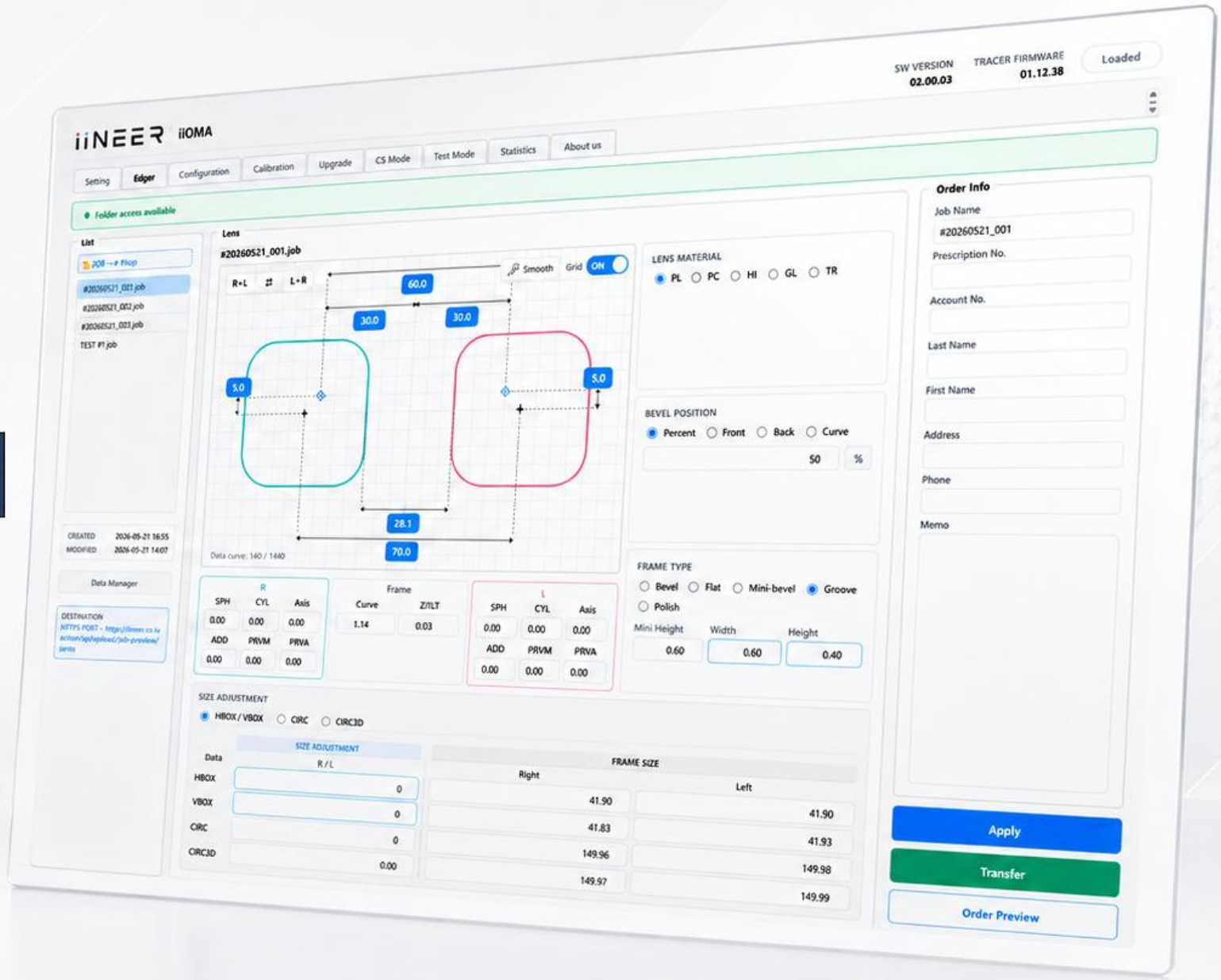
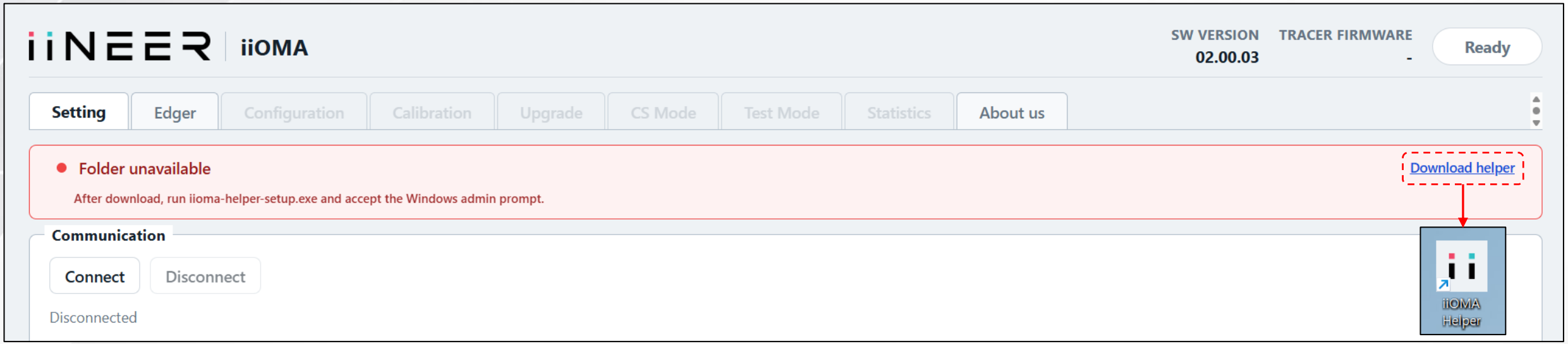
iiOMA

