TC160 / TC320 NETWORKING GUIDE

ThermaCheck™

Contents

1. Introduction 2
2. Multi-camera network 2
3. Steps for adding each new camera to the network 2
Step 1 2
Step 2 2
Step 3 4
Step 4 5
4. Recommended network configuration parameters: 6
5. User interface functions with multi-cameras 6
6. Thank you 7

1. Introduction

The ThermaCheck software can communicate with up to four cameras through a network switch. Most routers have a switchboard of ethernet ports that can be used for this purpose. Since the default IP address of each ThermaCheck camera is the same, multiple cameras must be added sequentially to the network with each camera being reassigned a unique IP address. The steps required to do this are described in Section 3.

2. Multi-camera network

The multi-camera network, as illustrated in Figure 1, consists of:

1. One computer running the ThermaCheck Software
2. A switchboard of ethernet ports, one port for the computer and an additional port for each ThermaCheck camera.
3. One to four ThermaCheck cameras

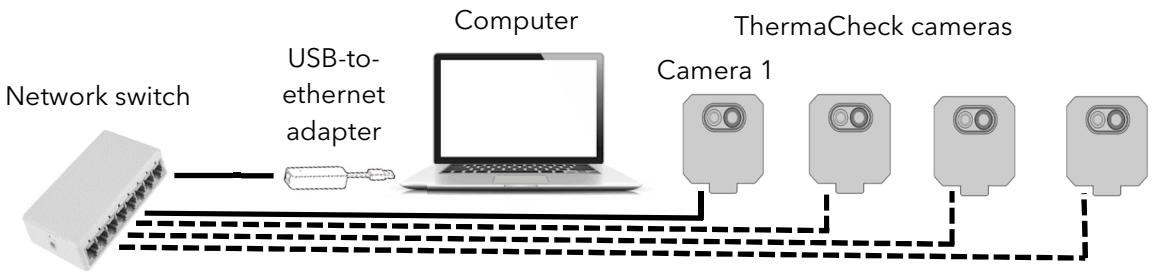

Figure 1: Multi-camera network

3. Steps for adding each new camera to the network

Multiple cameras must be added sequentially to the network with each camera being reassigned a unique IP address. The steps required to do this are as follows.

Step 1

Connect the computer and **one** ThermaCheck camera to the ethernet ports on the switch panel as shown in Figure 1. The provided USB-to-ethernet adapter may be used between the computer and the switch panel ethernet ports. Most routers provide a few ethernet switch ports. A larger number may be obtained by using a switch box.

Step 2

This step configures the IP address of the computer on the local network

1. Open the computer's "Settings" ⚙, choose "Network & Internet" and then select "Ethernet" (Figure1-a). Choose "Change adapter options" (Figure1-b) under related settings.

2. Right-click on the Ethernet (Figure1-c) and select “Properties”. *Note: If you are not using the USB-to-ethernet adapter, right-click on the Local Area Connection (instead of Ethernet) and select “Properties”.* Double left-click on "Internet Protocol Version (TCP/IPV4)" (Figure1-d).
3. In the pop-up window, select "Use the following IP address" (Figure1-e) and set the IP address to 169.254.1.99 (Figure1-f) and set the Subnet mask to: 255.255.255.0 (Figure1-g).
4. To save the computer IP address settings close out all the network pop-up windows by clicking [OK].

