## **Test Plan**

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| **Label** | **Description** | **Pre-condition** | **Input** | **Expected Output** | **Actual Output** |
| H\_01\_L\_01 | Check whether camera works properly | - | Power=1 | Camera ACTIVE | Camera ACTIVE |
| H\_01\_L\_02 | Check whether ultrasonic sensor works properly | - | Power=0 | Ultrasonic ACTIVE | Ultrasonic ACTIVE |
| H\_01\_L\_02 | Check whether ultrasonic sensor works properly even in the absence of camera | - | Camera =OFF  Ultrasonic=ON | Ultrasonic=ON | Ultrasonic=ON |
| H\_01\_L\_03 | Check whether both ultrasonic and camera turns on when reverse gear is applied | - | Reverse gear=active  Camera=ON  Ultrasonic=ON | Camera is Active  Ultrasonic start sensing | Camera is Active  Ultrasonic start sensing |
| H\_01\_L\_04 | Check whether adequate current and voltage levels are given to the module | - | input 5v to camera and ultrasonic | Camera start recording  ultrasonic senses | Camera start recording  ultrasonic senses |
| H\_01\_L\_05 | Check whether camera screen doesn’t get blurred | -weather change in the environment | camera view is blurred | should be cleaned | should be cleaned |
| H\_01\_L\_06 | Check whether the wire connections to both modules doesn’t come off easily | - |  | Hood=1 | Hood=1 |
| H\_01\_L\_07 | Check whether there is zero or minimal time delay between camera recording and camera view | - |  |  |  |
| H\_01\_L\_08 | Checking the battery conditions | - | battery\_input=60 | battery=60 | battery=60 |
| H\_01\_L\_09 | Check whether ultrasonic sensor senses everything inside it’s range | - |  |  |  |
| H\_02\_L\_10 | Check whether if the night vision camera is enabled at night | During Night | Camera=ON  Night mode=ON | video output | videooutput |
| H\_02\_L\_03 | Check whether the camera and ultrasound sensor turns off when trunk is lifted |  | Trunk opened | Camera=OFF  Ultrasonic=OFF | Camera=OFF  Ultrasonic=OFF |
| H\_03\_L\_01 | Check whether the buzzer beeps high when the distance to obstacle is less |  | When the target and obstacle are in close proximity | Buzzer beeps HIGH | Buzzer beeps HIGH |
| H\_01 | Check whether the buzzer beeps low when the distance to obstacle is longer | - | When the target and obstacles are not too close | Buzzer beeps LOW | Buzzer beeps LOW |
| H\_02 | Check whether the buzzer sound is heard properly inside the vehicle to warn the driver |  | Ultrasonic senses the obstacle | Buzz sound is proper | Buzz sound is proper |
| H\_02 | Check whether the buzzer sound stops when the engine shuts down |  | Engine is shut downed | No activity | No activity |
| H\_02 | Check whether the buzzer sound stops when the reverse gear is disabled |  | reverse gear INACTIVE | Ultrasonic and Camera INACTIVE | Ultrasonic and Camera INACTIVE |