User Manual

TopInfrared

Topinfrared

For Android: V3.23
For iOS: V3.60

TOPDON®

CONTENTS

01. PREPARATIONS

1.1 Installing the App

You can search for "Infrared" on the **Google Play** or **App Store** and download the app.

You can also scan the **QR-code** below to download the app.

GET IT ON
Google Play | Download on the App Store | Topinfrared

Topinfrared

Please download the app and install it on your phone.

*Note:* The app interfaces may vary slightly due to update. Please refer to the actual product.

1.2 Connecting a Device to Your Phone

Before capturing thermal images, you have to connect a thermal imaging camera to your phone. The connection is easy.

TOPDON has developed both wired and wireless thermal imaging cameras. For wired devices, you just need to insert the connector (USB-C or Lightning) to your phone's port. For wireless devices, you can launch the app on your phone and establish a wireless connection with one tap.

Notes:

- Please note whether the thermal imaging camera you've bought supports Android or iOS. Currently, TC001, TC001 Plus and TS001 support Android only. TC002 and TC002C support iOS only. TC007 and TS004 support both Android and iOS.

- If you launch the TopInfrared app without connecting a device, the app will remind you.

Monitor Gallery Report Learn More
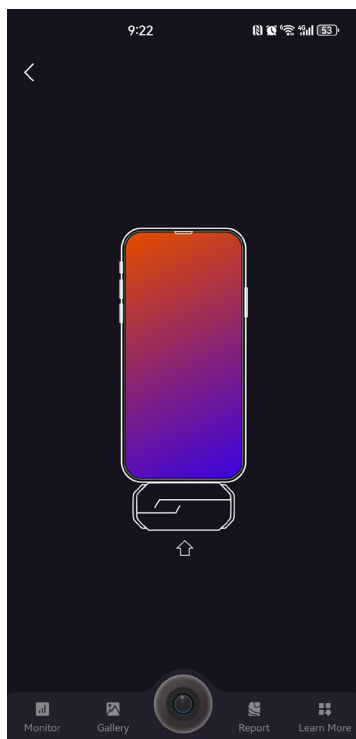
02. TAKING PHOTOS/VIDEOS

This section is suitable for these thermal imaging cameras: TC001, TC001 Plus, TC002, TC002C, and TS001.

1. Connect the device to your phone and launch the Infrared app.

2. Tap at the bottom of the screen and then tap **Thermal imaging mode.**
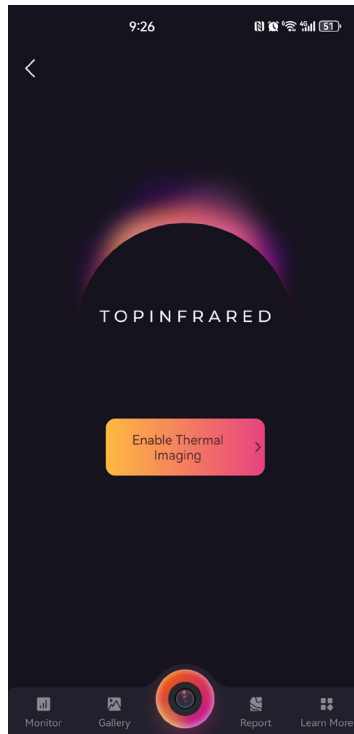
The app will automatically get to the photo mode. You can tap Video on the control panel to switch to the video mode.
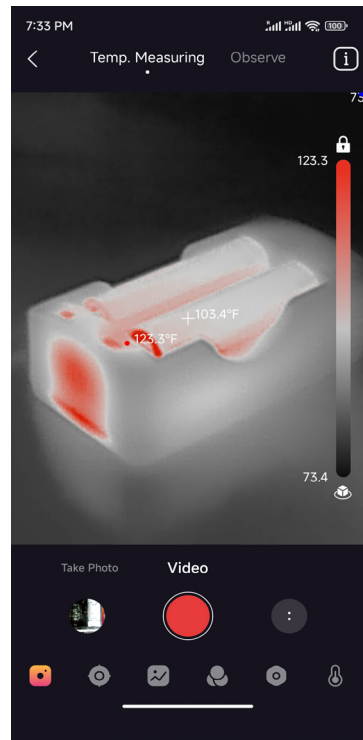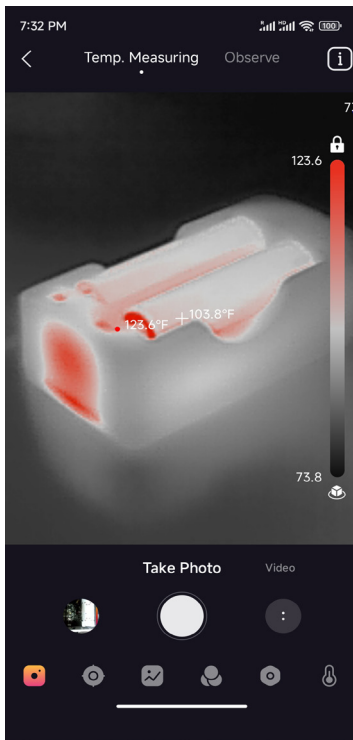
3. Tap ⚪ or 🔴 to take a photo or a video.

