Parrot
BEBOP 2 DRONE

User guide
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Before you begin

For easy reading, iPhone®, iPad® and other compatible telephones or tablets are referred to as 'smartphones' in the manual.

Package contents

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<th>Battery 2700Mah</th>
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When you carry the Bebop 2, protect the camera's lens with the camera's lens cap.

Downloading the application

Connect to the App Store™ or Google Play™ and download the FreeFlight 3 application for free.

Charging the battery

1. Insert the plug converter corresponding to your country to the charger.
2. Plug the battery into the charger.
3. Plug the charger into the mains.
   > The charger LED lights up in red when charging. Once the battery is fully charged, the LED turns green. The battery takes about 55 minutes to charge.
Installing the battery

Slide the battery into its compartment until hearing a "Click". The latch at the rear of the battery must be locked in the lower position (A diagram).

To remove the battery, hold the latch up, and slide the battery backward (B diagram).

Switching on/off the Bebop 2

Press the on/off button located on the back of the Bebop 2 to switch it on or off.

> The LED located on the on/off button flickers in red. The Bebop 2 omits a sound. Once it is fully booted and ready for use, the button stays red.

Connecting a smartphone

1. Switch the Bebop 2 on.
2. On your smartphone, launch a search of the Wi-Fi® networks available:
   - if you are using an iPhone or an iPad, select Settings > Wi-Fi;
• if you are using an Android™ smartphone, select **Settings > Wireless and networks > Wi-Fi.**

3. Select the network: Bebop2_xxxxx.

4. Wait for your smartphone to connect to the Wi-Fi network of the Bebop 2. This connection is generally represented by the Wi-Fi logo appearing on the smartphone screen.

5. Start the FreeFlight 3 application.
   > The connection between your smartphone and the Bebop 2 is established automatically.

See the [Network settings](#) section for further information.

### Changing the propellers

1. Remove the propellers with the propellers mounting tool.

2. Install the new propellers:
   • place the propellers with a hole in the middle on the motors with a protruding axle (front right and rear left motors);
   • place the propellers without a hole on the motors without protruding axle (front left and rear right motors).

3. Lock the propellers with the propellers mounting tool.
Preflight check

Before each flight session, check the following points:

- Do not fly the Bebop 2 at night.
- Check the weather conditions. Do not fly the Bebop 2 when the weather is rainy, snowy, or foggy. Do not fly the Bebop 2 if the wind speed exceeds 24 mph (40 km/h).
- Ensure there is no obstacle in your flight area that could disturb piloting or visual flight.
- Ensure the use of the Bebop 2 is allowed in your flight area.
- Check the Wi-Fi use restrictions in your flight area.
- Ensure the propellers are correctly installed and locked. For further information, see Changing the propellers.
- Ensure the battery is correctly attached to the Bebop 2. For further information, see Installing the battery.
- Ensure the Bebop 2 and your smartphone batteries are charged.
- Check the quality of the Wi-Fi range. For further information, see Network settings.
- Calibrate the Bebop 2. For further information see Calibrating the Bebop 2.
Updating the Bebop 2

1. Launch the FreeFlight 3 application.
2. Press Check for updates to check if any updates are available for the Bebop 2.

There are 2 ways to update the Bebop 2:
- via the FreeFlight 3 application (recommended)
- via USB, by downloading the update file from our website. A computer is necessary for this method.

*Note: Ensure that the battery of the Bebop 2 is in place and fully charged before updating via USB.*

For further information, see the Bebop 2 update procedures.
Flying

Note: Joypad piloting mode is activated by default. To change mode, see Piloting settings.

1. Launch the FreeFlight 3 application.
2. Wait until the connection between your smartphone and the Bebop 2 is complete.
3. Press Start to pilot the Bebop 2.
   > The piloting screen appears. It locks in landscape format.

Piloting screen

<table>
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</table>
Calibrating the Bebop 2

When you use the Bebop 2 for the first time, the calibration screen appears.

1. Follow the procedures on the screen.
2. Once you completed the three steps, press ⬜

*Note: You can also calibrate your Bebop 2 if it does not stay on course correctly. To do so, go to ☰>Flight settings.*

Map mode

You can display a map instead of the camera video feedback to see the position of your Bebop 2.

