Rook Fire Safety

Safety net system - mesh networking

The **Rook** fire safety system uses a mesh network system, in order to alert users to danger faster. The mesh network gives each device the ability to signal the alarm, without relying on a central control body.

This also ensures that the alarm will sound, even if one of the devices has failed.

Use Scenario 1 - False alarm (Toaster has set it off)
- Toast is burnt
- Every alarm in the house sounds
- User sees it's just the toast (again)
- User presses the Castle's omni-button
- Alarms silenced for 5 minutes
- Peace is restored

Use Scenario 2 - Weekly testing
- App notifies user that system is due a test
- User presses the Castle's omni-button
- Each alarm signals in sequence
- App reports no problems
- System is safe

Use Scenario 3 - House fire at night
- Time: 2:30am, user's asleep
- Fire starts in the living room
- Watchtower detects smoke
- Watchtower triggers all alarms
- Keep (bedroom alarm) wakes users up
- Users have time to contact the fire brigade and evacuate safely

Danger Detected
Downstairs Watchtower