4. Tap **Temp. Measuring** or **Observe** to switch between the two modes.

- **[Temp. Measuring]** mode: This is the default mode. Professional temperature measurement tools are provided, such as the dot/line/plane kit, warning for high/low temperature, etc. The captured images will contain temperature data, which can be used for secondary analysis.

- **[Observe]** mode: Observation tools are provided, such as dynamic recognition, fuzzy distance measurement, compass, etc. The captured images will not contain any temperature data.

03. USEFUL TOOLS FOR PHOTOS/VIDEOS

The TopInfrared app provides a lot of useful tools to help you in different situations.

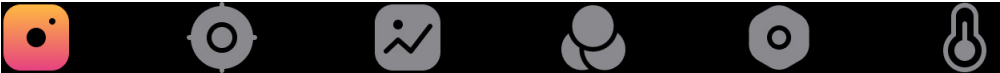|	
⚪	This icon only appears in the photo mode in the middle of the control panel. You can tap this icon to take a photo.
🔴	This icon only appears in the video mode in the middle of the control panel. You can tap this icon to take a video.
⚫	This icon appears both in the photo and video modes on the left side of the control panel. You can tap this icon to skip to the Gallery where you can view the captured photos and videos.
⋮	This icon appears both in the photo and video modes on the right side of the control panel. When you tap this icon, a sub-menu bar will appear just above the control panel.

You can tap this icon to set the camera delay.

You can tap this icon to manually activate the shutter to calibrate the temperature once.

You can tap this icon to enable or disable the audio recording feature.

You can tap this icon for more options.

You can tap this icon to enable or disable the Auto Shutter feature.
Note: When the Auto Shutter feature is enabled, the shutter will be automatically activated every few seconds, which might cause the screen to freeze for one second. When it is disabled, the camera may fail to accurately detect the temperature.

This menu bar appears at the bottom of the screen. You can tap each icon for more functions.

	This icon is highlighted by default. When it is highlighted, the app is ready for you to take photos or videos.

When you tap this icon, a sub-menu bar will appear.

You can tap this icon and then draw a dot on a photo/video that you are taking or on a captured photo. The app will present the temperature at this dot.
Note: You can at most draw three dots on a photo/video. When you draw the fourth one, the first one will be cleared.

You can tap this icon and then draw a line on a photo/video that you are taking or on a captured photo. The app will present the highest and lowest temperatures on this line.
Note: You can at most draw three lines on a photo/video. When you draw the fourth one, the first one will be cleared.

You can tap this icon and then draw a plane on a photo/video that you are taking or on a captured photo. The app will present the highest and lowest temperatures within this plane.
Note: You can at most draw three planes on a photo/video. When you draw the fourth one, the first one will be cleared.

This icon is highlighted by default. When it is highlighted, the app will present the highest and lowest temperatures within the full image and also the temperature at the center of the image.

When you tap this icon, all of the dots, lines and planes that you drew will be cleared, and all of the tools will be disabled.

When you tap this icon, a sub-menu bar will appear.

When you tap this icon, a visible image that is being taken by the camera of your phone will appear over the infrared image that is being taken by the thermal camera.

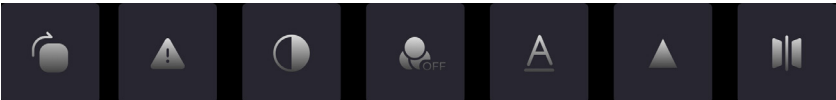You can tap this icon to adjust the transparency of the visible image.

