

Smart Home Intercom System

When each device is powered on, they will automatically connect to one another via a mesh network implemented through BATMAN. This ensures a secure, internal transmission of data so that video and audio streamed between nodes is protected.

Features:

- Should successfully initialize and launch application once powered on
- Ability to stream video and audio to individual nodes by selection
- Ability to know which rooms are occupied so that the right one can be paged
- Mesh network to keep data safe and disconnected from the Internet
- Easy to use interface

Common How-tos:

1. Page a certain room for video and audio streaming.

From the home screen, select the video page button, this will start a stream with audio and video to the selected room within the Options menu.

2. Page a certain room with video streaming disabled (audio only).

From the home screen, select the audio page button, this will start a stream with audio only to the selected room within the Options menu.

3. Page the last occupied room.

This is done by default. In order to page a different room, it needs to be selected.

Known issues and resolutions:

The Smart Home Intercom system is still in early stages of development, and there are some known issues that have not been fixed. However, this section will provide detail on how to resolve them.

Problem: Application closes or otherwise crashes, or is unable to connect with other nodes.

Solution: Rebooting the individual system should resolve this issue, setup will be performed again.

Problem: Video streaming is latent or has low FPS.

Solution: This is an existing bug that needs to be fixed. It is possible that high CPU usage is contributing, and rebooting the system may help.

Problem: Screen no longer outputs any visual information.

Solution: The cable for video feed may have come loose. This can be resolved by reinserting the cable.