



iX Capture
Mobile Software
Application
User Guide

PHASE**ONE**
IMAGING BEYOND IMAGINATION

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Legal Notice

The company disclaims all liability and warranties in relation to this manual, including warranty of merchantability, fitness for particular purpose and accuracy, and may amend it without further notice.

Contact Support

You can contact Phase One Technical Support directly by creating a support case at <http://industrial.phaseone.com/support.aspx>.

Introduction

The iX Capture Mobile is an assisting application uniquely designed for Apple operating systems (iOS). It provides complete and easy control of the iXM-RS, iXM, iXU-RS 1000, iXU 1000, iXU 150 cameras using the DJI's remote controller with its intuitive and user friendly interface.

Connecting the iPad to the Slave Remote Controller

Always use the latest Firmware version of DJI Drone when working with Phase One cameras.

Step 1: Turn on the slave remote controller.

Step 2: Pair the remote controller and the drone (as detailed in DJI installation guide).

Step 3: Turn on the M600 / M600 Pro drone.

Step 4: Attach the iPad to the remote controller iPad holder.

Step 5: Connect the iPad to the remote controller using the Lightning to USB cable.

Step 6: For first time connections - run **DJI Go** on the iPad and verify that you have internet access. You must have internet access in order to register the camera with DJI Drone.

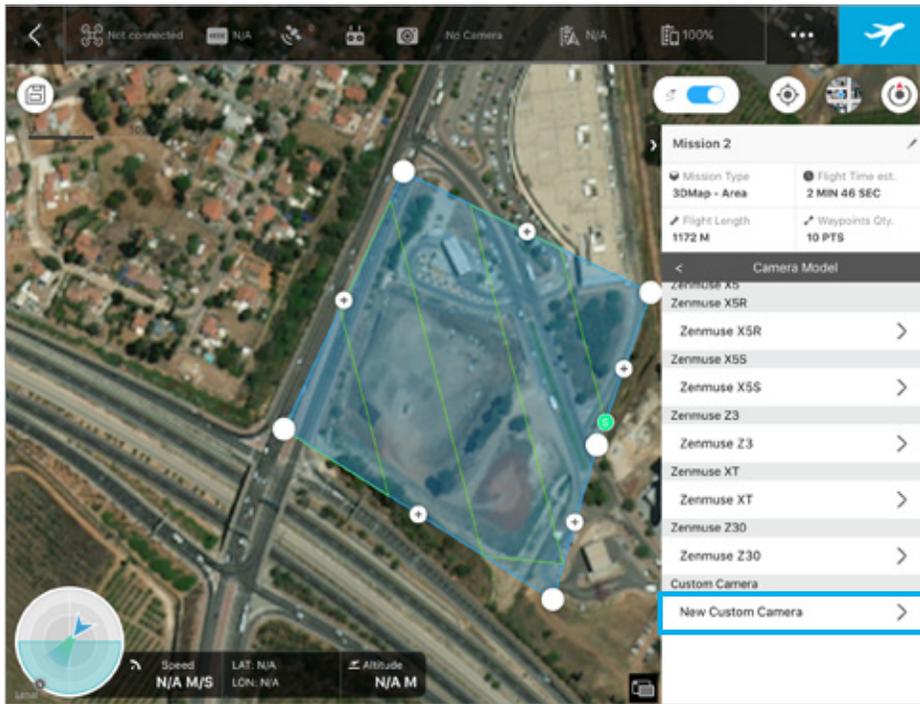
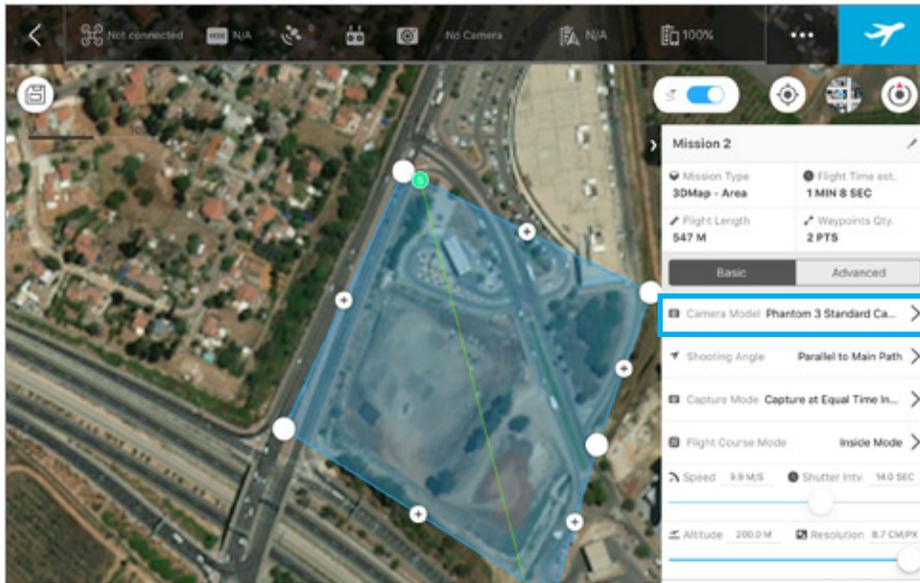
Step 7: Connect the camera to the drone and turn on the camera.
Step 8: Run iX Capture Mobile application.

