# Thermal Scope Thunder Pro Series

# Version: V5.5.39 build 220401

# Release Notes

# (April 22, 2022)

## General Information

| | | |
|---|---|---|
| TQ35, TQ35C, TQ50 and TQ50C | Main Firmware Version | V5.5.39 build 220401 |
| | FPGA Firmware Version | 1.0.7 build 220401 |
| TH35PC | Main Firmware Version | V5.5.39 build 220401 |
| | FPGA Firmware Version | 1.0.7 build220212 |
| TE25, TE19 and TE19C | Main Firmware Version | V5.5.39 build 220401 |
| | FPGA Firmware Version | 0.0.1 build 220104 |

## Supported Product List

| |
|---|
| HM-TR16-50XG/W-TQ50 |
| HM-TR16-50XG/W-TQ50C |
| HM-TR16-50XG/CW-TQ50C |
| HM-TR16-35XG/W-TQ35 |
| HM-TR16-35XG/W-TQ35C |
| HM-TR16-35XG/CW-TQ35C |
| HM-TR13-35XG/W-TH35PC |
| HM-TR13-35XG/CW-TH35PC |
| HM-TR12-25XG/W-TE25 |
| HM-TR12-19XG/W-TE19 |
| HM-TR12-19XG/W-TE19C |
| HM-TR12-19XG/CW-TE19C |

## Key Updates: Thunder Pro V5.5.39

### ➢ Updates applicable to scope below:

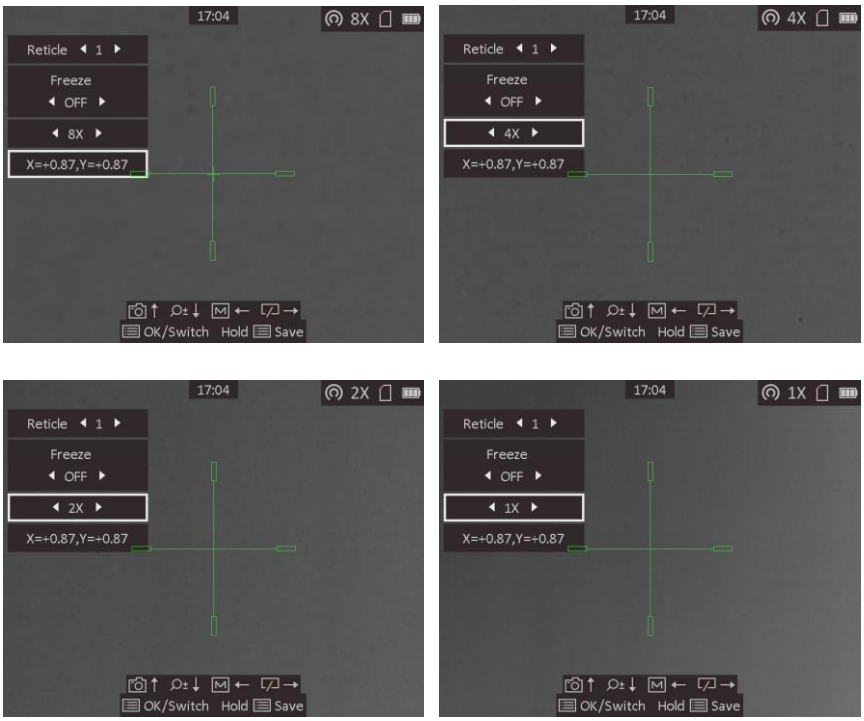
**HM-TR16-50XG/W-TQ50**

**HM-TR16-35XG/W-TQ35**

**HM-TR12-25XG/W-TE25**

**HM-TR12-19XG/W-TE19**

1) **Add the saving of high magnification calibration data. The reticle coordinate value is displayed in the form of integer + decimal. And the value under each magnification remains the same.**




2) Fix some known issues.

