

Enhanced Depth Filter License Activation & Quick Start Guide

Document Version : [V1.0]

Release Date : [2026 July 10]

Applicable to : All Users

1.Preperations Before Activation

Please confirm the following items before starting the license activation process

License code / license file: typically composed of **16** alphanumeric characters

(e.g., PKG-11A2345B678C).

Network environment: a computer with a stable internet connection.

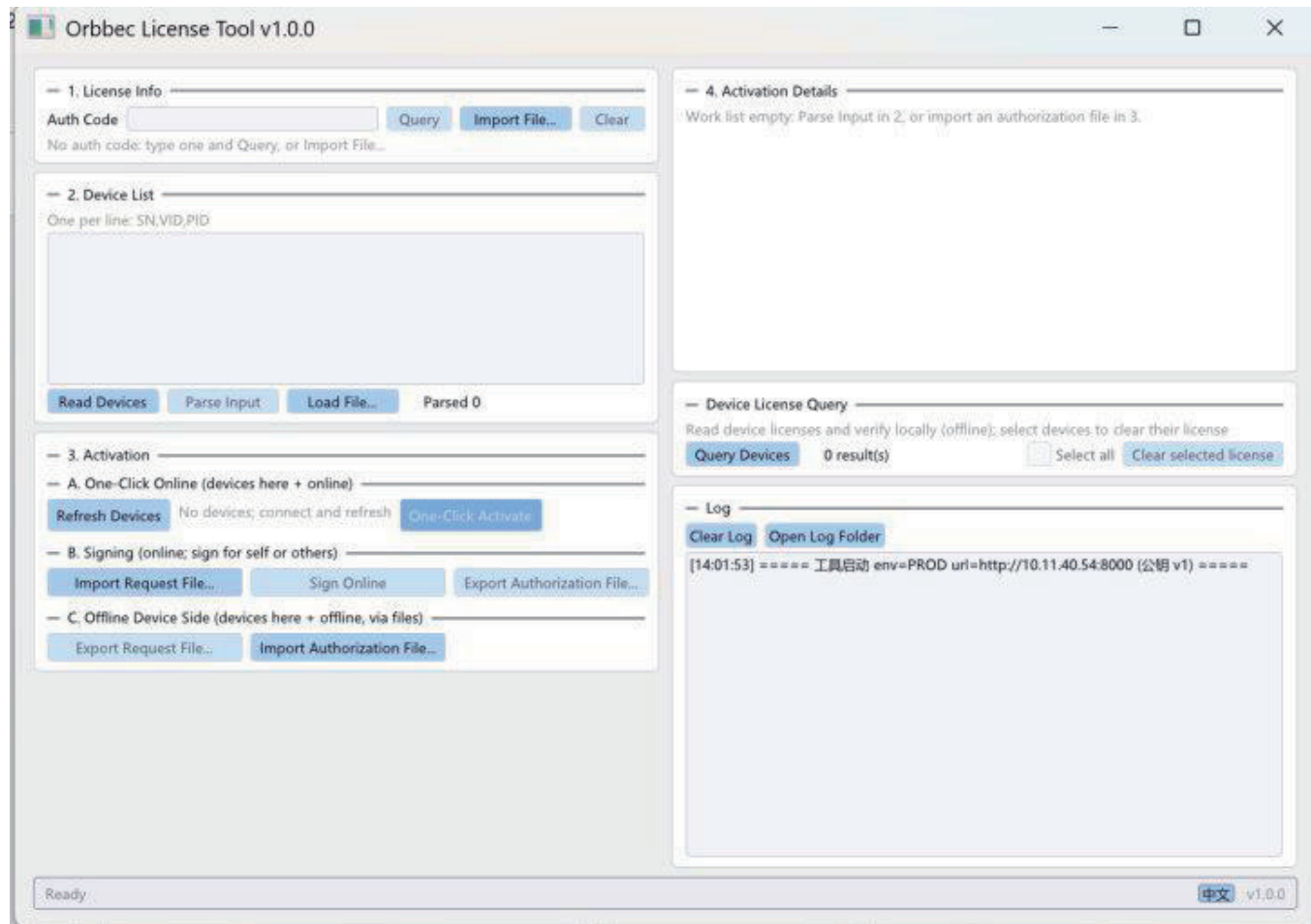
2.Activation Methods

There are two activation methods: **online activation** and **offline activation**. The procedures for each are described below.

