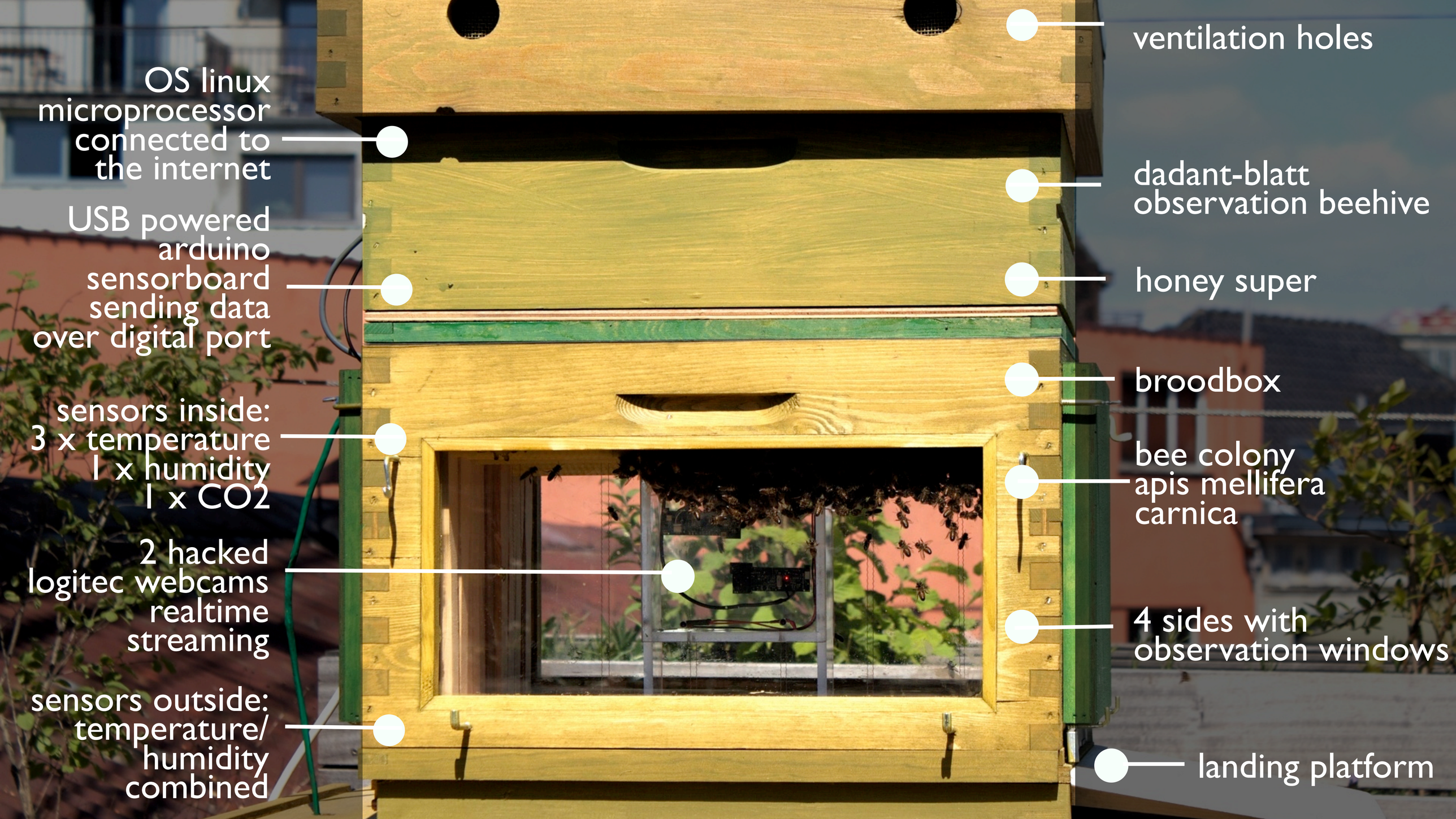
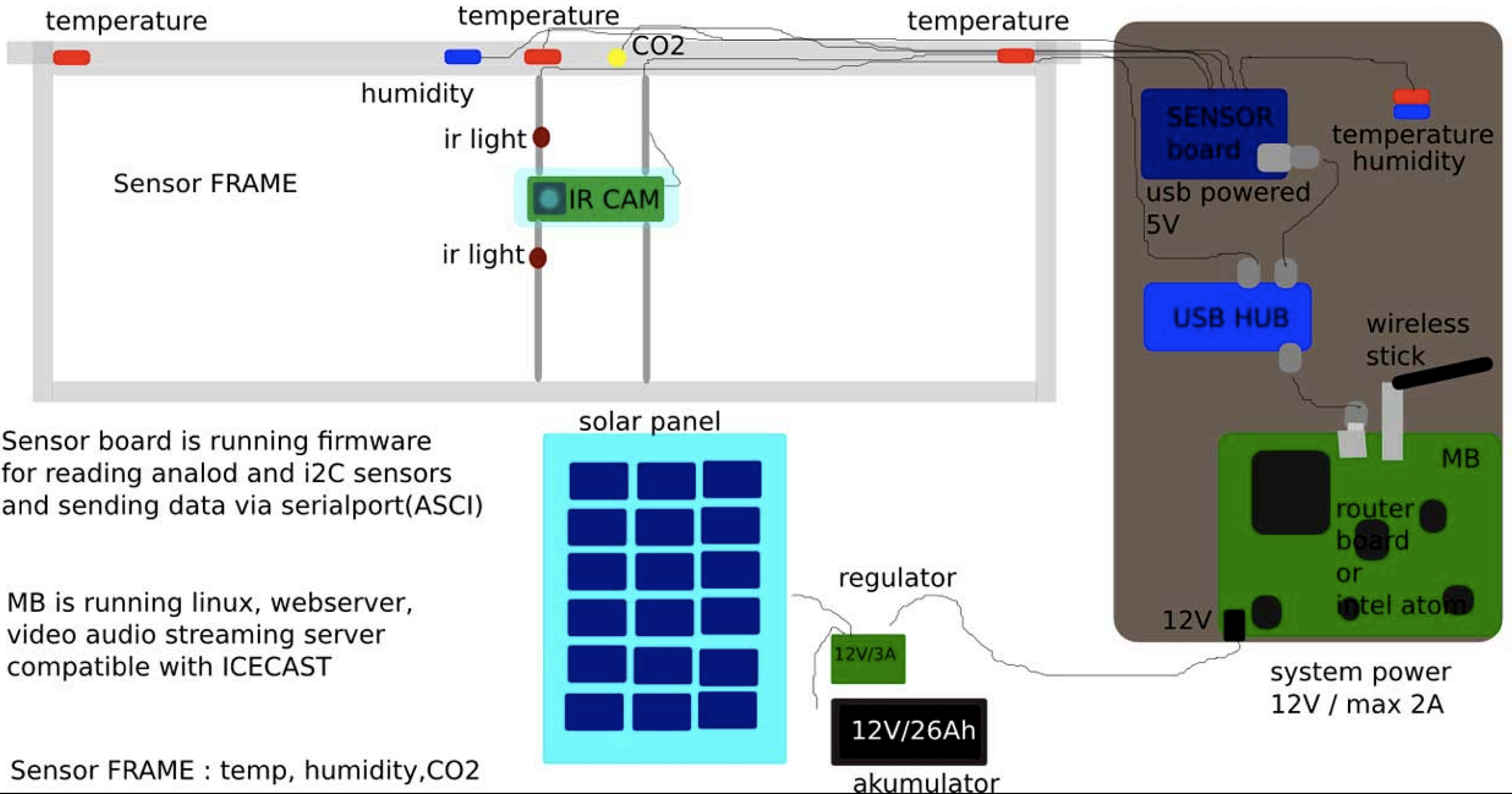
OpenGreens
bee monitoring

DO NOT
OPEN
TILL
MONDAY
THX!
