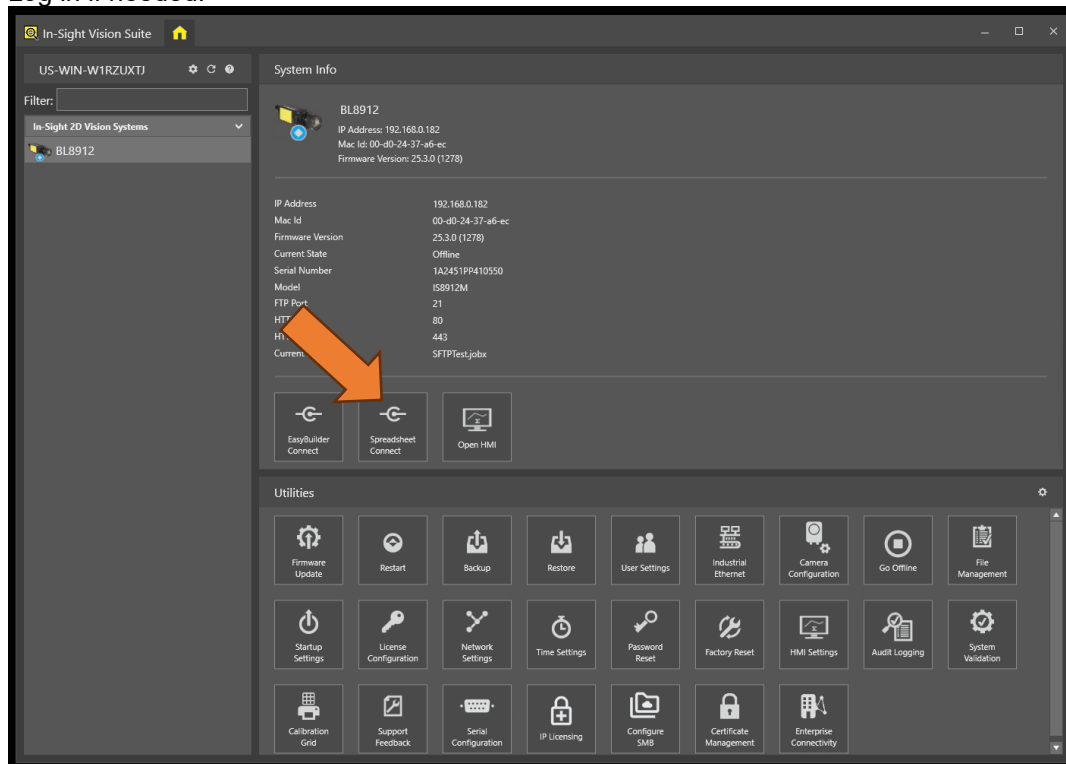


11. When Stop is selected from the Insight SFTP Control Dialog, it will terminate the Rebex FTP/SFTP application.

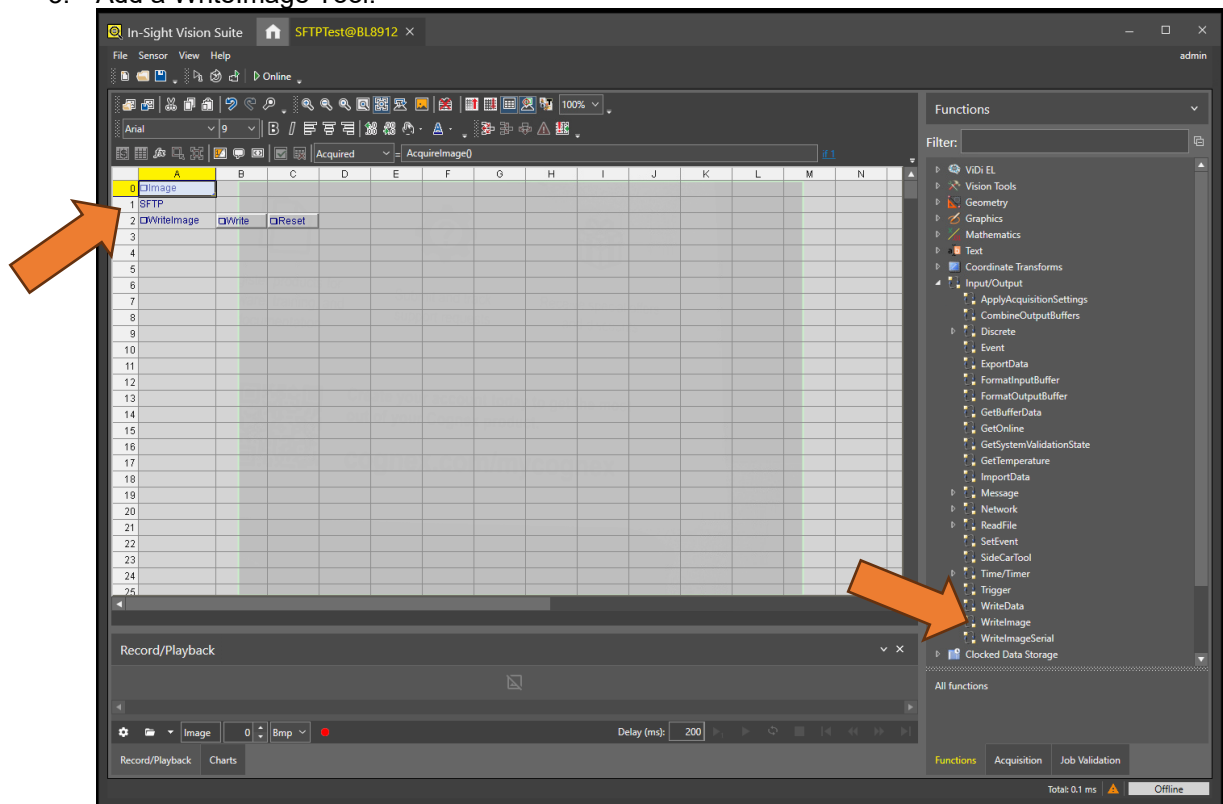


In-Sight SFTP Write Image Logic in Spread Sheet

1. Connect to your In-Sight via Spreadsheet.
2. Log in if needed.



3. Add a WritelImage Tool.



4. Configure the WritelImage Tool.
 - a. Change **Event** so tool will execute on Image Acquisition.
 - b. Select SFTP Server for **Storage**.
 - c. Input IP address of SFTP **Server** (see above list). If port is not default, then use the format ###.###.###.###:#### (IP Address:Port Number).
 - d. Input **User Name** and **Password**
 - e. Enter a generic **File Name**. Numbers will be appended to end of this value. (test + # + .bmp (if BMP is chosen)).
 - f. Select **No Overlay** in **Overlay Graphics** for this simple sample.