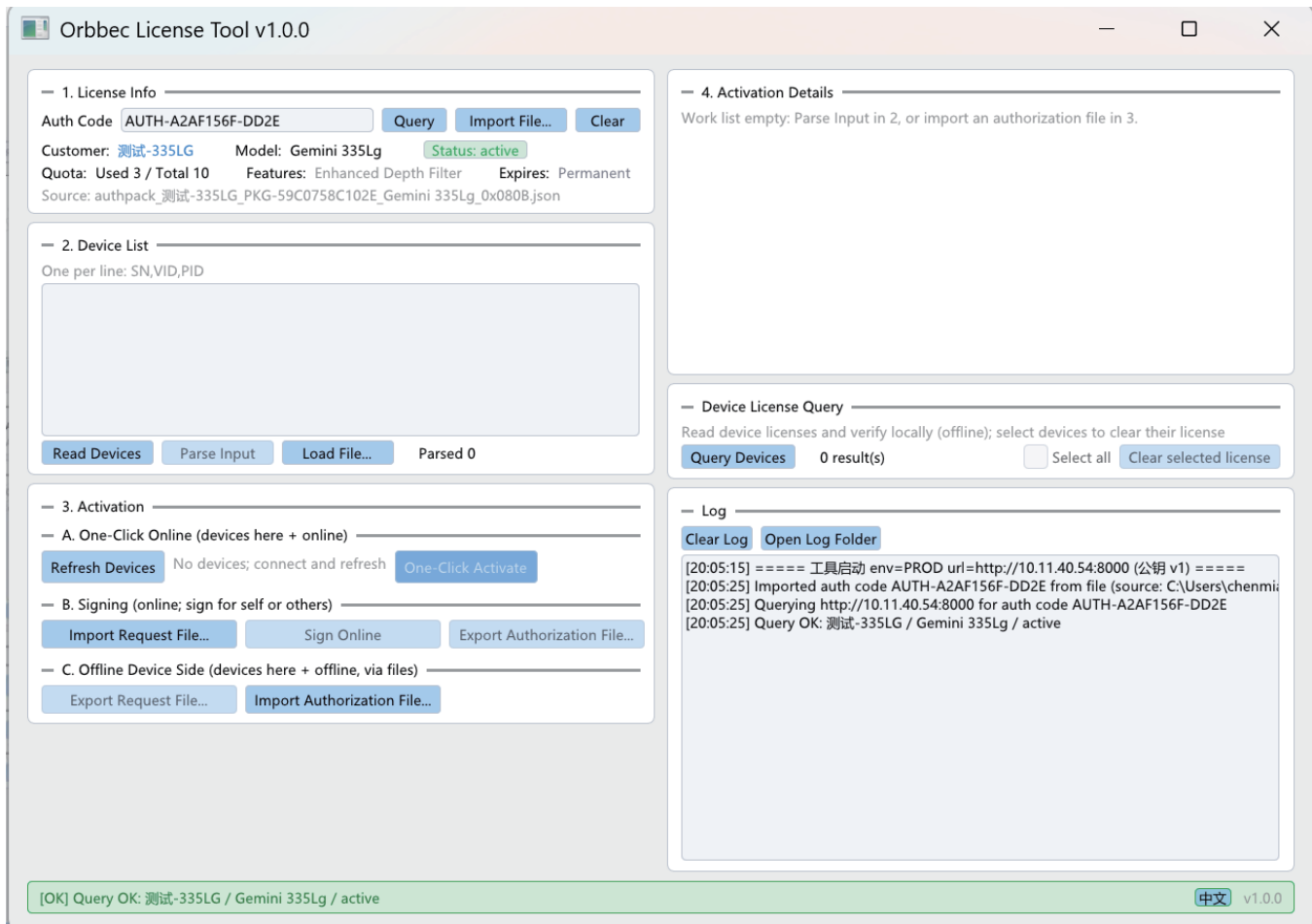
2.1 Online Activation

Step1. Prepare a license file and a computer with internet access.

Step2. Open the OrbbecLicenseTool.exe tool on the computer.



Step 3. Click "**1. License Info**" → "**Import File**" → select the prepared license file. After loading, you can view the current license status, used quota, total quota, validity period, and corresponding device model.



The screenshot shows the Orbbec License Tool v1.0.0 interface. It is divided into several sections:

- 1. License Info**: Contains an Auth Code field (AUTH-A2AF156F-DD2E), buttons for Query, Import File..., and Clear. Below this, it displays Customer: 测试-335LG, Model: Gemini 335Lg, Status: active, Quota: Used 3 / Total 10, Features: Enhanced Depth Filter, Expires: Permanent, and Source: authpack_测试-335LG_PKG-59C0758C102E_Gemini 335Lg_0x080B.json.
- 2. Device List**: Includes a text area for device information and buttons for Read Devices, Parse Input, Load File..., and a status bar showing Parsed 0.
- 3. Activation**: Contains three sub-sections: A. One-Click Online (devices here + online) with Refresh Devices, No devices; connect and refresh, and One-Click Activate buttons; B. Signing (online; sign for self or others) with Import Request File..., Sign Online, and Export Authorization File... buttons; C. Offline Device Side (devices here + offline, via files) with Export Request File... and Import Authorization File... buttons.
- 4. Activation Details**: A section for activation details, currently empty.
- Device License Query**: Includes a text area for device information and buttons for Query Devices, Select all, and Clear selected license. The status bar shows 0 result(s).
- Log**: Contains buttons for Clear Log and Open Log Folder, and a log area showing the following messages:

```
[20:05:15] ===== 工具启动 env=PROD url=http://10.11.40.54:8000 (公钥 v1) =====  
[20:05:25] Imported auth code AUTH-A2AF156F-DD2E from file (source: C:\Users\chenmi  
[20:05:25] Querying http://10.11.40.54:8000 for auth code AUTH-A2AF156F-DD2E  
[20:05:25] Query OK: 测试-335LG / Gemini 335Lg / active
```

A status bar at the bottom shows [OK] Query OK: 测试-335LG / Gemini 335Lg / active and a language selector (中文) v1.0.0.

Step 4. Connect the device to be activated, and then click "**3. Activation**" -- "**A. Online One-Click Activation**" -- click "**Refresh Devices**". After the device is loaded , click "**One-Click Activation**".

Orbbec License Tool v1.0.0

1. License Info

Auth Code Query Import File... Clear

Customer: 测试-335LG Model: Gemini 335Lg Status: active

Quota: Used 3 / Total 10 Features: Enhanced Depth Filter Expires: Permanent

Source: authpack_测试-335LG_PKG-59C0758C102E_Gemini 335Lg_0x080B.json

2. Device List

One per line: SN,VID,PID

Read Devices Parse Input Load File... Parsed 0

3. Activation

A. One-Click Online (devices here + online)

Refresh Devices Selected 1 / 1 One-Click Activate

Sel	SN	VID/PID	API	Sign	Write
☒	CP4R84P0003Y	0x2BC5/0x080B	Approved	OK	Written

B. Signing (online; sign for self or others)

Import Request File... Sign Online Export Authorization File...

C. Offline Device Side (devices here + offline, via files)

Export Request File... Import Authorization File...

