

# Parrot®

## Consumer Electronics Show 2016 South Hall 3 – Booth #30209

CES is an occasion for Parrot to raise the veil on the technology innovations which will be released in 2016, and to illustrate its creative force and expertise on the markets of civil drones, connected objects and the connected car.

### LEISURE DRONES

- Parrot Disco – **NEW PROJECT**
  - **A flying wing to soar in immersion with the birds.** Poetry and technological power are gathered on an ultralight wing-shaped drone allowing immersive flights thanks to its integrated front camera.
- Parrot Bebop 2 - **NEW**
  - The ultralight (500g) “all-in-one” drone with integrated full-HD wide angle camera and the autonomy of 25 minutes flight time.

### PROFESSIONAL DRONES

Parrot introduces the expertise of the Group around two strong development areas:

- **Precision agriculture** with **senseFly**, **Airinov** and **MicaSense**: A high-profile offer plan combining sensors adapted to various types of harvests, mapping solutions, and advanced software solutions for the analysis of agricultural data by drones.
- **Inspection** of sites or sensitive structures with **senseFly eXom** drone and **Pix4D Capture & Pix4D Mapper** software solutions.

### CONNECTED OBJECTS

- Parrot Pot – **Available in 2016**
  - **A smart pot for plants.** A gardener robot that measures the parameters critical to plant’s growth while managing watering autonomously!
  - **Flower Power 2.0:** an entirely redesigned application with a library of more than 8,000 plants.

### AUTOMOTIVE

- **Parrot Simple Box:** The car receiver 2.0 is deeply linked to your smartphone for an optimal and consistent experience.
- **Smart Antenna:** The multi-radio tuner powered by Ethernet simplifies infotainment.

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For more information, please contact:

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## Parrot Disco: You are a bird



Parrot Disco is an ultra-light wing-shaped drone. Controlled by autopilot, it is very easy to fly.

The sleek form and lightness (- 700gr) of *Parrot Disco* were designed to enable it to take flight as gracefully as a bird.

*Parrot Disco* is the first wing-shaped drone that you can pilot with no learning process.

Its auto-pilot and its many sensors (*accelerometer, gyroscope, magnetometer, barometer, Pitot, GPS*) permanently control its flight.

The take-off is automatic. You just throw the flying wing; it gains its altitude autonomously, and turns in the sky until you take control of it.

During the flight, the autopilot prevents any false maneuver which could bring the flying wing down. *Parrot Disco* is as easy to pilot as playing a video game.

*Parrot Disco* can reach the speed of **80 km/h (49.7 mph)**, without losing its stability.

*Parrot Disco* pilots with Parrot Wi-Fi controller '**Parrot Skycontroller**' or a standard RC remote control.

*Parrot Disco* is equipped with a **front camera** making for an immersive flight experience with exceptional point of view! With **Parrot Skycontroller**, you can connect FPV glasses to have a "the head in the clouds" view.

With in-App **Flight Plan**, *Parrot Disco* does autonomous flight. It maneuvers with grace, flexibility and offers a flight time of almost **45 minutes!**

Discover the video [HERE](#)

#FlyDiscoDrone  
Availability: 2016 - MSRP: N/A

## Parrot POT: The robotic connected pot, indispensable friend to your plant!



*Parrot POT is a robotic pot which measures and analyzes the parameters critical to plants' growth. It takes care of everything: it waters the plant when necessary and notifies you when your plant needs more light.*

*Connected via Bluetooth Smart to your smartphone or tablet, Parrot POT will allow you to visualize and act on your connected plant via the dedicated application, Flower Power 2.0!*

*Available in 2016*

### **Parrot POT understands your plants**

**Parrot POT** is a wireless robotic pot for indoor or outdoor use and designed to resist difficult climatic situations (rain, heat, cold...: from -10°C / 14°F to +55°C / 131°F).

Full of sensors, **Parrot POT** measures in real time and with precision, data essential to the good health of the plant including: **soil moisture, fertilizer, soil temperature, ambient temperature and light intensity.**

These data points are recorded every fifteen minutes and transmitted (every two hours) to the Parrot Cloud for analysis.