V02.00.03

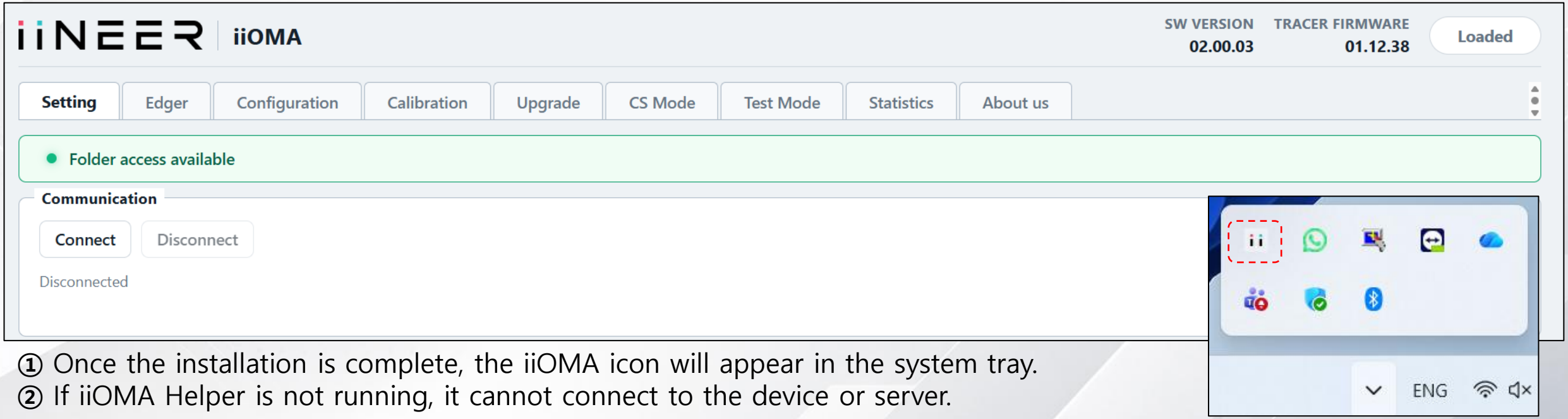
User Manual



1. iiOMA Helper installation

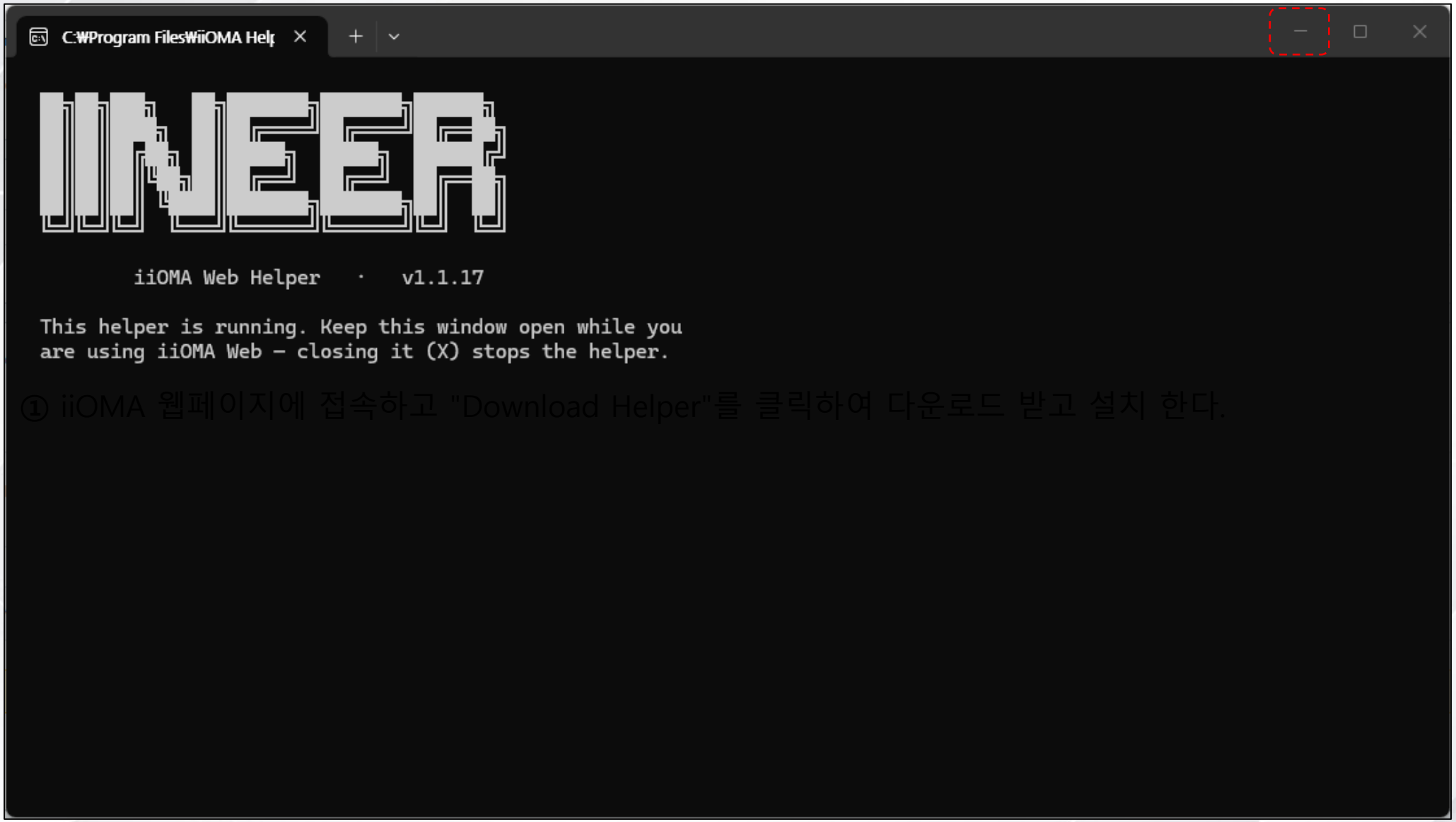


① Access the iiOMA webpage, click “Download Helper,” then download and install it.



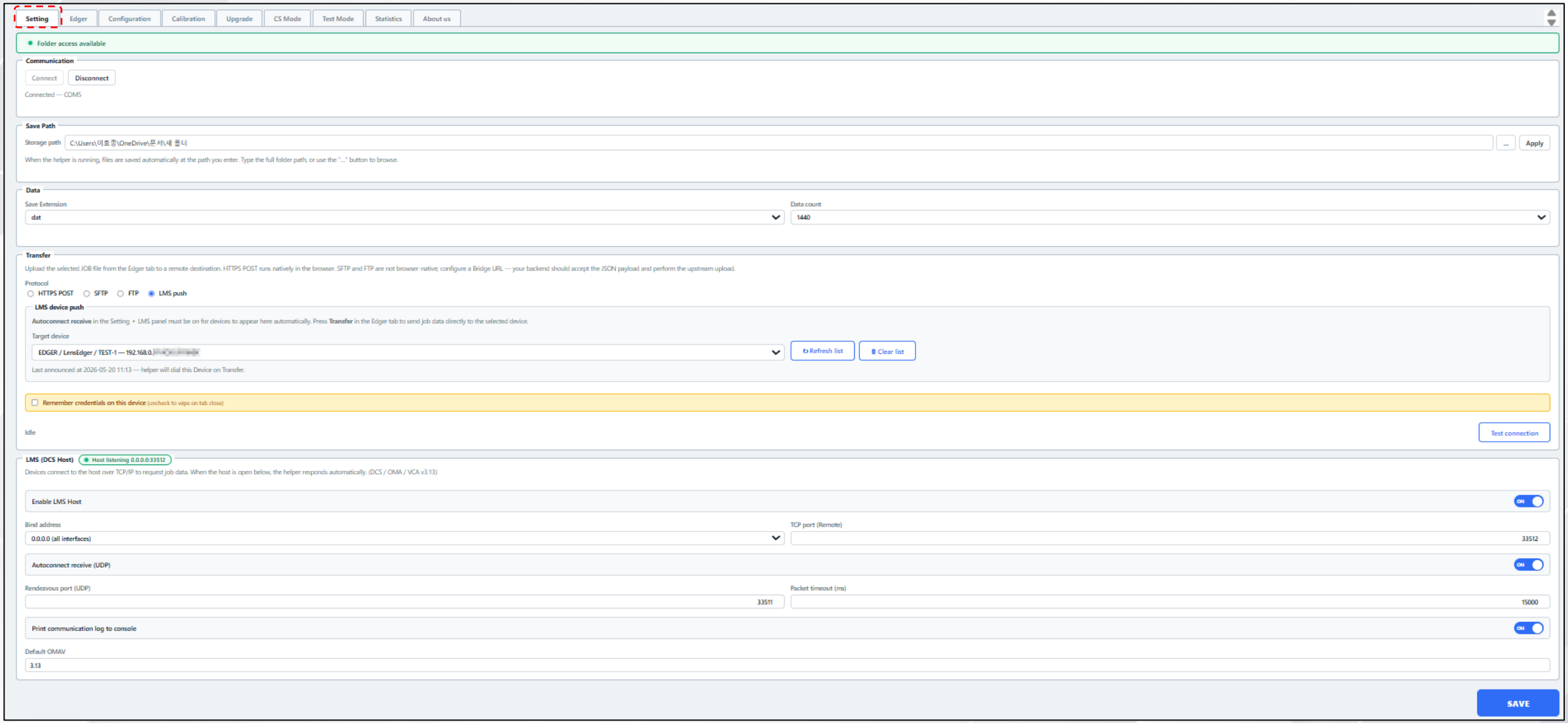
① Once the installation is complete, the iiOMA icon will appear in the system tray.
② If iiOMA Helper is not running, it cannot connect to the device or server.

1. iiOMA Helper installation



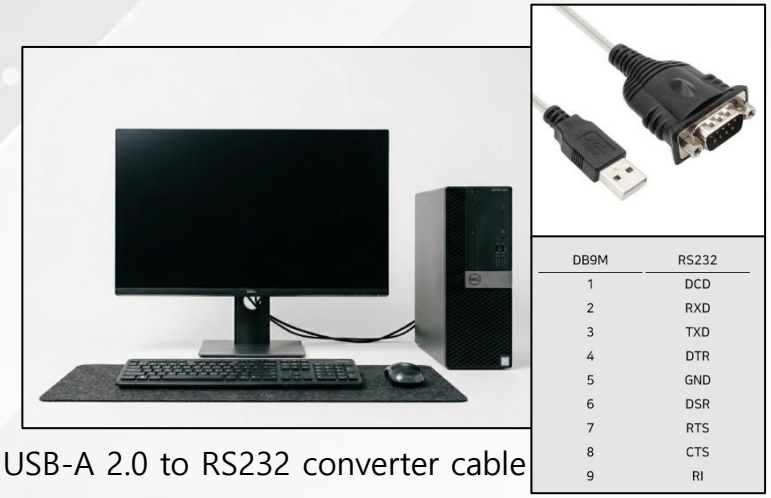
③ When iiOMA Helper is launched, a console window like the one shown below will appear. If this console window is closed, iiOMA will no longer be able to connect. Therefore, please keep it running and minimize it while using iiOMA.

2. Setting



① The Setting tab is used to connect iiOMA to the tracer and to connect iiOMA to the edger and server using various communication methods.

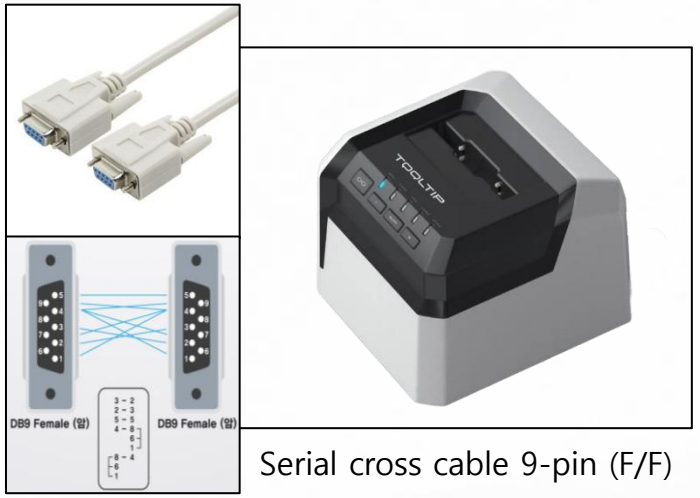
2. Setting (Communication)



DB9M	RS232
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

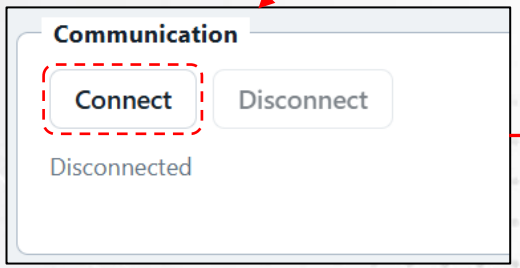
USB-A 2.0 to RS232 converter cable

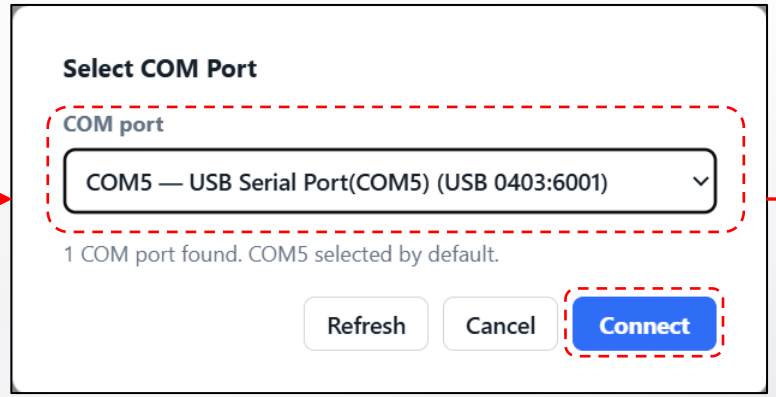
①

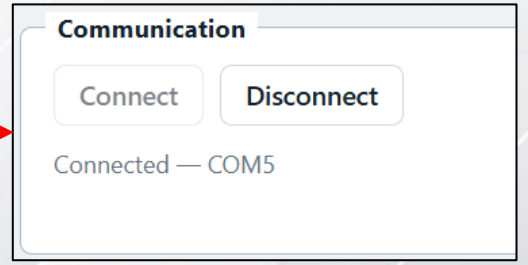


Serial cross cable 9-pin (F/F)

②





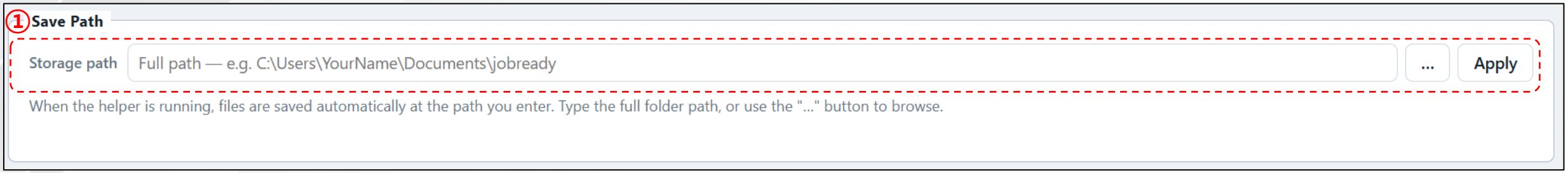


① Connect the PC and the tracer using the following cable. (Please connect it to the [PC] port of the tracer.)
If a cable with a different pin map is used, the connection may not work.