Before activating the map mode:

- preload a map. If you fly the Bebop 2 in an area without internet connection, or if the internet connection is lost while flying, the Bebop 2 will still be located on the map.
- wait until the 🌍 icon turns green to indicate the Bebop 2 GPS position is detected.

Preloading a map

1. Go to the main screen of FreeFlight 3.
2. Go to ☰ > Settings.
3. Press Preload a map.
   - The map appears. The blue dot indicates your position.

*Note: To locate your position on the map, the FreeFlight 3 application must have access to your smartphone location services. For iOS devices, activate the function in Settings > FreeFlight 3 > Location service. For Android devices, activate the function in Settings > Application manager > FreeFlight 3 > Permissions. For further information, see your smartphone user guide.*

4. Zoom in your flight area. If you already are in your flight area, press Center on your location, then zoom.
5. Press **Preload**.
6. Wait until the preloading is completed.

**Activating map mode**

Press 📍.

The 📍 icon indicates your smartphone’s position.

The ⛹️ icon indicates the Bebop 2 position.

To switch back to the video mode, press 📍 again.

**Flat trim**

The flat trim feature is used to calibrate the internal sensors for level flight. It is recommended that you complete a flat trim after each battery change or if the Bebop 2 will not hover in place correctly.

1. Place the Bebop 2 on a flat, dry, unobstructed surface.
2. In the FreeFlight 3 application, go to 🛡️ > Flight settings.
3. Press Flat Trim.

GPS signal

*Note:* If you are in an area with no GPS reception, the Bebop 2 position will not be detected.

The icon indicates that the Bebop 2 position is not detected.

The icon indicates that the Bebop 2 position is detected.

Make sure the Bebop 2 position is detected before taking off to register the starting point correctly.

To display the last GPS position of the Bebop 2:

1. Launch FreeFlight 3.
2. On the main screen, go to > Settings.
3. Press See details.
   > The latitude and longitude of the Bebop 2 position appears in the list.

Taking off

1. Place the Bebop 2 on a flat and dry surface and in a unobstructed and lit area.
2. Press Take Off.
   > The Bebop 2 takes off and hovers at approximately 1 meter above the ground.

*Note:* Make sure the take-off location of the Bebop 2 is saved. To do so wait for the icon to turn green.

Movements

Movements depend on the flight and piloting settings. See the Settings section for further information. By default, the Joypad option is activated and inverted option is deactivated.
Joypad mode

Left joypad

- rotate to the left
- rotate to the right
- fly upwards
- fly downwards

Right joypad

- fly forwards
- fly backwards
- fly right
- fly left

Normal mode

Left joypad

- rotate to the left
- rotate to the right
- fly upwards
- fly downwards

Right joypad

Hold the central button and tilt your smartphone to fly the Bebop 2.
Hold the central button and tilt your smartphone forwards or backwards to pilot the Bebop 2 forwards or backwards.
Hold the central button and tilt your smartphone to the left or right to fly the Bebop 2 to the left or right.

**Ace mode**

**Left joystick**
- rotate to the left
- rotate to the right
- fly upwards
- fly downwards

**Right joystick**
- Slide to orientate the camera regardless of the position of the Bebop 2.

Hold the central button and tilt your smartphone to fly the Bebop 2.
Pre-programmed acrobatics

The Bebop 2 can perform acrobatics while flying, whether it is stationary or moving.

1. Press the flip icon to change the flip. ☐ is selected by default.

   back flip

   front flip

   left flip

   right flip

   no flip

2. Tap on your smartphone screen twice to perform a flip.

Photos and videos

Note: The camera is located at the front on the Bebop 2. The camera located under the Bebop 2 is for stabilization only.

You can set the Bebop 2 in video or photo mode. The video mode is activated by default. For further information, see Recording settings.

Orienting the camera  Control the angle of the camera regardless of the Bebop 2 position.

   • in Normal and Joypad modes: slide two fingers on the screen.

   Note: The vertical orientation commands are reversed. If you slide your finger upwards, the camera angle will move downwards. If you slide your finger downwards, the camera angle will move upwards.

   • in Ace mode: slide ▼.

Taking a photo  Press ◊ to take a photo.

