

## Experimental Design with the Testbed Control Device

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### ABSTRACT:

The Australian Army has been working on incorporating a thermal camera, laser range finder, day light camera, flashlight, radio, and day sight into their current weapon platform. A problem arose when trying to control all the devices; the user had to change their attention from the environment to the weapon to manipulate the controls. Three Testbed Control Devices (TCD) were designed to mitigate this and allow the user to switch between the different additions to the weapon. An experiment was designed to test which TCD performed better. The variables were defined and different ways of measuring the variables were chosen. A scenario-based experimental design was chosen to test the variables.

KEYWORDS: experimental design, Testbed Control Device

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