Lenovo™

ThinkPad Stack Mobile Projector User Guide

Contents

Chapter 1. In the box

Your option package contains the following:

- ThinkPad Stack Mobile Projector (referred to as projector)
- Lenovo 65W Travel AC Adapter (referred to as ac power adapter)
- ThinkPad Stack Mobile Projector Stand (referred to as stand)
- High-Definition Multimedia Interface (HDMI™) cable
- Documentation
- Protective case

If any item is missing or damaged, contact your place of purchases. Be sure to retain your proof of purchase and packing material. They might be required to receive warranty service.

Chapter 2. Product overview
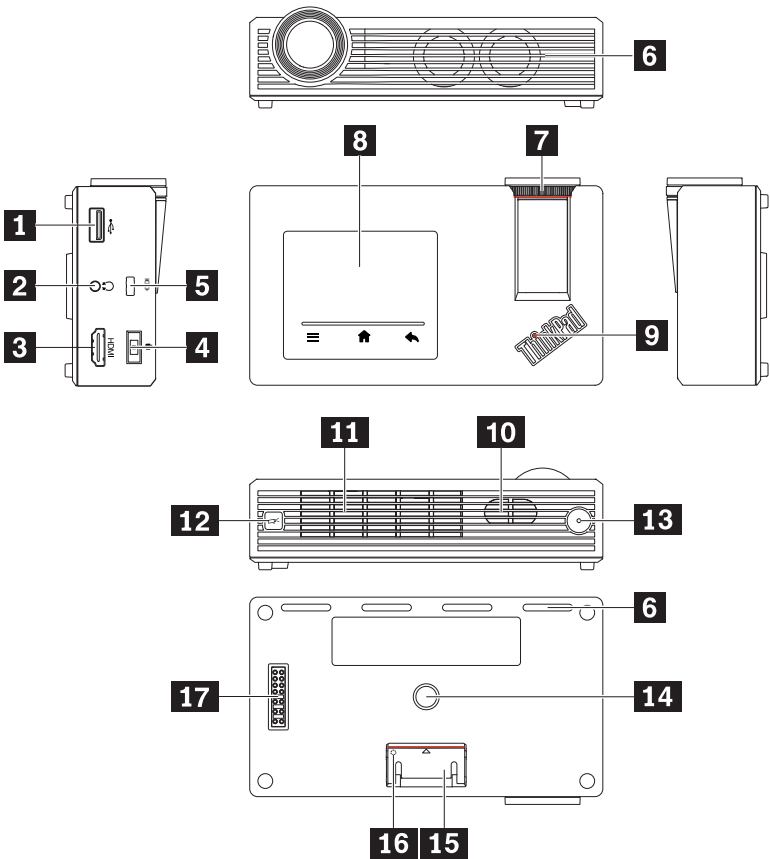
1 USB 2.0 connector		**2** Audio connector	
3 HDMI connector		**4** ac power connector	
5 Security-lock slot		**6** Vent-out*	
7 Focus wheel		**8** Touch pad	
9 ThinkPad logo LED		**10** Speaker	
11 Vent-in*		**12** Projector icon indicator	
13 Power button		**14** Tripod screw hole	
15 Foldout foot		**16** Reset hole	
17 Pogo pad			

Vent-out* and **Vent-in*:**

Caution: Do not block the vents when the projector is on.

Chapter 3. Starting the projector

Turning on the projector

Press and hold the power button for 1 second until the projector icon indicator is solid on.

Turning off the projector

There are three methods to turn off the projector:

- Press and hold the power button for 1 second. Then follow the instructions on the projector screen to turn off the projector.
- Press and hold the power button for 4 seconds until the projector icon indicator is off.
- Use ThinkPad Stack Assistant (referred to as Assistant app) to turn off the projector.

Status LEDs

The status LEDs on the projector flash in the following ways to indicate different working status of the projector.