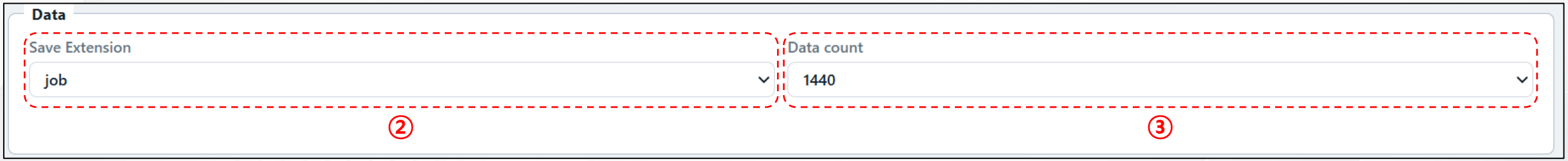
② Connect the cable, check and select the connected COM port on the PC,
then press Connect to complete the connection.

③ Once the connection with the tracer is completed, the tracer will perform the initialization process.

2. Setting (Save Path / Data)



① Press [...] to select the folder where the JOB Data will be saved, or enter the folder path directly, then press [Apply].

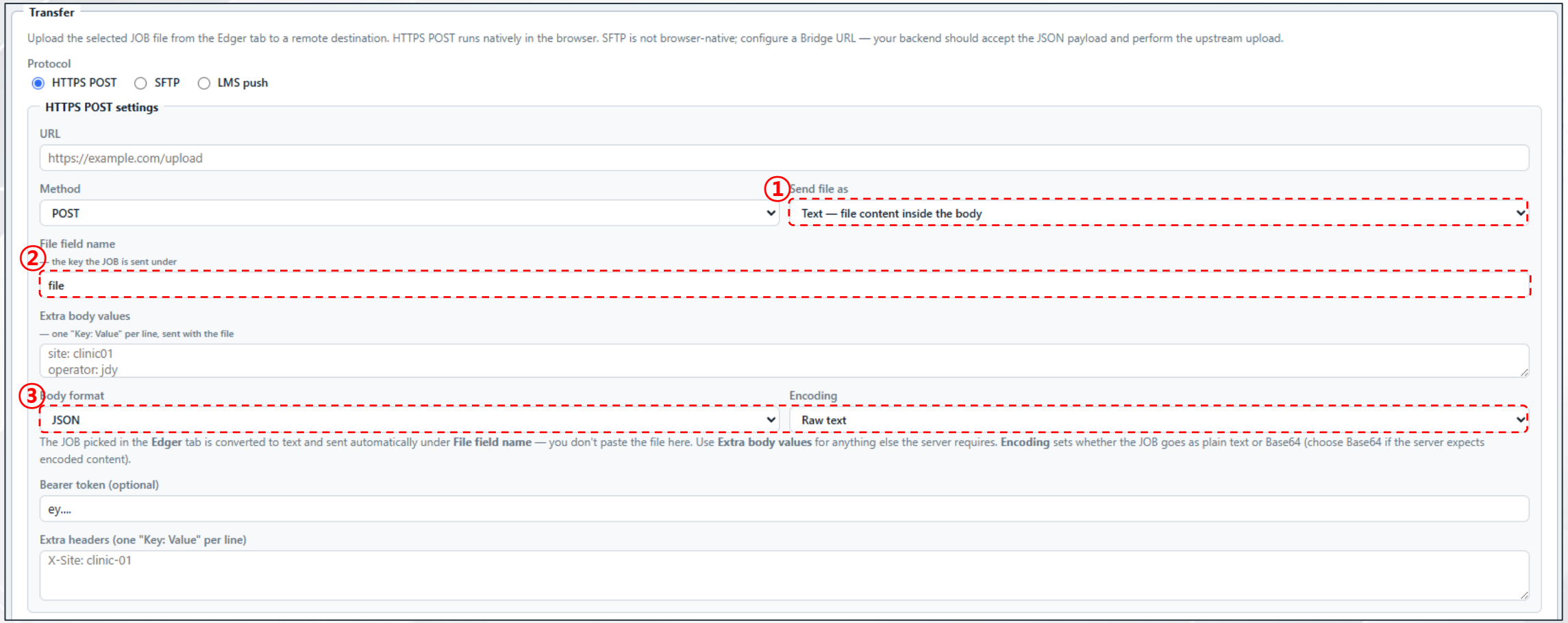


② Select the file extension for saving the JOB Data. (dat / txt / oma / job)
③ You can change the file shape resolution (number of points) of the generated data.

2. Setting (Transfer_HTTPS POST) – Send file as File

① Enter the URL of the server that will receive the JOB file via HTTPS.
② Select the HTTP method and JOB file data type. (Default: **POST** and **File**. Files are sent as **multipart/form-data**.)
③ Specify the file field name to match the receiving server configuration.
Examples: **filename**, **files**.
④ Optionally add a Body Payload required by the receiving server. Leave blank if not required.
Enter each item in **key:value** format, separated by line breaks.
⑤ Optionally add request headers required by the receiving server. Leave blank if not required.
Enter each header in **key:value** format, separated by line breaks.
⑥ Optionally enter an Authorization token configured on the receiving server.
The **"Bearer "** prefix is automatically added to the token value.

2. Setting (Transfer_HTTPS POST) – Send file as Text Binary



① Change **Send file as** to **Text** to transmit the JOB file as binary text data.

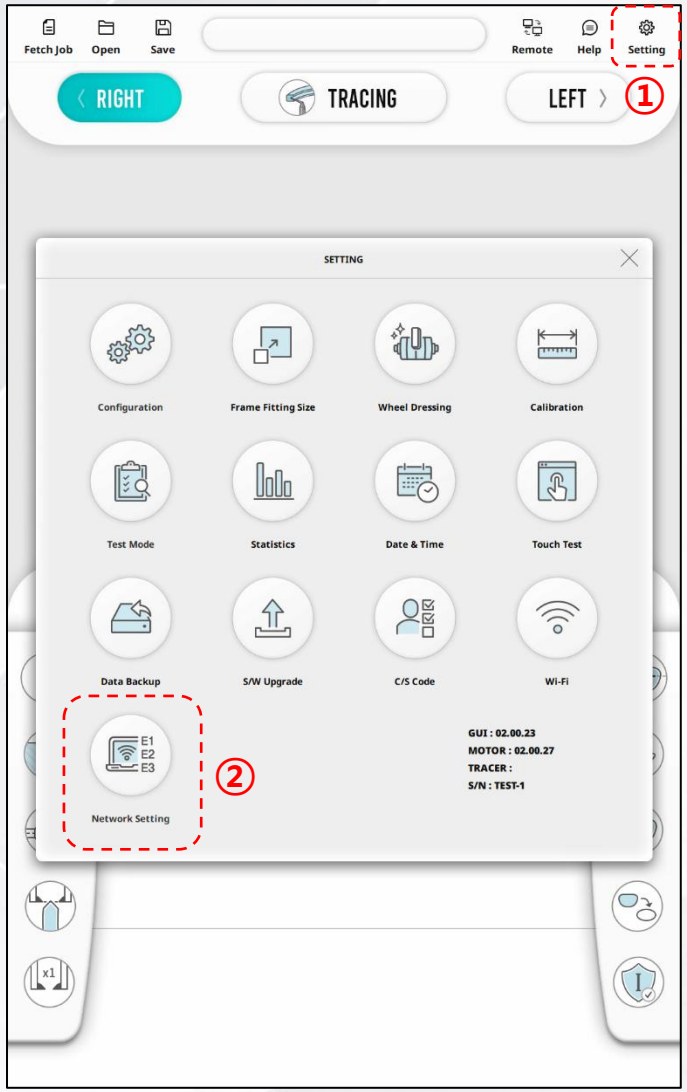
② Specify the file field name to match the receiving server configuration.
Examples: **filename**, **files**.