The internal memory of the Bebop 2 is 8GB. The maximum number of photos stored in the internal memory depends on the selected format. To choose a photo format, see Recording settings. Once the memory is full, it is no longer possible to take a photo.
**Note:** To obtain high quality photos, make sure that the Bebop 2 is set in photo mode. To do so, see **Recording settings**.

**Recording a video**

The video recording starts automatically when you press **Take off**. The ⚪ button blinks during recording.

To stop the video record, press ⚪. To start a new video, press ⚪ again.

The video recording stops after 25 minutes of recording.

**Note:** It is not possible to record a video when the Bebop 2 is set in timelapse mode. To deactivate timelapse mode, see **Recording settings**.

---

**Retrieving photos and videos**

You can retrieve photos and/or videos taken with the Bebop 2:

- on your smartphone, using the FreeFlight 3 application,
- on your computer, using a USB/micro USB cable (supplied).

**Retrieving photos and videos on your smartphone**

To retrieve photos and videos from the FreeFlight 3 application:

1. On your smartphone, launch the FreeFlight 3 application.
2. Go to ▼ ▼ ▼ > Internal memory.
   > The list of photos and videos stored in the Bebop 2 internal memory appears.
3. Select one or several photos and/or videos.
4. Press Transfer to retrieve the photos and/or videos on your smartphone.
5. Press Delete if you want to delete the photos and/or videos from the internal memory of the Bebop 2.

**Retrieving photos and videos on your computer**

- **Windows**:

1. Connect the Bebop 2 to your computer with the USB/micro USB cable (supplied).

2. Switch the Bebop 2 on.
   > Your computer detects the Bebop 2 automatically. Wait until the driver installation is complete. A pop-up appears like the one shown below.
The appearance, content and location of this message depends on your operating system.

3. Open the file, as though it were a USB flash drive.
   > You can copy the photos and/or videos on your computer.

- **Mac**:

  3. Connect the Bebop 2 to your computer with the USB/micro USB cable (supplied).

  4. Switch the Bebop 2 on.
     > Your computer detects the Bebop 2 automatically and the Photos application opens. You can copy the photos and/or videos on your computer.

**Landing**

Ensure that the Bebop 2 is over a flat, dry and unobstructed surface, then press **Landing** to make the Bebop 2 land.

Press **Emergency** in an emergency case only. The motors will cut out and the Bebop 2 will immediately drop from the height at which it is flying. Using the landing button is sufficient in most instances.

**Return home**

*Note:* If neither your smartphone nor the Bebop 2 receives a GPS signal, the **Return home** feature cannot be activated.

The **Return home** feature enables you to make the Bebop 2 fly back to:
- the last take off location,
- your smartphone location if the Bebop 2 has received no GPS signal.

*Note:* To locate your position on the map, the **FreeFlight 3** application must have access to your smartphone location services. For **iOS** devices, activate the function in **Settings** >
Press 🎨 for the Bebop 2 to return to its starting point.

> The 🎨 button turns green and the Bebop 2 returns to its starting point. Once the Bebop 2 reaches its starting point, it remains at 2 meters above the ground.

Warning: The Bebop 2 returns to its starting point in a straight line. The Bebop 2 can collide with any obstacle that is in its trajectory.

You can take control over the Bebop 2 when it is returning to its starting point.
If the Bebop 2 altitude is below 20 meters, it will reach an altitude of 20 meters before returning to its starting point in order to avoid any obstacle.
If the connection between your smartphone and the Bebop 2 is lost, the Bebop 2 returns to its starting point automatically after a certain period of time. To set this period of time, in the FreeFlight 3 application, go to Settings > Navigation and set the period of time needed.

Battery

The 🎨 button indicates the Bebop 2's battery level. The Bebop 2 has a battery life of approximately 25 minutes.
When the battery level is low, an alert appears on your smartphone screen. The Bebop 2's on/off button lights up twice and shuts off.
Note: The number of acrobatics can have an impact on the Bebop 2's battery life.
Settings

Within the FreeFlight 3 application, press 🌐 to access the Bebop 2 settings menu. Slide the screen right or left to access the different settings screens.

Press ⏯️ to reset the Bebop 2 to factory settings. This action deletes your settings and preferences, photos and videos stored in the Bebop 2's internal memory.