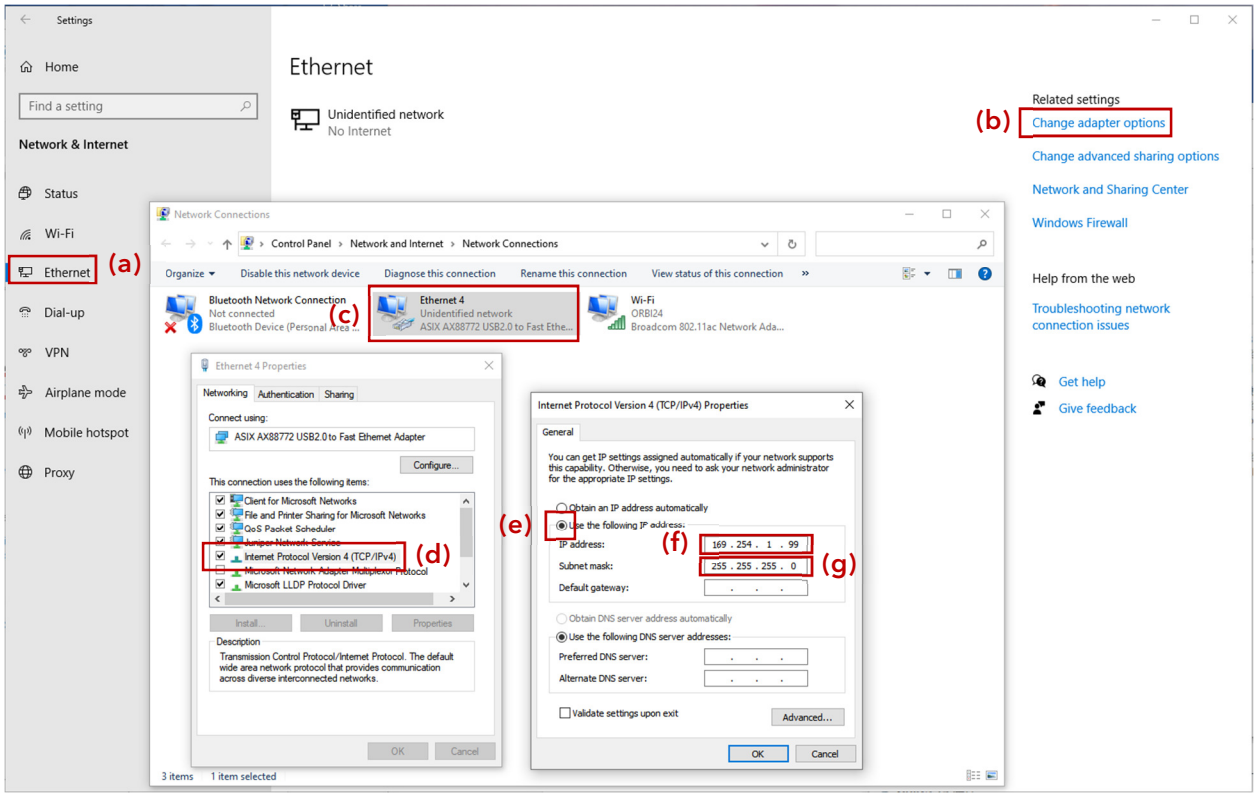

Figure 2: Network dialog box settings

5. Start the ThermaCheck program. Once the program is running, a single video stream corresponding to the first camera should automatically start.
6. Open the Device Manager in the ThermaCheck software. Confirm that the camera status is "Online" and has the default IP address of 169.254.1.19, as shown in Figure 3.

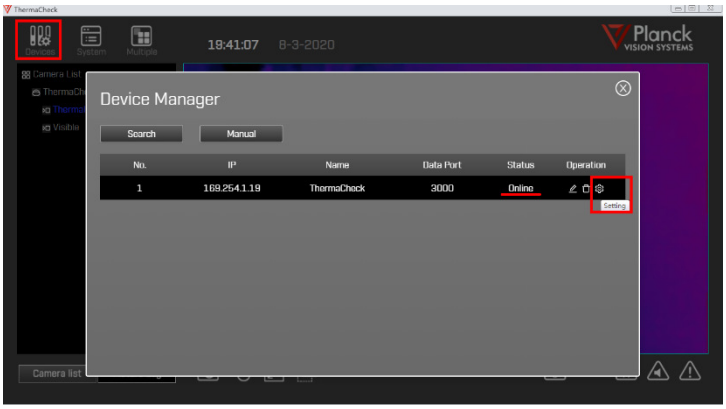

Figure 3: Device management interface

Step 3

Reconfigure the last ThermaCheck camera added to the network before connecting a new camera to the network switch. To reconfigure the last camera:

1. Open the Device Manager in the ThermaCheck software. Confirm that the status of the last camera added is "Online" and has the default IP address of 169.254.1.19.
2. Click the settings button for the device with the default IP address and select the [Network Param] page.
3. In the IP Address Box, change the last two digits of IP to match the value in Table 1. Click [Set] to change the IP address. The camera will automatically restart, beeping three times on completion.

