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Overview

Until now, an immersive First Person View (FPV) experience through goggles was out of reach for some users. The cost is no longer a barrier between you and the sky above. A real immersive experience for piloting in the first person view is made by Auriga Bebop application.

Auriga Bebop application allows an addictive and enjoyable flying experience with the Parrot Bebop drones 1 and 2. This application allows you to place yourself in the "pilot’s seat" of your Bebop by monitoring a video feed during the flight. Thus, as you watch the view from the camera you can also see your batteries status, altitude, speed, compass, antenna pointer and a variety of other telemetry readouts.

Using Auriga Bebop you can move the camera of Bebop drone by your head movements (Head Tracking features) for an even more immersive feeling. Auriga Bebop can be connected to the Bebop drone by Skycontroller 1 and 2 or Bluetooth controller on single or FPV headset modes. Skycontroller can also work in combination with a Bluetooth Joypad or a Mini Gamepad for additional features as such acrobatic flight (flips).

With the Skycontroller 2 or Bluetooth controllers, you can switch the view mode: Pilot (smartphone camera) or Drone (Bebop camera). In the pilot view you can watch the drone through your rear view camera of your smartphone with the telemetry data overlay as an augmented reality; this mode is particularly useful in the take-off and landing operations.
Compatibility

Auriga Bebop software application is compatible with the following devices:

- Parrot Bebop1;
- Parrot Bebop2;
- Parrot Bebop Power;
- Parrot Disco;
- Parrot Skycontroller 1;
- Parrot Skycontroller 2;
- Parrot Skycontroller 2P
- Parrot Skycontroller Black edition;
- Parrot Flypad;
- Joypad bluetooth;
- Game pad bluetooth;
- Parrot Cockpitglasses 1;
- Parrot Cockpitglasses 2;
- Samsung Gear VR.
- Genereric VR Goggles.
Main features

- Two FPV Headset Views for VR goggles and Parrot Cockpitglasses.
- Single view flight interface.
- Avionic Style interfaces.
- 3D HUD displays to overlay the flight data.
- On Screen Display to display the status and warnings.
- Augmented Reality View.
- Camera Head Tracking features (FPV headset mode only).
- Flight parameters and flight profiles settings.
- Drone and VR glasses calibrations features.
- Configurable Flypad and Joypad buttons.
- Return to home features.
- Antenna pointer indicator.
- Compass slide bar.
- Altitude Above Sea Level indicator.
- Home Marker.
- Flight Data.
- White balance and exposure adjusting.
- Altitude limit OFF.
- WiFi settings.
- Video/Photo settings.
- Time lapse mode.
- Battery alarm threshold settings.
- Low battery warning RTH setting.
- Hand Launch features (not available for Bebop1)
- Multi language support.
- ILS Instrument Landing System (for Parrot Disco only).

Android Requirements
Android version 4.4.2 and higher.
NO-ROOT

Application Permissions
For the proper working of all features of the application, verify on your smartphone that Auriga Bebop application has the permission to access the following:
Camera; Location GPS; WiFi and Bluetooth; Storage.
Preliminary operations
The preliminary operations for the proper use of the Auriga Bebop application are described in the section below:

Run Auriga Bebop
To run Auriga Bebop application tap on this icon on your smartphone:

On the first page verify that all sensors of your smartphone are available.

If the sensors are not all available Head Tracker mode could not work properly.
Connections

Skycontroller 1 - WIFI connections

Connect the Skycontroller 1 to your Bebop. Once done connect the WIFI network of your smartphone to the Skycontroller 1.

Run Auriga Bebop and verify on the first page that Skycontroller 1 is present on the device button.

Skycontroller 2 - USB connection

Connect the Skycontroller 2 to your smartphone via a USB cable. Press the ON/OFF button on Parrot Skycontroller 2 to turn it on and verify that on the first page the Skycontroller2 is available.

Be sure that GPS is active on your smartphone to allow that all functions work properly.
Bebop - WIFI connections

You can pilot the Bebop drone by Parrot Flypad or a Bluetooth Joypad controller: in this case you need to connect the Bebop via WIFI and the Flypad/Joypad via Bluetooth to your smartphone. Connect the Bebop to WIFI network of your smartphone.

Run Auriga Bebop and verify on the first page that Bebop is present on the device button.
Parrot Flypad - bluetooth connection

Connect the Parrot Flypad to bluetooth of your smartphone. Tap on the Connect FLYPAD button:

Verify that Flypad is now available:

Check if the Flypad’s battery status is OK.

Be sure that GPS is active on your smartphone to allow that all functions work properly.
Joypad controller - bluetooth connection

Connect the Bluetooth Joypad controller to bluetooth of your smartphone
Verify on the first page that Joypad is available.