*Note:* You can also reset the Bebop 2 without the Bebop 2 application. To do so, switch the Bebop 2 on and press the on/off button for 10 seconds.

Piloting settings

Max inclination

Define a maximum angle pitch when you fly the Bebop 2 forwards and backwards. The lower the maximum inclination value, the smaller the angle of pitch. The higher the maximum inclination value, the greater the angle of pitch.

*Note:* This setting affects the acceleration. With a greater angle of pitch, the Bebop 2 accelerates faster.

Joypad inverted

Reverse the controls on your smartphone.
Three piloting modes are available: Normal, Joypad (activated by default) and Ace. For more information about these modes, see the Movement section.

**Flight settings**

Calibrate

Calibrate the Bebop 2. Use this feature when the Bebop 2 does not stay on course correctly.

Flat Trim

The flat trim feature is used to calibrate the internal sensors for level flight. It is recommended that you complete a flat trim after each battery change or if the Bebop 2 will not hover in place correctly. For more information, see the Flat Trim section.

Max vertical speed

Define a maximum speed when you fly the Bebop 2 upwards.

Max rotation speed

Define a maximum speed when you make the Bebop 2 rotate. When you fly the Bebop 2 horizontally, its speed depends on the angle of inclination.

**Recording settings**

The Bebop 2 is equipped with a fisheye (wide-angle) camera.

*Note:* The camera lens is situated at the front of the Bebop 2. The camera situated under the Bebop 2 is for stabilization only.
<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
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</thead>
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<tr>
<td>Photo mode</td>
<td>Activate the photo feature.</td>
</tr>
<tr>
<td>Video mode</td>
<td>Activate the video feature. This mode is activated by default.</td>
</tr>
<tr>
<td>DNG</td>
<td>Select this format to take high resolution photos.</td>
</tr>
<tr>
<td>JPEG</td>
<td>Select this format to take medium resolution photos.</td>
</tr>
<tr>
<td>JPEG 180°</td>
<td>Select this format to keep the Fisheye effect on your photos.</td>
</tr>
<tr>
<td>Note</td>
<td>This format does not save the picture's metadata.</td>
</tr>
<tr>
<td>Timelapse mode</td>
<td><strong>Activate Timelapse mode:</strong></td>
</tr>
<tr>
<td></td>
<td>1. Press Timelapse mode.</td>
</tr>
<tr>
<td></td>
<td>2. Slide your finger on the circle to select the interval between each photo</td>
</tr>
<tr>
<td></td>
<td>If you select 10'', the Bebop 2 will take a picture every 10 seconds.</td>
</tr>
<tr>
<td>Note</td>
<td>When the Bebop 2 is set in timelapse mode, it is not possible to record a</td>
</tr>
<tr>
<td></td>
<td>video.</td>
</tr>
<tr>
<td></td>
<td><strong>Note</strong>: When the DNG option is activated, the timelapse mode enables the</td>
</tr>
<tr>
<td></td>
<td>Bebop 2 to take a picture every 10 seconds minimum. When the JPEG option is</td>
</tr>
<tr>
<td></td>
<td>activated, the timelapse mode enables the Bebop 2 to take a picture every</td>
</tr>
<tr>
<td></td>
<td>8 seconds minimum.</td>
</tr>
<tr>
<td>Antiflickering mode</td>
<td>Delete the flickering effect on the video. Select the frequency</td>
</tr>
<tr>
<td></td>
<td>corresponding to the electric frequency of your country. Select <strong>Auto</strong></td>
</tr>
<tr>
<td></td>
<td>to adapt the frequency to the country selected on the Network settings</td>
</tr>
<tr>
<td></td>
<td>screen.</td>
</tr>
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Image settings

Set the image contrast.

Set the image exposure.

Select one of the following buttons to adapt the white balance according to your environment:

- automatic
- daylight
- cloudy
- white fluorescent light
- tungsten bulb
Network settings

Product name
Change the network name of your Bebop 2:

1. Change the Bebop 2 name in the Product name field.
2. Reboot the Bebop 2.

Note: The network name of the Bebop 2 can only contain letters, numerals and underscores ("_`). It must not exceed 32 characters in length.

Select country
Select your country.

Wi-Fi type
Connect the Bebop 2 to the 2.4 or 5 GHz Wi-Fi bands.