Note: In case the connection to the drone is not indicated on the status bar ('Not Connected' displays) - reconnect the Lightning to USB cable to iPad and tap the "Refresh" button

Preparing the Camera

Make sure to insert a Compact Flash (CF) card into the CF slot in the iXU camera or XQD card into the XQD slot in the iXM cameras.

Note that all changes in the camera's setting take effect only when the storage card is in place Changes will also take effect only after re-starting the camera,



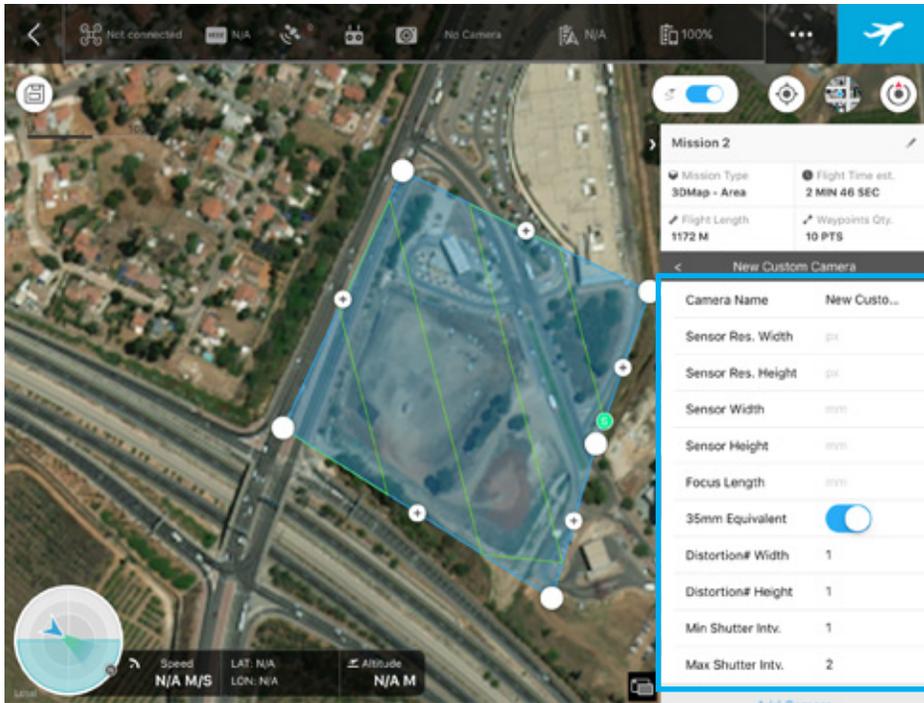
DJI GS Pro

Creating a flight mission

Creating a flight mission in DJI GS Pro using a Phase One camera, requires additional settings when Creating a flight mission in a 3DMap Area mode for the first time:

1. Press the **Camera Model** option.
2. Scroll down and select **New Custom Camera**.
3. Set all required parameters (sensor sizes in pixels and mm, focus length) according to the technical specification that can be found at industrial.phaseone.com, uncheck 35 mm equivalent checkbox, and use default values for all other parameters.

Refer to the DJI User Manual for full information regarding how to create a flight mission in DJI GS Pro.