Be sure that GPS is active on your smartphone to allow that all functions work properly.

Waiting page

A waiting page appears for few seconds before connecting to the selected HUD screen.
Settings

Tap on the dots on the upper right corner to display the settings menu.

The settings are displayed:

You can set your preferences for the following:

- Display settings;
- HeadTrack settings;
- Flight settings;
- Video/Photo settings;
- Controller settings (Flypad/Joypad);
- RTH and Battery;
- Language.
Display settings

The Display Settings menu is shown below:

**TIPS WINDOW**

Tips Enable
Enable on-screen tips information

**NAVIGATION**

Units
Metrics (kmh,mt)

**ON SCREEN DISPLAY**

HUD Enable
Enable HUD view

Antenna position indicator
Enable antenna position indicator

Dot Enable
Enable center camera indicator

On screen bottom
Bottom icons enable

On screen upper
Upper icons enable

HUD 3D depth
Low

HUD color
Green

Opacity
100

**IMAGE SETTINGS (for headset FPV2 only)**

Size
80%

Eyes spacing
12.5 mm

Vertical pos
248
Tips Windows
Tips windows are warning or notification windows that appear on the HUD screen. They also recommend actions to be performed. This option allows you to enable/disable on HUD the tips windows.

Navigation
Tap on the Units and choose the preferred navigation system units: metric (Km/h – mt) or imperial (mph,ft).

<table>
<thead>
<tr>
<th>Units</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Metrics (kmh,mt)</td>
<td>ON</td>
</tr>
<tr>
<td>Imperial (mph,ft)</td>
<td>OFF</td>
</tr>
</tbody>
</table>

ON Screen Display
This menu allows you to choose the preferred layout on the navigation screen: switch ON or OFF the items that you prefer to display.

HUD enable
This option allows you to enable/disable the head Up Display in the navigation screen.

Antenna position indicator
This option allows you to enable/disable the antenna pointer indicator.
The antenna indicator allows you to keep the antenna of the controller properly pointed towards the drone. For this purpose keep the triangle as much as possible in the middle of the segment.

**DOT enable**
This option allows you to enable or disable the center camera indicator dot in the navigation screen.

**On screen bottom**
This option allows you to enable or disable the bottom icons in the navigation screen.

**Head set 1:**

**Head set2:**

**On screen upper**
This option allows you to enable or disable the upper icons in the navigation screen.

**Headset 1:**

**Head set2:**
HUD 3D depth
The HUD is displayed as an overlay on the video streaming from the Bebop with a 3D effect. This checkbox allows you to choose the depth of the HUD 3D effect.

<table>
<thead>
<tr>
<th>HUD 3D depth</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Low</td>
<td></td>
</tr>
<tr>
<td>Medium</td>
<td></td>
</tr>
<tr>
<td>High</td>
<td></td>
</tr>
</tbody>
</table>

Cancel

HUD color
This checkbox allows you to choose the color of the HUD.

<table>
<thead>
<tr>
<th>HUD color</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td></td>
</tr>
<tr>
<td>Yellow</td>
<td></td>
</tr>
<tr>
<td>Green</td>
<td></td>
</tr>
<tr>
<td>Black</td>
<td></td>
</tr>
<tr>
<td>Blue</td>
<td></td>
</tr>
</tbody>
</table>

Cancel

Opacity
This slide bar allows you to adjust the preferred opacity of the HUD display.

Opacity
100
Image settings for FPV (headset 2 only)

These slide bars allow you to properly adjust the Size, the Vertical position and the Eye spacing for the best viewing by the Cockpitglasses. This calibration is also possible via the controller sticks (see in the “View Calibration” chapter).

<table>
<thead>
<tr>
<th>IMAGE SETTINGS (for headset FPV2 only)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
</tr>
<tr>
<td>80 %</td>
</tr>
<tr>
<td>Eyes spacing</td>
</tr>
<tr>
<td>12.5 mm</td>
</tr>
<tr>
<td>Vertical pos</td>
</tr>
<tr>
<td>248</td>
</tr>
</tbody>
</table>
Head Track settings

The Head Track mode allow you to move the camera of the Bebop using the movement of your head. This menu allows you to choose the preferred movement of camera.

**Horizontal**
This option allows the movement of the camera just on the horizontal axis.

**Vertical**
This option allows the movement of the camera just on the vertical axis.
If both functions: horizontal and vertical are selected the camera moves in all directions.

**Lock mode**
This menu allows you to choose how to lock the camera movement:
**Always locked;**
The camera is always locked and it doesn’t move by your head movements.

**Locked on speed (>1m/s);**
The camera is locked while the speed of the bebop is greater than 1m/s and it is unlocked just when the drone is below this speed.
This option is useful while you pilot the drone with locked camera and the Headtrack feature automatically is enabled when the drone is in hovering mode only.