4. Activation Details

Work list empty: Parse Input in 2, or import an authorization file in 3.

Device License Query

Read device licenses and verify locally (offline); select devices to clear their license

Query Devices 0 result(s) Select all Clear selected license

Log

Clear Log Open Log Folder

```

[20:05:15] ===== 工具启动 env=PROD url=http://10.11.40.54:8000 (公钥 v1) =====
[20:05:25] Imported auth code AUTH-A2AF156F-DD2E from file (source: C:\Users\chenmi
[20:05:25] Querying http://10.11.40.54:8000 for auth code AUTH-A2AF156F-DD2E
[20:05:25] Query OK: 测试-335LG / Gemini 335Lg / active
[20:06:54] Read 1 device(s); select and click One-Click Activate
[20:06:56] 1 device(s) already have different license data; awaiting overwrite confirmation
[20:06:56] 1 device(s) already have data; confirm overwrite in the dialog
[20:06:58] One-click: submitting 1 device(s), requestId=f17aaf0e-63ad-4637-b13b-30b5fa
[20:06:58] Archived request -> C:\Users\chenmiaoyan\AppData\Local\OrbbecLicenseTool
[20:06:58] responseSignature check: Pass
[20:06:58] Device SN=CP4R84P0003Y: approved, license signature OK
[20:06:58] One-click write OK SN=CP4R84P0003Y
[20:06:59] One-click all succeeded: rejected=0 writeOk=1 failed=0 notConnected=0 skip

```

[OK] One-click all succeeded: rejected=0 writeOk=1 failed=0 notConnected=0 skippedExisting=0

中文 v1.0.0

Step 5. After activation is complete, click "**Device License Query**" to check the result.

1. License Info

Auth Code

Customer: 测试-335LG Model: Gemini 335Lg Status: active

Quota: Used 3 / Total 10 Features: Enhanced Depth Filter Expires: Permanent

Source: authpack_测试-335LG_PKG-59C0758C102E_Gemini 335Lg_0x080B.json

2. Device List

One per line: SN,VID,PID

Parsed 0

3. Activation

A. One-Click Online (devices here + online)

Selected 1 / 1

Sel	SN	VID/PID	API	Sign	Write
☒	CP4R84P0003Y	0x2BC5/0x080B	Approved	OK	Written

B. Signing (online; sign for self or others)

C. Offline Device Side (devices here + offline, via files)

4. Activation Details

Work list empty: Parse Input in 2, or import an authorization file in 3.

Device License Query

Read device licenses and verify locally (offline); select devices to clear their license

1 result(s)
☐ Select all

Sel	SN	VID/PID	Status	Features	Expiry
☐	CP4R84P0003Y	0x2BC5/0x080B	Valid	Enhanced Depth F	Permanent

Log

```

[20:05:15] ===== 工具启动 env=PROD url=http://10.11.40.54:8000 (公网 v1) =====
[20:05:25] Imported auth code AUTH-A2AF156F-DD2E from file (source: C:\Users\chenr
[20:05:25] Querying http://10.11.40.54:8000 for auth code AUTH-A2AF156F-DD2E
[20:05:25] Query OK: 测试-335LG / Gemini 335Lg / active
[20:06:54] Read 1 device(s); select and click One-Click Activate
[20:06:56] 1 device(s) already have different license data; awaiting overwrite confirmatic
[20:06:56] 1 device(s) already have data; confirm overwrite in the dialog
[20:06:58] One-click: submitting 1 device(s), requestId=f17aaf0e-63ad-4637-b13b-30b5
[20:06:58] Archived request -> C:\Users\chenmiaoyan\AppData\Local\OrbbecLicenseTo
[20:06:58] responseSignature check: Pass
[20:06:58] Device SN=CP4R84P0003Y: approved, license signature OK
[20:06:59] One-click write OK SN=CP4R84P0003Y
[20:06:59] One-click all succeeded: rejected=0 writeOk=1 failed=0 notConnected=0 ski

```

[i] Queried 1 device(s) (details in log)