You can tap this icon to adjust the zoom level of the infrared image.

You can tap this icon to set the pseudo-coloring. The app provides multiple preset pseudo-coloring schemes. You can slide horizontally to choose one that you prefer.

When you tap this icon, a sub-menu bar will appear. You can slide horizontally for more tools.

You can tap this icon to rotate the image.

You can tap this icon to set an alarm. The alarming here is about low and high temperatures. Please follow the on-screen instructions for the setting.

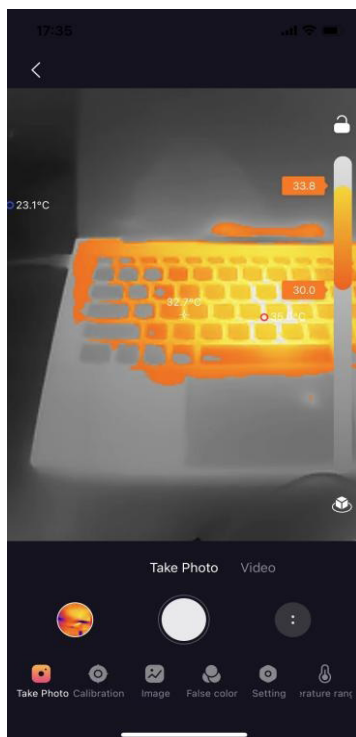 You can tap this icon to adjust the contrast of the image.

 You can tap this icon to display or hide the pseudo color bar. When enabled, this bar will appear by the right edge of the screen.
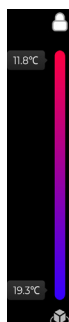

This bar gives the highest and lowest temperatures within the current image.

Tap above the bar to unlock it and you'll see two

labels. Then you can drag either label or both up and down to redefine the highest and/or lowest temperatures according to your needs. The parts of the image that fall within the temperature range will show accordingly.

Tap below the bar, and then you can follow the on-screen

instructions to define a color mode.
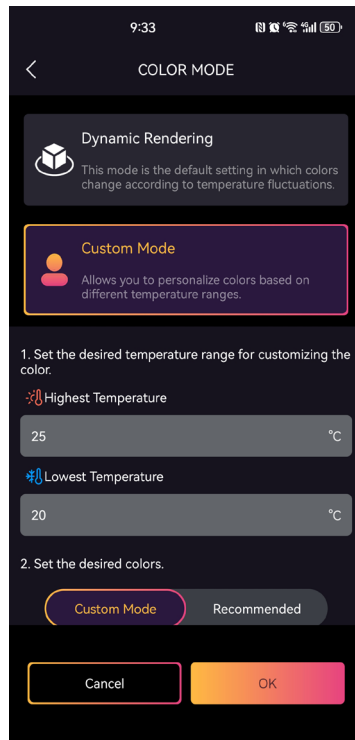
You can tap this icon to adjust the font color of the temperature values displayed on the screen.

You can tap this icon to adjust the brightness of the image.

You can tap this icon to mirror the image.

You can tap this icon to choose a temperature range. Two options are available: -20~150°C; 150~550°C.

04. GALLERY

The Gallery stores all the captured photos and videos for viewing. You can also edit these photos, generate thermal reports, and export temperature data via Excel files.

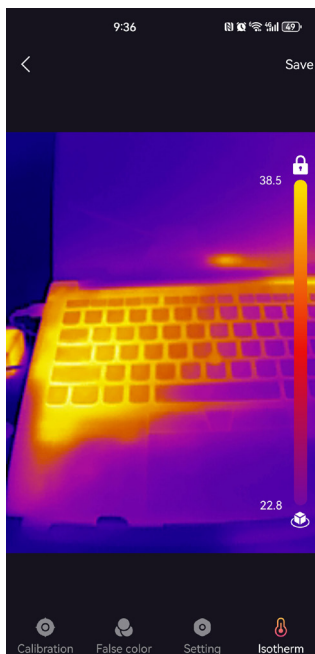After launching the TopInfrared app, you have two ways to access the Gallery:
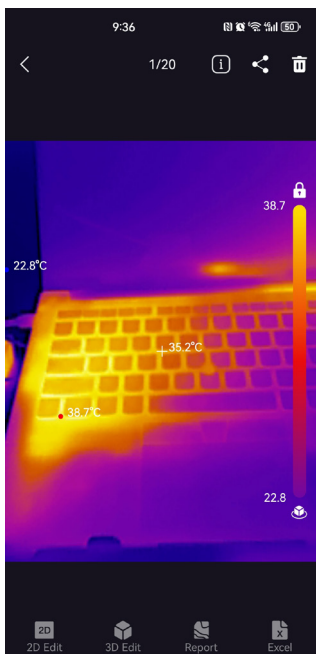
- Tap at the bottom of the home screen.
- On the photo/video taking screen, tap on the left side of or .

