

Timed Animal Manipulation Data Logger (TAMDL)

Automating the recording and manipulation of animal behavior

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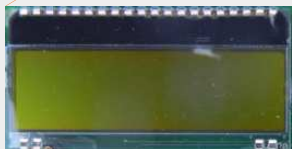
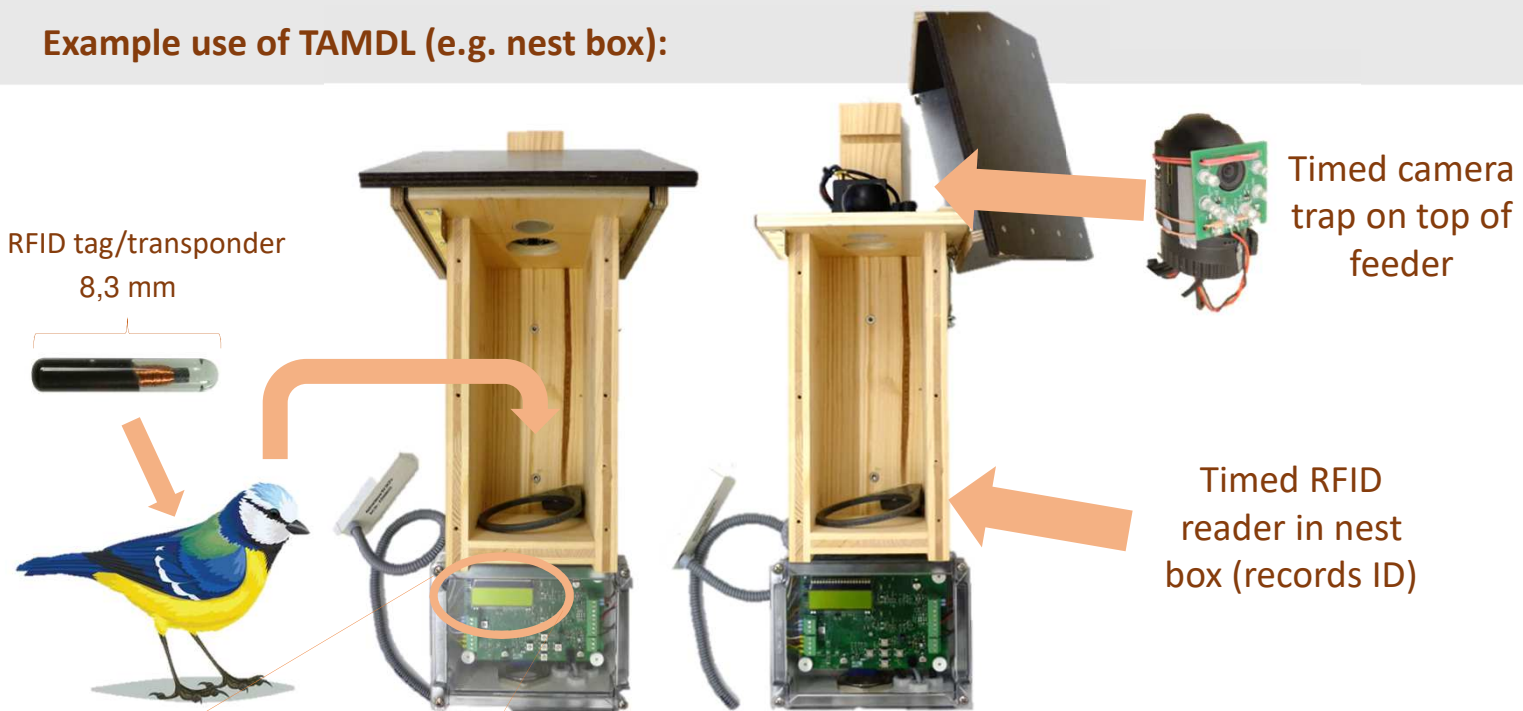
Uses of TAMDL:

- Timed activation of devices such as solar panels, automatic feeders, animal traps, and other electronic devices
- Ideal for nest boxes, roosting boxes, and open nests
- Can be combined with many external triggers such as pit tag (RFID) readers, camera traps, light barriers, lights, etc.
- Manipulation of organisms at e.g. simulating early light/dawn with timed lights in nest boxes

Benefits of TAMDL:

- Automated device → no observer bias, accurate recording, minimal disturbance to study species
- Only uses sleep and deep sleep mode to save battery life
- Large SD card data storage
- Timer connected to external devices (e.g. camera trap) lets you control the amount of data collected and energy output

Example use of TAMDL (e.g. nest box):



LCD can be used to view settings (pushbuttons on the circuit board to go through different settings)

180327 23:58:10
{Info - Area}

Example Timer Setup:

Operating times for UA1 output [hour:min] → Camera Trap

UA1_ON_TIME_1	= 23:00
UA1_OFF_TIME_1	= 00:00
UA1_ON_TIME_2	= 05:00
UA1_OFF_TIME_2	= 06:00
UA1_ON_TIME_3	= 11:00
UA1_OFF_TIME_3	= 12:00
UA1_ON_TIME_4	= 17:00
UA1_OFF_TIME_4	= 18:00

Operating times for UA2 output [hour:min] → RFID Reader

UA2_ON_TIME_1	= 09:00
UA2_OFF_TIME_1	= 11:00