Safety Verification Tests on ActLift

Stop Command Test

Objective

To verify that the revised firmware immediately terminates all current and pending movements when a Stop command is issued.

Procedure

1. Initiate AutoUp using the button on the GUI.
2. Issue a Stop command during platform motion.
3. Observe whether the stand is stopped
4. Remain static to trigger 'Wave' mode.
5. Repeat 2 and 3
6. Perform a slouch to trigger the slouch intervention
7. Repeat 2 and 3

Results

Function	Trials	Failure of Stop
AutoUp	30 (3 persons × 10 times/person)	0
Wave	30 (3 persons × 10 times/person)	0
Slouch Remind	30 (3 persons × 10 times/person)	0

Tracking Loss Test

Objective

To verify that the motorized will not have abnormal behavior when losing track of the user's head, **but** continues the previous set motion.

Procedure

1. Initiate AutoUp using the button on the GUI.
2. Block the camera.
3. Observe the stand behavior

4. Remain static to trigger 'Wave' mode.
5. Repeat 2 and 3
6. Perform a slouch to trigger the slouch intervention
7. Repeat 2 and 3

Results

Function	Trials	Abnormal Behavior
AutoUp	30 (3 persons × 10 times/person)	0
Wave	30 (3 persons × 10 times/person)	0
Slouch Remind	30 (3 persons × 10 times/person)	0