4.1 Editing Captured Photos

The app offers 2D and 3D editing features.

4.1.1. 2D Editing

1. Get to the Gallery and tap a photo.
2. Tap **2D** at the bottom to activate the 2D editing mode.

The tools for 2D editing are provided.

For how to use these tools, please refer to Section 4 Useful Tools for Photos/Videos.

3. After editing, tap **Save** at the upper right corner of the screen.
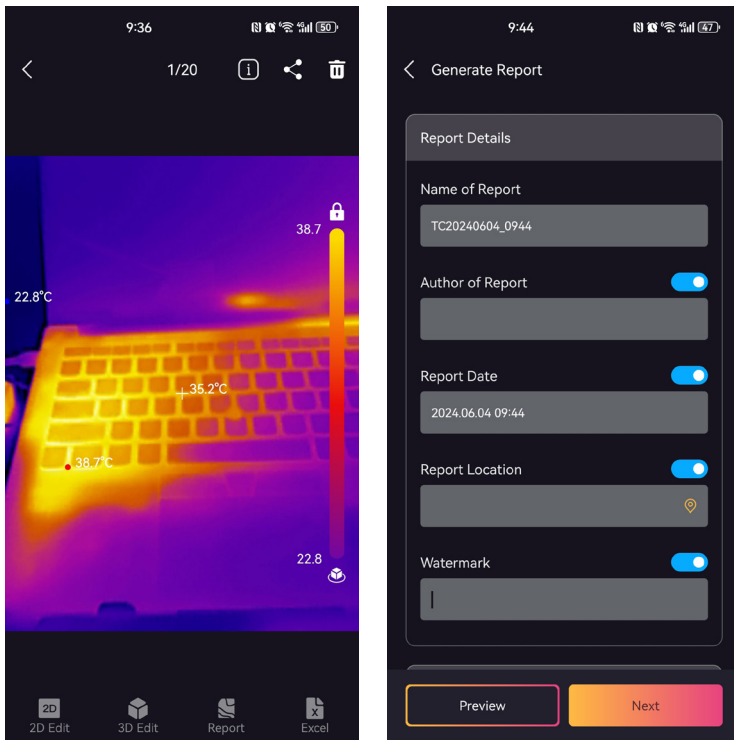   You can view the edited photo in the Gallery.

4.1.2 3D Editing

1. Get to the Gallery and tap a photo.

2. Tap at the bottom to activate the 3D editing mode.


4.2 Generating Thermal Reports

1. Get to the Gallery and tap a photo.

2. Tap at the bottom, and then follow the on-screen instructions to generate a

report for this photo.

4.3 Exporting Temperature Data

The TopInfrared app allows you to export the temperature data of a specific photo via an Excel file.

