

# Keystone Fire Brigade

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The Keystone Fire Brigade hopes to achieve the following four goals in their first appearance at the RoboCup Rescue competition: (a) show rudimentary localization capabilities, (b) detect victims solely based on vision information, (c) test the motion capability of the robots in the orange and red zones, and (d) perform a systematic search of the yellow zone.

The Keystone Fire Brigade use a small CMOS camera and Thomas Braunl's Eyebot controller [?]. The Eyebot controller consists of a 35 MHz 68332 processor with 2 MB of static RAM. The design is clearly dated nowadays, but has the advantage that they are comparatively cheap and provide the possibility of directly connecting a CMOS camera to the processor. Furthermore, they provide the necessary interface to connect motors, servos, gyroscopes, and many other sensors directly to the controller.

The 4 Stooges use a commonly available Tamiya twin gearbox and off road tires for locomotion. This makes the mechanical platform very inexpensive.