Inspection - Property Sheet - WritelImage

Edit Insert Help

Image \$A\$0 = Image

Event \$A\$0 = Image

Storage SFTP Server = 2

Server 192.168.0.101

User Name admin

Password

Block Execution

Timeout 5000

File Path

File Name test

File Type BMP = 0

Image Resolution Full = 0

Max Append Value 999

Reset C2 = False

Overlay Graphics No Overlay = 0

Enable File Cleanup

Minimum Free Space % 0.000

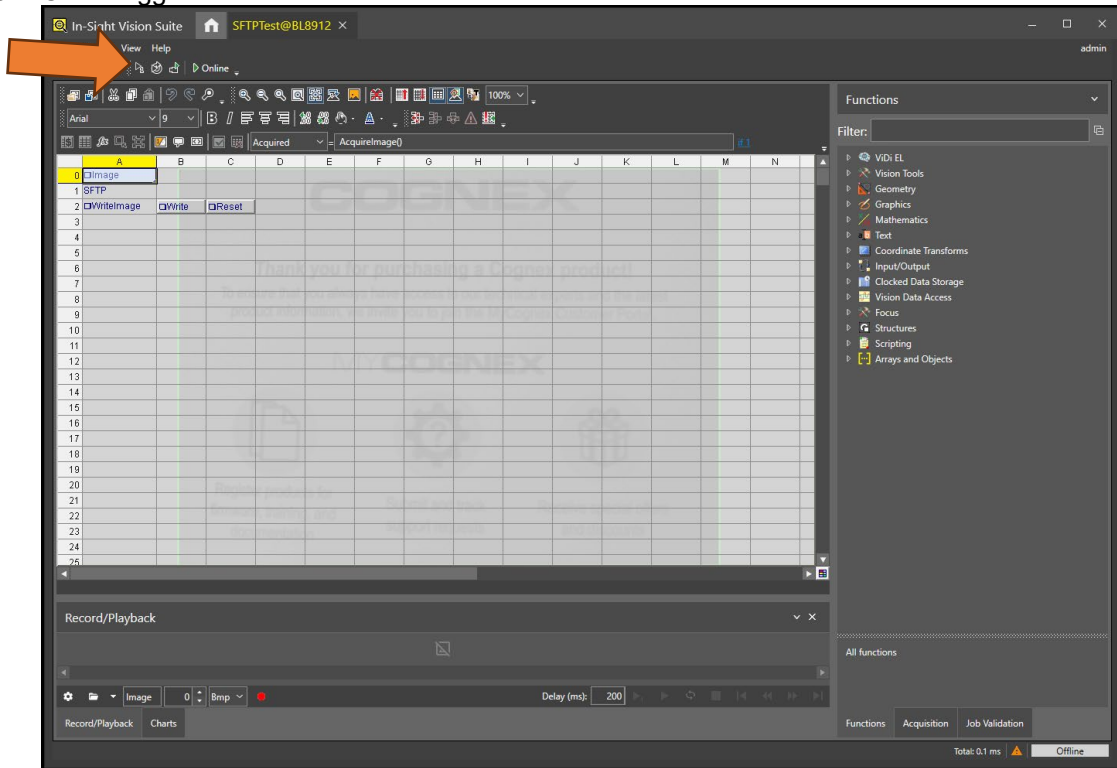
Desired Free Space % 50.000

Block Execution

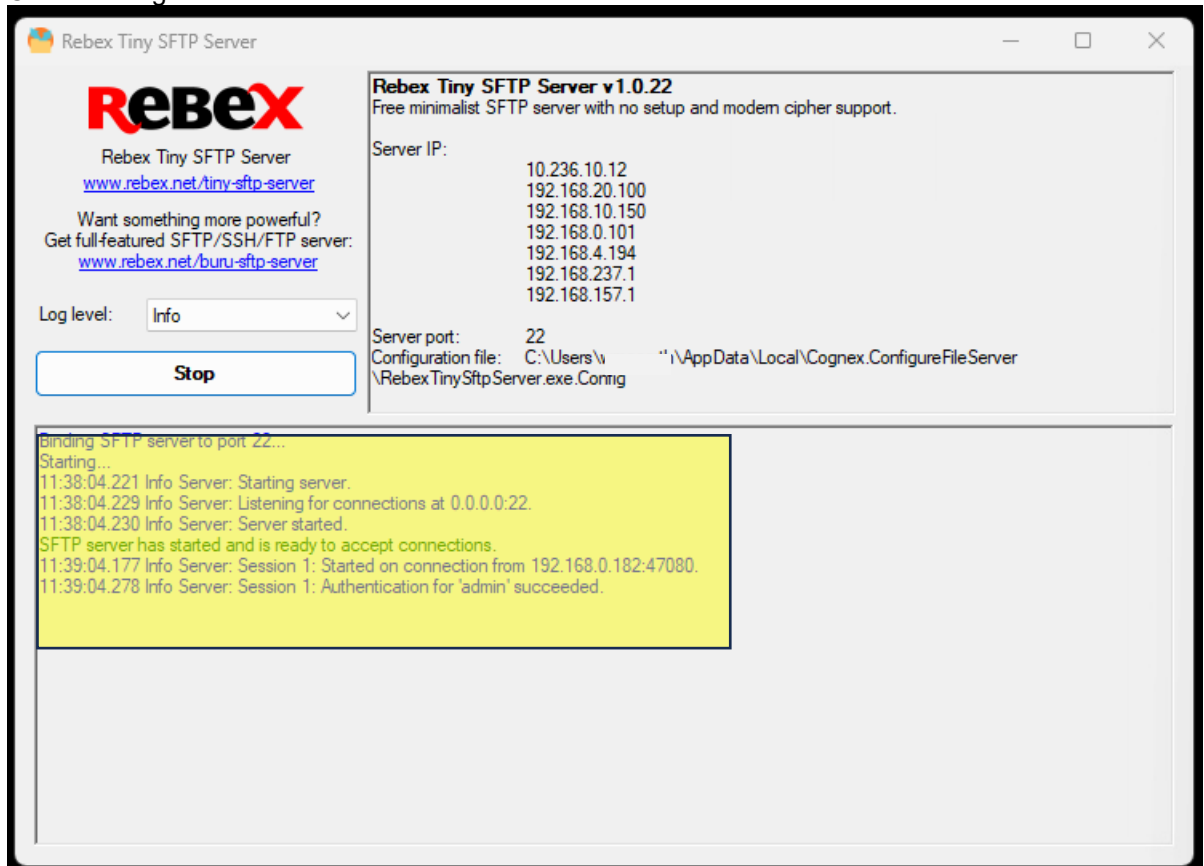
When enabled, execution of the job will be blocked until file transfer is complete.

OK Cancel

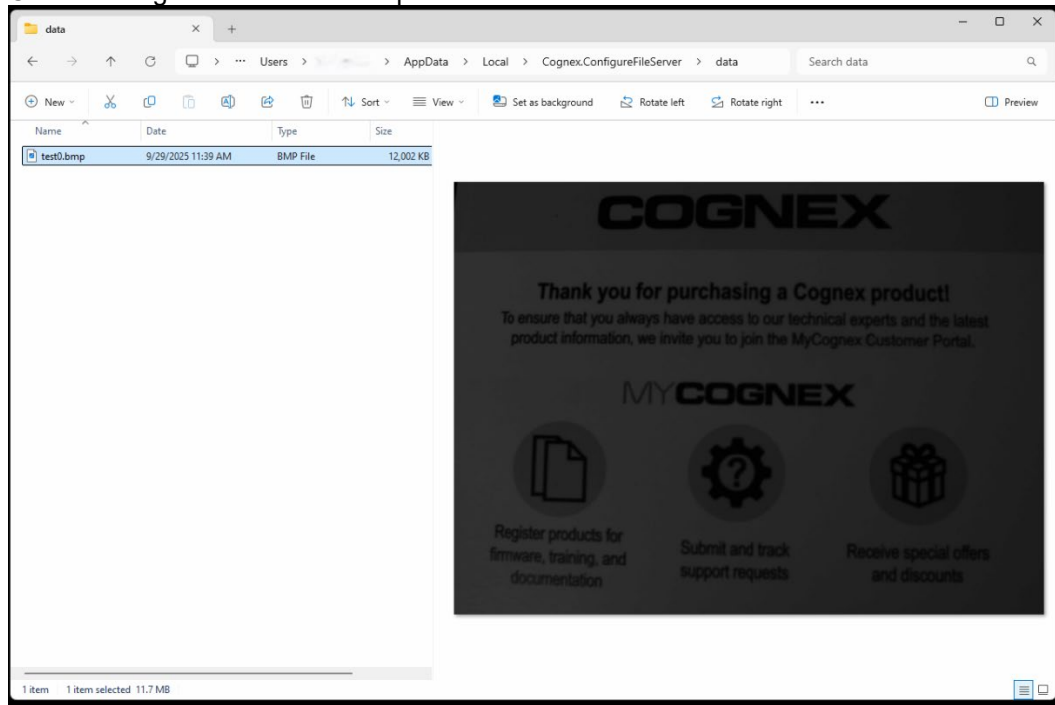
5. Click Trigger to Test.