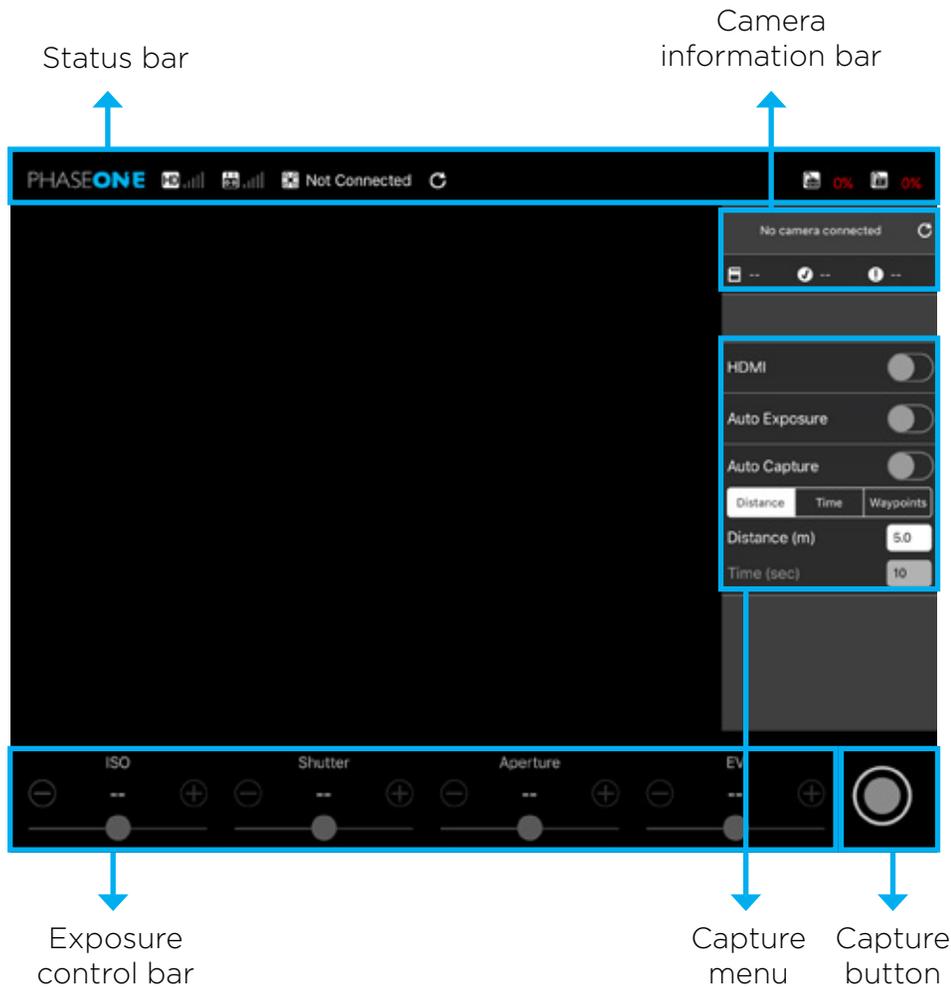


Note: The Camera Capture mode is configured in the iX Capture **Mobile** application — **not** in DJI GS Pro, therefore, the camera ignores capture mode in the 3DMap Area..

When you use WayPoint Route, you do not have to configure WayPoint actions. The camera captures images regardless.

TIP: The number of Waypoints that can be set in DJI GS Pro is limited to 99 points. If additional captures are required, use time or distance planning instead of Waypoint planning.

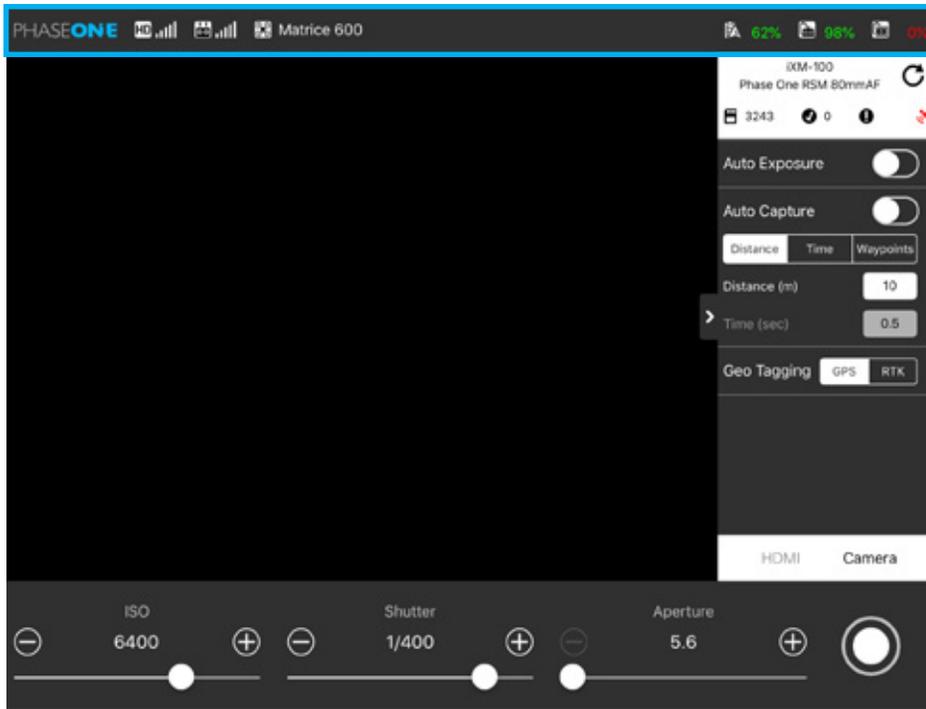
In addition, you can configure DJI GS Pro for Waypoints planning and simultaneously configure iX Capture Mobile to capture by distance (in between Waypoints events).



