

## Test Plan for Smart Cart

## **Beta Test Plan**

The beta test plan for our final product will be divided into four parts, which conclude the hardware, software and mechanical specific requirements of proof of concepts previously defined. This test plan illustrates the methods we use to test the functionality of each of our components to check their working status. We will provide the input and expected output of each test component, so it will be easier for the testers to compare the output and leave comments.

#### **Connection Test**

Link the TesigoApp with Tesigo				
Procedure		Expected Output	Pass/Fail	Comments
1.	At the main screen of TesigoApp,	- The select Tesigo's name		
	click "Select Tesigo" button and	will be shown on the		
	Bluetooth screen will pop up	button instead of "Select		
2.	Select HC-05 (Tesigo Bluetooth	Tesigo"		
	with password "1234") then the app	- On Connection Status		
	will return to the main screen	will show the green		
3.	Click "Remote Mode" to connect	"Select Tesigo Connected"		
	the app and Tesigo	- Direction Control Panel		
		is enabled		

### Select Mode Test

Components	Procedure	Expected Output	Pass/Fail	Comments
Android App Click		- Green "Select Tesigo Connected"		
	"Remote	shows on the Connect Status		
	Mode"	- Direction Control Panel is enabled		
		- "Remote Mode" displays on mode		
	Click	- Red "Select Tesigo Disconnected"		
	"Follow	shows on the Connect Status		
	Mode"	- Direction Control Panel is disabled		
		- "Follow Mode" displays on mode		
	Click	- Green "Select Tesigo Connected"		
	"Manual	shows on the Connect Status		
	Mode"	- Direction Control Panel is disabled		
		- "Manual Mode" displays on mode		



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#### **Remote Mode Test**

Component	Procedure	Expected Output	Pass/Fail	Comments
Android App	Click "Forward"	-Status bar shows "Forward"		
& Tesigo	button	-Feedback voice: "Forward"		
_		-Tesigo starts moving forward		
	Click "Left"	-Status bar shows "Left"		
	button	-Feedback voice: "Left"		
		-Tesigo turns slightly to left and		
		revises to forward		
	Click "Right"	-Status bar shows "Right"		
	button	-Feedback voice: "Right"		
		-Tesigo turns slightly to right and		
		revises to forward		
	Click "Backward"	-Status bar shows "Backward"		
	button	-Feedback voice: "Backward"		
		-Tesigo starts moving Backward		
	Click "Stop"	-Status bar shows "Stop"		
	button	-Feedback voice: "Stop"		
		-Tesigo stops		

#### **Follow Mode Test**

Step1: User place him/herself in front of *Tesigo* by one step away and click "Follow Mode" button.

Component	Procedure	Expected Output	Pass/Fail	Comments
Kinect	User walks forward	-Tesigo moves forward		
sensor &	User walks left	-Tesigo moves to left		
Tesigo	User walks right	-Tesigo moves to right		
	User stops	-Tesigo stops		
	User gets out of the front of	-Tesigo stops		
	the cart (lost tracking)			
	User come back to initial	-Tesigo tracks the user again		
	position (step 1)			