This analysis allows the **POT**:

- **To manage the watering of the plant** thanks to its water reserve...
- **To alert the user in real time**, on his smartphone or tablet, to the **immediate actions needed**, like adding fertilizer or moving the plant for optimum light;

Note: When the pot is not linked to the Flower Power 2.0 App, it still manages the automatic watering by applying the median parameters which are appropriate for the majority of plants.

## Parrot POT takes care of your plants

**Parrot POT** is equipped with a 2.2L water reserve and with an irrigation system with four separate spouts, for consistent watering of the plant.

From the Flower Power 2.0 application, you choose the watering mode desired for your plant:

- **'Perfect Drop'**: The **Pot** manages autonomously the watering of the plant, including its water consumption, and automatically adapts according to its needs. The plant will always receive the right quantity of water, at the right time.
- **'Plant Sitter'**: The pot regulates the consumption of its water reserve in order to ensure up to one month of watering, without monitoring nor intervention from you. Ideal during vacation to maintain your plant's good health while you are away.
- **Manual**: You start watering with a click in the App. Your Pot blinks red when the reserve is empty.
- **'Expert'**: You define the rhythm of watering and the level of moisture of your plant.  
Three parameters are to be indicated in the application:
  - The triggering threshold of watering (in soil moisture rate)
  - The target threshold after watering (in soil moisture rate)
  - The time, in number of hours, before triggering the watering (once the triggering threshold is reached).



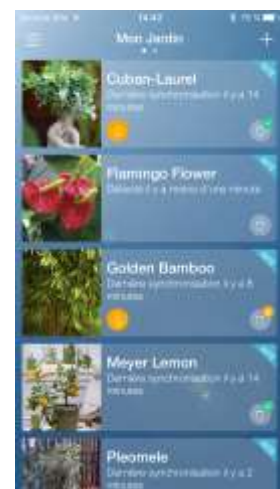
When the level of the water reserve becomes low, a red indicator blinks on the pot and a notification push is sent via the application to the smartphone/tablet in close proximity.

## Flower Power 2.0 App: your gardening assistant

**Parrot POT** is accompanied by a free application, **Flower Power 2.0**, for iOS and Android smartphone and tablets.

This application makes it possible to visualize and manage your connected garden and gives access to rich contents and expert advice for the maintenance of plants.

- **A very complete botanical encyclopedia**  
You select the plant to be monitored from a library of **8,000 plants**.
  - Scalable, this plant database has been developed with botanists and scientists, notably the Laboratories of Wageningen University in the Netherlands, and is regularly updated.
 Each plant has its ID card: photos, origins, basic needs, practical advice and recommendations (for example, the required type of fertilizer).
- **Your connected garden accessible in a flash**  
When opening the application, the list of your connected plants appears and for each one, you visualize if it is 'nursed' by a **POT** (or monitored by a **Flower Power** wireless sensor).  
You can **consult in real time the data collected for each plant**, in clicking on the icon corresponding to each parameter which will appear in green (all is well), orange (to be watched) or red (immediate action to be done).



Like a **dashboard**, the application enables you to act on your plant's parameters, like trigger an instantaneous watering or define/modify the irrigation mode of a given plant.

- **Fertilizer, ambient temperature and light intensity** are represented in the form of gages;
- **Soil moisture** is represented with a transparent cross-section of the Pot, which also enables you to check the quantity of water remaining in the reserve.



## Tested by universities and research centers

In order to ensure the greatest reliability of the **POT**, its sensors as well as the adapted and automated watering, Parrot called upon universities, botanists and scientists, notably The Research Center of Wageningen University in the Netherlands and the Center of Urban Horticulture at Washington University in the United States, so that they can collaborate with its engineers and subject the **POT** to real and extreme conditions.

70 **POT** were tested and are still tested over periods from 1 to 2 months according to the criteria to be studied, and the tomato, basil, olive-tree, lemon tree, ficus benjamina... are among the plants having taken part in these tests.