BEES ARE ACCLIMATISING
TO THEIR NEW HOME


OS linux microprocessor connected to the internet
USB powered arduino sensorboard sending data over digital port
sensors inside: 3 x temperature 1 x humidity 1 x CO2
2 hacked logitec webcams realtime streaming
sensors outside: temperature/ humidity combined
ventilation holes
dadant-blatt observation beehive
honey super
broodbox
bee colony apis mellifera carnica
4 sides with observation windows
landing platform

BEE HIVE SENSOR FRAME + SYSTEM

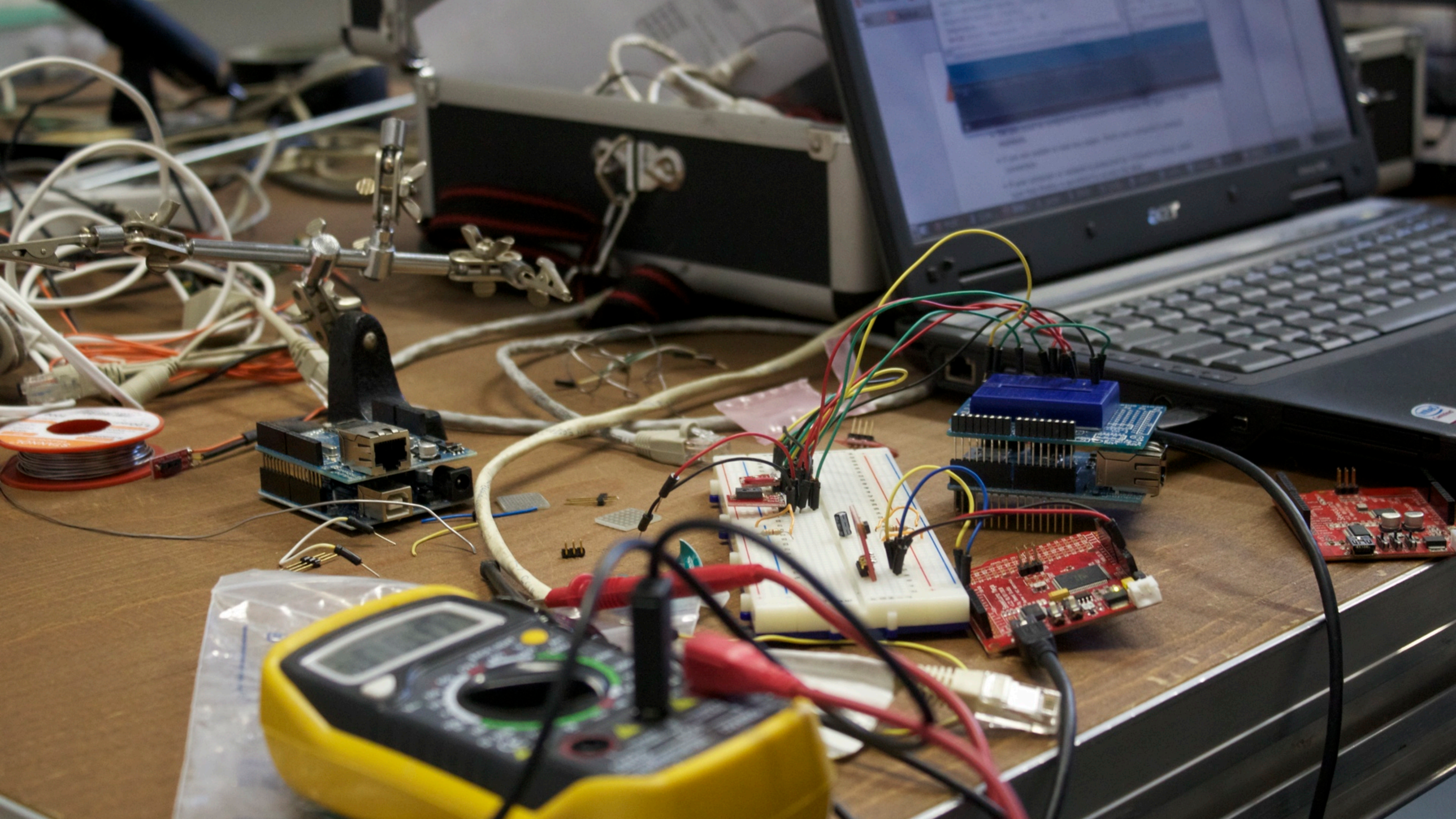


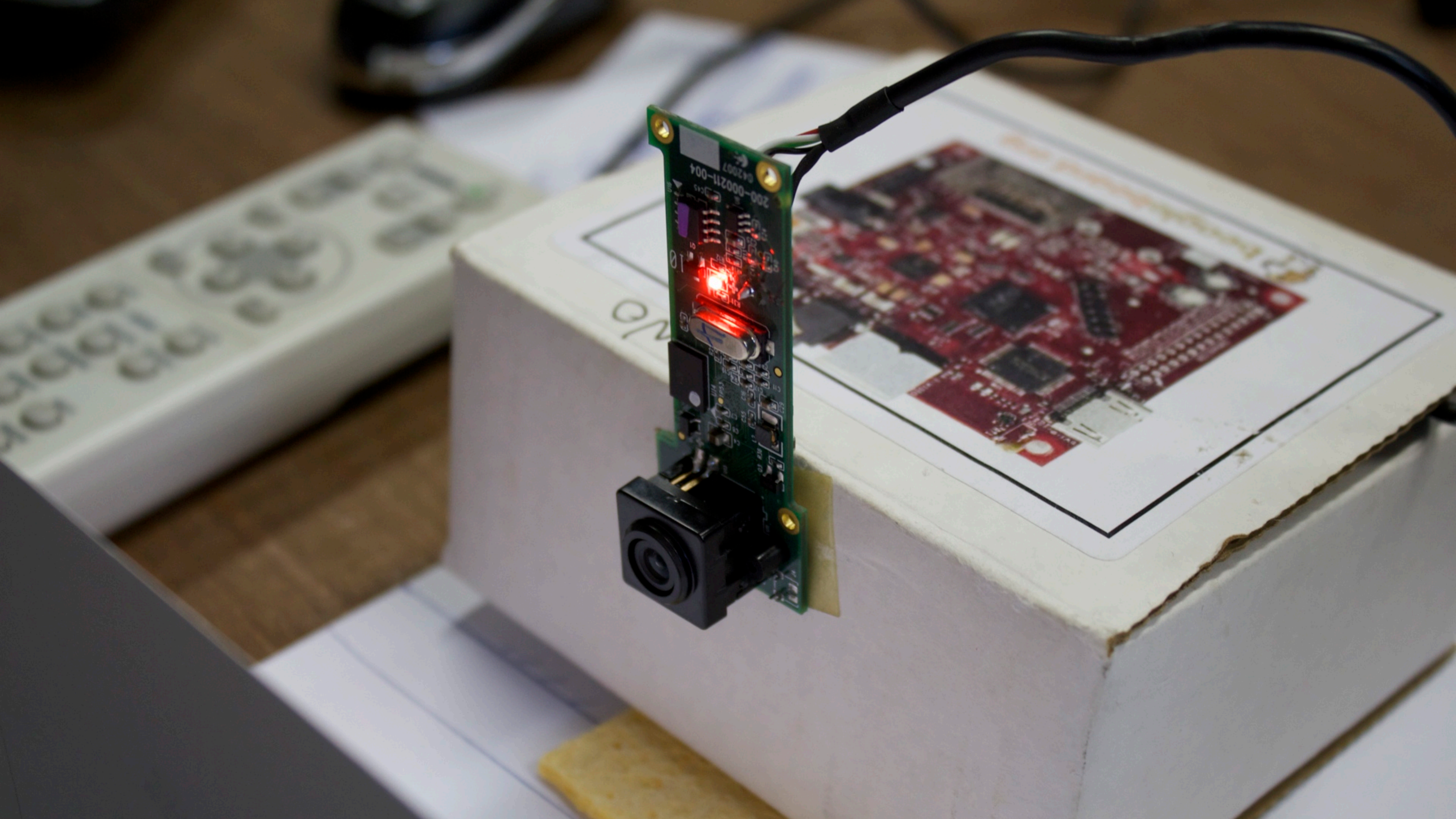
Sensor board is running firmware
for reading analod and i2C sensors
and sending data via serialport(ASCI)

MB is running linux, webserver,
video audio streaming server
compatible with ICECAST

Sensor FRAME : temp, humidity,CO2

VĚŘÍME
V KRIZI!!