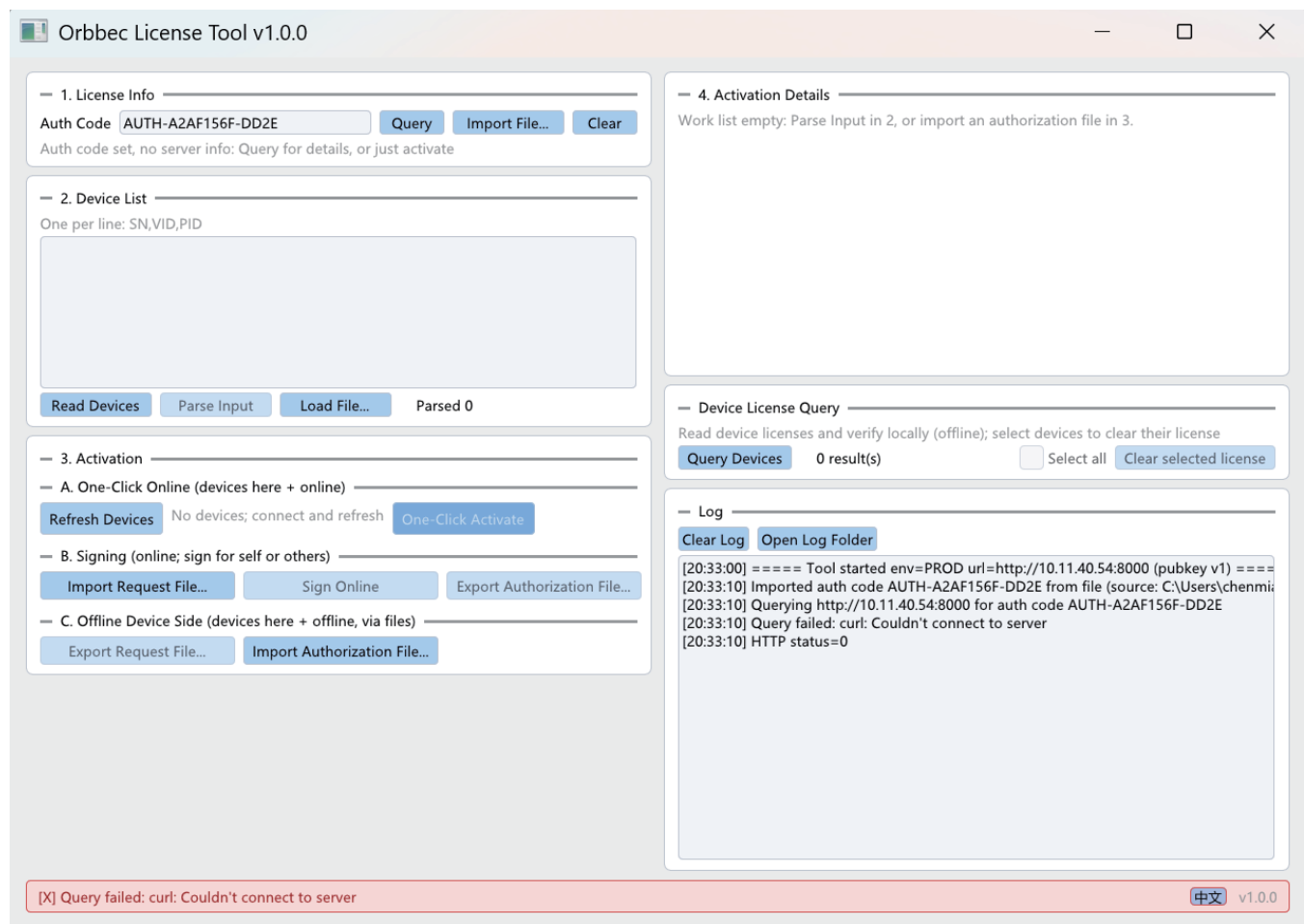
中文

v1.0.0

2.2 Offline Activation

Step1. If the computer connected to the device to be activated (e.g., Computer A) has no internet, prepare another computer with internet access (e.g., Computer B) and the license file.

Step2. On Computer A, open OrbbecLicenseTool.exe , click "1. License Info" → "Import File" → select the license file and confirm. Since Computer A has no internet, the license info will not load.

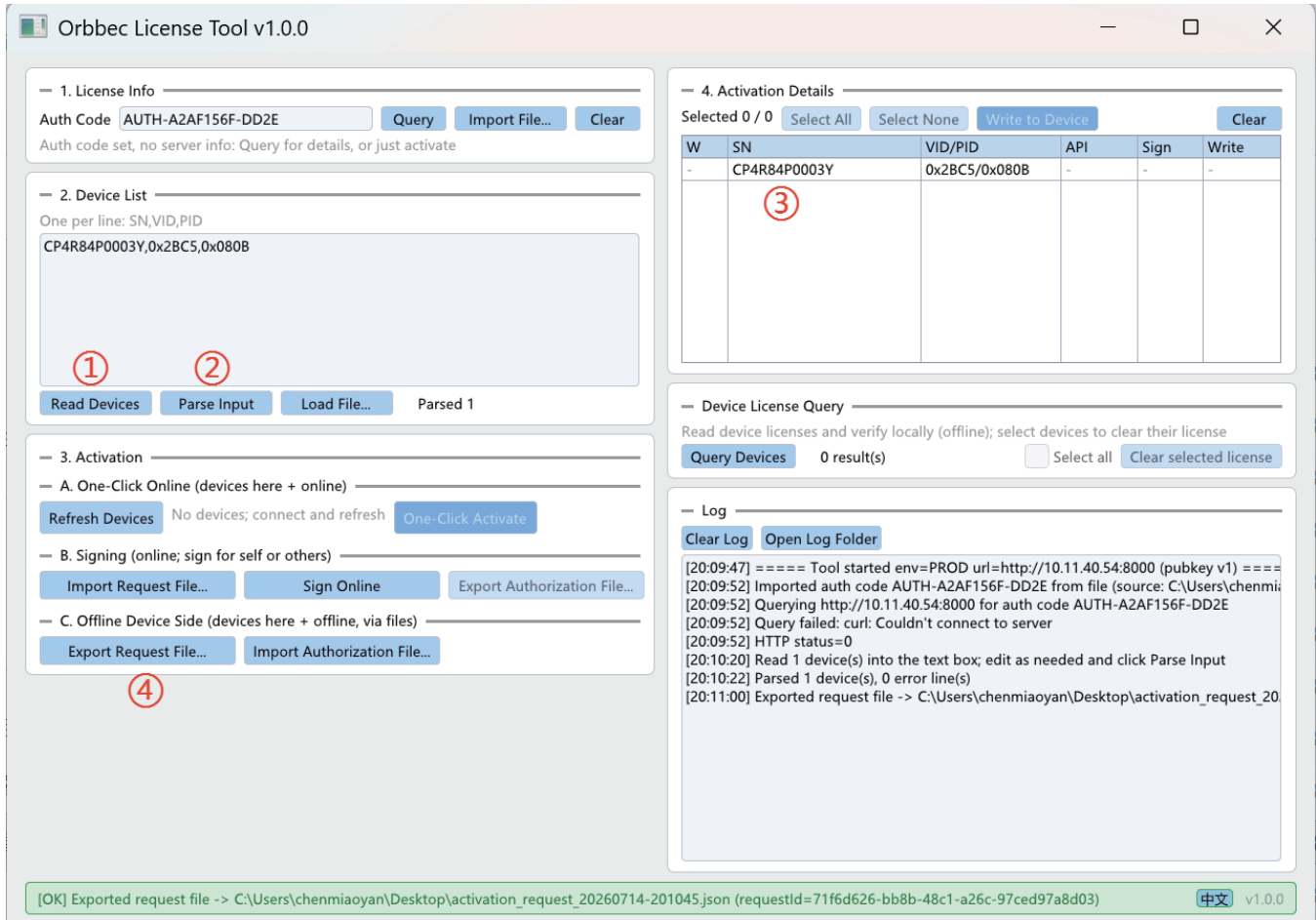


The screenshot shows the Orbbec License Tool v1.0.0 interface. The main window is divided into several sections:

- 1. License Info:** Contains an "Auth Code" field with the value "AUTH-A2AF156F-DD2E", a "Query" button, an "Import File..." button, and a "Clear" button. Below the field, it says "Auth code set, no server info: Query for details, or just activate".
- 2. Device List:** Contains a text area for device information (One per line: SN,VID,PID) and buttons for "Read Devices", "Parse Input", "Load File...", and "Parsed 0".
- 3. Activation:** Contains three sub-sections:
 - A. One-Click Online (devices here + online):** Includes a "Refresh Devices" button (with text "No devices; connect and refresh") and a "One-Click Activate" button.
 - B. Signing (online; sign for self or others):** Includes buttons for "Import Request File...", "Sign Online", and "Export Authorization File...".
 - C. Offline Device Side (devices here + offline, via files):** Includes buttons for "Export Request File..." and "Import Authorization File...".
- 4. Activation Details:** Contains the text "Work list empty: Parse Input in 2, or import an authorization file in 3."
- Device License Query:** Includes a "Query Devices" button, "0 result(s)", a "Select all" checkbox, and a "Clear selected license" button.
- Log:** Includes "Clear Log" and "Open Log Folder" buttons. The log text shows the tool starting, importing the auth code from a file, querying the server, and failing due to a connection error.

A red status bar at the bottom displays the error message: "[X] Query failed: curl: Couldn't connect to server". The bottom right corner shows a language selector set to "中文" and the version "v1.0.0".

Step3. Ensure the device is connected to Computer A, then click "2. Device List" → "Read Devices". After successful reading, click "Parse Input" → the devices to be activated will appear in "4. Activation Details". Then click "3. Activation" → "C. Offline Device Side" → "Export Request File" → select a save location and confirm.



The screenshot shows the Orbbec License Tool v1.0.0 interface with the following sections and actions:

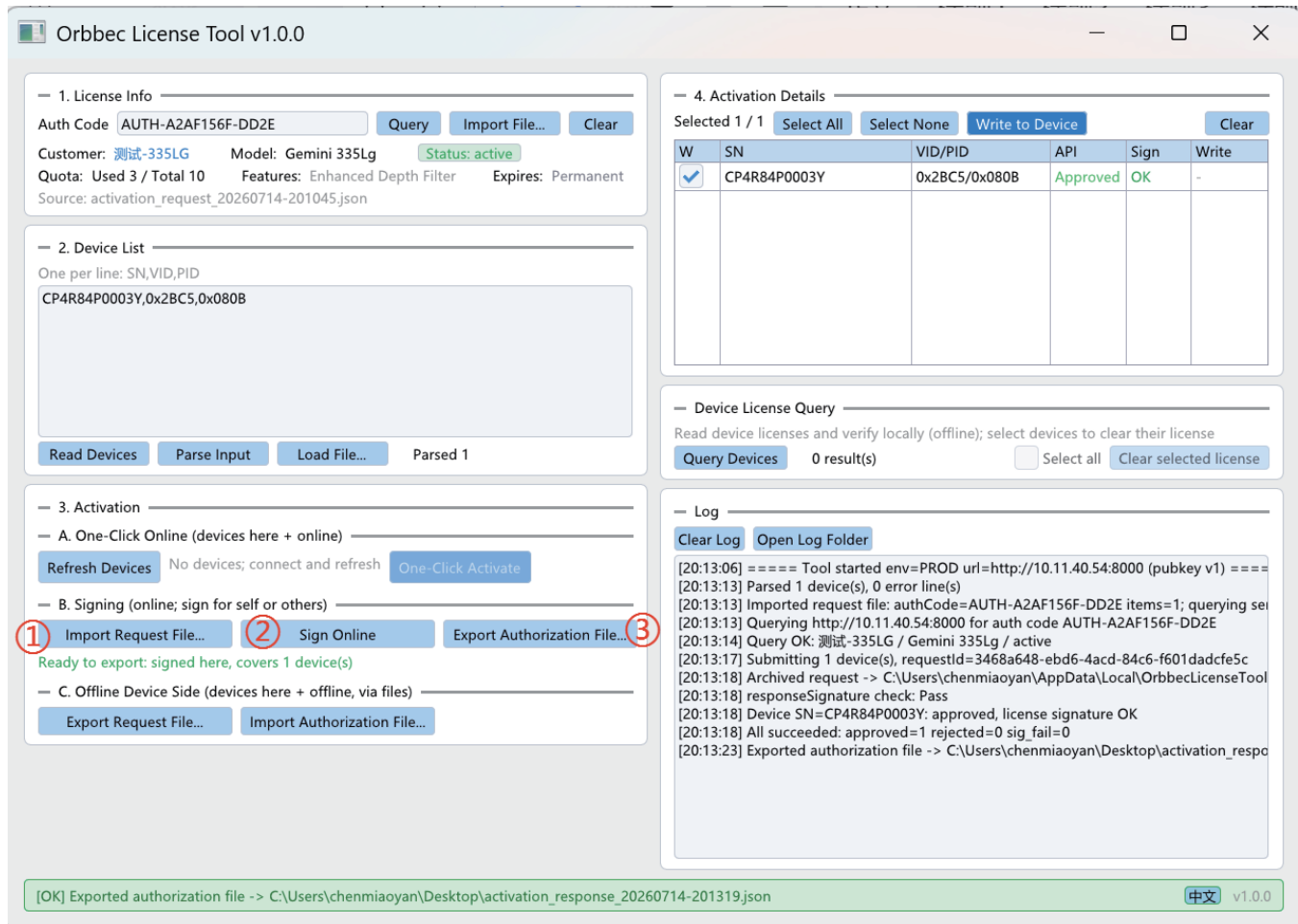
- 1. License Info:** Auth Code: AUTH-A2AF156F-DD2E. Buttons: Query, Import File..., Clear. Status: Auth code set, no server info: Query for details, or just activate.
- 2. Device List:** One per line: SN,VID,PID. Text area contains: CP4R84P0003Y,0x2BC5,0x080B. Buttons: Read Devices (1), Parse Input (2), Load File..., Parsed 1.
- 3. Activation:**
 - A. One-Click Online (devices here + online):** Refresh Devices, No devices; connect and refresh, One-Click Activate.
 - B. Signing (online; sign for self or others):** Import Request File..., Sign Online, Export Authorization File...
 - C. Offline Device Side (devices here + offline, via files):** Export Request File... (4), Import Authorization File...
- 4. Activation Details:** Selected 0 / 0. Buttons: Select All, Select None, Write to Device, Clear. Table:

W	SN	VID/PID	API	Sign	Write
-	CP4R84P0003Y	0x2BC5/0x080B	-	-	-
	(3)				
- Device License Query:** Read device licenses and verify locally (offline); select devices to clear their license. Buttons: Query Devices, 0 result(s), Select all, Clear selected license.
- Log:** Clear Log, Open Log Folder. Log text:

```
[20:09:47] ===== Tool started env=PROD url=http://10.11.40.54:8000 (pubkey v1) =====
[20:09:52] Imported auth code AUTH-A2AF156F-DD2E from file (source: C:\Users\chenmiaoyan\...)
[20:09:52] Querying http://10.11.40.54:8000 for auth code AUTH-A2AF156F-DD2E
[20:09:52] Query failed: curl: Couldn't connect to server
[20:09:52] HTTP status=0
[20:10:20] Read 1 device(s) into the text box; edit as needed and click Parse Input
[20:10:22] Parsed 1 device(s), 0 error line(s)
[20:11:00] Exported request file -> C:\Users\chenmiaoyan\Desktop\activation_request_20260714-201045.json
```

[OK] Exported request file -> C:\Users\chenmiaoyan\Desktop\activation_request_20260714-201045.json (requestId=71f6d626-bb8b-48c1-a26c-97ced97a8d03) 中文 v1.0.0

Step4. Copy the exported activation request file from Step 3 to Computer B (with internet). On Computer B, open OrbbecLicenseTool.exe, click "3. Activation" → "B. Signing" → "Import Request File". After successful import, click "Sign Online". After successful signing, click "Export Authorization File" → select a save path and confirm.