**Always unlocked.**
The camera is always unlocked and moves whenever there are head movements.
Flight settings

This menu allows you to define, and save, two different flight setting profiles.

Altitude limit OFF
To override the altitude limit keep hold the arrow UP button appeared on the single view or the proper button on the controller.

Max distance:
200m

GEOFENCE
Max Vert.Speed
1.0m/s
Max Rot.Speed
30°/s
Max Inclination
15°
Max Inc.Speed
100°/s

HAND LAUNCH
Flip the drone to enable the function

⚠️ Set up the flight parameters in order to fly in according with your local civil aerial regulation.
Altitude limit
Set the maximum altitude of your drone in flight.

Altitude limit OFF
Flag this option to disable the maximum altitude limit.

The UP button 🤖 appears on the screen just when the altitude limit set is reached. To override the altitude limit keep hold the UP button appeared on the single view or the proper button on the controllers (Skycontroller 2, Flypad and Bluetooth controller). For Skycontroller 1 is no possible set a button for this feature so you can use just the UP button on the screen for that.
If this option is needed also by Skycontroller 1 for the using with VR goggles you need to use a bluetooth controller in combination to Skycontroller 1 (set a button on the bluetooth controller for this feature).

Max distance
Define the maximum distance between the drone and controller.

Physical limits (Geo-Fence)
Enable or disable the geo-fence. If the geo-fence is ON, the drone will turn around once it's boundary (Max distance) is reached.
If the geo-fence is OFF and your drone exceeds the maximum distance, the distance on the screen of your smartphone is displayed in red.

Max vert.speed
Define the maximum vertical speed of your drone in flight.

Max Rot.speed
Define the maximum rotation speed of your drone in flight.

Max Inclination
Define the maximum inclination of your drone in flight. The angle of inclination of the drone determines the speed: a greater angle degree of inclination corresponds a greater speed.

Max Speed Incl.
Define the maximum speed inclination of your drone in flight. This adjustment can be regarded as the acceleration of the drone.

Hand Launch
Flag this option to enable the hand launch mode.
To perform the hand launch follow these steps:

Step.1
If the Hand Launch option has been selected this label appears on the hud:

![Hand Launch On]

Flip the drone to start the hand launch

Step.2
Return the drone in the normal hand launch position and wait for the propellers start.

![Return to Hand-Launch Position]

Step.3
Launch the drone forward and upward.

![Launch]
Flight setting procedures:

1. Select the drone: Bebop1, Bebop2(Power) or Disco. Scrool the drone’s pictures by arrow buttons and stop it on your drone model:

BEBOP1

BEBOP2 or BEBOP Power

PARROT DISCO

Be sure that the proper drone has been selected.
2. Move the slider to set the wanted flight parameters.

For the Parrot Disco are available also these further settings:

**Minimum altitude**
Determine the minimum altitude of the Parrot Disco.

**Loiter altitude**
Determine the hovering altitude of the Parrot Disco.
NB: you cannot change the hovering altitude after take off (50 meters)

**Loiter direction**
Determine the direction of circles made by the Parrot Disco while hovering

**Pitch mode**
Change the direction of the pitch of the Parrot Disco (by default, right joystick on the Parrot Skycontroller 2). Normal: when you press the right joystick on the Parrot Skycontroller 2 upwards, the Parrot Disco goes down, and when you press downwards, the Parrot Disco goes up. Reversed: when you press the right joystick on the Parrot Skycontroller 2 upwards, the Parrot Disco goes up, and when you press downwards, the Parrot Disco goes down.
3. Save the profile 1 or 2 by the proper profile button.

4. Load and check your setting by the proper profile loading button for each profile 1 or 2 by the proper profile button.

The name of the each profile can be change by the button:

Tip on the button and insert the new name of the current profile:

Enter new profile name

The profiles can be also quickly select in the “Quit Settings Menu”, accessed via the quick menu.
ILS Instrument Landing System (Parrot Disco only)

The instrument landing system (ILS), used in aeronautics, enables pilots to conduct an instrument approach to landing if they are unable to establish visual contact with the runway. That system operates as a ground-based instrument approach system that provides precision lateral and vertical guidance to an aircraft approaching and landing on a runway, using a combination of radio signals to enable a safe landing during instrument meteorological conditions, such as low ceilings or reduced visibility due to fog, rain, or blowing snow.

The ILS for your Parrot Disco helps you to approach a proper landing operations in such a way that it warns you when it is the right time to press the landing button on your Skycontroller.

The Auriga’s ILS System allows you to set the best values of altitude and distance in order to approach the proper landing, besides Auriga’s ILS instrument helps you to align the Disco in the right way of the landing pathway.
**ILS Settings**

These settings allow you to set the best values of altitude and distance in order to properly approach the landing.