LED activity	Projector status
Power button LED and projector icon indicator stay on.	Turned on
Projector icon indicator stays on and power button LED flashes in green.	Standby
Power button LED and projector icon indicator stay off.	Turned off
Power button LED turns amber.	Battery low (below 25%)
Power button LED flashes in amber.	Battery low (below 10%)
ThinkPad logo LED flashes for 5 times.	Power present

Chapter 4. Initializing the projector

After the projector is turned on, follow the instructions on the projector screen to initialize the projector:

1. Set the language, date, and time.
2. Download the Assistant app.

Before using the Assistant app, do the following:

1. Enable Hotspot from the Settings page of the projector.
2. Connect your phone to the projector through Wi-Fi.

Then you can start the Assistant app to enjoy the following functions:

- Easy control of the projector
- Easy display of files from external storage devices
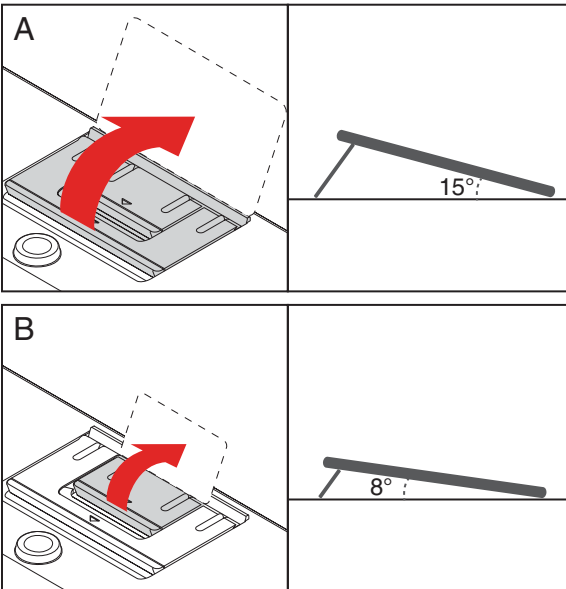
Chapter 5. Adjusting the projection angle

To adjust the projection angle, you can expand the foldout feet on the projector or stand.

- ThinkPad Stack Mobile Projector
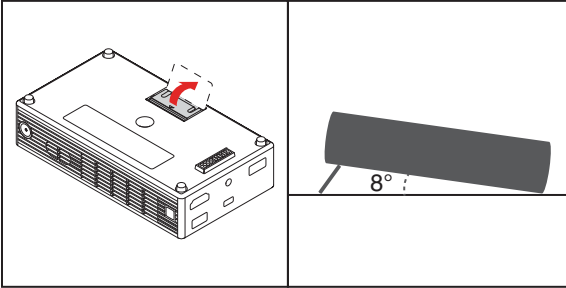
> **Attention**: Handle your projector gently. Do not push hard on your projector when the foldout foot is expanded.

- ThinkPad Stack Mobile Projector Stand

Chapter 6. Using the projector

Projector operating system

The projector is preinstalled with Android operating system.

To make your projector easier to use, the operating system provides vairous

functions on the Home page and Settings page.

- **On the Home page**

Function	Description
Cast Screen	Share a phone or computer screen with the projector through Wi-Fi.
HDMI	• HDMI off: Disable the HDMI function. • HDMI in: Share a phone or computer screen with the projector through the HDMI cable. • HDMI out: Share the projector screen with an external display through the HDMI cable.
External Storage Device	Access the external storage device connected to the projector.

- **On the Settings page**

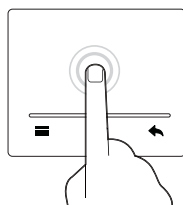| Function	Action
Wi-Fi	Click **Settings → Network Settings and Connection → Wi-Fi** and select a network to connect.
Hotspot	Click **Settings → Network Settings and Connection → Hotspot** and enable Hotspot.
Bluetooth	Click **Settings → Network Settings and Connection → Bluetooth** and select an available device to connect.
HDMI	Click **Settings → Others → HDMI** and select **HDMI off**, **HDMI in**, or **HDMI out**.
Keystone Correction	Click **Settings → Others → Keystone Correction** and enable **Auto Keystone Correction** or set the **Manual Keystone Correction** value.

Controlling the projector

You can control the projector through the following ways:

- Projector touch pad: The touch pad surface is sensitive to finger touch and movement. Use the touch pad to control the projector.
- Assistant app: Connect your phone or computer to the projector hotspot and use the Assistant app to control the projector from your phone or computer.
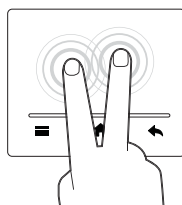
Touch pad touch gestures

You can use the touch pad to perform the same point and click actions as a traditional mouse.