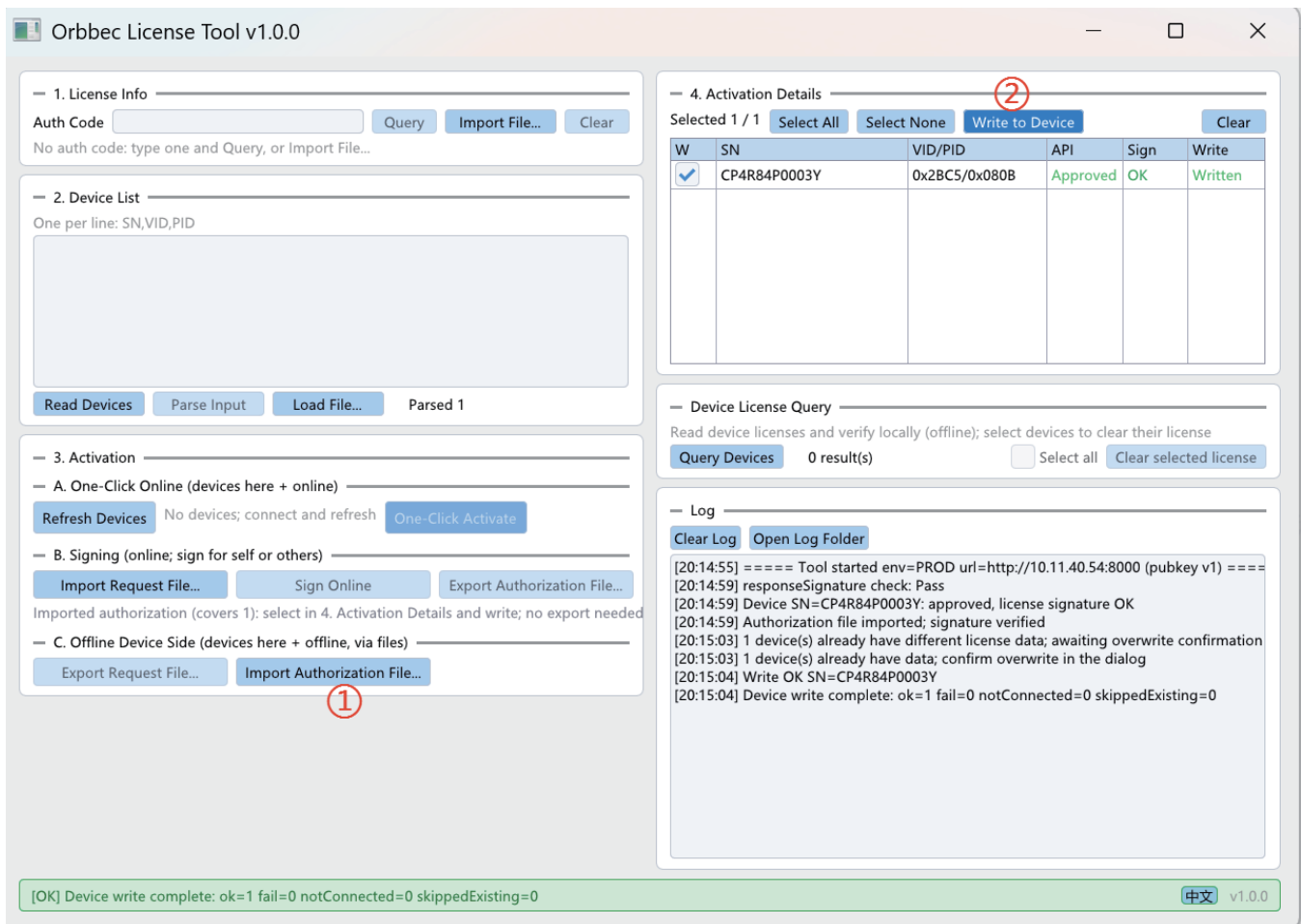


The screenshot shows the Orbbec License Tool v1.0.0 interface. The main window is divided into several sections:

- 1. License Info:** Displays Auth Code (AUTH-A2AF156F-DD2E), Customer (测试-335LG), Model (Gemini 335Lg), Status (active), Quota (Used 3 / Total 10), Features (Enhanced Depth Filter), and Expires (Permanent). Source: activation_request_20260714-201045.json.
- 2. Device List:** Shows a list of devices with columns W, SN, VID/PID, API, Sign, and Write. The first device is CP4R84P0003Y, 0x2BC5, 0x080B, with API Approved and Sign OK.
- 3. Activation:** Contains sub-sections A (One-Click Online), B (Signing), and C (Offline Device Side). In section B, the "Import Request File..." button is circled with a red 1, the "Sign Online" button is circled with a red 2, and the "Export Authorization File..." button is circled with a red 3.
- 4. Activation Details:** Shows a table with columns W, SN, VID/PID, API, Sign, and Write. The first device is CP4R84P0003Y, 0x2BC5, 0x080B, with API Approved and Sign OK.
- Device License Query:** Shows a button "Query Devices" and a status "0 result(s)".
- Log:** Displays a log of events, including "Tool started", "Parsed 1 device(s)", "Imported request file", "Querying http://10.11.40.54:8000 for auth code AUTH-A2AF156F-DD2E", "Query OK: 测试-335LG / Gemini 335Lg / active", "Submitting 1 device(s)", "Archived request", "responseSignature check: Pass", "Device SN=CP4R84P0003Y: approved, license signature OK", "All succeeded: approved=1 rejected=0 sig_fail=0", and "Exported authorization file".

At the bottom, a status bar shows "[OK] Exported authorization file -> C:\Users\chenmiaoyan\Desktop\activation_response_20260714-201319.json" and a language selector set to "中文" (Chinese) with version "v1.0.0".

Step5. Copy the activation authorization file from Step 4 back to Computer A (offline). On Computer A, open OrbbecLicenseTool.exe, click "3. Activation" → "C. Offline Device Side" → "Import Authorization Activation File" → select the copied file. After import, click "4. Activation Details" → "Write to Device". Successful writing indicates activation is complete. (Note: ensure the device is connected to Computer A before writing.)



The screenshot shows the Orbbec License Tool v1.0.0 interface. The '3. Activation' tab is selected, and the 'C. Offline Device Side' sub-tab is active. The 'Import Authorization File...' button is highlighted with a red circle 1. The '4. Activation Details' tab is also visible, with the 'Write to Device' button highlighted with a red circle 2. The 'Device License Query' section shows 0 results. The 'Log' section displays the following messages:

```
[20:14:55] ===== Tool started env=PROD url=http://10.11.40.54:8000 (pubkey v1) =====
[20:14:59] responseSignature check: Pass
[20:14:59] Device SN=CP4R84P0003Y: approved, license signature OK
[20:14:59] Authorization file imported; signature verified
[20:15:03] 1 device(s) already have different license data; awaiting overwrite confirmation
[20:15:03] 1 device(s) already have data; confirm overwrite in the dialog
[20:15:04] Write OK SN=CP4R84P0003Y
[20:15:04] Device write complete: ok=1 fail=0 notConnected=0 skippedExisting=0
```

The status bar at the bottom indicates: [OK] Device write complete: ok=1 fail=0 notConnected=0 skippedExisting=0. The interface also includes a language selector (中文) and version (v1.0.0).

Step6. To apply for multiple devices, connect multiple devices in Step 3 for parsing. If multiple devices cannot be connected simultaneously, fill in the SN, PID, and VID of the devices to be activated in a .txt or .csv file according to the template. Click "2. Device List" → "Load File" to import the prepared file. All devices will then appear in "4. Activation Details". Then click "C. Offline Device Side" → "Export Request File" and follow Step 4 as described above.