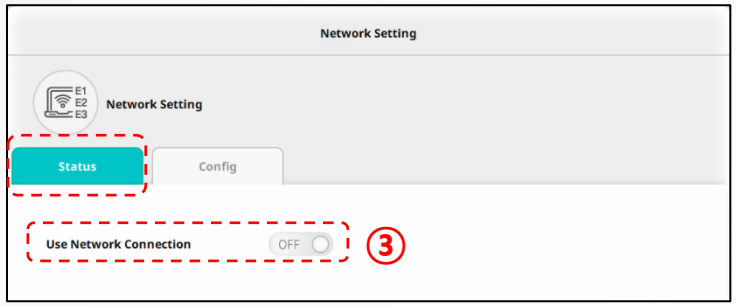
③ Configure the **Body Format** and **Encoding** to match the receiving server requirements.
Body Format: JSON, multipart/form-data, x-www-form-urlencoded
Encoding: Raw Text, Base64

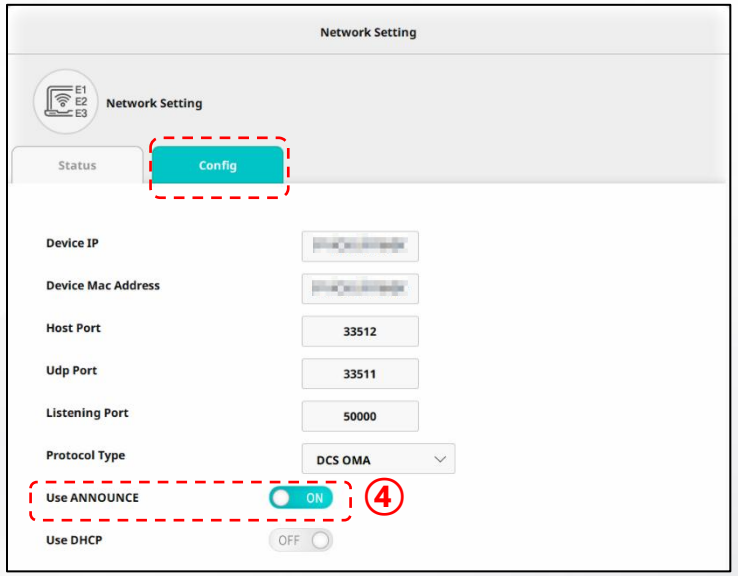
2. Setting (Transfer_SFTP)

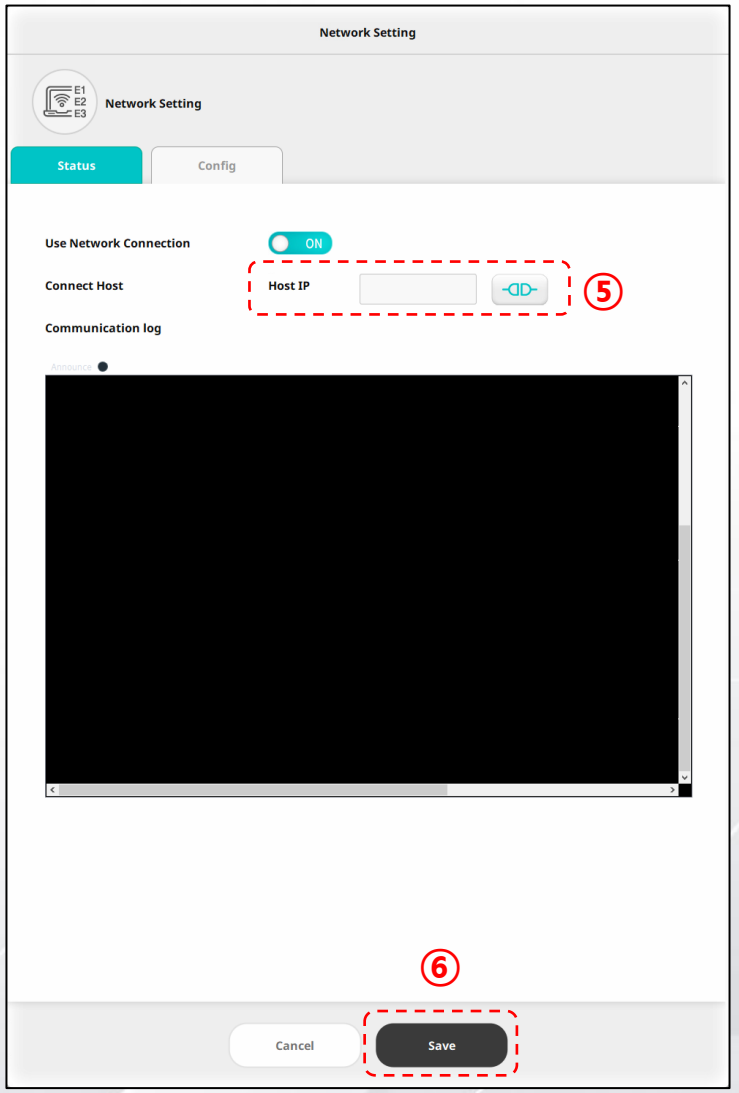
① Please enter the Bridge URL if available. If not, this field may be left blank.
② Please enter the host address for SFTP communication. (Public IP or Public DNS),
Please enter the port number used by the SFTP server for incoming connections.
③ Please enter the Username and Password used to authenticate with the SFTP server.
These credentials will be used to establish a secure connection for file transfer.
④ Please enter the path of the remote folder where the JOB files will be uploaded.
The uploaded files will be transferred and stored in the specified directory on the SFTP server.

2. Setting (Transfer_LMS push)



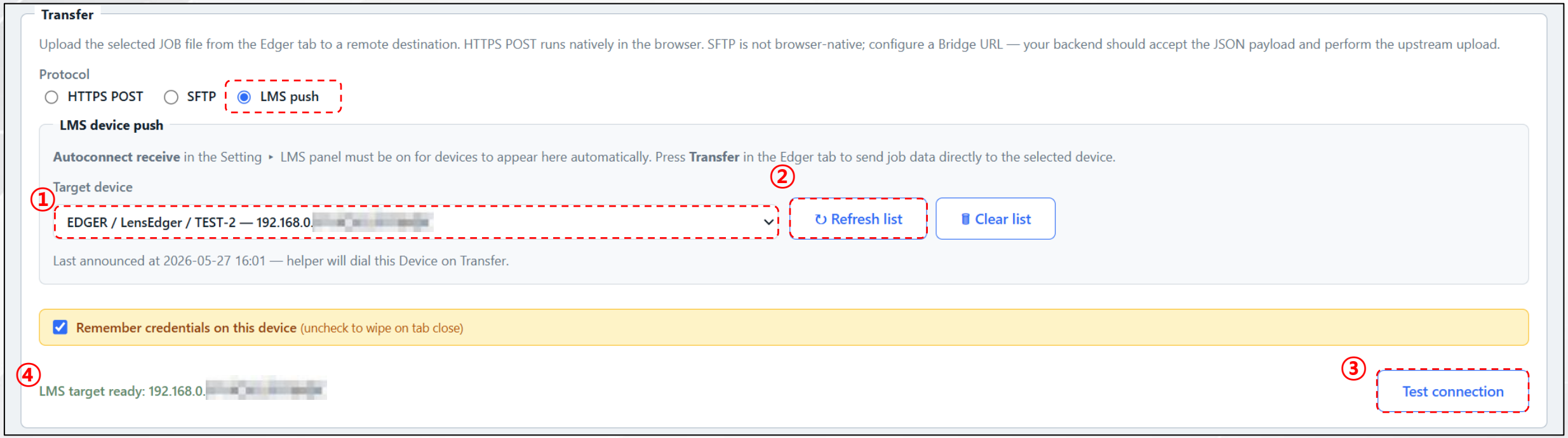






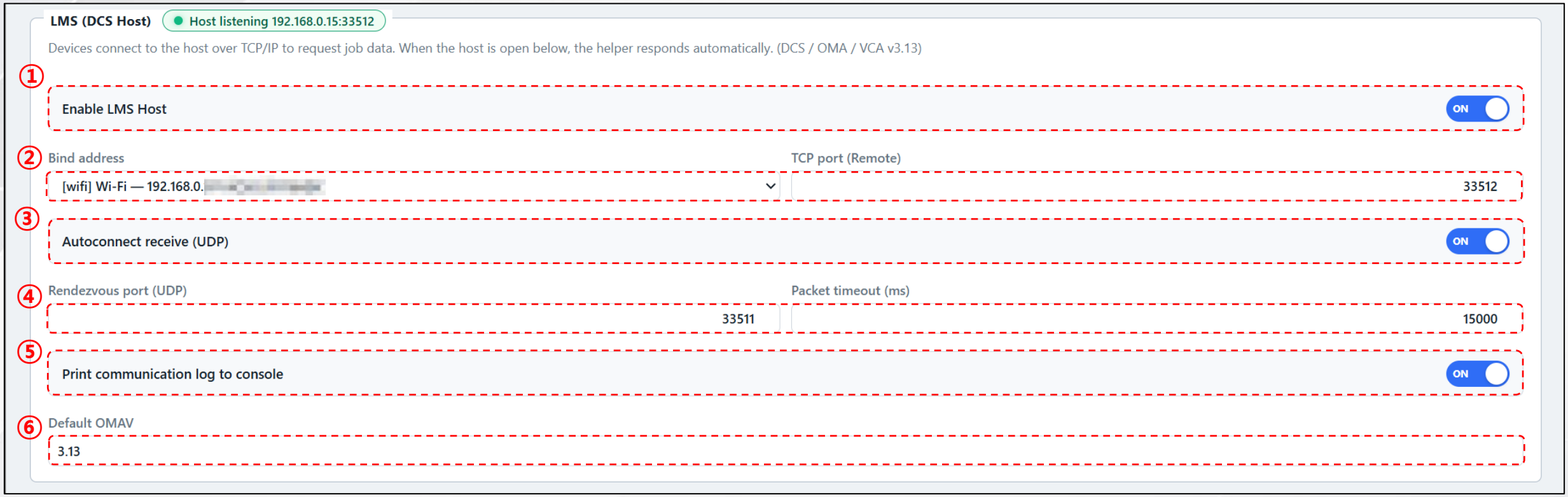
① In Network Setting, turn ON both Use Network Connection and Use ANNOUNCE, then click the Save button at the bottom.
② Enter Network Setting again, enter the IPv4 address of the PC running iiOMA in the Host IP field, and then click the Save button.

