Camera Features

2” HD Display
4K 30fps Recording
H.265 and H.264 Video Capable
Lens Distortion Correction
Electronic Image Stabilization
Wide, Medium, & Narrow Lens Settings
Built in Microphone
Wi-Fi connectivity
1. Wide Angle Lens

2. Microphone

3. Micro USB Port

4. Micro SD Card Slot

5. Battery Port

6. Power/Mode Button

7. Down Button “▼”

8. Up Button “▲”

9. Select/”OK” Button

10. Indicator Light

11. HD Display

12. Speaker
Indicator Lights

1. **Power Indicator** - Blue LED light will be on while camera is on, and blink while camera is recording. This LED will also blink for 1-2 seconds while turning On/Off AV Out mode.

2. **Charge Indicator** - Red LED light will be on while the camera is charging, then turn off once the camera is fully charged (while plugged into charger).

3. **WiFi Indicator** - Blue LED light will flash when the camera WiFi is turned on, and remain off when WiFi is not on. Camera WiFi should **ALWAYS** be OFF when camera is connected to the Drone.
INSTRUCTIONS

Memory Card
Inserting and removing the memory card:

1. Please use micro SD cards with a speed rating of UHS Speed Class. Lower performance cards may limit the use of some features.

2. Please ensure that the memory card is inserted as shown. Insert and press the card into this slot until it is fully seated.

3. To remove the memory card, press gently. When the card pops up, carefully pull the card until it is free of camera body.

4. The display screen will show “no card” if a card is not present or it is incompatible with this camera.
WARNING:

1. Please ensure that the memory card is inserted with the correct orientation (gold pins facing towards lens). Failure to do so may result in damage to the camera or card.

2. Once the card is inserted, the camera will detect and initialize for immediate use.

3. Be sure to backup all files stored on the card.
Button Functions

POWER/MODE BUTTON - Power on, power off, and switch camera modes.

OK BUTTON - Select, confirm, start/stop recording, and photo shutter.

UP BUTTON ▲ - Open menu screen, scroll up, long-press to start/stop Wi-Fi.

DOWN BUTTON ▼ - Scroll down, long-press to enter/exit AV Out mode.

Charging the Battery

This camera uses a Lithium-Ion Battery pack, please fully charge before first use.

Use include Micro-USB to USB cable to connect to USB power source to charge.

Red LED indicator light on display will turn on while battery is charging, and will turn off once battery is fully charged.
Operating Instructions

- Turn the camera on/off by pressing and holding the “Power/Mode” button for a few seconds.

- After turning on, the system will default to video camera mode - press the "OK" button to start/stop recording, or to take a picture in Photo Mode.

- While the camera is on, press the "Power/Mode" button once to bring up the MODE selection menu. Press the "▲" or “▼” buttons to highlight the MODE you need, then press the OK button to confirm and return to the preview interface.

- Press "▲" to bring up the Settings Menu for that MODE & the Camera. Press the “▼” or "▲” button to choose the desired setting, then press the OK button to enter/confirm that setting. Press the "MODE" button to exit the Menu screen.

- Turn ON/OFF AV Out mode by pressing and holding the ”▼” button for a few seconds. The screen will power off but the Blue indicator light on top of the camera will remain on (you are in the AV Out mode). Press again and hold to exit AV Out mode.

- Turn on/off the Camera Wi-Fi by pressing and holding the ”▲” button for a few seconds. Leave the Wi-Fi off during drone flights, instead connect to the USB cable on the Halo Drone’s Gimbal.
Camera Settings and Modes

The Halo Cam’s settings may change with different update versions.

Press the MODE button on the front of the camera and use the UP and DOWN arrows to navigate the menu. Press OK to select a mode.

Modes

**Video** - Used to capture video and audio, including slow motion.

**VideoLapse** - Used to capture timelapse video.

**SlowRec** - Used solely for slow motion video recording.

**Photo** - Used to capture photos.
Modes (continued)

**PhotoLapse** - Used for timelapse photography.

**BurstMode** - Used for burst photo capture.

**CarMode** - Used for dashcam video-loop recordings.

**TimerPhoto** - Used for time delayed photography.

**PlayBack** - Used when you want to view your Photos and Videos.
### Mode Settings

Not all of these settings will be available on every Mode.