- The 2.4 GHz Wi-Fi band enables you to fly the Bebop 2 from a greater distance. It is generally more congested than the 5 GHz Wi-Fi band in urban areas.
- The 5 GHz Wi-Fi band enables you to obtain a better connection between the Bebop 2 and your smartphone. Check your smartphone user guide (or the technical specifications) to see whether it supports connection to the 5 GHz Wi-Fi band. If it does not, use the 2.4 GHz Wi-Fi band only.

To switch the Wi-Fi band (2.4 GHz or 5 Ghz) manually without using the application, hold down the on/off button of the Bebop 2 for 5 seconds.

Note: The diagram at the bottom of the screen shows the state of the Wi-Fi channels. Red curves represent congested channels. Green curves represent less congested channels. The channel without curves are free.
Before flying the Bebop 2, ensure that you comply with the Wi-Fi frequencies restrictions of your place of flight. Certain frequencies may be restricted or forbidden. Selecting the country and activating the outdoor option enable FreeFlight 3 to adapt the available channels according to the legislation of the selected country. For example, in certain countries using the 5 GHz Wi-Fi band may be prohibited in outdoor mode.

In automatic mode, FreeFlight 3 automatically selects a channel according to the country, the mode (outdoor/indoor), and the Wi-Fi band selected and the congestion of the channels.

If you encounter a problem with the quality level of the Wi-Fi connection:

1. Select Manual mode.
2. Select a non-overloaded channel using the information displayed on the diagram. Give preference to channel without curves or with green curves.

Motor information

Motor information
- The motor state
- The software version
- The last flight date
- The total flight time
- The last error date
Information

- FreeFlight 3 version
- Bebop 2 firmware version
- Bebop 2 hardware version
- GPS hardware version
Drone Academy

*Note: An internet connection is necessary to use the Drone Academy.*

To launch Drone Academy:
1. Launch the FreeFlight 3 application.
2. Press Drone Academy.

Creating a user account

You need a user account to use Drone Academy.
1. Press Sign up now.
2. Type a user name, a password and an e-mail address.
3. Press Register your profile.

Main screen

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<td>Access the FreeFlight 3 application home screen</td>
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</table>
Managing your profile

To modify or delete your profile:
1. Press the Profile tab.
2. Press .
3. Press Logout or Edit.
4. If you edit your profile, slide the screens towards left to complete your profile.

Registering a drone

To register a drone, press My drones.

Note: The first time you connect the Bebop 2 to your smartphone, a pop-up asks you to register your Bebop 2 in the Drone Academy.

Consulting shared flights

1. Press Map.
2. Press to search flights amongst:
   • your flights or other user’s flights
   • the type of media.
   Press to search flights by user or place.

Consulting and sharing your flights

1. Press My pilotings.
   >The list of your flights appears. You can sort them by date, rank or type.
2. Press the flight you want to share.
3. Press Public to share the flight. You can also:
• press the stars to rate the flight.
• press the tabs at the bottom of the screen to consult the flight information.
Troubleshooting

LED behaviour

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<th>Signification</th>
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<td>Normal state.</td>
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<tr>
<td>Slowly blinking red</td>
<td>The Bebop 2 is booting up.</td>
</tr>
<tr>
<td>Quickly blinking red</td>
<td>A motor error is detected. To locate the defective motor:</td>
</tr>
<tr>
<td></td>
<td>1. In FreeFlight 3, press Start.</td>
</tr>
<tr>
<td></td>
<td>&gt;The screen indicates the defective motor.</td>
</tr>
<tr>
<td></td>
<td>3. Ensure the propeller is not blocked or damaged.</td>
</tr>
</tbody>
</table>


General information

The pilot must operate his/her Bebop 2 in his/her line-of-sight at all times in order to avoid any obstacles, and must take care only to use it in suitable locations chosen to ensure that people, animals and property remain safe at all times.

The internal memory for video recording is limited to 29 minutes.

Before flying your Bebop 2, check your local civil aerial regulation and read the guidelines on www.parrot.com.

Safety precautions and maintenance

The Bebop 2 is not suitable for children under 14 years of age.