2. Setting (Transfer_LMS push)



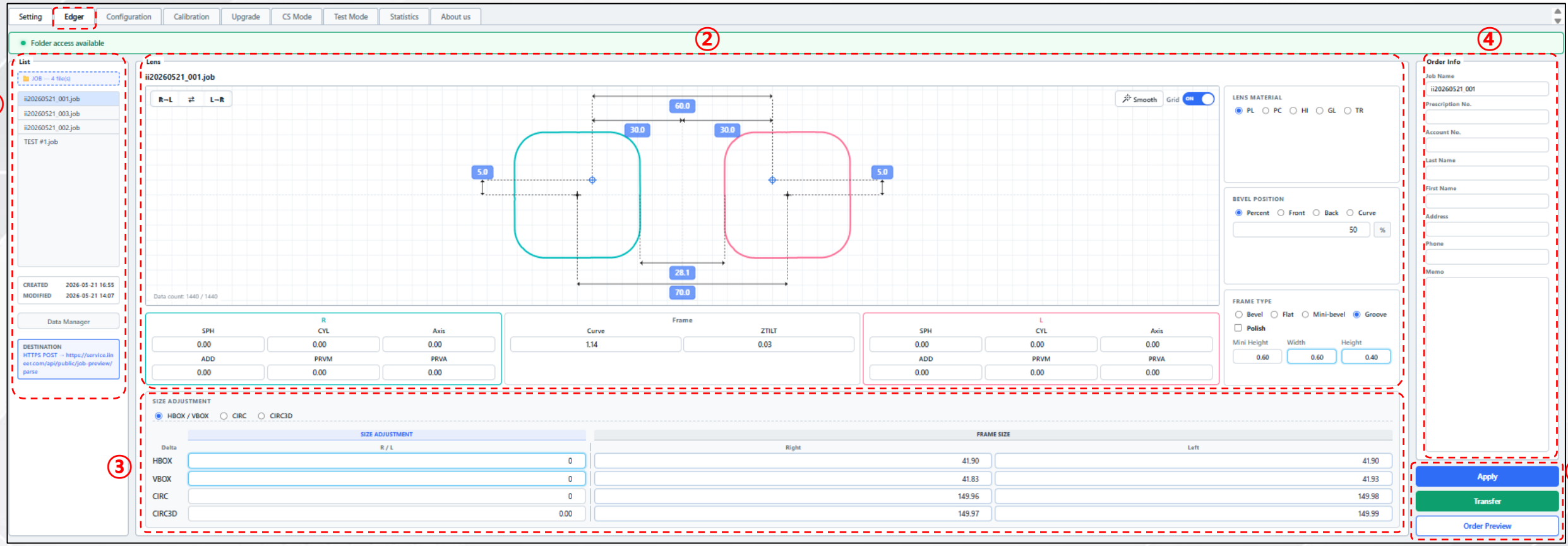
① The LMS Push function allows JOB data to be transmitted to ophthalmic devices (such as Edgers) connected to the same local network. Please select the target device that will receive the JOB data.
② If the desired device does not appear in the list, click the Refresh button to rescan and update the available device list.
③ Once a device has been selected, you can use the Test Connection function to verify network communication with the selected device.
④ The connection result and status will be displayed for confirmation.

2. Setting (LMS_DCS Host)



① To use the LMS Push function, this toggle must be turned **ON.**
② You can specify the host IP address to be used for communication. Please select the Wi-Fi network interface.
If no Wi-Fi interface is detected, the system will bind to 0.0.0.0 instead. Please specify the TCP port to be used for communication. The officially recommended default value is 33512.
③ To listen for UDP broadcast packets, this toggle must be turned **ON**.
④ Please specify the UDP port to be used for broadcast communication.
The officially recommended default value is 33511. You can also configure the packet timeout value.
The default timeout is 15000 ms.
⑤ You can choose whether communication logs should be displayed during operation.
⑥ Please select the version of the DCS OMA protocol to be used for communication. Default is 3.13.

3. Edger



① **List** : List of JOB Data stored in the configured folder. The JOB Data read by the tracer is saved here.

② **Lens** : This is the image of the frame read by the tracer.

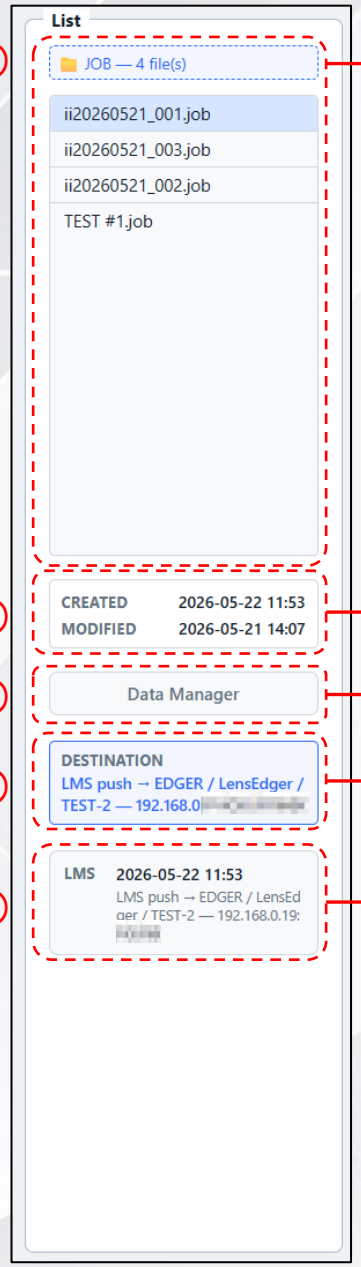
You can change the processing settings or values before sending the data to the Edger or server.

③ **Size Adjustment** : You can adjust the lens size by selecting HBOX / VBOX / CIRC / CIRC3D.

④ **Order Info** : You can enter customer information.

⑤ **Button** : Use these buttons to apply changes, transfer data, or open the Order Preview.

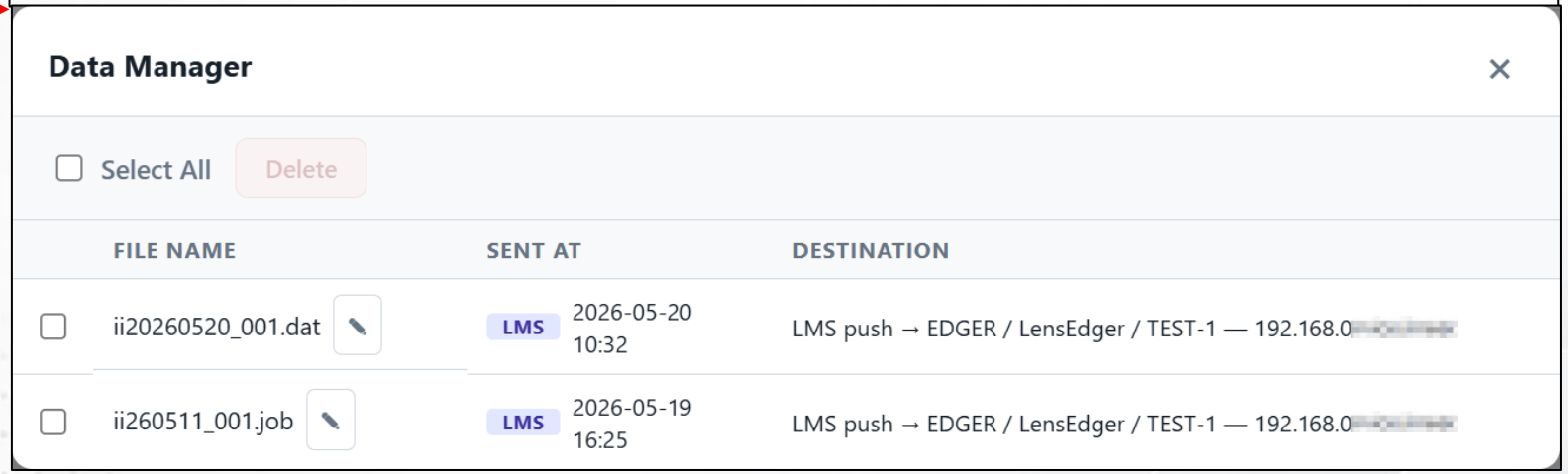
3. Edger (List)



① Displays the folder where the data is stored and the list of files.
The data read by the tracer is saved here.

② Displays the creation time and modification time of the file.

③ You can rename or delete the file.

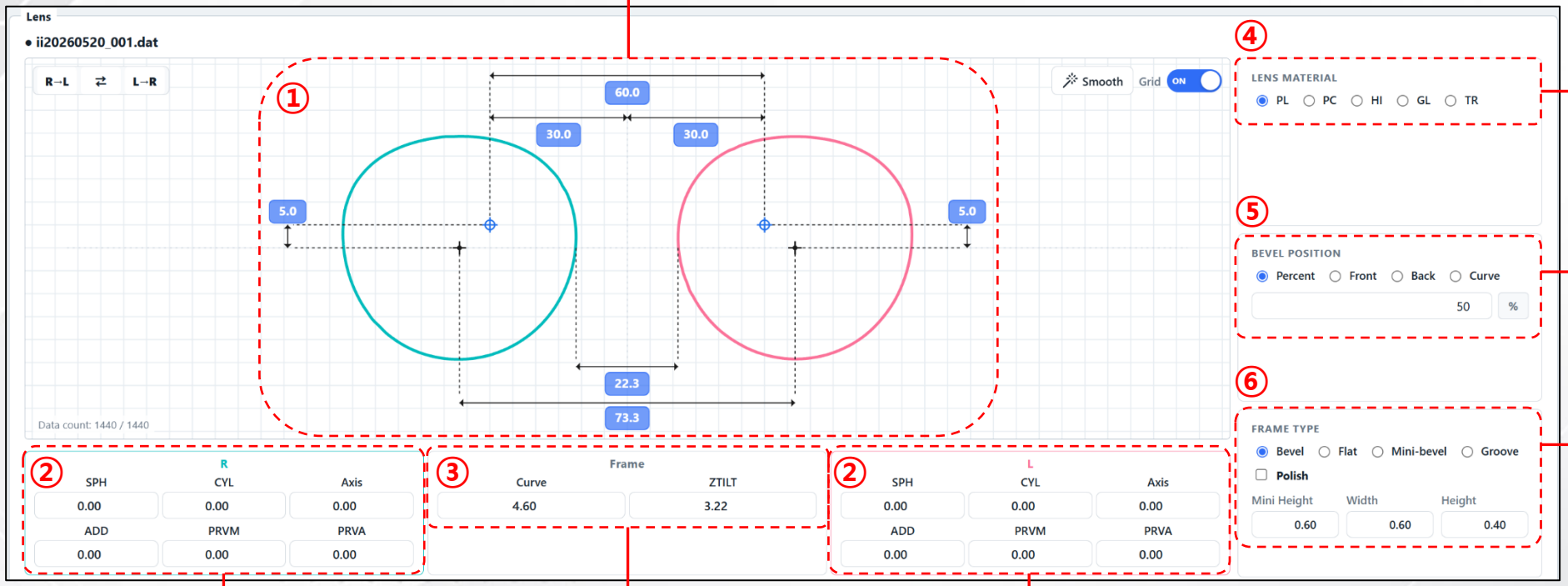


④ Displays the destination where the data will be sent.