iX Capture Mobile Main Screen

The Main screen contains the following control panels:

- **Status bar:** Displays the connection/signal status of:
 - Video signal strength
 - Remote controller signal
 - Battery level
 - Gimbal
- **Camera information bar:** Displays the following:
 - Camera Model
 - Type of the lens
 - Available space on CF card
 - Number of failed captures
 - GPS signal
- **Hide button:** Hides / Displays the right panel.
- **Menu toggle:** Switches between Camera menu and HDMI menu.
 - **Camera menu:** Sets exposure, capture and geo tagging modes.
 - **HDMI menu:** Sets the HDMI and Focus modes.
- **Exposure control bar:** Sets ISO, shutter and aperture values.
- **Capture button:** Captures images in Video Streaming mode and in Stills mode.



Status Bar

The Status bar contains the following icons:



Indicates the Gimbal battery



Indicates Remote Controller battery



Indicates the Drone battery



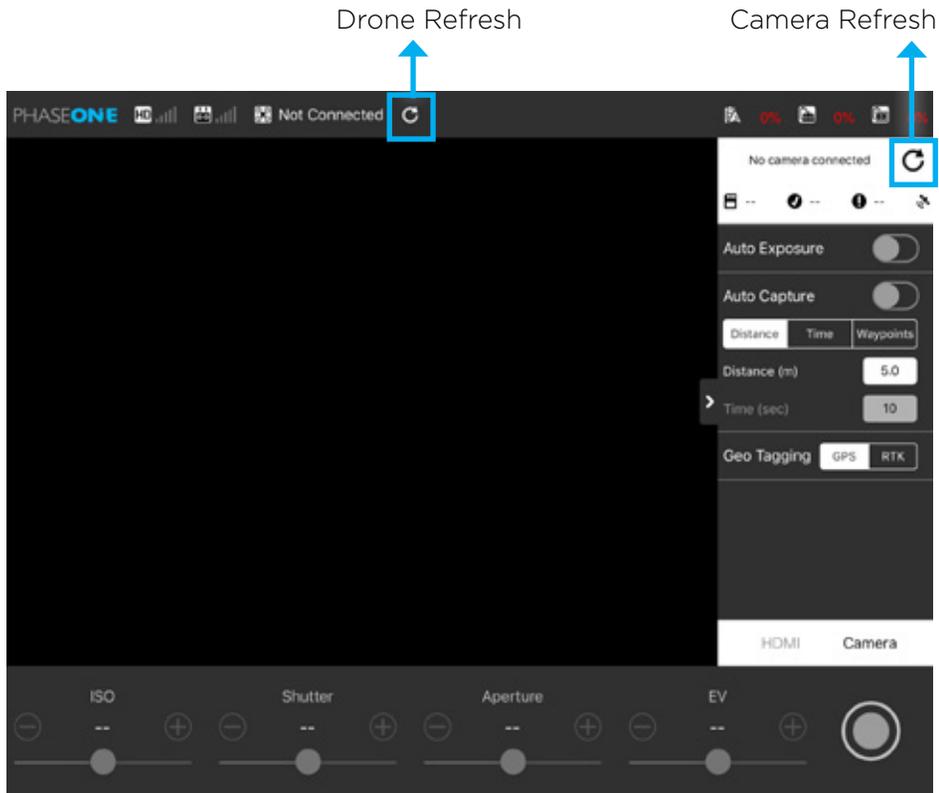
Indicates Drone connection status



Indicates the Remote Controller signal level



Indicates the Video Streaming signal strength

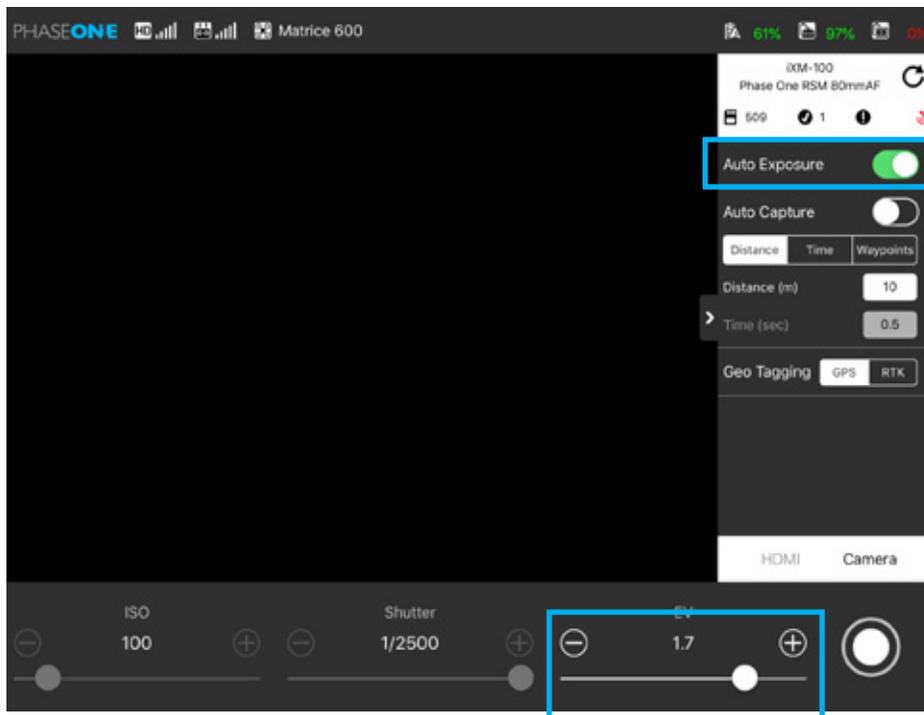


Refresh Buttons

The iX Capture Mobile has the following two refresh buttons:

- 1 **Drone Refresh** - Shows only when there is no connection with the drone. A progress wheel displays when the app tries to connect. If the connection fails, do the following:
 - Check the connection between the remote controller and the drone.
 - Disconnect and reconnects the Lightning to USB cable.
 - Press the **Drone Refresh** button.
- 2 **Camera Refresh** - Always available. Use when:
 - There is no connection with the camera.
 - One of the buttons in the iX Capture Mobile application is indicating a problem.

Note: Press any button to refresh it.



Capture menu

The Capture Menu contains the following modes:

- Video (HDMI) Streaming
- Auto Exposure
- Auto Capture

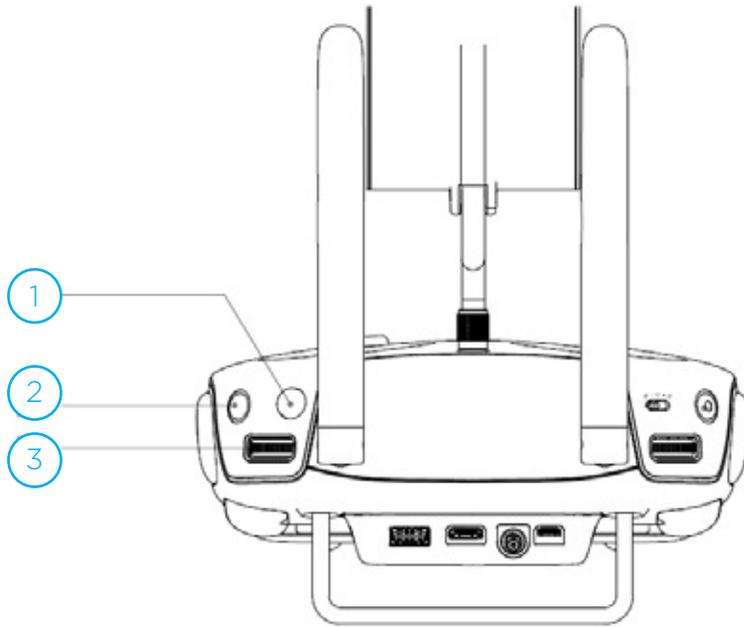
Auto Exposure

To activate Auto Exposure, slide the Auto Exposure switch to the right. Auto Exposure turns green (ON).

The Exposure Value sets the brightness of the image or video streaming. Change the exposure values by moving the slider from left (darker) to right (brighter).

In Auto Exposure, the ISO and Shutter sliders are **disabled** and **EV Slider** replaces the Aperture Slider.

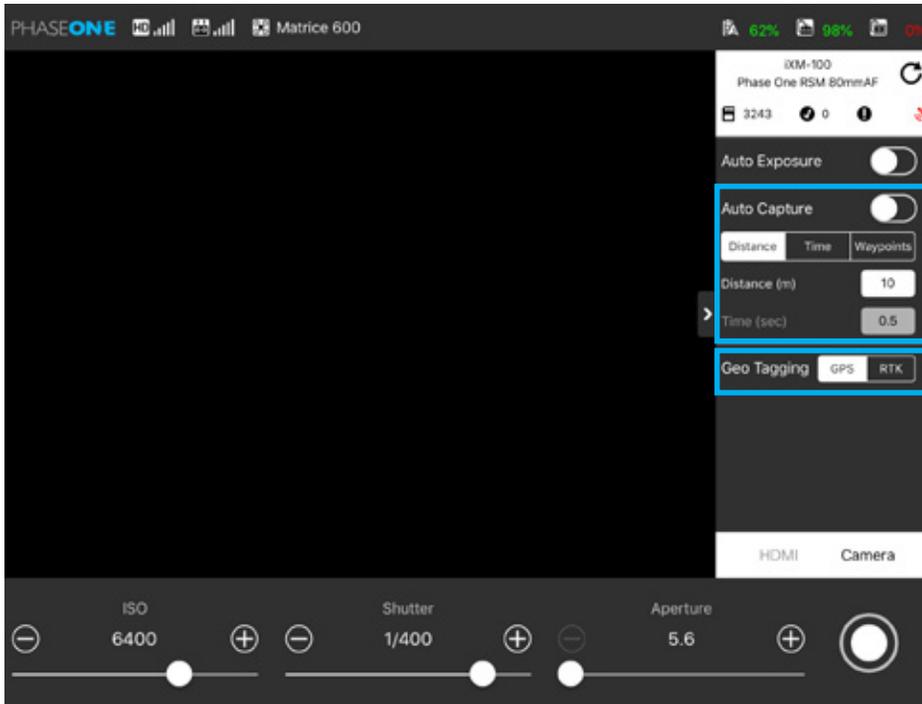
Note: Auto Exposure values that are set during Video Streaming Mode affect regular Captures.