The Bebop 2 is a model aircraft designed for recreational and leisure purposes. The pilot must always maintain direct visual contact with the Bebop 2 and monitor its trajectory. The Bebop 2 must be used in accordance with the civil aviation regulations in your country. You should only use the Bebop 2 in open spaces so that you can ensure the safety of people, animals and property at all times. There are some public places such as train stations, airports, etc., and roads where you may not be permitted to use your Bebop 2.

During flight, the propellers of the Bebop 2 can cause injury to people and damage property.

Do not touch the Bebop 2 while it is in flight! Wait until the propellers have completely stopped before handling the Bebop 2.

Only use accessories specified by the manufacturer.

Irreversible damage may be caused if sand or dust get into the Bebop 2. Should this occur, your drone may not function as intended.

Do not use the Bebop 2 in adverse weather conditions such as rain, strong winds, and snow, or in poor visibility conditions, for example, at night.

Keep the Bebop 2 away from high voltage power lines, buildings or any other potentially dangerous areas.

Do not use this device near liquids. Do not land the Bebop 2 on water or any wet surface as this may cause irreversible damage.

Avoid subjecting the Bebop 2 to any sudden significant changes in altitude. Do not leave the Bebop 2 in sunlight.
Risk of ingestion of small parts. The packaging is not part of the product and should be disposed of for safety reasons.

Warning on invasion of privacy

Recording and circulating an image or the voice of a person without their consent could constitute an infringement of their image and privacy rights and incur your liability. Ask for consent before filming people and recording their voices, particularly if you want to keep your recordings and/or share them on the Internet.

Do not share any degrading images or sounds which could undermine the reputation or dignity of an individual.

Warranty

For warranty conditions please refer to the retailer’s General Conditions of Sale where you purchased your Bebop 2.

Wi-Fi

Before flying the Bebop 2, please ensure that you comply with the Wi-Fi frequencies restrictions of your place of flight. Certain frequencies may be restricted or forbidden. For example, in certain countries using the 5 GHz Wi-Fi band may be prohibited in outdoor mode.

Modifications

The explanations and specifications in this guide are given for information purposes only and may be modified without prior notice. They are deemed to be correct at time of going to press. The utmost care has been taken when writing this guide, as part of the aim to provide you with accurate information. However, Parrot shall not be held responsible for any consequences arising from any errors or omissions in the guide, nor for any damage or accidental loss of data resulting directly or indirectly from the use of the information herein. Parrot reserves the right to amend or improve the product design or user guide without any restrictions and without any obligation to notify users. As part of our ongoing concern to upgrade and improve our products, the product that you have purchased may differ slightly from the model described in this guide. If so, a later version of this guide might be available in electronic format at Parrot’s website at www.parrot.com.
Disposal of this product at the end of its life

At the end of this product’s life, please do not dispose of this product in your general household waste. Instead, in order to prevent possible harm to the environment or human health from uncontrolled waste disposal, please dispose of this product separately in accordance with your local laws and regulation. For more information on the separate collection systems for waste electrical and electronic equipment that are available for consumers, near your home, free of charge, please contact your local municipality authority. You can also contact the retailer from which you purchased your Bebop 2 he might have put in place recycling services or he may be part of a specific recycling scheme.

Declaration of conformity

This equipment may be operated in: DE, AT, BE, BG, CY, HR, DK, ES, EE, FI, FR, GR, HU, IE, IT, LV, LT, LU, MT, NL, PL, PT, CZ, RO, GB, SK, SI, SE.
The restriction concerns only the first sub-band of the 5 GHz band (5150-5250 MHz) for an outdoor use within the member states of the European Union.
Parrot Drones SAS, 174 quai de Jemmapes, 75010 Paris, France, declare under their sole responsibility that the product described in this user guide complies with technical standards EN 301489-1, EN 301489-3, EN 301489-17, EN 62311, EN300328, EN301893, EN300 440-2, EN71-1, EN71-2, EN62115, EN50581 following the provision of the Radio Equipment, Telecommunication Equipment directive (1999/5/EC R&TTE), and of the General Safety directive (2001/95/EC) and of ROHS directive 2011/65/EC.
http://www.parrot.com/uk/ce/?bebop-2

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Google Play and Android are Google Inc. brands.
Wi-Fi® is a Wi-Fi Alliance registered brand.
All other brands mentioned in this guide are protected and the property of their respective
owners.