SPA
JVC

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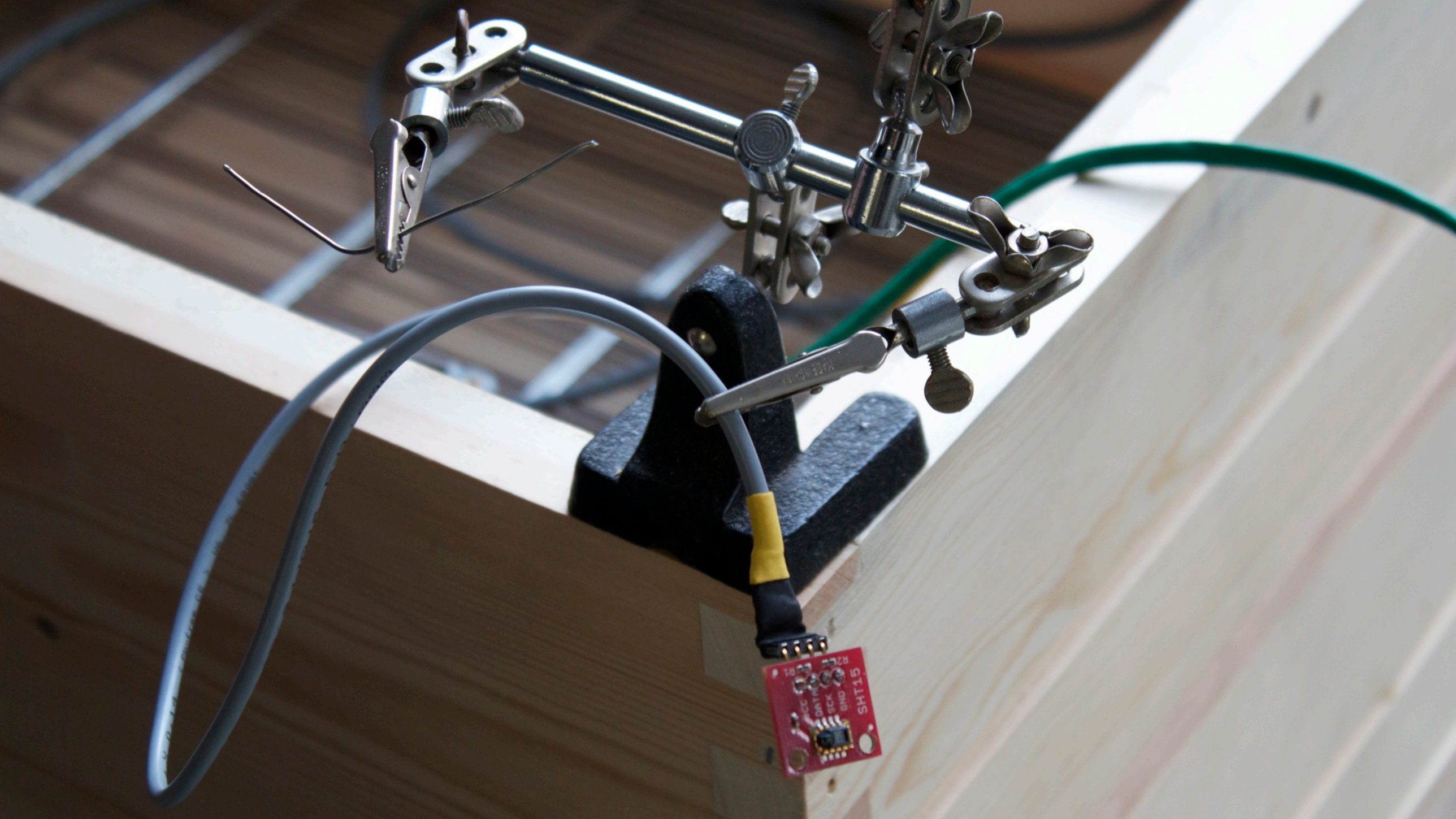