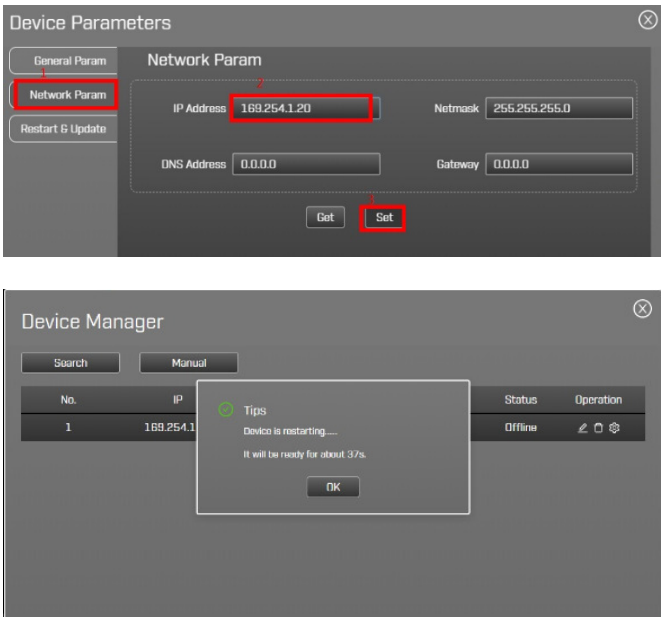

Figure 4: Device parameter setting interface

4. Click the [Manual] button in the Device Manager window. Enter a new ***device name*** and ***IP address*** and click [Add]. The camera will come online with the new IP address, while the former IP address will register as offline.
5. Connect a new ThermaCheck camera to one of the ethernet ports on the switch panel. Assuming that the new camera has the default IP address (169.254.1.19), the new camera should come online automatically.

Figure 5: Manually add device interface

Step 4

1. To add additional cameras, Repeat Step 3 for each camera. A total of four cameras can be monitored with the ThermaCheck software.

2. Note that camera names can be modified in the Device Manager interface. Select the pencil icon , to modify the text of the camera name as shown in Figure 6, and save the name by selecting the disk icon .