In the flight settings menu select Disco drone and , after set all flight parameters, tap on the ILS button (highlighted in the figure below) in order to set the ILS parameters.

---

**Set up the flight parameters in order to fly in according with your local civil aerial regulation**
once the ILS key is tapped, the following screen is displayed:

### DISCO LAST LANDING DATA

**Start landing data**
- Speed: 0 Km/h
- Air speed: 0 Km/h
- Altitude: 0 m
- Distance: 0 m
- Angle: 0 °

**Final landing data**
- Distance from pilot: 0 m

**ILS Settings (Instrument Landing System)**

- Enable ILS: 
- Set the flight parameters in order to properly press the landing button
  - Altitude
    - 30m
  - Distance
    - 100m

To the top of the page are displayed all the data of the last landing performed:

**Start Landing Data**
- **Speed**: is the speed value when the landing button was pressed;
- **Air speed**: is the Air speed value when the landing button was pressed;
- **Distance**: is the distance from the pilot point when the landing button was pressed;
- **Angle**: is the angle with the ground when the landing button was pressed;

**Final Landing Data**
- **Distance from Pilot**: is the distance from the final landing point and the pilot position.
That data will allow you to set the best values assumed for the next landing drive by the ILS system.

In accordance with the last landing data set the ILS altitude and distance in order to have the right references in order to properly press the landing button for the next flight:

To enable the ILS instrument on the HUD tap on the checkbox *Enable ILS*:
**ILS HUD**

If ILS feature are enabled, in the ILS settings page, the HUD display appears as below:

1. Line of bow alignment of the Disco towards the position of the pilot. This line is displayed when the Disco points to the pilot direction.
2. Horizontal line of Disco altitude in relation to the ILS altitude target (see point 5). This line rises and falls respect to the midpoint which represents the altitude target.
3. Point of intersection of the two lines. When the alignment and altitude conditions are met, this circle must overlap with the HUD center circle (7).
4. Triangle indicating the pilot's orientation respect to the Disco. To have the Disco in front of you the triangle must be in the middle of the segment.
5. Altitude target set in the ILS settings page.
6. Remaining distance at the target point set in the ILS settings page.
7. HUD center.
ILS Landing operations

In order to achieve the best landing performance, these conditions must be met:

- The vertical line (1) must be aligned with the center of the HUD (7);
- The horizontal altitude line (2) must be aligned with the center of the HUD (7). This means that the point of intersection of the two lines (3) coincides with the center of the HUD (7).
- The remaining distance (6) must be close to 0;

For a frontal landing the triangle (4) must be in the middle of the segment.

Below is the HUD when the all targets are reached and it is the right time to press the landing button.

![ILS HUD](image)

When the landing button is pressed the Disco icon appears in place of the remaining distance (6).

**The landing procedure is now in progress .... good luck!**
### Video/Photo settings

This menu allows to set the following features:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STABILIZATION OFF</strong></td>
<td>Stabilization off mode&lt;br&gt;Roll stabilization off</td>
</tr>
<tr>
<td><strong>CAMERA SPEED</strong></td>
<td>Speed&lt;br&gt;5</td>
</tr>
<tr>
<td><strong>VIDEO QUALITY</strong></td>
<td>Frame Rate&lt;br&gt;25 fps</td>
</tr>
<tr>
<td><strong>VIDEO RECORDING</strong></td>
<td>Recording quality&lt;br&gt;HIGH</td>
</tr>
<tr>
<td><strong>Recording resolution</strong></td>
<td>Recording resolution&lt;br&gt;1080p recording, 480p streaming</td>
</tr>
<tr>
<td><strong>Video recording start automatically to take-off</strong></td>
<td>□</td>
</tr>
<tr>
<td><strong>Time lapse mode</strong></td>
<td>Time lapse&lt;br&gt;5 sec</td>
</tr>
<tr>
<td><strong>PHOTO PREFERENCES</strong></td>
<td>Photo format&lt;br&gt;Snapshop</td>
</tr>
<tr>
<td><strong>CAMERA SWITCH</strong></td>
<td>Pilot camera&lt;br&gt;Enable camera phone&lt;br&gt;Automatic camera drone/pilot switching&lt;br&gt;Set automatic pilot camera if it is within limits below:</td>
</tr>
<tr>
<td><strong>Distance</strong></td>
<td>Distance&lt;br&gt;50 m</td>
</tr>
<tr>
<td><strong>Altitude</strong></td>
<td>Altitude&lt;br&gt;25 m</td>
</tr>
</tbody>
</table>
**Stabilization off**
Tap on the “Stabilization off mode” and choose your preference from the next menu. To enable this option you need to DISABLE it in the “Quit Settings Menu” ensuring that the VIDEO STABILIZATION function button is greyed out.