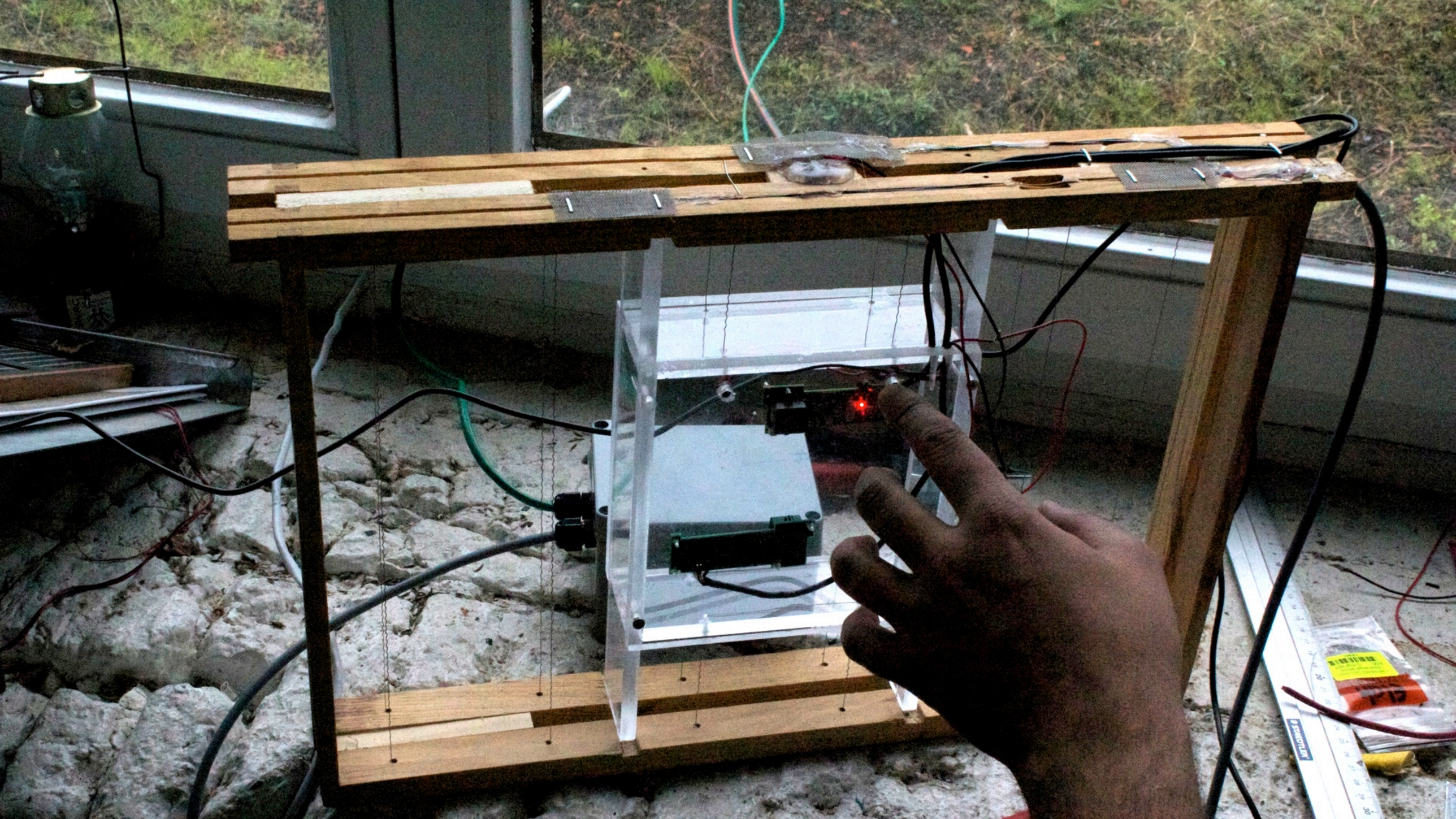
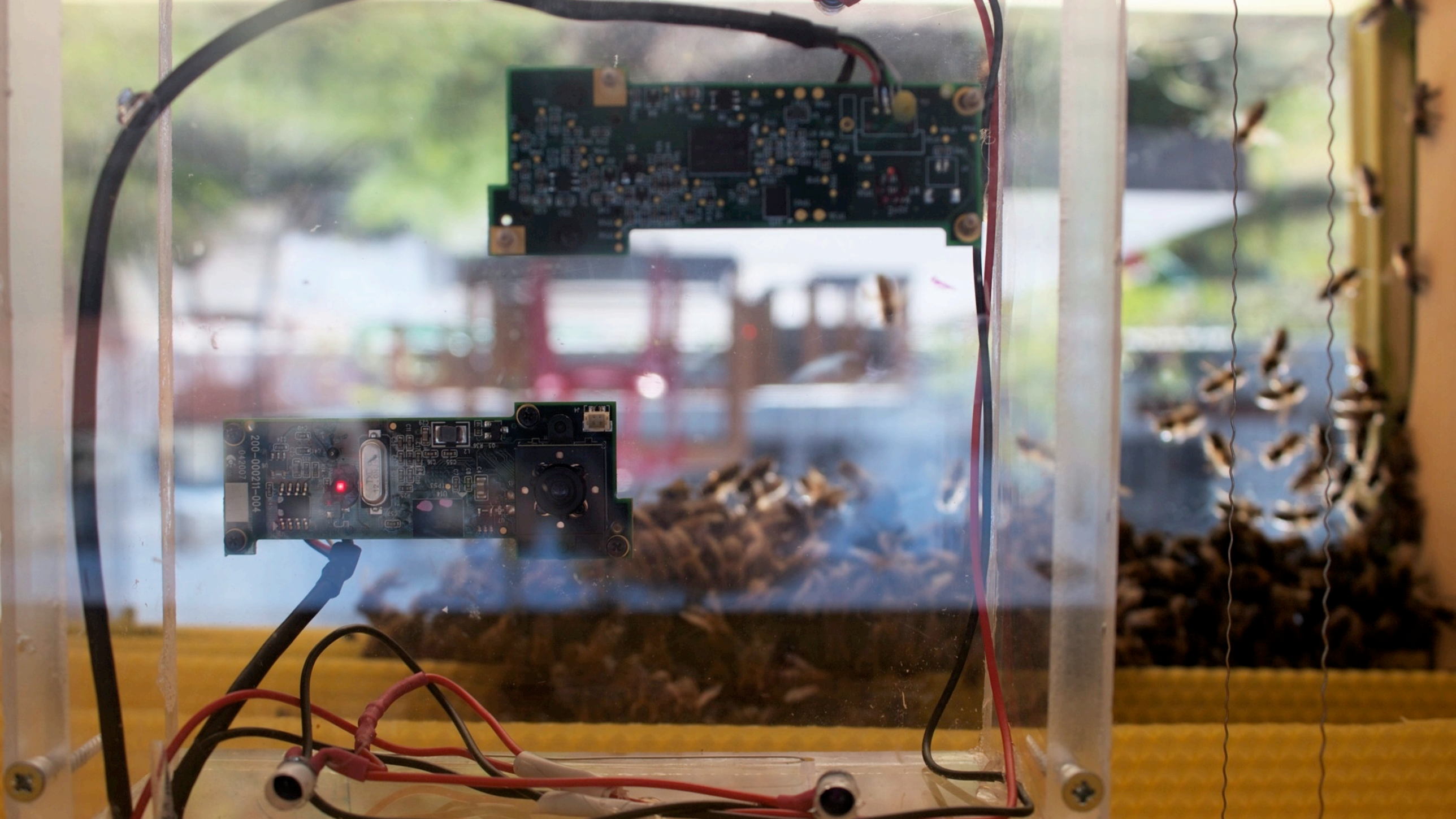