⑤ Displays the date and time when the data was sent to the destination.

3. Edger (Lens)

① Size design area
(PD / IPD / OH / DBL /MPD)



④ You can select the lens material.

⑤ You can select the bevel and grooving positions.

⑥ You can select the Frame Type and adjust the dimensions.

② You can enter the values for the right lens.

② You can enter the values for the Left lens.

③ The curve and angle are displayed.

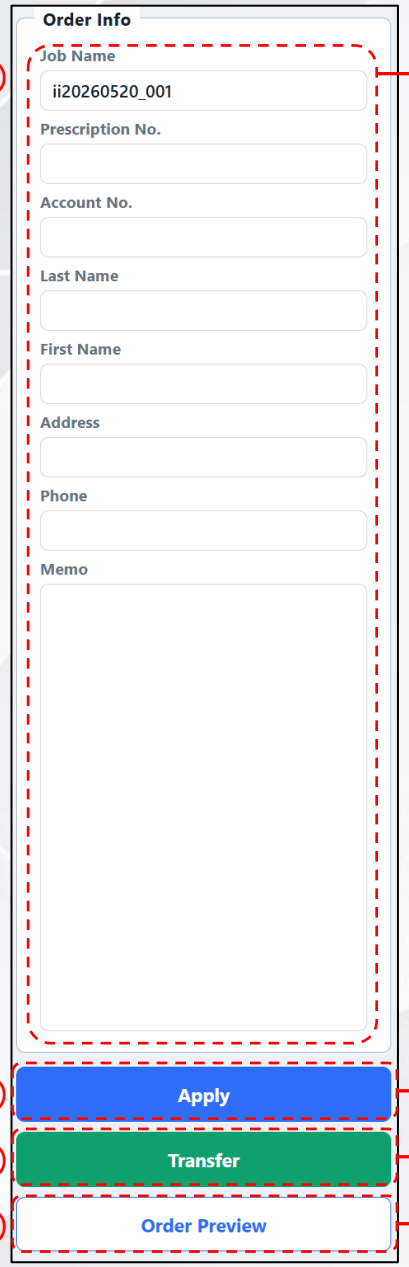
3. Edger (Size Adjustment)

① You can select the area where the size will be adjusted.

② A blue outline appears around the selected area, and you can enter the dimensions to adjust.

③ Displays the size of the selected JOB Data.

3. Edger (Order Info)



① You can enter and save detailed customer information for each JOB.

② Applies the changes such as size adjustments and processing settings.

③ Transfers the JOB data to the device or server configured in the Setting tab.

④ After entering the customer information and pressing the Order Preview button, the following window appears, allowing you to print or save it as a PDF file.

④

iNEER ORDER REPORT

Printed May 20, 2026, 5:55 PM
File Metal 001.dat

Metal 001

LENS SHAPE

ORDER / CUSTOMER

Job Name	Metal 001
Prescription No.	-
Account No.	-
Last Name	-
First Name	-
Address	-
Phone	-

TRANSFER

File Created	May 20, 2026, 5:05 PM
Transfer History	LMS May 20, 2026, 5:05 PM LMS push → EDGER / LensEdger / TEST-2 — 192.168.0

RX / OPTICAL LAYOUT

OPTICAL LAYOUT

	Right	Left
PD	60.00 mm	
MPD	72.68 mm	
DBL	22.83 mm	
IPD	30.00 mm	30.00 mm
OH (Box Center)	5.00 mm	5.00 mm

PRESCRIPTION

	Right	Left
Sphere	0.00	0.00
Cylinder	0.00	0.00
Axis	0.00	0.00
ADD	0.00	0.00
PRVM	0.00	0.00
PRVA	0.00	0.00

FRAME / SHAPE

Frame Curve	Frame Tilt
2.88	3.40 deg

	Right	Left
Horizontal Box	50.01	49.69
Vertical Box	46.77	46.87
Circumference	153.01	152.96
3D Circumference	153.02	152.97

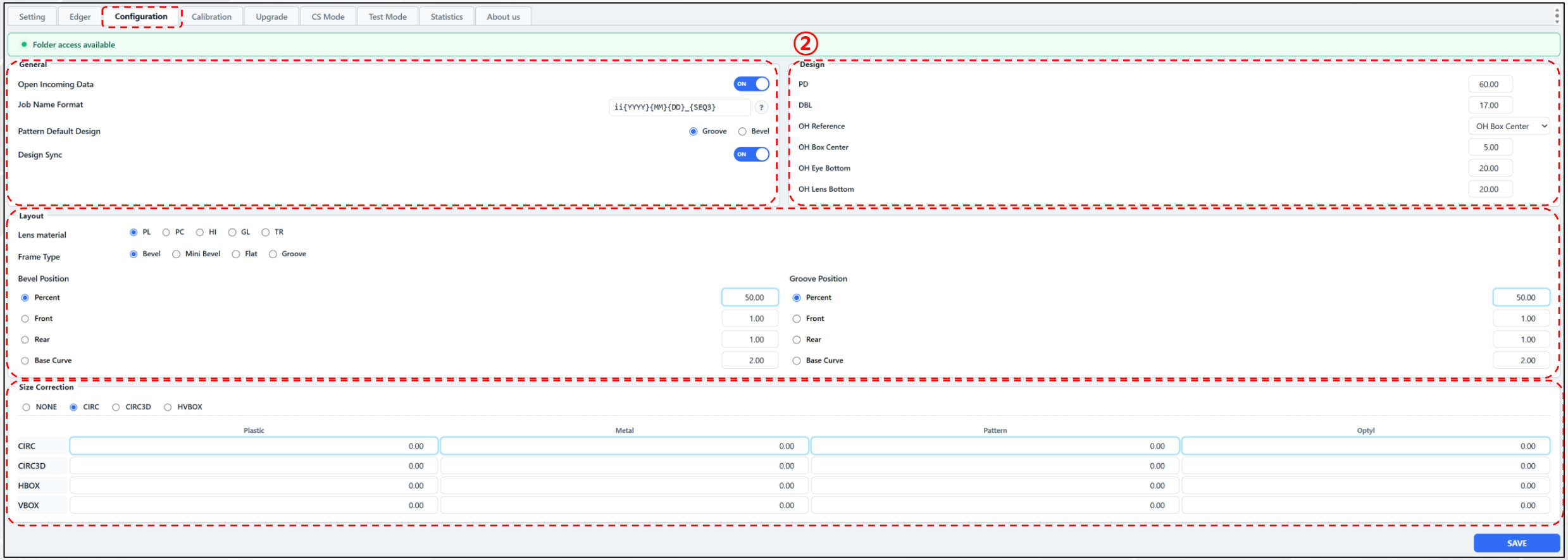
EDGING / MATERIAL

Lens Material	Edge Type	Polish	Bevel Position	Bevel Value
PL	Bevel	No	Percent	50 %

MEMO

-

4. Configuration



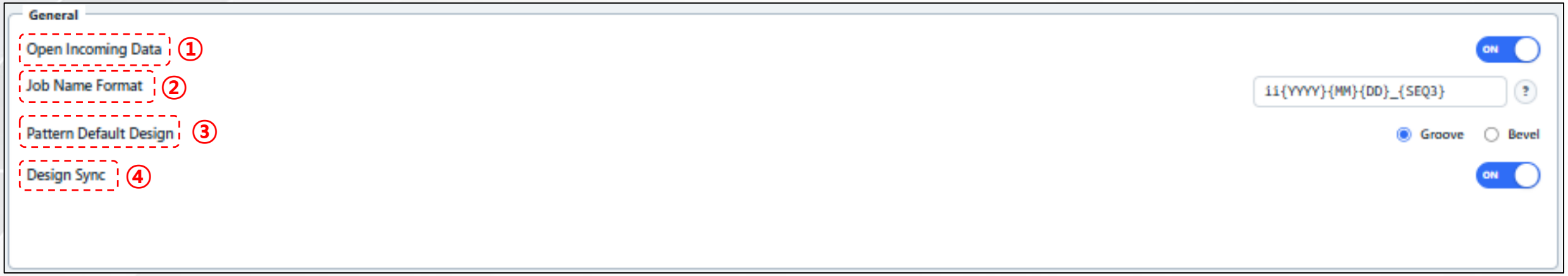
① **General** : General Settings.

② **Design** : Design Settings.

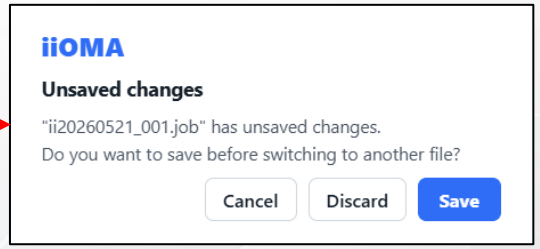
③ **Layout** : Set the default layout when loading data from the tracer.

④ **Size Correction** : For each frame material, you can select CIRC / CIRC3D / HBOX / VBOX to preset the size adjustment for the lens data read by the tracer.

4. Configuration (General)



① **Open Incoming data** : When set to "ON", if data is received from the tracer while editing job data, the following window appears and the corresponding job data is displayed on the screen.

