PARROT BEBOP-PRO THERMAL
THE ALL-IN-ONE DRONE SOLUTION
FOR THERMAL IMAGING

Parrot Bebop-Pro Thermal is an all-in-one quadcopter thermal imaging solution specifically designed for small construction businesses, thermal inspection professionals and public safety services.

This solution is enriching **Parrot Professional** range of business solutions launched earlier this year with **Parrot Disco-Pro AG** & **Parrot Bebop-Pro 3D Modeling**, and more recently with **Parrot Bluegrass**.
Indeed, 2017 has already been a significant and busy year for **Parrot** with the launch in Q2 2017 of **Parrot Professional** range (that gathers its consumer and commercial technologies, giving access of drone intelligence to small business and independent users) and just last month refreshes to the **Parrot Consumer** range (Parrot Mambo FPV & Parrot Bebop 2 Power).

With **Parrot Bebop-Pro Thermal**, **Parrot** is once again affirming its commitment to innovating solutions for business, with UAV's, sensors and software carrying a new level of precision data which can be plugged into existing industry workflows. **Parrot Business Solutions** is changing the way numerous industries work and helping improve ROI, efficiency and productivity.

Parrot Bebop-Pro Thermal is a multipurpose quadcopter that allows construction and rescue services to safely carry out inspections with its 2 embedded cameras: video camera and thermal imaging camera.
With its front full HD video camera this solution helps the construction user or rescue service to visually monitor a structure or a specific area, while the thermal camera enables to get precise and detailed thermal images thanks to the dedicated **FreeFlight Thermal** app.

Parrot Bebop-Pro Thermal is a compact user friendly integrated solution; it is easy to set up, easy to fly and easy to repair. Enabling the user to live stream or record videos and take pictures of buildings, roofs, solar panels or specific areas in visual or thermal image mode. Quickly providing safe and highly accurate information and data identifying thermal loss or thermal activity supporting key decision making.

Parrot Bebop-Pro Thermal solution includes:
- A compact quadcopter with a **Full HD stabilized front facing camera, a FLIR ONE® Pro** thermal camera and a 32Gb **memory**
- **Parrot FreeFlight Thermal** app, which innovatively transmits and analyses images captured by the quadcopter's cameras
- A long range remote control **Parrot Skycontroller 2**

Parrot Bebop-Pro Thermal: a reliable and powerful quadcopter

Parrot Bebop-Pro Thermal is based on the all new **Parrot Bebop 2 Power** quadcopter, which has been modified to benefit professionals.
Lightweight and compact, the quadcopter can be easily carried on any site, and is ready to operate in minutes. Thanks to the **Parrot Skycontroller 2's** long range, the pilot can control the drone very precisely from a safe distance from a hot spot without any risk[1].
Images are captured by the **Parrot Bebop-Pro's Full HD 14MP** front camera and the thermal camera positioned in a dedicated module at the back of the drone.

Parrot FreeFlight Thermal: Analyses and reveals thermal contrasts

In addition to the access of the **Parrot Bebop-Pro Thermal** settings and flight parameters, the **FreeFlight Thermal** app streams images from both cameras (front and thermal) directly to a connected tablet. At any time during flight, the pilot can switch from a thermal image to a HD image, record video footage, and store captured content to the drone's **32GB** memory.

- **Thermal imaging**
  Lightweight (36.5 gr) and compact, the thermal camera is equipped with **two sensors**. This includes a **RGB** sensor (1440x1080p), capturing what the drone can visibly see, and **a thermal sensor** (160x120p), which measures temperature differences.

  Data from both sensors are combined by the **FreeFlight Thermal app** to create precise and detailed images. Edge surrounding details are highlighted in the image, areas with thermal loose or hot spots can be immediately identified. Touching one part of the connected tablet's screen will show the estimated thermal temperature captured by the sensors.

  3 imaging thermal setting modes* are available:
  - **Standard:** Thermal images, from red (160°) to blue (10°) scale are displayed, for quick identification of thermal losses.
  - **Dynamic:** The thermal color scale is adapted to the ambient temperature. This allows the user to benefit from an accurate view of the thermal losses. High temperatures are highlighted in red, and cooler temperatures are displayed in blue.
  - **Hotspot:** This mode is adapted for fire safety professionals and emergency search and rescue specialists. Only the highest temperatures recorded are highlighted and combined with the RGB image.

  *Users can play video recorded using another color scale setting and export them in a standard video format.

- **Visual inspection**

  The **Full HD 14MP** front facing stabilised camera of the **Parrot Bebop-Pro Thermal** enables a visual inspection of a building, and enables the pilot to obtain videos and pictures to understand the condition of a building. Files can be saved and used to provide evidence of a building's damage and estimate costs.

Who is the Parrot Bebop-Pro Thermal for?

Parrot Bebop-Pro Thermal is a complete and multipurpose solution perfectly adapted for **building professionals** (roofers, insulation or thermal inspection specialists'), **photovoltaic panel installers,** and **civil public safety services -** such as firefighters or search & rescue.

Parrot Bebop-Pro Thermal enables users to obtain an overview of the thermal losses of a building's facade, roof or solar panels quickly and efficiently, without the need for complex and expensive material installation (ladders, scaffolding, etc.)

Public Safety Services will be able to monitor a hot spot and, depending on results obtained, send a rescue team and materials required on site, and minimise risk.
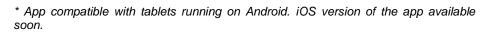

Parrot BEBOP-PRO THERMAL

Parrot Bebop-Pro Thermal pack is available during November 2017 at professional drone resellers, specialist construction resellers and at www.parrot.com.

MAP: $1,500 ex. VAT.

Parrot Bebop-Pro Thermal pack includes:
- 1 Parrot Bebop-Pro Thermal drone
- 1 FLIR ONE® Pro thermal camera
- FreeFlight Thermal* app
- 1 Parrot Skycontroller 2, long range remote control

- 3 Lithium Polymer batteries (25 minute flight time per battery[2])
- 2 chargers
- 1 back pack

* App compatible with tablets running on Android. iOS version of the app available soon.

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@Parrot

Watch the video HERE

For more info, please visit www.Parrot.com or contact:

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About Parrot Drones

Parrot Drones is a subsidiary of Parrot, founded in 1994 by Henri Seydoux.

Parrot creates, develops and markets advanced technology wireless products for consumers and professionals. The company builds on a common technological expertise to innovate and develop in three primary markets:
- Civil drones: With recreational drones and solutions for professional use.
- Connected objects: With a focus on audio and gardening.
- Automotive: With the most extensive range of hands-free communication and infotainment systems for vehicles on the market.

Headquartered in Paris, Parrot currently employs more than 700 people worldwide and generates the majority of its sales overseas.

Parrot has been listed on Euronext Paris since 2006. (FR0004038263

1 – Please check local regulations before flying.
2 – Flight time depends on weather conditions and manoeuvers.