<table>
<thead>
<tr>
<th>Stabilization off mode</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll stabilization off</td>
</tr>
<tr>
<td><strong>on</strong></td>
</tr>
<tr>
<td>Roll and Pitch stabilization off</td>
</tr>
<tr>
<td><strong>off</strong></td>
</tr>
<tr>
<td>Cancel</td>
</tr>
</tbody>
</table>

**Camera Speed**
This adjusting allows you to set the speed of movement of the Bebop’s camera. This setting is for Joypad and Flypad only.

**Video Quality**
This menu allows you to set the following features:

**Frame rate**

<table>
<thead>
<tr>
<th>Frame Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 fps</td>
</tr>
<tr>
<td><strong>on</strong></td>
</tr>
<tr>
<td>25 fps</td>
</tr>
<tr>
<td><strong>on</strong></td>
</tr>
<tr>
<td>30 fps</td>
</tr>
<tr>
<td><strong>off</strong></td>
</tr>
<tr>
<td>Cancel</td>
</tr>
</tbody>
</table>
Video stream mode

This menu allows you to set the following features:

Recording quality

- HIGH

Recording resolution

- 1080p recording, 480p streaming
- 720p recording, 720p streaming

Video recording

Start automatically to take-off. Flag this option to enable this mode.

Time lapse mode

Flag this option to enable this mode. Set the time for Time lapse mode from 8sec to 300sec.
Photo Preferences
This menu allows you to set the photo format:

<table>
<thead>
<tr>
<th>Photo format</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>JPG</td>
<td></td>
</tr>
<tr>
<td>JPG 360</td>
<td></td>
</tr>
<tr>
<td>DNG</td>
<td></td>
</tr>
<tr>
<td>Snapshot</td>
<td></td>
</tr>
</tbody>
</table>

Camera switch
This menu allows the automatic switching from Pilot view / Drone view based on the distance and the altitude parameters.
This mode is particularly useful in the take-off and landing operations.
Flypad and Joypad settings

Buttons and stick settings
This menu allows you to configure the Flypad/Joypad buttons:
Select the function and press the button or move the stick to assign.

Dead zone calibration
Dead zone calibration is for Flypad only.
Leave your joystick centered.
The region that the joystick can physically move without registering any change is the dead zone for the stick.

If your Bebop move also in the center position the calibration is necessary.
You can adjust it manually by the proper cursor.

<table>
<thead>
<tr>
<th>FLYPAD SETTING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll (glide L/R)</td>
</tr>
<tr>
<td>Pitch (move fwd/bkw)</td>
</tr>
<tr>
<td>Yaw (rotate L/R)</td>
</tr>
<tr>
<td>Gaz (up/down)</td>
</tr>
<tr>
<td>Take off/Landing</td>
</tr>
<tr>
<td>Record</td>
</tr>
<tr>
<td>Take photo</td>
</tr>
<tr>
<td>Return Home</td>
</tr>
<tr>
<td>Camera up/down</td>
</tr>
<tr>
<td>Camera left/right</td>
</tr>
<tr>
<td>Reset camera</td>
</tr>
<tr>
<td>Flip Forward</td>
</tr>
<tr>
<td>Flip Backward</td>
</tr>
<tr>
<td>Flip Left</td>
</tr>
<tr>
<td>Flip Right</td>
</tr>
<tr>
<td>Stabilization on/off</td>
</tr>
<tr>
<td>EMERGENCY</td>
</tr>
<tr>
<td>View calibration</td>
</tr>
<tr>
<td>POV change</td>
</tr>
<tr>
<td>FPV view mode only</td>
</tr>
<tr>
<td>Head Track Reset</td>
</tr>
<tr>
<td>Exposure +</td>
</tr>
<tr>
<td>Exposure -</td>
</tr>
<tr>
<td>Profile switching</td>
</tr>
<tr>
<td>Override altitude limit</td>
</tr>
</tbody>
</table>

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Skycontroller 2 settings

Buttons and stick settings
This menu allows you to configure the Skycontroller 2 buttons:
Select the function and press the button or move the stick to assign.

SKYCONTROLLER 2 SETTINGS

- Stabilization on/off
- View calibration
- POV change
  - FPV view mode only
- Head Track Reset
- Profile switching
- Override altitude limit
- HUD view
- Return Home
- Record
- Take photo
- EMERGENCY
RTH and Battery

This menu allows you to define the Return to Home features and set the battery warning thresholds.

**Return Delay Time (RDT)**

During the flight, in case of connection loss, the drone automatically returns to its starting position after a certain time period. Set this delay time by the slider:
Return Home Position (RHP)

Return Home Position (RHP) allows you to define the home point: Take-Off or Pilot position.