6. Confirm Image Write with Rebex.



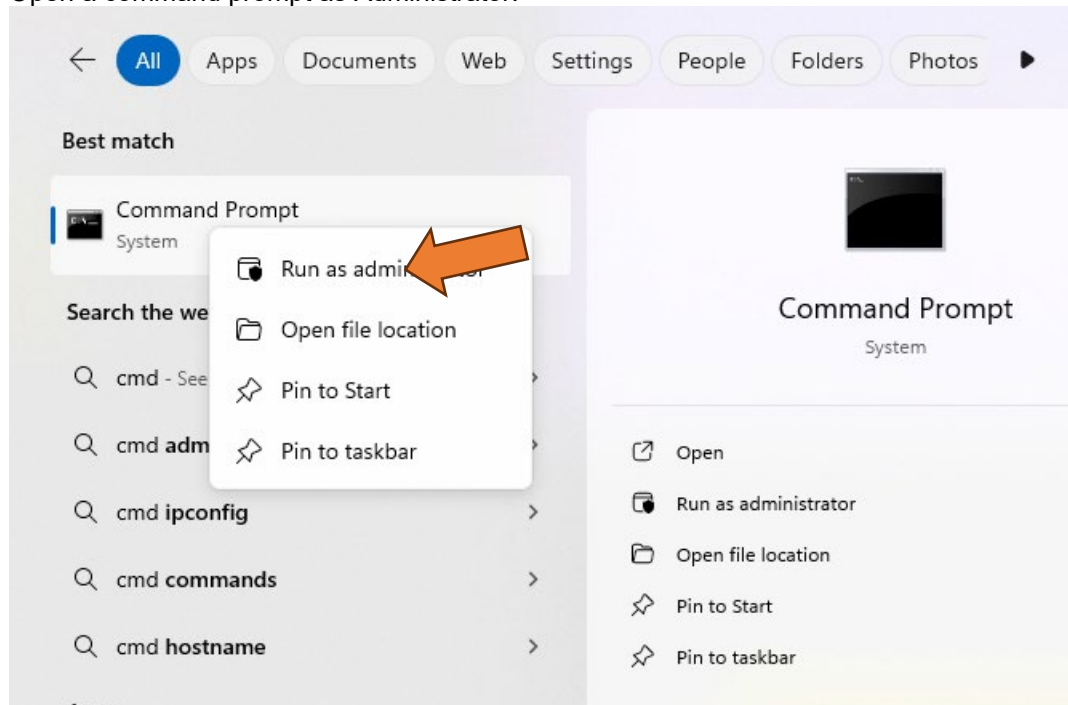
7. Confirm Image Write with File Explorer

