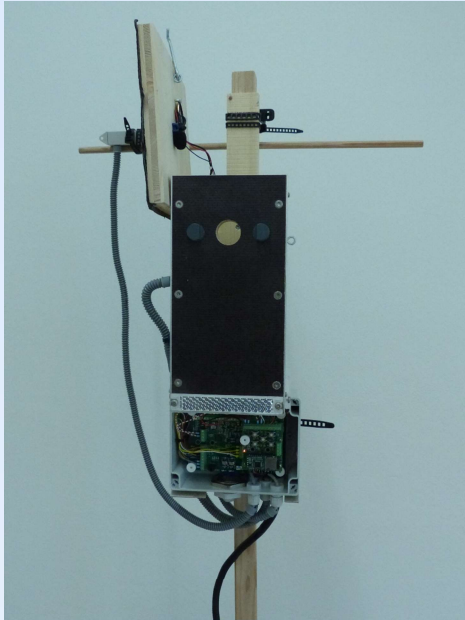


Multifunctional Mainboard to Observe and Manipulate Organisms (MOMO) Audio Application

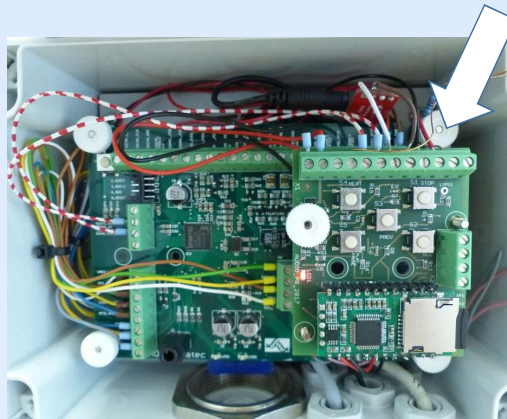
Automating the recording and manipulation of animal behavior

Peter Loës & Peter Skripsky
Department Kempenærs

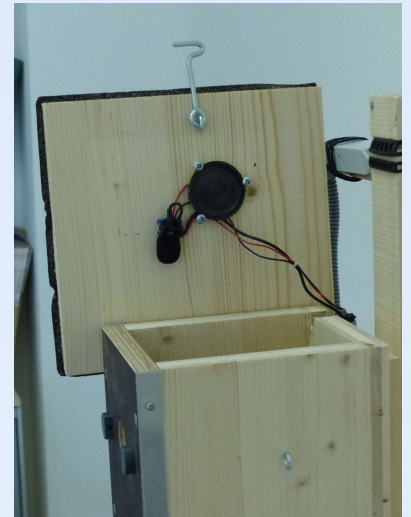
Smart Nest Box, MOMO Board with Audio



Audio Board with FN-RM01
Audio Recorder and Player Module

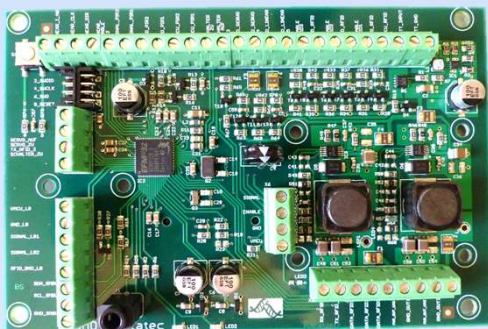


Speaker and microphone on top



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