Battery Warnings

This menu allows to set the battery warnings thresholds (critical and low battery warning) and the automatic return to home for battery warning status.

Critical Battery Warning is triggering more frequently than the Low Battery Warning.

Low battery Auto RTH

Flag this option to enable the automatic Return to Home in case of Battery Warnings.
PreFlight menu

The PreFlight menu is available while the bebop is connected and you are in the flight session. This menu is available just swiping on the screen or tapping on this icon ☰. It allows you to check the current settings, make quick settings, adjust the exposure and set the white balance.

Current settings
A Current setting menu is available in order to know the current parameters and to have an quick access to the main features while you are in the flight session.

On the top of the menu there is a summary of all the current settings:
Quick settings menu
It allows you to do quick settings while you are already in the flight session, such as the following:

Display
Tap on this button to show the display settings menu.

Flight Profile 1
Tap on this button to select (blue button) the profile 1 as set previously in the flight settings menu.

Flight Profile 2
Tap on this button to select (blue button) the profile 2 as set previously in the flight settings menu.

Banked Turn
Tap on this button to turn ON (blue button) or OFF (greyed out) this feature.

Video Stabilization
Tap on this button to turn on (blue button) this feature. If it is not selected the stabilization is OFF as set previously in the Stabilization off mode menu.

Stabilization off mode

<table>
<thead>
<tr>
<th>Roll stabilization off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roll and Pitch stabilization off</td>
</tr>
</tbody>
</table>

Headtrack
Tap on this button to show the headtrack settings menu.

Flat Trim
Use the flat trim feature after you change the battery or if the Parrot Bebop Drone does not stay on course correctly. Place the Parrot Bebop Drone on a flat, dry, unobstructed surface and tap on this button to trim the Bebop.
Calibration

In this section you can calibrate the magnetometer of the Bebop drone or the VR headset/Parrot Cockpitglasses.

### Drone Calibration

Tap on Drone Calibration to calibrate your drone.

### Bebop Calibration

Follow the step by step instructions on your smartphone screen to calibrate.

- **Sep.1: Z axis (YAW) calibration** - Turn your drone on its Z axis.
- **Step2: Y axis (PITCH) calibration** – Turn your drone on its axis.
- **Step3: X axis (ROLL) calibration** – Turn your drone on its axis.

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Parrot Disco Calibration

Follow the step by step instructions on your smartphone screen to calibrate.
Step1: Pitot calibration – Hold the Parrot Disco towards the ground for 5 seconds.
Step2: Z axis (YAW) calibration - Turn your drone on its Z axis.
Step3: Y axis (PITCH) calibration – Turn your drone on its axis.
Step4: X axis (ROLL) calibration – Turn your drone on its axis.

View Calibration for Headset FPV2
This calibration is not allowed by Skycontroller 1.

Use Skycontroller 2/Flypad/Bluetooth joypad controllers to calibrate while wearing VR headset or Parrot Cockpitglasses.

- Adjust the VR headset/Parrot Cockpitglasses on your head.
- Tap the Settings button on the Parrot Skycontroller 2 or the same function on the other controllers.

The Settings window opens.
Image resizing
- Move the left stick on the controller UP/Down to resize the images.

Vertical position
- Move the left right stick on the controller UP/Down to move the images to the vertical position.

Eye spacing
- Move the right stick on controller Left/Right to adjust the eye spacing.

When the image is clear and the lines are aligned, press the A button on the Parrot Skycontroller 2 or the same function on the other controller to submit the settings.
# WiFi Settings

In this section you can set all the WiFi parameters.

<table>
<thead>
<tr>
<th>BEBOP WIFI SETTINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Name</strong></td>
</tr>
<tr>
<td><strong>WPA2</strong></td>
</tr>
<tr>
<td><strong>WPA2 protection</strong></td>
</tr>
<tr>
<td><strong>Indoor mode</strong></td>
</tr>
<tr>
<td><strong>Location</strong></td>
</tr>
<tr>
<td><strong>WPA2</strong></td>
</tr>
<tr>
<td><strong>WPA2 protection</strong></td>
</tr>
<tr>
<td><strong>Indoor mode</strong></td>
</tr>
<tr>
<td><strong>Location</strong></td>
</tr>
<tr>
<td><strong>WiFi Band</strong></td>
</tr>
<tr>
<td><strong>WiFi Channel</strong></td>
</tr>
</tbody>
</table>

Check the restrictions regarding the use of Wi-Fi frequencies in the place where you are going to fly.

**Video/Photo**

Tap on this button to show the Video Settings menu.
**Exposure Adjusting**

It allows you to adjust the exposure of the image. To do this, tap on the +/- buttons. The circle between the buttons shows the exposure value between +3 / -3.