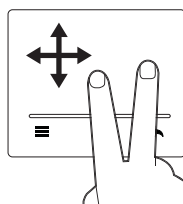You also can use the touch pad to perform the following touch gestures:

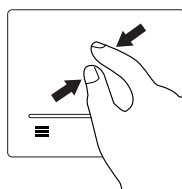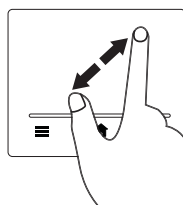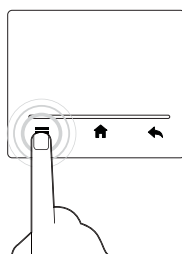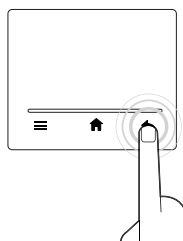|	
Touch: Tap. **Function**: Perform an action.	**Touch**: Tap and hold. **Function**: Display a shortcut menu.
Touch: Slide. **Function**: Scroll through items, such as lists, pages, and photos.	**Touch**: Move two fingers closer together. **Function**: Zoom out.
Touch: Move two fingers farther apart. **Function**: Zoom in.	**Touch**: Tap and hold ☰ for 2 seconds. **Function**: Display the volume control.
Touch: Tap and hold ← for 2 seconds. **Function**: Switch from the HDMI in or HDMI out mode into the projection mode.	

Accessing the storage devices

You can access the following storage devices:

- Internal memory of the projector
- External storage devices connected to the projector, such as a ThinkPad Stack 1TB USB3.0 Hard Drive or a Universal Serial Bus (USB) storage device

Sharing the phone or computer screen with the projector

You can share the phone or computer screen with the projector through a wired or wireless connection.

For wireless connection, ensure that your phone or computer is equipped with the following function:

- **Phone**: Cast screen or similar function
- **Computer**: Intel® Wireless Display (Intel WiDi) on the Windows 8, Windows 8.1, or Windows 10 operating system

Sharing the phone screen

Wireless connection

1. Projector: Enable Wi-Fi from the Settings page. Enable Cast screen from the Home page.
2. Phone: Enable Wi-Fi and Cast screen. Then follow the screen instructions to connect the phone with the projector through Cast screen.

Sharing the computer screen

- **Wired connection**
    1. Connect the computer with the projector through the HDMI cable.
    2. Set the projector in the HDMI in mode.
- **Wireless connection**
    1. Projector: Enable Wi-Fi from the Settings page. Enable Cast screen from the Home page.
    2. Computer: Enable Wi-Fi and press Windows+K. Then follow the screen instruction to connect the computer with the projector through Cast screen.

Sharing the projector screen with an external monitor

Ensure that the external monitor has an available HDMI connector. Then you can share the projector screen with the external monitor by doing the following:

1. Turn on the external monitor and connect the monitor with the projector through the HDMI cable.
2. Set the projector in the HDMI out mode.

Casting files from the phone or computer to the projector

With the Assistant app, you can cast files from your phone or computer to the projector by doing the following:

1. Projector: Enable Hotspot.
2. Phone or computer: Connect with the projector through Wi-Fi.
3. Assistant app: Start the Assistant app. Click the Projector icon, click the Folder icon, select one or more files, and click Cast for display.

The supported files include:

- Pictures: BMP, JPEG, JPG, and PNG
- Audios and Videos: 3GP, MP3, MP4, MKV, MPG, WAV, WEBM, TS, and VOB
- Documents: DOC, DOCX, PDF, PPT, PPTX, XLS, XLSX

Stacking with ThinkPad Stack devices

You can stack the projector with one or more ThinkPad Stack devices to extend the projector functions.

ThinkPad Stack devices

- ThinkPad Stack 10000mAh Power Bank (referred to as power bank)
- ThinkPad Stack 1TB USB3.0 Hard Drive (referred to as hard disk drive)
- ThinkPad Stack Bluetooth Speaker (referred to as Bluetooth speaker)

Projector functions extended

- With power bank: Extend power supply.
- With hard disk drive: Access the hard disk drive and display files on the projector.
- With Bluetooth speaker: Switch the audio output to the Bluetooth speaker.

Notes:

- It is not recommended to stack the projector with the router. The projector might not work correctly due to the heat generated by the router.
- The projection brightness varies with different power supplies. The brightness is higher by the ac power adapter than the power bank or internal battery.