1. Get to the Gallery and tap a photo.

2. Tap at the bottom, and then tap **Confirm**.

22.8°C

38.7

Exporting data

38.7°C
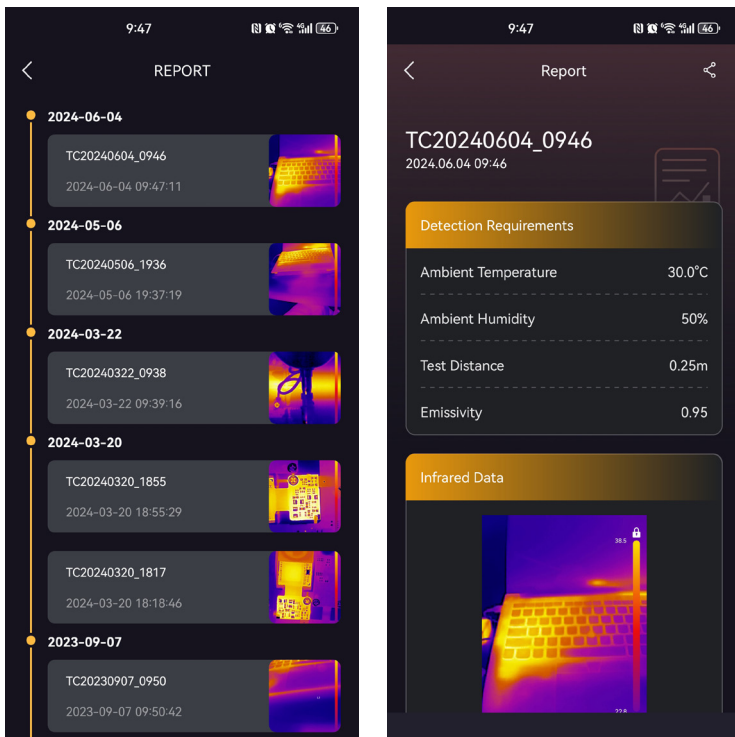
22.8

2D Edit   3D Edit   Report   Excel
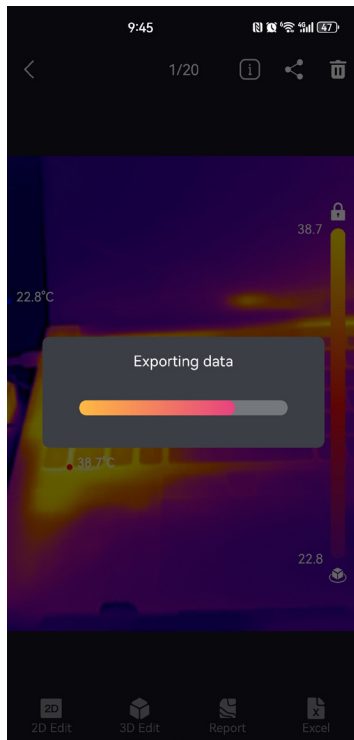
05. REPORTS

Tap at the bottom of the home screen to get to the Report screen. Here you can check all the reports that have been generated.

You can choose one report and tap it to view the details.

Note: As reports are saved on the server, please log in first before viewing them.
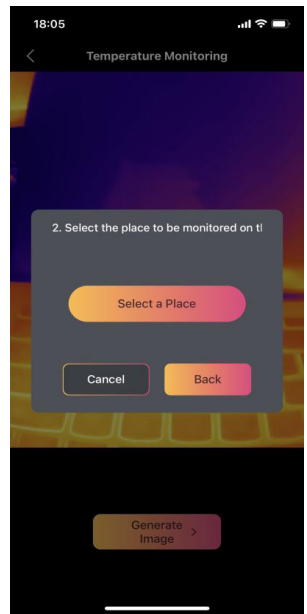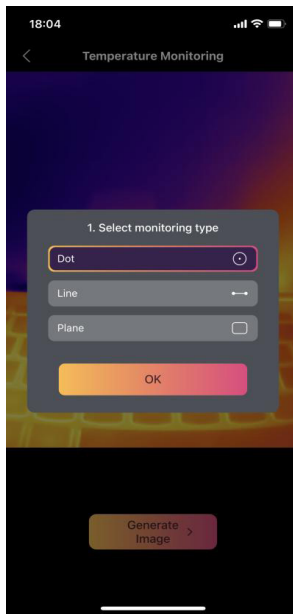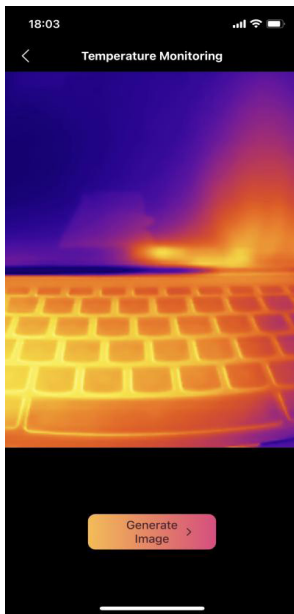
06. TEMPERATURE MONITORING