**White balance**

It allows you to adjust the white balance of the image. To do this, tap on the buttons as shown below:

- Automatic White Balance
- Incandescent
- Sunny
- Cloudy
- Fluorescent
HeadTracker calibration

In order to use the head tracker function properly calibration of the sensors on your smartphone is required.

Calibration circle

A red calibration circle is displayed when the navigation screen is running for the first time.

Move your head until the circle shrinks toward the center and becomes a full red dot.

Keep your head still and straight in the proper direction of view.

Keep your head still for a few seconds until the red dot and the flashing message: “wait to calibrate” disappear.

Move the head in all directions and check the proper camera movements.

The calibration is ended successfully.

If the calibration is failed please repeat calibration procedure described above.

⚠️ Be sure that during calibration there are no magnetic fields near to the smartphone, as this could have an undesired effect.
Flight viewing mode

Select the viewing flight mode:

- FPV Headset 1 (for standard VR goggles view).
- FPV Headset 2 (for Parrot Cockpitglasses view).
- Single View to display the full screen mode.

The view button becomes blue when selected.
FPV Headset interface layouts

**FPV Headset 1**

FPV Headset 1 layout interface is best for the use with standard VR goggles.

**PFV Headset 1**

1. Skycontroller Battery Status
2. Bebop drone Battery Status
3. Distance
4. WiFi Signal Strength
5. Return To Home
6. Head Tracker Status
7. Video Recording Status
8. Flight Time
9. Speed slide bar
10. Altitude slide bar
11. Artificial Gyroscope Horizon
12. Antenna pointer indicator
13. Compass slide bar
14. Home Marker
15. Altitude Above Sea Level
16. Center camera indicator
17. Satellites indicator
18. Altitude limit indicator
19. Tips Window
20. Air Speed (Disco only)
FPV Headset 2

FPV Headset 2 layout interface is best for the use with Parrot Cockpitglasses 1.

**PFV Headset 2**

1. Skycontroller Battery Status
2. Bebop drone Battery Status
3. Distance
4. Wifi Signal Strength
5. Return To Home
6. PLT=Take Off
7. Video Recording Status
8. Flight Time
9. Speed slide bar
10. Altitude slide bar
11. Artificial Gyroscope Horizor
12. Antenna pointer indicator
13. Compass slide bar
14. Home Marker
15. Altitude Above Sea Level
16. Center camera indicator
17. Satellites Indicator
18. Altitude limit indicator
19. Tips window
20. Air Speed (Disc only)
Single view interface layouts

This layout interface mode must be selected when VR glasses are not being used.

Auriga Bebop provides on your screen all the parameters you need for a proper and safe flight.

Controller drone Battery Status (1)
On HUD display shows the percentage of the remaining battery level of the controller. An icon and an audible alarm warn of the oncoming total discharge of the battery.

Bebop drone Battery Status (2)
On HUD display shows the percentage of the remaining battery level of the Bebop drone. An icon and an audible alarm warn of the oncoming total discharge of the battery.

Distance (3)
On HUD display shows the distance between home to GPS Bebop position. In the setting page can be set the preferred units: mt or ft.
Wifi Signal Strength (4)
On HUD display shows the dB (decibel) of the radio WIFI signal strength. An icon and an audible alarm warn of the oncoming signal loss.

Return To Home (5)
The bottom left of the OSD shows a Return To Home (RTH) icon that becomes flashing when active.

Head Tracker Status (6)
The bottom of the OSD shows a Head Tracker icon that becomes unlocked when active. This means that the bebop’s camera may be driven simply moving your head.

Video Recording Status (7)
The bottom of the OSD also shows a video recording status: rec/pause. The recording command is performed by the controller.

Flight Time (8)
The bottom right of the OSD shows two flight times:
- Flight time (min:sec) shown the current session flight time.
- Total time (min:sec) shown the total time that Bebop flew before battery changing.

Speed slide bar (9)
On HUD displays a vertical slide bar of the speed. In the setting page can be set the preferred speed units: Kmh or Mph.

Altitude slide bar (10)
On HUD displays a slide bar of the altitude. In the setting page can be set the preferred altitude units: mt or ft.

Artificial Gyroscope Horizon (11)
On HUD displays the gyroscope flight position.

Antenna Pointer indicator (12)
This indicator allows you to point the antenna of the Skycontroller in the direction of the Bebop in order to have the best radio signal. For the best radio connection the triangle should be at the center of the segment, this is obtained by properly directing the antenna of the controller.

Compass slide bar (13)
On HUD displays a slide bar of the compass position.

Home Marker (14)
The Home Marker arrow displays the position of the drone’s nose on the compass respect to the home position.
Altitude Above Sea Level (15)
In this position of the HUD the altitude above sea level is displayed. In the settings page you can set the preferred units: MASL or FASL.