DJI Remote Controller Control Buttons

The remote controller of the M600 / M600 Pro contains three (3) buttons to manage the HDMI: the Capture button, the Play button and the Auto Exposure dial/button.

- ① **Capture button:** Triggers capture in Video Streaming & Stills mode.
- ② **Play button:** Turns Video Streaming on/off.
- ③ **Focus dial:** Switches focus **steps** when pressed. Changes focus **distance** values when scrolled.



Auto Capture & Geo Tagging

To activate the Auto Capture mode, slide the Auto Capture switch to the right. The Auto Capture turns green (ON).

The Auto Capture mode has the following three options:

Distance Mode

- The camera is set to capture an image at pre-defined distance interval (in meters).
- Set interval values using the Distance field (meters).

Time Mode

- The camera is set to capture an image at a pre-defined time intervals (seconds).
- Control the time values using the Time field (sec).

WayPoints Mode

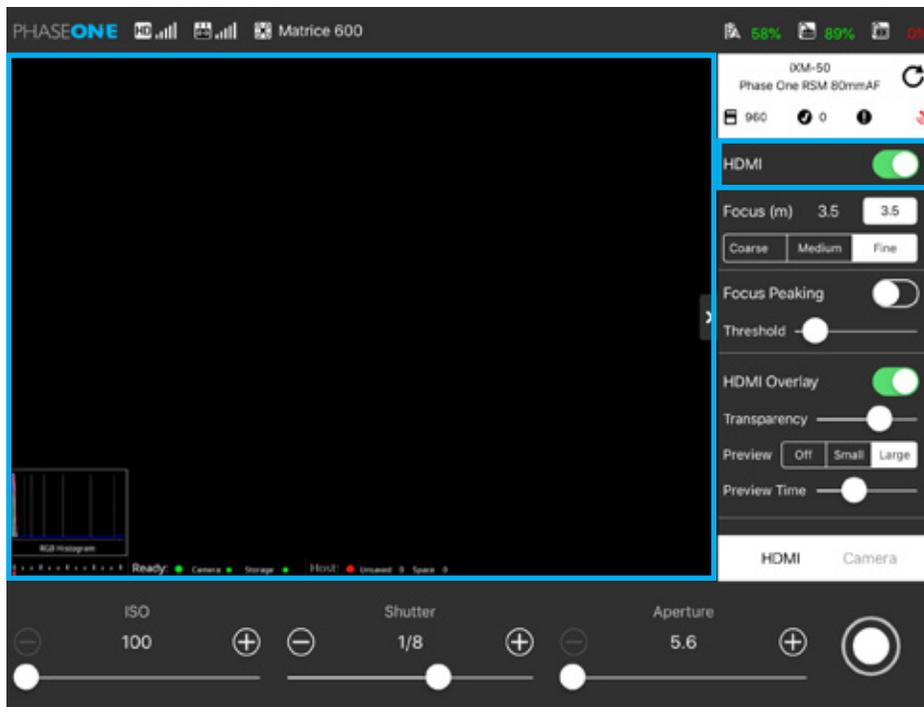
The camera is set to capture an image every waypoint that was pre-defined/marked in the flight plan

Note: The DJI Go application enables the flight mission control.

- You can change Auto Capture parameters only when Auto Capture mode is switched OFF.

Geo Tagging

Select GPS or RTK geotagging processes.