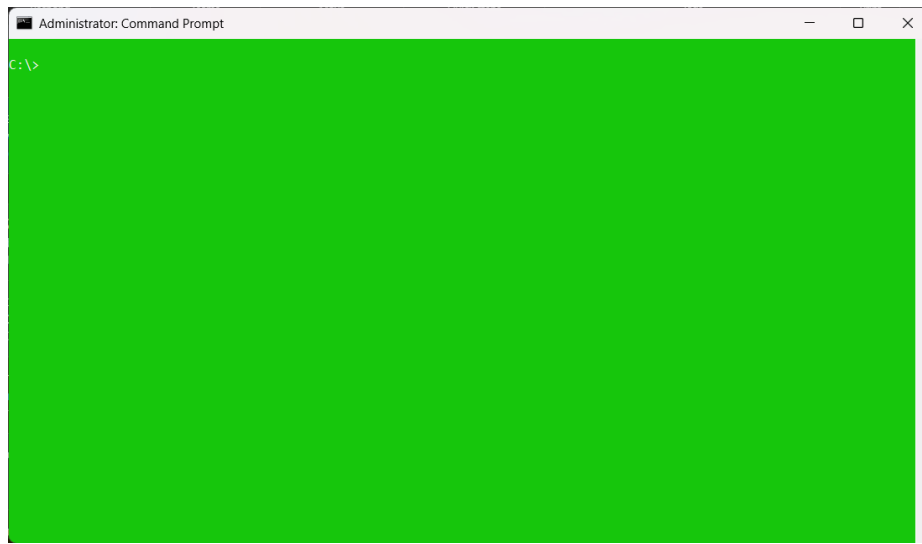


Test Client with Command Line

This step is optional and only for educational purposes. The In-Sight is connected to the server running on your PC. You can also connect to this server with other remote devices. This demonstration used an additional remote PC for a command line connection. Any SFTP client package, such as FileZilla, can be used.

1. Open a command prompt as Administrator.





2. Type *SFTP username@IP* (may have to add port if not default).
3. If Server asks about a fingerprint SHA key, type **yes** and press **Enter**.
4. Enter password and press **Enter**.



5. Type *ls* (list directory contents).

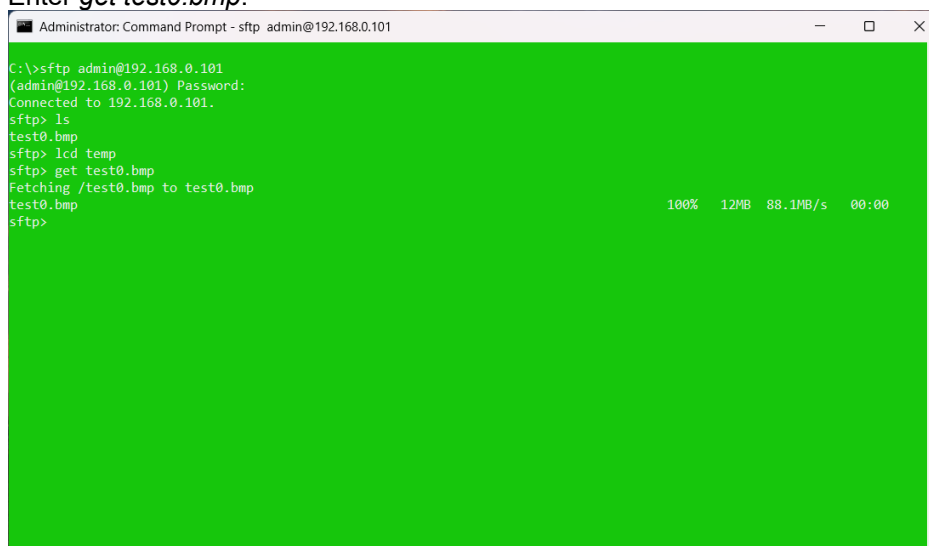


6. You can see that the test0.bmp is in the directory as we demonstrated with file explorer.
7. Create a temp folder in root directory (C:\temp\).
8. Change the local directory to temp folder *lcd temp*.



