

«Rationale»  
PHYSICAL CHARACTERISTICS: as it names implies, this part of the document must include a qualitative and quantitative description of the physical characteristics of the system. It must include:

- Physical Requirements: Include constraints on weight, volume and dimension. Include the construction characteristics of where the system will be installed, requirements for materials to be used in the item or service covered by this specification.
- Adaptability Requirements: Definde requirements for growth, expansion, capability and contraction. Include a description of futures lines of development of the system and how the current system could adapt this changes.

PHYSICAL CHARACTERISTICS  
Version 1.0, Dec-12-2016  
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Physical Characteristics

Physical Requirements

Adaptability Requirements

«Requirement»  
Positioning System  
id=PC1.1.1  
text=Drone shall have GPS.

«Requirement»  
Weight  
id=PC1.1.2  
text=Drone shall not weight more than 500 grams.

«Requirement»  
Drone Recharge  
id=PC1.2.1  
text=The base shall be able to recharge the drone battery in 5 hours.

«Requirement»  
Reliability  
id=PC1.2.3  
text=The base shall be water resistant in order to recharge the drone even when it returns wet from rain. The base shall stands impacts when the drone lands.

«Requirement»  
Increase the number of drones and destinations  
id=PC2.1  
text=The system shall be prepared for expansios for new parking maps and for new drones with no software modifications.

Drone Requirements

Base Requirements

«Requirement»  
Battery  
id=PC1.1.3  
text=Drone shall be able to fly at least for 20 minutes without returning to the base.

«Requirement»  
Drone Camera  
id=PC1.1.4  
text=Drone shall have a camera that is capable of recording video in HD resolution.

«Requirement»  
Drone measurement  
id=PC1.1.5  
text=Drone shall not be bigger than a square of 30 cm and 5 cm high.

«Requirement»  
Drone Communication  
id=PC1.2.2  
text=The base shall be able to communicate with all the drones and register their locations and destinations.