While on the main active camera screen, press the UP “▲” button once to open up the menu screen. From here you have access to the current mode settings “ères” (changes depending on current mode) and the camera settings “饥” menu. Highlight your choice and press the OK button to enter the sub-menu. From here use the UP “▲” and Down “▼” buttons to select a specific setting.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution</td>
<td>Choose your photo or video resolution and frames per second.</td>
</tr>
<tr>
<td>Timelapse</td>
<td>Choose how many seconds pass per recorded frame.</td>
</tr>
<tr>
<td>Video Segmentation</td>
<td>Safety/convenience option to split videos into more manageable 3, 5, 10, or 15 minute chunks. Should a recording become corrupted, only that segment is lost, not the full recording.</td>
</tr>
</tbody>
</table>
Mode Settings (continued)

**Burst Number** - Choose number of photos to capture in quick succession.

**FOV** - Field Of View - Choose from Wide, Medium, or Narrow field of view.

**Record Mute** - Mute the audio during video capture.

**Encode Mode** - H.264 or H.265 video encoding options. If your computer does not have a 7th or 8th generation Intel processor, or a new dedicated GPU, it may not be able to play back H.265 video. If in doubt, stick with H.264.

**Image Stabalization** - Turn on to active 6-axis Electronic image Stabalization for smoother video recording.

**Meter Mode** - Choose how the camera determines exposure. Center exposes to what is exactly in the center of view. Average exposes to the overall scene. Spot exposes to generally what is in the center area of the scene.

**White Balance** - Color adjustment to make the image look more natural.
Mode Settings (continued)

**ISO** - Changes the sensitivity of the camera sensor to light. Higher means brighter.

**Exposure** - Exposure Value (EV) Compensation - tells sensor to over expose or under expose. Adjusts from -2 to 2 by .5 stops.

**HDR** - High Dynamic Range option for photos.

**Looping Time** - Used for dashcam video-loop recordings. How long should a recording go before the old footage is erased to make room for new footage?

**Boot Recording** - Turning this feature on will have the camera start recording as soon as it powers on.

**Self-Timer** - Set a timer before a photo is taken.
Camera Settings

**Screen Auto-Off** - Set timer for auto screen sleep while camera is on.

**Start Action** - Choose if you want a camera mode to start up and start recording as soon as you power on the camera.

**Wi-Fi** - Find out or change Wi-Fi SSID and Password.

**Factory Reset** - Reset all camera settings to default.

**SD Format** - Format the Micro SD memory card.

**Language** - Select the language.

**Time Set** - Set the Time and Date of the camera.

**Data Stamp** - Turn on/off the date/time stamp on photos and videos.

**LDC** - Lens Distortion Correction - removes the fish-eye.

**Inversion Mode** - Invert the display upside-down.
Camera Settings (continued)

**Frequency** - Helps with flickering under certain lighting - NTSC (60Hz) vs PAL (50Hz).

**Scene** - Choose specific scene settings.

**TV Out** - Turn On/Off AV (Audio/Video) Out.

**USB Multiplex** - GPIO mode is for the camera to communicate with the Halo Drone when the USB cable is connected, and USB mode is for the camera to communicate with a computer when you want to transfer files directly from the camera.

**Saturation Level** - Set color saturation level (Low, Normal, High).

**Information** - Camera version information.
## Camera Specifications

<table>
<thead>
<tr>
<th>Video Resolution</th>
<th>Camera Resolution</th>
<th>Memory</th>
</tr>
</thead>
<tbody>
<tr>
<td>4K 30fps</td>
<td>12M - 4000x3000</td>
<td>UHS 1 MicroSD</td>
</tr>
<tr>
<td>2.7k 30 fps</td>
<td>8M - 3264x2448</td>
<td>(up to 64gb)</td>
</tr>
<tr>
<td>1440p (4:3) 60fps</td>
<td>5M - 2592x1944</td>
<td></td>
</tr>
<tr>
<td>1080p 120fps</td>
<td></td>
<td></td>
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<tr>
<td>720p 240fps</td>
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<thead>
<tr>
<th>Display Screen</th>
<th>2 inch</th>
<th>Memory</th>
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<tr>
<th>Image Sensor</th>
<th>Sony IMX 377</th>
<th>Stabilization</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>6 DoF EIS</td>
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<tr>
<th>Power Supply Voltage</th>
<th>Working Temp</th>
<th>Video Compression</th>
</tr>
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<tbody>
<tr>
<td>4.2V Li-Ion battery / USB 5V</td>
<td>14°F to 122°F</td>
<td>H.265 and H.264</td>
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<thead>
<tr>
<th>Video Format</th>
<th>Video Compression</th>
<th>WiFi</th>
<th>Weight</th>
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<tbody>
<tr>
<td>MP4</td>
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<tr>
<td>1050 mAh</td>
<td>Supported</td>
<td>75g including battery</td>
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<th>Size</th>
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QUESTIONS?
support@haloboard.com