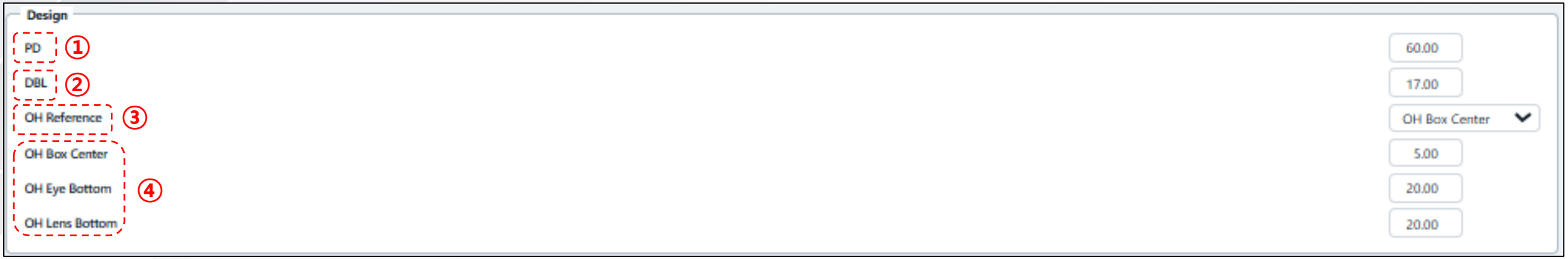


② **Job Name Format** : You can change the format of the saved JOB name.

③ **Pattern Default Design** : You can specify the pattern of the data to be loaded by selecting Bevel/Grooving.

④ **Design Sync** : When ON, the IPD design value is applied equally to both left and right.

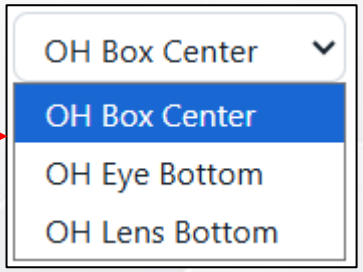
4. Configuration (Design)



① **PD** : You can preset basic value of PD (Pupillary Distance) when job data is open.

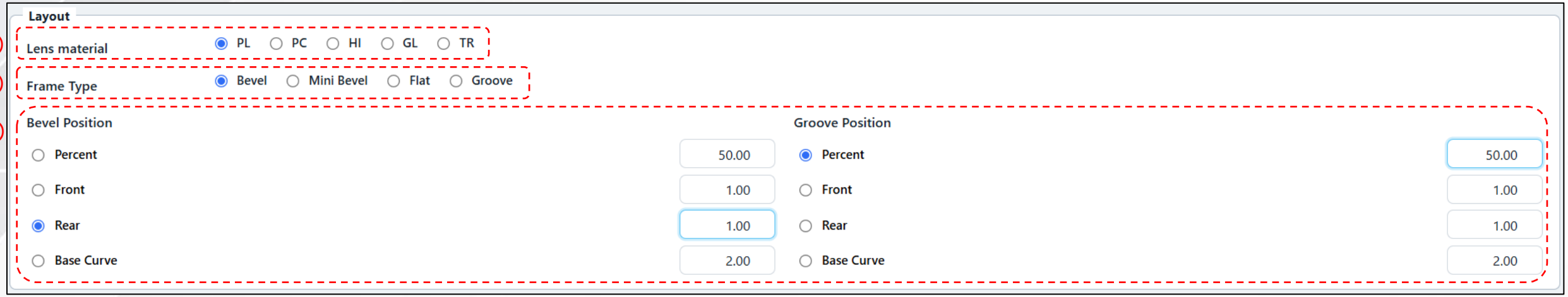
② **DBL** : You can preset basic value of DBL (Distance between lenses) when job data is open.
(Basic DBL value is only applied when you did not enter DBL value.)

③ **OH Reference** : You can select the OH reference of the JOB data from
OH Box Center / OH Eye Center / Lens Bottom Center.



④ **OH Value** : Default value when selecting the OH reference standard.

4. Configuration (Layout)

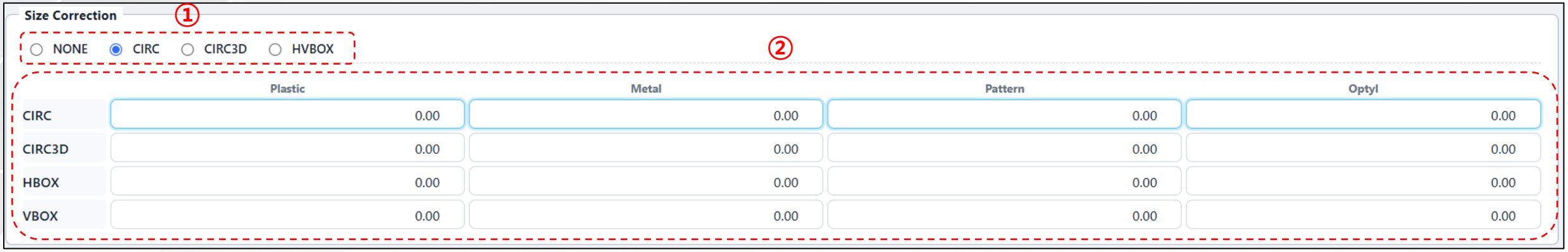


① **Lens material** : : You can set the material of the data to be loaded.

② **Frame Type** : You can set the frame type of the data to be loaded.

③ **Bevel&Groove Position** : You can set the processing position and numerical values for beveling and grooving.

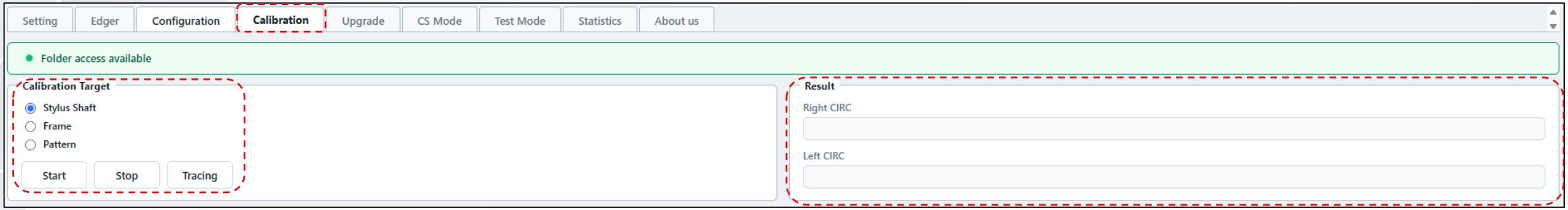
4. Configuration (Size Correction)



① **Size Correction select** : Select the method to use for Size Correction.

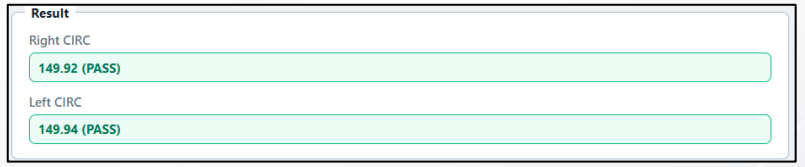
② **Material :** If you enter Size Correction values for each frame material, the entered values will be automatically applied when the data is loaded.

5. Calibration

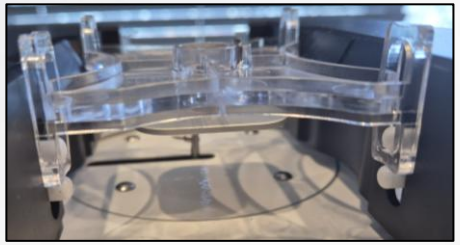


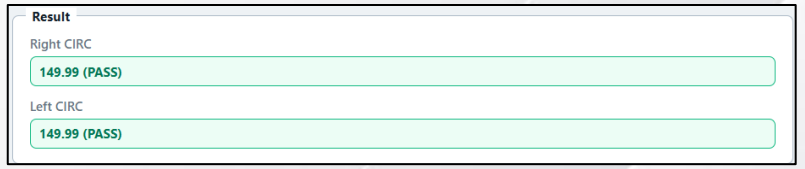
① **Stylus Shaft :** Calibration to optimize the reading process by measuring the sensitivity and weight of the stylus shaft. A separate jig is not required.

② **Frame :** Install the frame JIG and perform the calibration. When the calibration is complete, the circumference value will appear in the "Result" section. Please check whether it shows PASS.



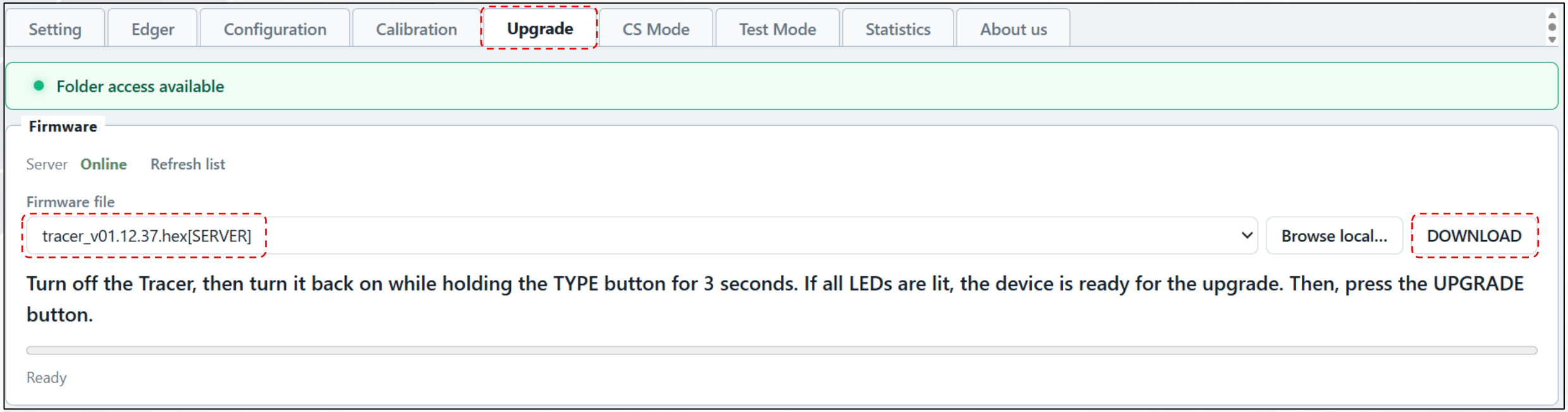
③ **Pattern :** Install the pattern jig and perform calibration. Once calibration is complete, the circumference value will be displayed in the "Result" section. Check if it says "Pass".



