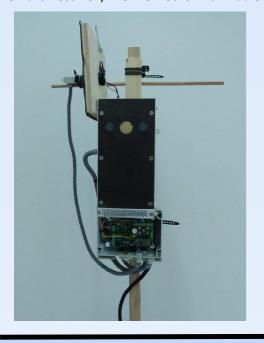
# Multifunctional Mainboard to Observe and Manipulate Organisms (MOMO) Audio Application

# Automating the recording and manipulation of animal behavior

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Smart Nest Box, MOMO Board with Audio



Audio Board with FN-RM01
Audio Recorder and Player Module



Speaker and microphone on top



## **APPLICATIONS OF THE MOMO (Audio):**

- Targeted manipulation of 1000 and more individuals
- The Audio is combined to play and record audio files over time
- Could be used in other settings e.g. nesting or roosting areas to collect audio data.



**MOMO Circuit Board** 

#### **POSSIBLE CONFIGURATION SETTINGS:**

Operating time of the Audio [hour:min]

ON\_TIME = 04:00 OFF\_TIME = 23:00

RFID settings [sec]

RFID\_TYPE = SR # Short Range reader RFID\_POWER = UA1 # 5V output RFID\_ABSENT\_DETECT\_TIMEOUT = 5

## **Audio configurations**

### **Duration in seconds**

ID = 0123456789012345:{PLAYBACK}:{RECORD}

ID = 0123456789012345:20:20 Combined: first 20 sec. playback

second 20 sec. record

ID = 0123456789012345:20:0

20 sec. playback

ID = 0123456789012345:0:20

20 sec. record



