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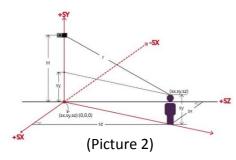
Address: 14F.-7, No.2, Jian 8th Rd., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)

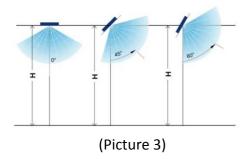


mmWave PCT FDS Document



(Picture 1)





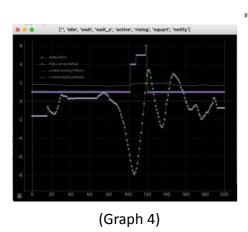
1. Physical Setup

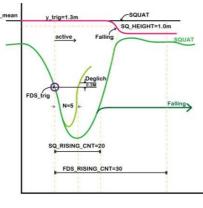
Install mmWave at 2.4m height, with 45 degree angle (see Picture 3).

- 2. Event Trigger Explanation for Single Person Detection (per Picture 1)
- 2.1 When FDS_Trigis lower than -6 (an adjustable value), starts the Event Triger CNT(counter).
- 2.2 When y_Trigis at 1.3m (and adjustable value) for floor to human height (as in SY of Picture 2);and when SQ_HEIGHT value is lower than the fixed 1.0m (see Picture 5), then entering Fall Detection checking state.
- 2.3 Concurrently will check for "Squat" state with SQ_RISING_CNT=20 (approx. 2 sec.; and adjustable value), at the same time also check ifmeeting "Fall" state with FDS_RISING_CNT=30(approx. 3 sec.; and adjustable value) as in Dark-Green Falling line (in Graph 5).

Note: As seen from Graph 5, SQ_RISING_CNT & FDS_RISING_CNT started counting at the same time.

- 2.3.1 When SQ_RISING_CNT is at CNT=20 (approx. 2sec.), and if at this point the Person stands up, then the Event will be detected as a Squat Event (not Fall Down).
- 2.3.2 when SQ_RISING_CNT is at CNT=20(approx. 2sec.), and the Person is still not standing, while FDS_RISING_CNT reached CNT=30 (approx. 3sec.), then the Event will be detected as "Fall Down" Event.





(Graph 5)

Version No :V01.01 Issued Date: 2024.04.22