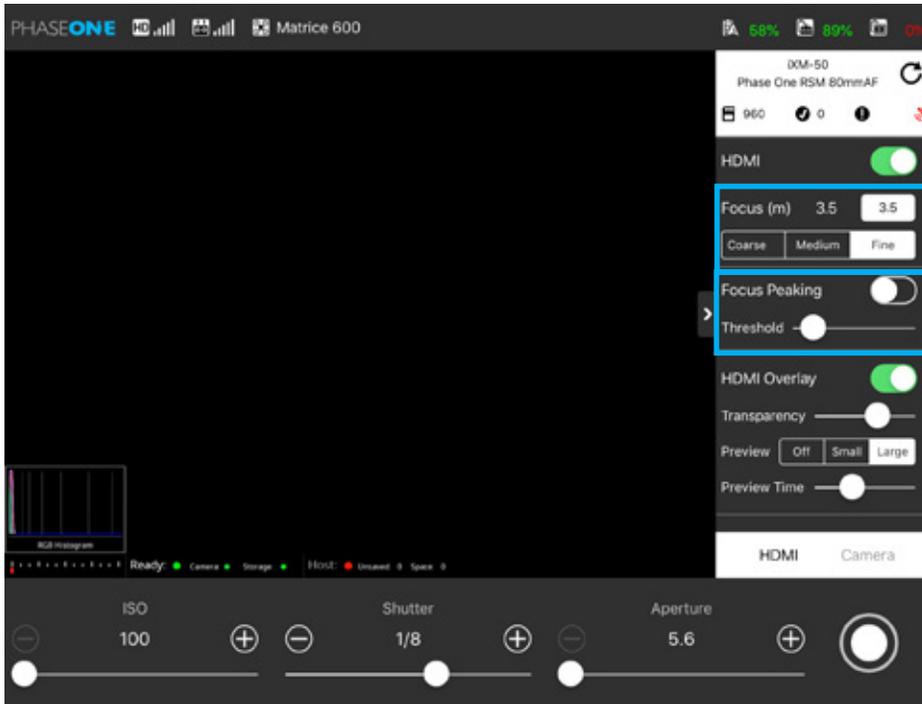
HDMI menu

Video (HDMI) Streaming

To activate the Video Streaming mode, slide the HDMI switch to the right. The Video Streaming turns green (ON).

Note: Not all HDMI modes are supported by DJI drone, you must therefore select either 1080p30 or 720p60 on Phase One iXU cameras.

- The iXU Camera default for Video Streaming resolution is 720p60.
- This is the recommended setting for low signal communications, when the distance between the ground station and the drone is increasing.
- The iXM Camera default for Video Streaming resolution is 1080p60.
- When capturing during video streaming, the monitor displays the last streaming view while it processes the capture, then resumes the video streaming.
- To apply zoom to a specific region of the video stream, double tap at the specific area of the video stream window. Swipe on the video stream window to move the zoomed area.
- To dismiss video stream zoom, double tap on the video stream window.



Focus

There are 2 ways to adjust the focus of AF lenses:

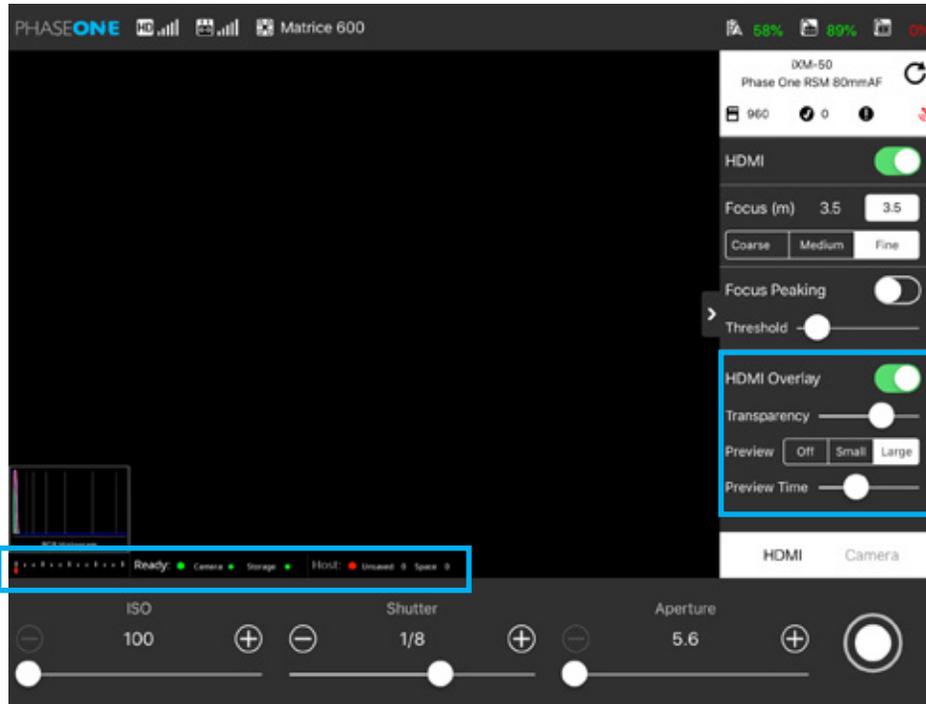
- Insert the target's distance (in meters)
- Scroll the focus dial on the remote controller.
- You can set the focus dial steps to coarse, medium or fine (from high to low).