After you connect a thermal imaging camera to your phone and launch the TopInfrared app, you can monitor the real-time temperatures of the surrounding environment. The app will visualize temperature data in a diagram for you.
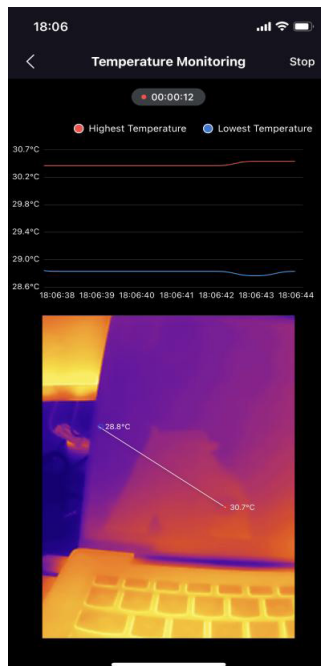
1. Tap ⏽ at the lower left corner of the home screen, tap **Real time** at the top, and then tap **Generate Image**.
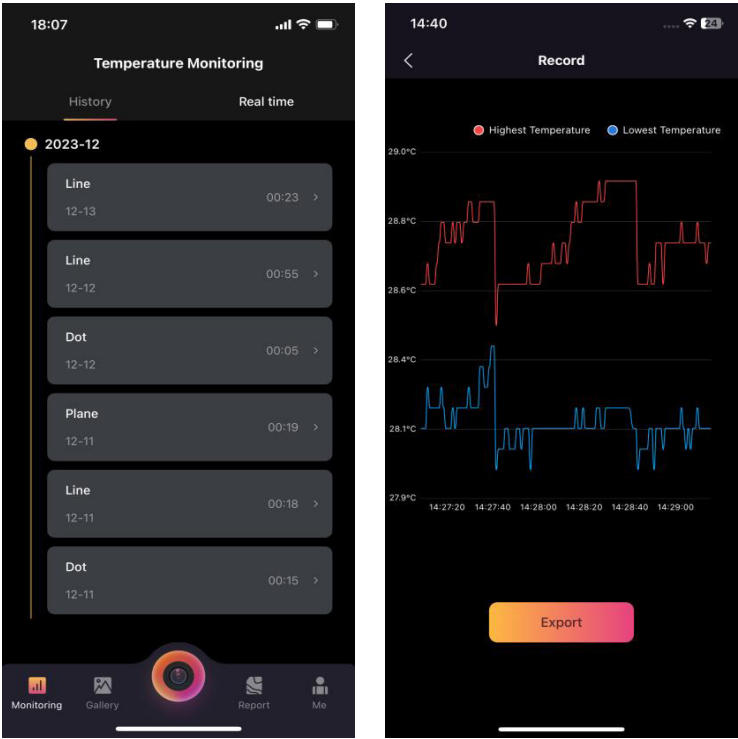

2. Tap **Generate Image**. Then select a monitoring type (Dot, Line or Plane) and draw a dot/line/plane on the screen.

3. Tap **Generate Image**, and you'll see a real-time temperature diagram.

4. Tap **Stop** at the upper right corner whenever you want to stop monitoring the temperatures.

5. After monitoring, tap **History** to check the records.

You can choose one record and tap it to view the temperature diagram. You can tap anywhere within the diagram to see the temperature data at that moment. You can also export the data if you want.

OBSERVATION (FOR TS001)

1. Tap **Observe** to switch to the [Observe] mode.

1. Tap , and you can use the features of Dynamic Recognition, High Temp. Source, and Low Temp. Source.
    For each of these features, please follow the on-screen instructions.

    Tap , and you can use the target to roughly measure the distance between the camera and the object.

You can change the style and color of the target.

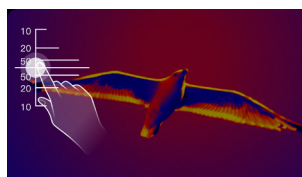You can tap **Help** on the right and then follow the on-screen instructions.
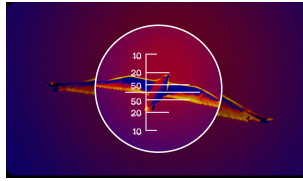
1)Tap Observation Type and choose an object to observe.
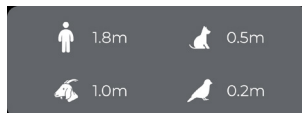
2)Tap Target and choose a target style.

 3)Move the target or the camera to align the object with the center of the target.

4)Observe the object and the number on the target.
   This number represents the distance between the camera and the object.

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