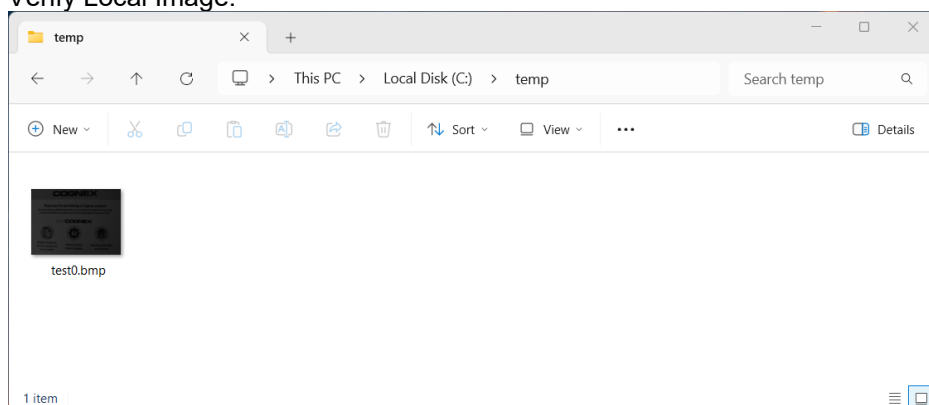
```
Administrator: Command Prompt - sftp admin@192.168.0.101
C:\>sftp admin@192.168.0.101
(admin@192.168.0.101) Password:
Connected to 192.168.0.101.
sftp> ls
test0.bmp
sftp> lcd temp
sftp>
```

9. Enter *get test0.bmp*.

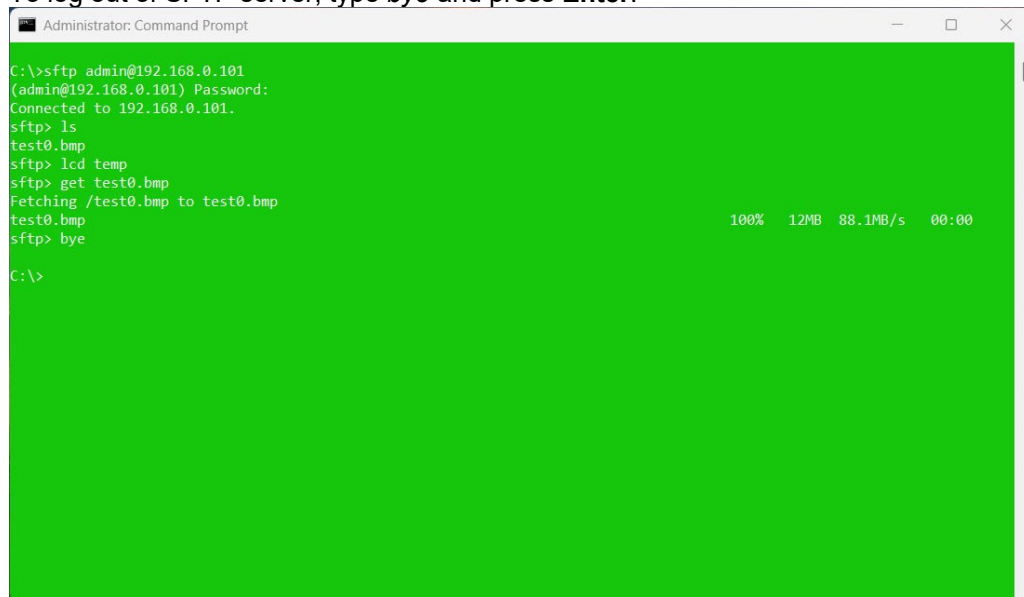


```
Administrator: Command Prompt - sftp admin@192.168.0.101
C:\>sftp admin@192.168.0.101
(admin@192.168.0.101) Password:
Connected to 192.168.0.101.
sftp> ls
test0.bmp
sftp> lcd temp
sftp> get test0.bmp
Fetching /test0.bmp to test0.bmp
test0.bmp                                100% 12MB 88.1MB/s 00:00
sftp>
```

10. Verify Local Image.



11. To log out of SFTP server, type *bye* and press **Enter**.



```
Administrator: Command Prompt
C:\>sftp admin@192.168.0.101
(admin@192.168.0.101) Password:
Connected to 192.168.0.101.
sftp> ls
test0.bmp
sftp> lcd temp
sftp> get test0.bmp
Fetching /test0.bmp to test0.bmp
test0.bmp                               100% 12MB 88.1MB/s 00:00
sftp> bye

C:\>
```