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- Discover the Parrot POT videos:
  - [Gardening for the forgetful](#)
  - [Gardening for perfectionist](#)
  - [Gardening for the very busy](#)
- Availability: 2016
- Colors: Slate gray, Porcelain white, and Brick
- MSRP: \$99 USD
- Points of sales: [www.parrot.com](http://www.parrot.com)
- #ParrotPotCares



For more information on **Parrot POT**, visit [www.parrot.com](http://www.parrot.com), or contact:

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### ABOUT 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 quadricopters 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 900 people worldwide and generates the majority of its sales overseas.

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

For more information, please visit [www.parrot.com](http://www.parrot.com)

Colors	<ul style="list-style-type: none"> <li>• Slate gray</li> <li>• Porcelain white</li> <li>• Brick</li> </ul>
Dimensions & Weight	<ul style="list-style-type: none"> <li>• Height : 298 mm / Diameter : 206 mm</li> <li>• Weight : 1.5 kg</li> </ul>
Alimentation & Autonomy	<ul style="list-style-type: none"> <li>• 4 AA batteries</li> <li>• More than 12 months autonomy</li> </ul>
Capacity	<ul style="list-style-type: none"> <li>• Water tank: 2.2 L</li> <li>• Soil pot: 2.4 L</li> </ul>
Utilization	<ul style="list-style-type: none"> <li>• Indoor and outdoor</li> <li>• Water Resistance IPx5</li> </ul>
Sensors & Measures	<ul style="list-style-type: none"> <li>• Capacitive sensor for soil moisture: from 0 to 50 (%)</li> <li>• Conductive sensor for fertilizer (from 0 to 6 dS/m)</li> <li>• Light sensor: 0 to 1'000 umole x m<sup>-2</sup> x s<sup>-1</sup></li> <li>• Ambient temperature sensor (from -10° to +55° C // from 14°F to 131°F)</li> <li>• Soil temperature sensor (from -10° to +55° C // from 14°F to 131°F)</li> </ul>
Compatibility	<ul style="list-style-type: none"> <li>• Bluetooth Smart (<i>compatibility Bluetooth 4.0 and more</i>)</li> <li>• iOS and Android Smartphones and tablets</li> </ul>
Application	<ul style="list-style-type: none"> <li>• Parrot Flower Power 2.0</li> <li>• Application compatible with Parrot Flower Power sensors already in use (data are transferred) <ul style="list-style-type: none"> <li>◦ <i>The automatic watering can work without the App: the parameters which are appropriate for the majority of plants will then be applied.</i></li> </ul> </li> </ul>

## First steps with Parrot POT

### Install your plant.

First, remove the central part (soil pot) of the **POT** and remove the tab to activate the 4 AA batteries that are already inserted.

To repot your plant:

- Put soil in the  $\frac{3}{4}$  of the pot.
  - **Note:** *The botanical encyclopedia available from Flower Power App can give you advice on the fertilizer adapted to your plant.*
- Put your plant in the center, vertically.
- Fill the empty parts with soil (do not put soil above the "Max" mark).
  - *Make sure you tamp the soil correctly in order for the plant to be correctly held and for the water to spread well.*
- Fill the water tank (2.2 L max).

### Indicate to your POT the plant it will monitor.

Download the free Flower Power 2.0 application on your iOS/Android smartphone or tablet.

Create a plant:

- Indicate if the **POT** is inside or outside, and then enter the common or scientific name of the plant.
  - *If you don't know its name, a ranking by plant popularity or simple questions about its characteristics will help you identify it.*
- Activate Bluetooth and associate the plant with your **POT**.

### Go about your business... Parrot POT takes care of everything.

**Parrot POT** sensors record the first data after 15 minutes of activation. (The first analysis will come after 24 hours.)

Thanks to the application and the **POT's** knowledge of the plant it is taking care of, it will be able to precisely adapt the watering to the plant needs and give it the right quantity of water at the right time. The **POT** will also be able to analyze the parameters crucial for a healthy growth of the plant in order to provide you with astute and appropriate advice and recommendations.

- **BONUS!** *If the POT is not linked to the application, it will be able to manage the automatic watering of your plant by applying the parameters which are appropriate for the majority of plants. When the level of the water reserve becomes low, a red indicator blinks on the POT.*