1. License Info

Auth Code:

Auth code set, no server info: Query for details, or just activate

2. Device List

One per line: SN,VID,PID

CP4R84P0003Y,0x2BC5,0x080B
CP4R84P0003W,0x2BC5,0x080B
CP4R84P0003X,0x2BC5,0x080B

Parsed 3

3. Activation

A. One-Click Online (devices here + online)

No devices; connect and refresh

B. Signing (online; sign for self or others)

C. Offline Device Side (devices here + offline, via files)

4. Activation Details

Selected 0 / 0

W	SN	VID/PID	API	Sign	Write
-	CP4R84P0003Y	0x2BC5/0x080B	-	-	-
-	CP4R84P0003W	0x2BC5/0x080B	-	-	-
-	CP4R84P0003X	0x2BC5/0x080B	-	-	-

Device License Query

Read device licenses and verify locally (offline); select devices to clear their license

0 result(s)

Log

[20:17:08] ===== Tool started env=PROD url=http://10.11.40.54:8000 (pubkey v1) =====
[20:17:20] Imported auth code AUTH-A2AF156F-DD2E from file (source: C:\Users\chenmiaoyan\Downloads\activation_request_20260714-201935.json)
[20:17:20] Querying http://10.11.40.54:8000 for auth code AUTH-A2AF156F-DD2E
[20:17:20] Query failed: curl: Couldn't connect to server
[20:17:20] HTTP status=0
[20:19:18] Parsed 3 device(s), 0 error line(s)
[20:19:18] Loaded 3 device(s)
[20:19:39] Exported request file -> C:\Users\chenmiaoyan\Downloads\activation_request_20260714-201935.json (requestId=9515ac20-1b19-409c-8e00-12ffab013f05)

[OK] Exported request file -> C:\Users\chenmiaoyan\Downloads\activation_request_20260714-201935.json (requestId=9515ac20-1b19-409c-8e00-12ffab013f05)

中文

v1.0.0

ORBEC INC.

www.orbbec.com

2800 Livernois Rd, Troy, MI 48083 USA

3.Common Error Codes and Solutions

Error Code	Meaning	Solutions
E_DEVICE_VID_PID_MISMATCH	Device model (VID/PID) does not match the license package binding.	This device cannot use this license package; please use a license code matching the device model.
E_LICENSE_REPLACED	This SN has been approved for device replacement and is no longer allowed for activation.	The old device has been retired after replacement; do not reactivate. Contact the issuer if you have questions.
E_LICENSE_QUOTA_EXHAUSTED	The license package quota has been used up.	Insufficient quota; please expand quota or use another package. (Re-activation of the same already-activated device does not consume quota.)
E_LB_NOT_CONFIGURED	The backend has not been configured with the third-party License service; issuance cannot proceed.	This cannot be resolved by the user; contact the backend administrator to configure the service and try again. (This operation does not consume quota and can be retried.)
E_LB_*` (other error codes starting with E_LB_)	Backend failed to call the third-party License service(login/query/issuance/download/network error).	This is a backend or third-party service issue; capture the error code and send it to the issuer for troubleshooting. (This operation does not consume quota and can be retried.)

4.Enhanced Depth Filter Usage & Accessing Related Tools

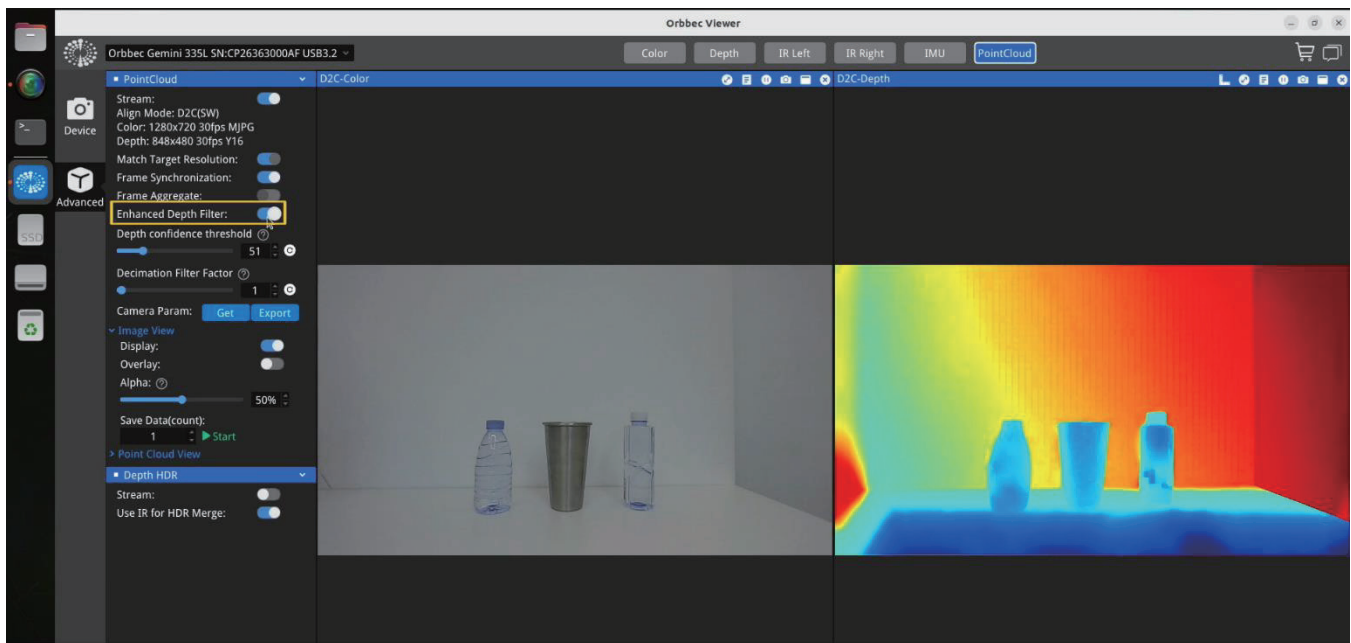
(1.) Download and install the latest version of the Orbbec SDK (V2.9.3)

Select and download the appropriate SDK based on your development environment.

https://github.com/orbbec/OrbbecSDK_ROS2/releases/tag/v2.9.3

https://github.com/orbbec/OrbbecSDK_v2/releases/tag/v2.9.3

(2.) Experience the depth enhancement performance via Orbbec Viewer:



(3.) Experience the depth enhancement performance via SDK Sample:

https://github.com/orbbec/OrbbecSDK_v2/tree/main/examples/3.advanced.enhanced_depth_filter