### ➢ Updates applicable to Clipon below:

**HM-TR16-50XG/W-TQ50C**

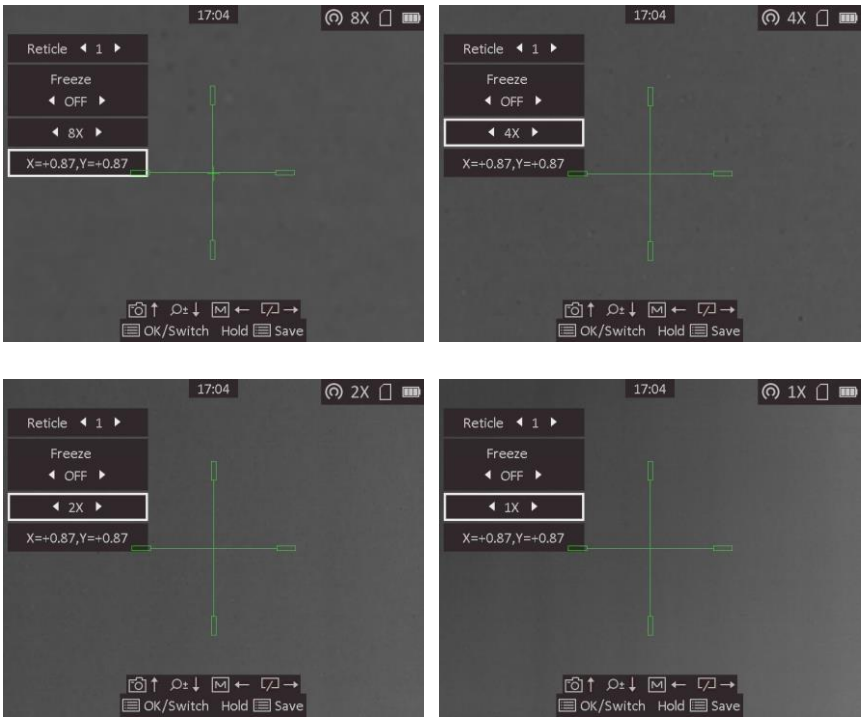
**HM-TR16-35XG/W-TQ35C**

**HM-TR13-35XG/W-TH35PC**

**HM-TR12-19XG/W-TE19C**

1) **Add the saving of high magnification calibration data. The reticle coordinate value is displayed in the form of integer + decimal. And the value under each**

**magnification remains the same.**




2) Fix some known issues.

## ➢ Updates applicable to Clipon below

**HM-TR16-50XG/CW-TQ50C**

**HM-TR16-35XG/CW-TQ35C**

**HM-TR13-35XG/CW-TH35PC**

**HM-TR12-19XG/CW-TE19C**

1) Fix some known issues.

## Comparison of TQ50C and TQ50

| | Flexible transformation | Reticle | Trajectory | PIP | Zoom | Image Calibration | Automatic switching mode between clip-on and scope |
|---|---|---|---|---|---|---|---|
| HM-TR16-50XG/W- | With clip-on eyepiece | √ | X | X | X | √ | √ |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| TQ50C | With scope eyepiece | √ | √ | √ | √ | X | √ |
| HM-TR16-50XG/CW-TQ50C | With clip-on eyepiece | X | X | X | X | √ | √ |
| | With scope eyepiece | X | X | √ | √ | X | √ |
| HM-TR16-50XG/W-TQ50 | With clip-on eyepiece | NA | NA | NA | NA | NA | NA |
| | With scope eyepiece | √ | √ | √ | √ | X | NA |

## Comparison of TQ35&TQ35C

| | Flexible transformation | Reticle | Trajectory | picture | Zoom | Image Calibration | Automatic switching mode between clip-on and scope |
|---|---|---|---|---|---|---|---|
| HM-TR16-35XG/W-TQ35C | With clip-on eyepiece | √ | X | X | X | √ | √ |
| | With scope eyepiece | √ | √ | √ | √ | X | √ |
| HM-TR16-35XG/CW-TQ35C | With clip-on eyepiece | X | X | X | X | √ | √ |
| | With scope eyepiece | X | X | √ | √ | X | √ |
| HM-TR16-35XG/W-TQ35 | With clip-on eyepiece | NA | NA | NA | NA | NA | NA |
| | With scope eyepiece | √ | √ | √ | √ | X | NA |