Note: Only Auto Focus lenses are supported.

Focus Peaking

To activate Focus Peaking, slide the Focus Peaking switch to the right. The Focus Peaking turns green (ON).

- The Focus Peaking tool highlights high contrast areas with green, to indicate areas in focus.
- Slide the Threshold slider left/right to adjust sensitivity.



HDMI Overlay

To activate HDMI Overlay, slide the HDMI Overlay switch to the right. The HDMI Overlay turns green (ON).

The HDMI Overlay adds the following descriptions:

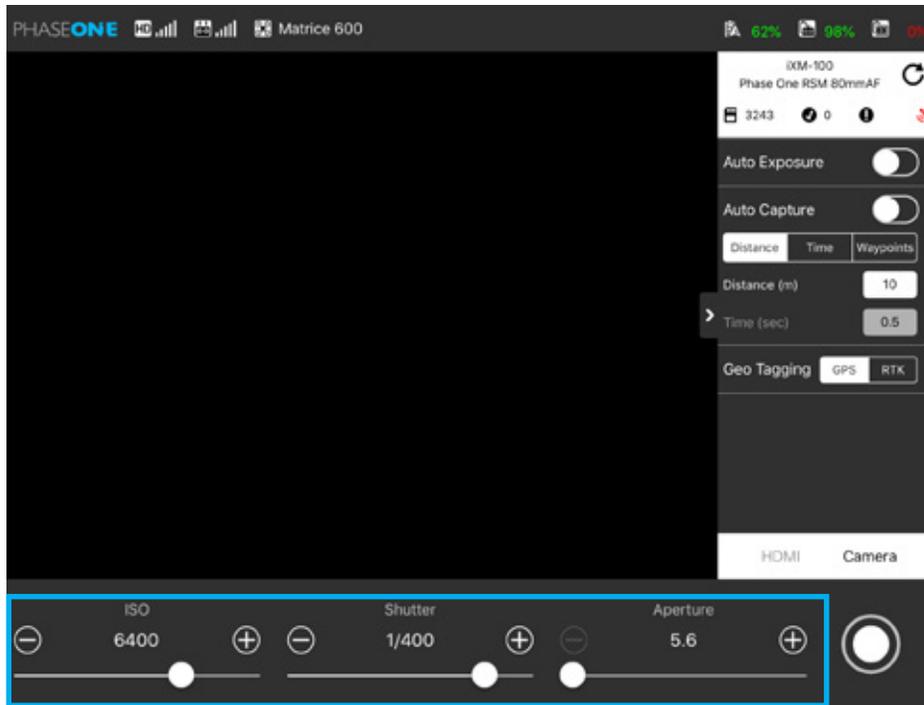
- RGB Histogram
- Exposure evolution
- System ready: camera and storage
- Host storage: connected through USB or 10G

To adjust the HDMI overlay transparency, use the transparency slider.

Previews

You can display and dismiss Image previews automatically after captures.

- To activate Previews, select the desired preview size (Small or Large).
- Use the Preview Time Slider to adjust the preview display time.
- The preview display time can be set from 2 seconds until the next image capture; the image is then cleared.



Manual Exposure Control Bar

The manual exposure control bar contains the following sliders:

- ISO Slider: Sets ISO values
- Shutter Slider: Sets exposure time
- Aperture Slider: Sets Aperture value

Note: The values of ISO, Shutter and Aperture are controlled by the **Plus (+)** and **Minus (-)** buttons or by moving the slider.

Cases and Response

Prerequisite for Communication

To enable communication between the camera and the drone, first supply power to the drone and only then to the camera.

NOTE: DJI recommend to activate the master remote controller unit before turning the drone on in order to make sure control of drone is established at all time.

“Failed to Connect to Drone” Notification

When there is no connection or communication between the remote controller and the drone, the “Failed to Connect to Drone” notification appears. Please perform the following steps:

1. Check if the remote controller is connected to the drone.
2. Reconnect the Lightning to USB cable to the iPad.
3. Tap “Drone refresh” button on the status bar.

DJI communication timeout on DJI Link Mode

When in DJI link mode, if the camera is not connected to the drone, a “DJI communication timeout” notification appears on the camera’s back. Once it appears, connect the camera to the drone and perform a power cycle to the camera.

Note: DJI link mode is meant for use while connected to a DJI drone. In order to use the camera as a stand-alone and disconnected from the drone, Serial Link must be turned off.

Firmware

Make sure you use the latest Firmware version of DJI drone when working with a Phase One camera.

Capture Rate Recommendation

When the Video Streaming is turned on, the camera’s highest capture rate is not guaranteed. In order to reach the fastest capture rate, it is recommended to exit the Video Streaming mode.

Contact Us

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