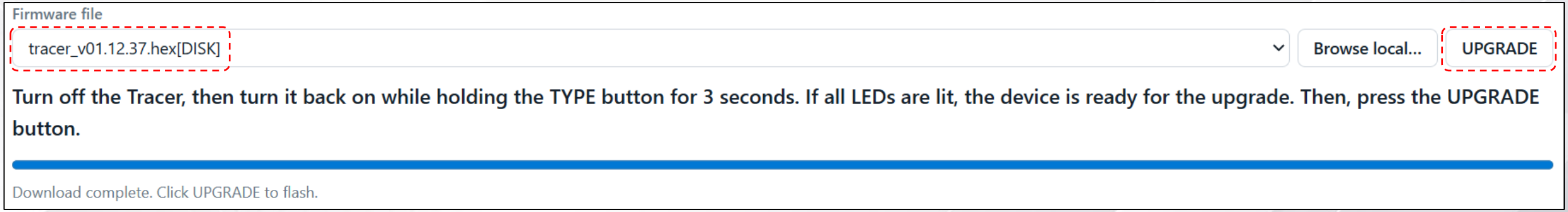


④ **Tracing :** Button for reading only to check the perimeter value after calibration.

6. Upgrade

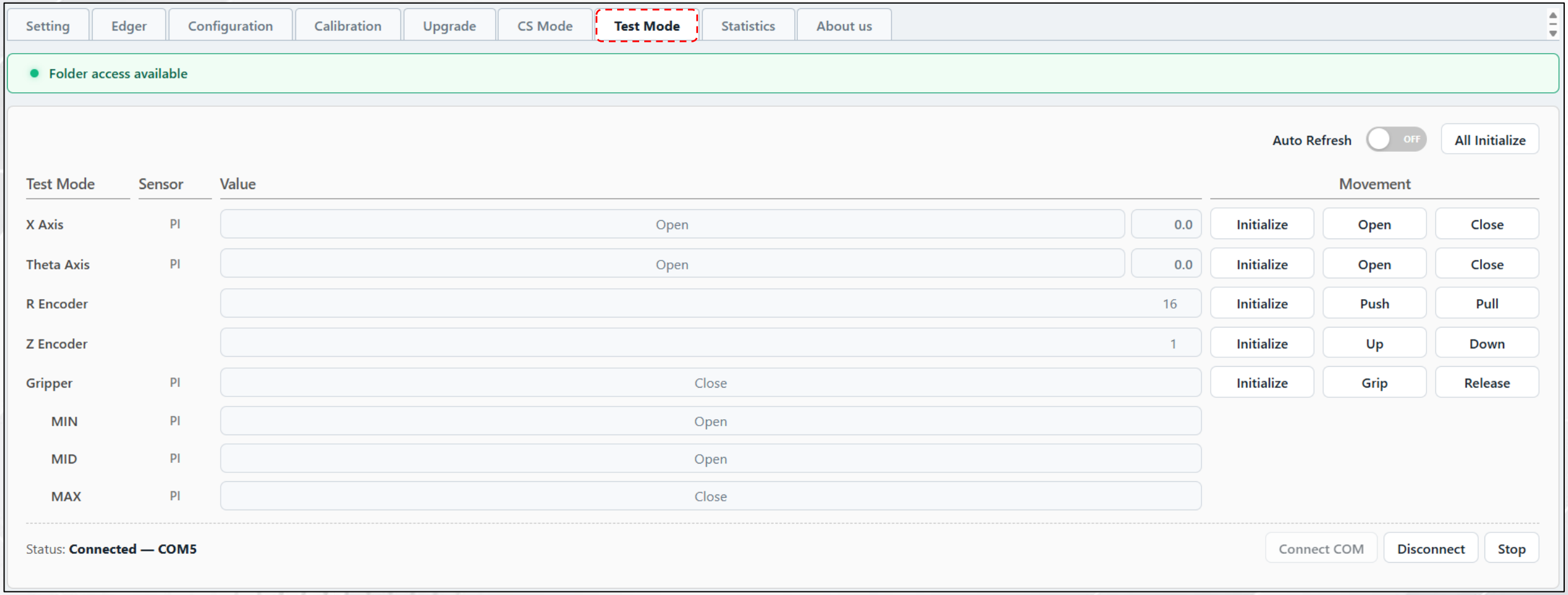


① When entering the Upgrade tab, the latest version marked with [SERVER] is automatically selected.
② Press Download, and once the download is complete, the file will be saved to DISK and the button will change to UPGRADE.



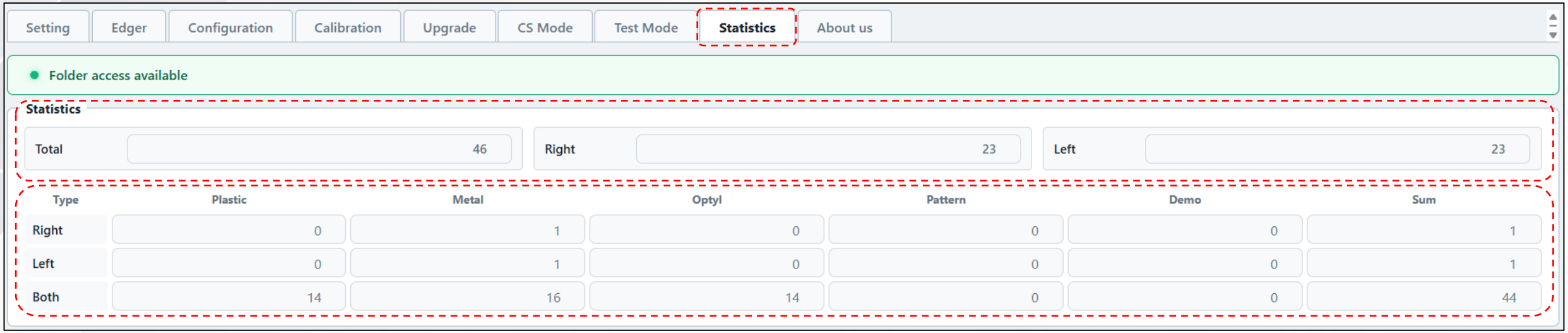
③ Turn off the Tracer, then turn it back on while holding the TYPE button for 3 seconds. If all LEDs are lit, the device is ready for the upgrade. Then, press the UPGRADE button.

7. Test Mode



① This screen is the test mode, allowing you to check the status of functions and sensors.

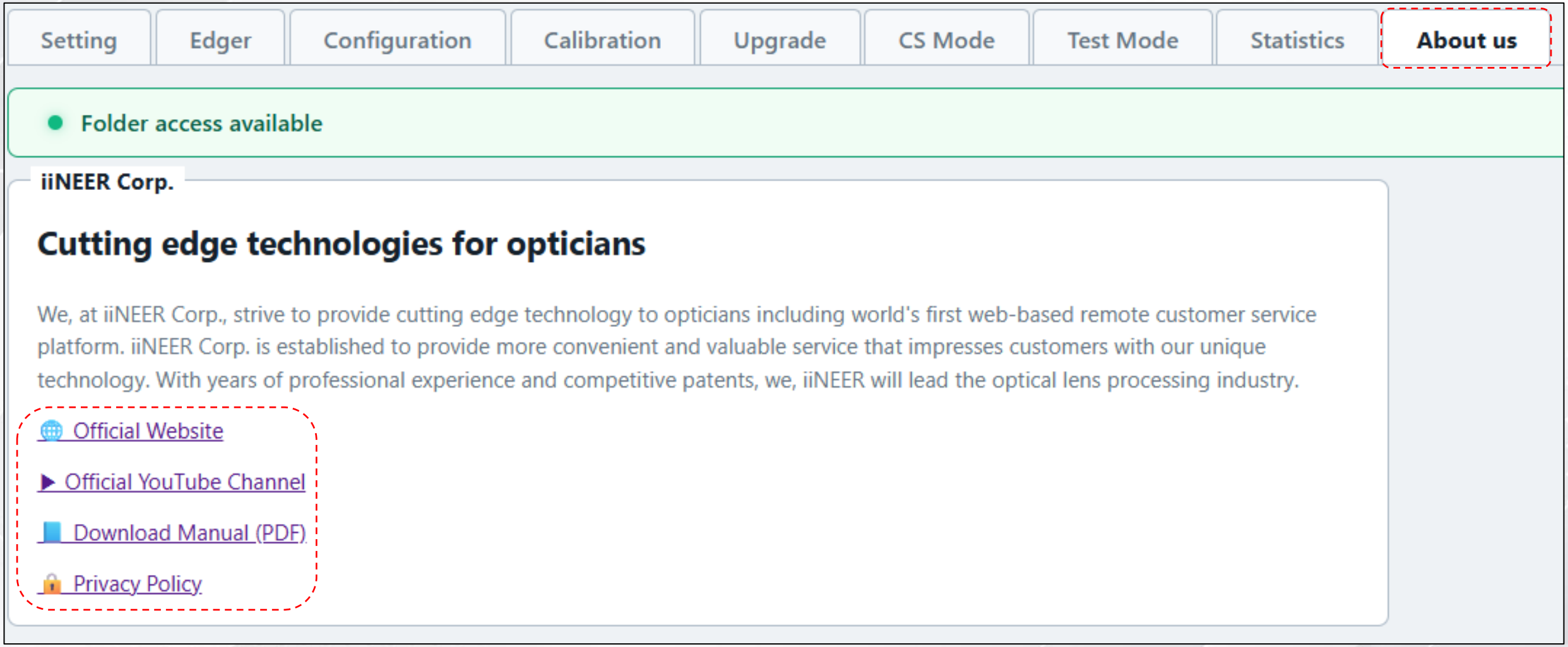
8. Statistics



① **Statistics** : Displays the number of times the frame has been read by the tracer.

② **Material** : Displays the number of times the tracer has read the right, left, and both sides according to the frame material.

9. About us



① You can access the official iineer website and YouTube channel through the posted links.
② You can download the manual.
③ You can check the Privacy Policy.