## Comparison of TE19C and TE19

| | Flexible transformation | Reticle | Trajectory | PIP | Zoom | Image Calibration | Automatic switching mode |
|---|---|---|---|---|---|---|---|

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | | | | | between clip-on and scope |
| HM-TR12-19XG/W-TE19C | With clip-on eyepiece | √ | X | X | X | √ | X |
| | With scope eyepiece | √ | √ | √ | √ | X | X |
| HM-TR12-19XG/CW-TE19C | With clip-on eyepiece | X | X | X | X | √ | X |
| | With scope eyepiece | X | X | √ | √ | X | X |
| HM-TR12-19XG/W-TE19 | With clip-on eyepiece | NA | NA | NA | NA | NA | NA |
| | With scope eyepiece | √ | √ | √ | √ | X | NA |

## Comparison of different TH35PC

| | Flexible transformation | Reticle | Trajectory | picture | Zoom | Image Calibration | Automatic switching mode between clip-on and scope |
|---|---|---|---|---|---|---|---|
| HM-TR13-35XG/W-TH35PC | With clip-on eyepiece | √ | X | X | X | √ | √ |
| | With scope eyepiece | √ | √ | √ | √ | X | √ |
| HM-TR13-35XG/CW-TH35PC | With clip-on eyepiece | X | X | X | X | √ | √ |
| | With scope eyepiece | X | X | √ | √ | X | √ |

## Upgrade Guide

**Upgrade Steps are shown as follow:**

1) **TE25, TE19 and TE19C:** It is recommended to disable the hotspot function then connect the device to your PC with the USB cable.

   **TH35PC, TQ35, TQ35C, TQ50 and TQ50C**: Disable hotspot function then connect the device to your PC with cable.

2) Turn on the device and open the detected disk, copy the unzipped .**dav** file and paste it to the root directory of the device.

3) Hold the power button to reboot the device, and the device upgrades automatically. The upgrading process will be displayed in the main interface. During the upgrade, make sure the device is connected to the computer or connected to DC power or powered by the full battery. Otherwise, it will cause unnecessary upgrade failure, firmware damage, etc.

4) **TQ35, TQ35C, TH35PC, TQ50 and TQ50C:** The upgrading process will experience twice upgrading process and would be continued for over 20 minutes. Meantime it will stay at the "Upgrading…" for a while in the second upgrading process, so please be patient during the upgrading.

   **TE25, TE19 and TE19C:** Repeat steps 1 to 3 to upgrade main firmware and FPGA firmware one by one (no order requirement for package upgrade). The upgrading process of FPGA firmware would be continued for over 15 minutes, so please be patient during the upgrading.

Besides, it's also recommended to use HIKMICRO Sight to upgrade the device remotely. For the specific description of this function, please refer to the related documents of HIKMICRO Sight.

## Notes

1) After upgrading, the device cannot be downgraded to the previous versions.
2) After upgrading, some defective pixels may be released due to the change of the image algorithm. This is a normal phenomenon and please use the built-in DPC function to eliminate them. For a specific guide about the DPC function, please refer to the user manual.

## Remarks:

- Please use this document with the guidance and assistance of professionals trained in supporting the Product.
- Pictures, charts, images, and all other information hereinafter are for description and explanation only.
- HIKMICRO reserves the right to change, alter or withdraw the above notification without prior notice.
- Product design and specifications are subject to change without prior notice.
- The HIKMICRO firmware may contain errors known as errata, which may cause the product to deviate from published specifications. Currently characterized errata are available on request.
- HIKMICRO is not liable for any typing or printing errors.

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