Center camera indicator (16)
A dot on the screen shows the center camera position. This indicator changes its position on screen when your head is moving in head tracker mode.

Satellites indicator (17)
In this position of the HUD, the number of satellites is displayed for the best GPS position calculation.

Altitude limit override button/indicator (18)
The override button/indicator appears on HUD when the altitude limit is reached.

Tips window (19)
These items are warning or notification windows, they also recommend actions to be performed about these alerts.

Air Speed (20)
In this position of the HUD the Air Speed is displayed for the Parrot Disco only.
INFO BAR

On the bottom in first page is available the below info buttons:

<table>
<thead>
<tr>
<th>Flight Data</th>
<th>Map</th>
<th>Info</th>
</tr>
</thead>
</table>

Flight Data
This report allows you to see the main data of your flights.

<table>
<thead>
<tr>
<th>FLIGHT DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last GPS way point: ?</td>
</tr>
<tr>
<td>Last Flight: none</td>
</tr>
<tr>
<td>Max distance: 0 m</td>
</tr>
<tr>
<td>Max speed: 0 Km/h</td>
</tr>
<tr>
<td>Max altitude: 0 m</td>
</tr>
<tr>
<td>Flight time: 0m 0s</td>
</tr>
<tr>
<td>Distance flown: 0 m</td>
</tr>
<tr>
<td>Battery usage: 0 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Absolute</th>
</tr>
</thead>
<tbody>
<tr>
<td>Best max distance: 0 m</td>
</tr>
<tr>
<td>Best max distance flown: 0 m</td>
</tr>
<tr>
<td>Best max altitude: 0 m</td>
</tr>
<tr>
<td>Best max speed: 0 Km/h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total flight time: 0d 0h 0m 0s</td>
</tr>
<tr>
<td>Total distance flown: 0Km 0m</td>
</tr>
</tbody>
</table>
**Last GPS way point**
These are the coordinates of the last waypoint received from GPS of Bebop.

**Last Flight**
These are the last flight data such as:
- **Max distance**: maximum distance reached from the home position during last flight.
- **Max speed**: maximum speed performed during last flight.
- **Max altitude**: maximum altitude reached from the take-off during last flight.
- **Flight time**: duration of the last flight.
- **Distance Flown**: estimate total distance flown from the take off during the last flight.
- **Battery usage**: battery consumption during the last flight.

**Absolute**
These are the best data such as:
- **Best max distance**: maximum distance reached from the home position for all flights performed.
- **Best distance Flown**: maximum total distance flown from the take off for all flights performed.
- **Best max altitude**: maximum altitude reached from the take off for all flights performed.
- **Best max speed**: maximum speed reached from the take off for all flights performed.

**Totals**
- These are the total data such as:
  - **Total flight time**: duration of the total flights performed.
  - **Total distance Flown**: maximum total distance flown from the take off for all flights performed.
  - **Distance Flown**: total distance flown from the take off for all flights performed.

**Reset**
Reset buttons to reset the absolute and totals data.
Map
Tap on this button to link Google Map Service to display the last GPS waypoint of Bebop drone on the map. This feature is very useful when you need to search for your drone.

Info
Info page is about Auriga Bebop software and information about compatibility, user manual, disclaimer and credits (tap on the proper button).

Tap on User Manual button to download.

Webpage: http://www.auriga-software.com/
Facebook page: https://www.facebook.com/auriga.bebop
Youtube Channel: www.youtube.com/channel/UCIfUO1Pmr2n4jt5y-3dC0bA
Recommendations

When you use the Application to pilot a drone, you undertake to respect the following rules:

Read the instruction guide supplied with the drone carefully;

The use of the drone in certain areas open to the public (e.g. railway stations or airports) or on the public highway may not be permitted. Ensure that the use of the drone is permitted where you are located.

Use the drone in a manner that respects privacy and personal image rights.

Close to strong magnetic fields, radio waves or strong radiation, the drone camera may not broadcast the video stream correctly. If sand or dust enters the drone, it and in particular the camera may irreversibly cease operating properly.

Do not use the drone in unfavorable weather conditions (rain, strong winds, snow) or when visibility is inadequate (night).

Keep the drone clear of high voltage wires, trees, buildings or any other potentially dangerous area.

Avoid using the drone in an environment with too many Wi-Fi® networks (routers, internet boxes). Keeping the number of Wi-Fi® networks nearby to a minimum will allow better use of your drone.

Do not use the Application for illegal or unauthorized purposes. International users undertake to respect all local legislation concerning the flying of drones and the publication of online content;

Do not publish content inciting hatred or violence or containing threats, or of a pornographic nature or containing nudity or gratuitous violence;

Do not use the Application or the drone for an illegal, malicious or discriminatory activity.

Respect local legislation concerning drone use.
Enjoy your flight!