

## ABSTRACT

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This research describes the architecture of build and design of safety distance detection and light intensity of automatic television using arduino based screen diagonal method .As for the function of this tool is to do prevention especially for children who are seeing watching tv too closely which that is <100 cm resulted in damage to the eye at the time watching television, providing the ideal comfortable distance information on while watching television that is 101 to 200 cm .By using ultrasonic distance sensor on a 3 point for measuring distances of human existence from the tv, as an indicator of the buzzer, and arduino uno as controller. The working of these tools is when the sensors detect a human too close from the tv, then this tool will issue voice/buzzer active informed him that human eye is in an uncomfortable position, which will damage the eye at a later date when always watch at a distance too close or not by the distance that is not recommended for the health of the human eye.

**Keywords** : Ultrasonic, Distance Comfortable Watching Televisi, Buzzer, Arduino Uno