Pairing the projector

You can pair the projector with a Bluetooth device by doing the following:

1. Turn on the Bluetooth device and set it in the paring mode.
2. Set the projector in the Bluetooth mode and pair it with the Bluetooth device.

System update

Ensure that the projector is connected to the Internet. Then you can go to the Settings page of the projector to start System update. Follow the screen instructions to complete the update.

Attention: During the system update, ensure that the projector is sufficiently charged to prevent update interruption and system damage.

Resetting the projector

Ensure that the ac power adapter is disconnected from the projector. Then you can reset the projector by doing the following:

1. Insert a needle or a straightened paper clip into the reset hole to press and hold the reset button for 5 seconds. Then release the button.
2. The Power button LED flashes for 3 times. Then the resetting process is completed.

Charging the projector
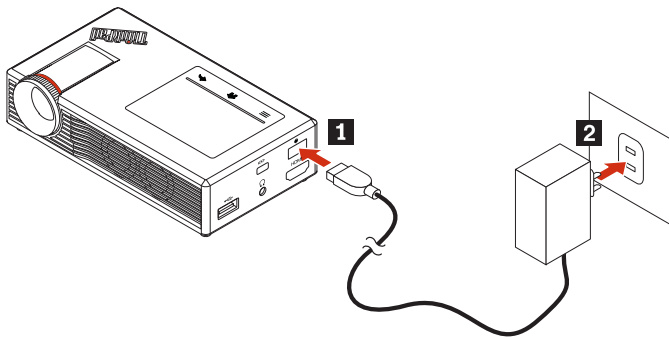
Chapter 7. Troubleshooting

Problem: The projector cannot be turned on by pressing the power button.

Solution: Ensure that the projector is sufficiently charged or is charging with the ac power adapter.

Problem: The projector icon indicator is on, but the focus wheel does not work.

Solution: The projector might be in the standby mode. To awake the projector, quickly press the power button on the projector. The focus wheel works when the power button LED is solid on.

Problem: The projector is turned on, but it takes too long to enter the Home page.

Solution: The projector needs about 25 seconds to enter the Home page. To solve the problem, restart the projector.

Problem: The HDMI in function does not work.

Solution:

1. Disconnect the HDMI cable and reconnect it to the computer and projector.
2. Set the projector to the HDMI in mode again.

Problem: The projector Wi-Fi function does not work.

Solution: Ensure that the projector is in the Wi-Fi mode.

Problem: The Bluetooth device cannot connect with the projector through Bluetooth.

Solution: Ensure that you have followed the correct pairing steps and enabled the Bluetooth function on the Bluetooth device.

Problem: The projector is stacked with the Bluetooth speaker, but there is no audio output from either device.

Solutions: The audio output is switched from the projector to the Bluetooth speaker.

- Ensure that the Bluetooth speaker is turned on and paired with the projector only.
- Ensure that the Bluetooth speaker is not stacked with a router.
- Press the play/pause button on the Bluetooth speaker.

Problem: There is noise in the Bluetooth speaker.

Solution: Ensure that:

- The Bluetooth speaker is correctly stacked with the projector.
- The projector has sufficient power. Otherwise, charge the projector through ac power adapter or correctly stack the projector to a power bank.

Problem: There is no audio output in the HDMI out mode.

Solution: The audio output is switched from the projector to the external monitor.

Ensure that the external monitor is equipped with internal or external speakers.

Problem: The projected image displays in a trapezoid shape.

Solution: Go to the Settings page of the projector. Then enable Auto Keystone Correction or set the Manual Keystone Correction value.

Problem: There is response delay or mosaic during the video play through Cast screen.

Solution: Reduce the distance between your phone or computer and projector.

Problem: The projector does not recognize the stacked hard disk drive.

Solution: Ensure that:

- The hard disk drive is correctly and directly stacked with the projector.
- The hard disk drive is not stacked with a router.

Problem: The projector fans become noisy.

Solution: Ensure that:

- The projector vents are not blocked.
- The projector is not stacked with a power bank.

Problem: The projector turns off unexpectedly.

Solution: Ensure that the projector is well-ventilated. Allow the projector to cool down and then turn on the projector.

Problem: The ac power adapter cannot charge the projector when the projector is stacked with a power bank.

Solution: The power bank has the priority of charging. To solve the problem, remove the power bank from the projector.

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