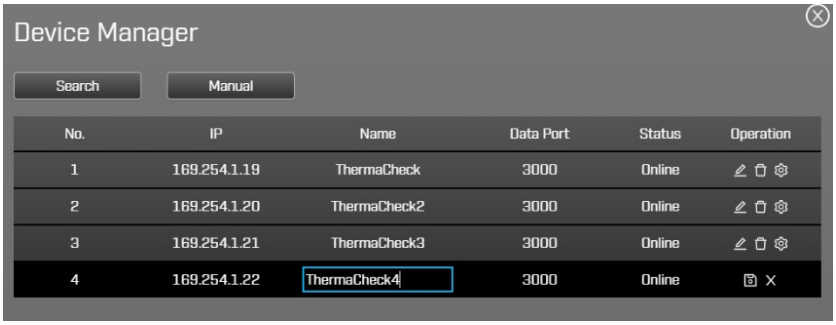

Figure 6: Device list interface

3. When finished adding cameras, close the Device Manager to return to the main user interface.

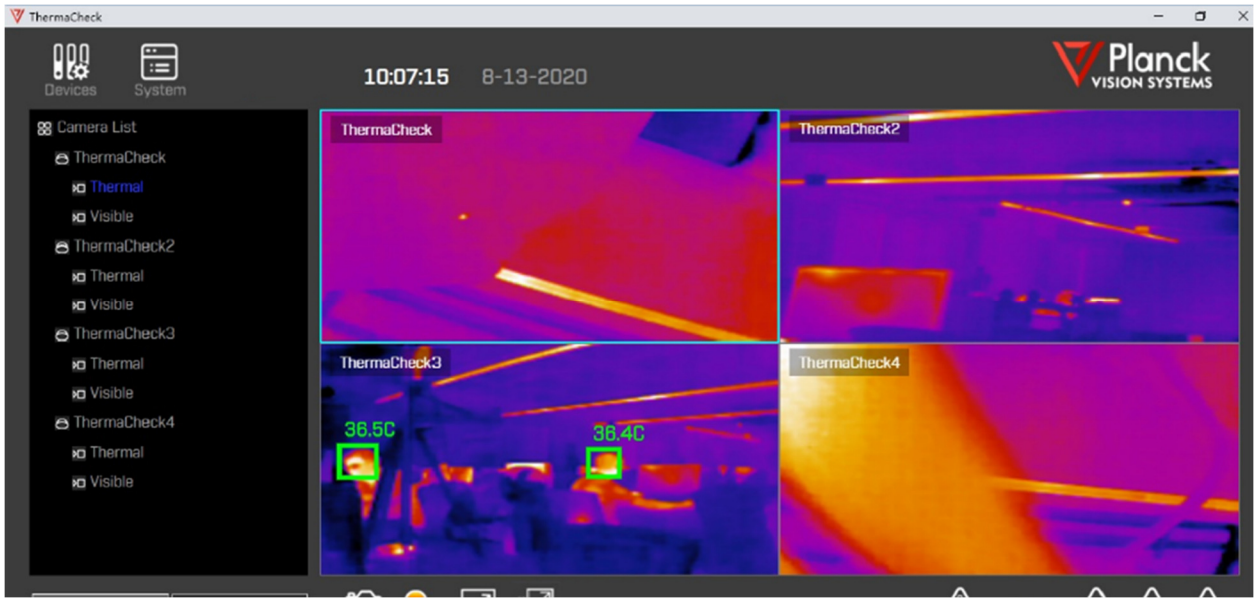

Figure 7: Main user interface after completing the multi-camera configuration

4. Recommended network configuration parameters:

The recommended network configuration is shown in Table 1.

Table 1: Recommended network configuration

number	name	IP	subnet mask
1	Computer	169.254.1.99	255.255.255.0
2	Camera 1	169.254.1.20	255.255.255.0
3	Camera 2	169.254.1.21	255.255.255.0
4	Camera 3	169.254.1.22	255.255.255.0
5	Camera 4	169.254.1.19	255.255.255.0

5. User interface functions with multi-cameras

For general software features and functionality, please refer to the TC160/TC320 User Manual (ThermaCheck and ThermaCheck Pro). Guidelines for temperature screening discussed in the TC160/TC320 User Manual are applicable to multi-camera operation.

In multi-camera mode,

1) The display contains video from each camera in the Camera List.
2) Only one "Selected Camera" is designated with a light blue bounding box around the video.
3) The Selected Camera can be changed by selecting the desired video window or camera from the Camera List using the left mouse button.

4) The following functions are only supported for the Selected Camera (designated by the light blue bounding box):
    - Capture (snap shot) button,
    - Thermal/visible video toggle button,
    - Expanded video button,
    - Child Window function,
    - Calibration function.
5) The Expanded video button causes the Selected Camera video to become full screen. If there is a device alarm in this state, the display will automatically return to the 4-screen mode.

Two important notes:

1) The Threshold Temperature setting is common to all cameras.
2) The calibration of cameras must be performed individually. In multi-camera mode, the calibration function applies only to the Selected Camera (designated by the light blue bounding box).

6. **Thank you**

Thank you for your purchase of a ThermaCheck camera. We develop our products to deliver reliable, long lasting performance, and want to make sure you are satisfied with your purchase. For more product information visit www.planckvisionsystems.com, and feel free to get in touch with us at info@planckvisionsystems.com with questions, problems, and comments.