SCK
GND
SHT15

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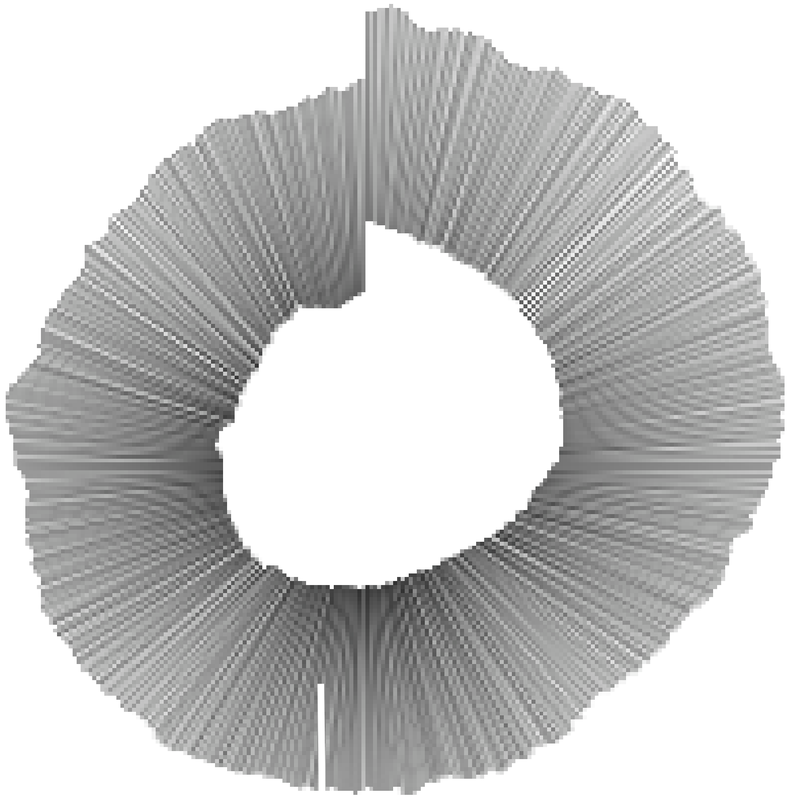
camera 2

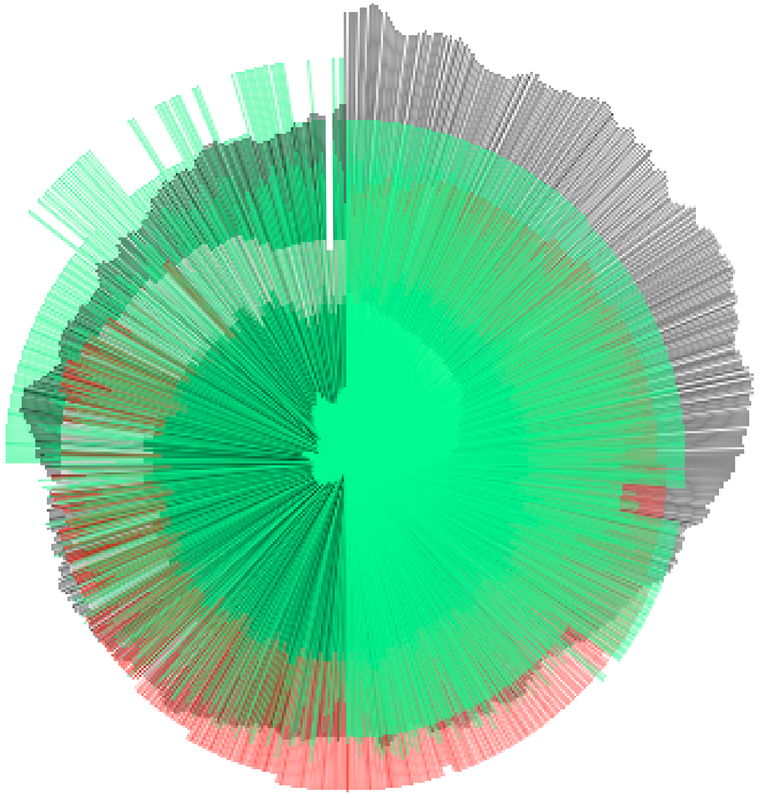
rear view

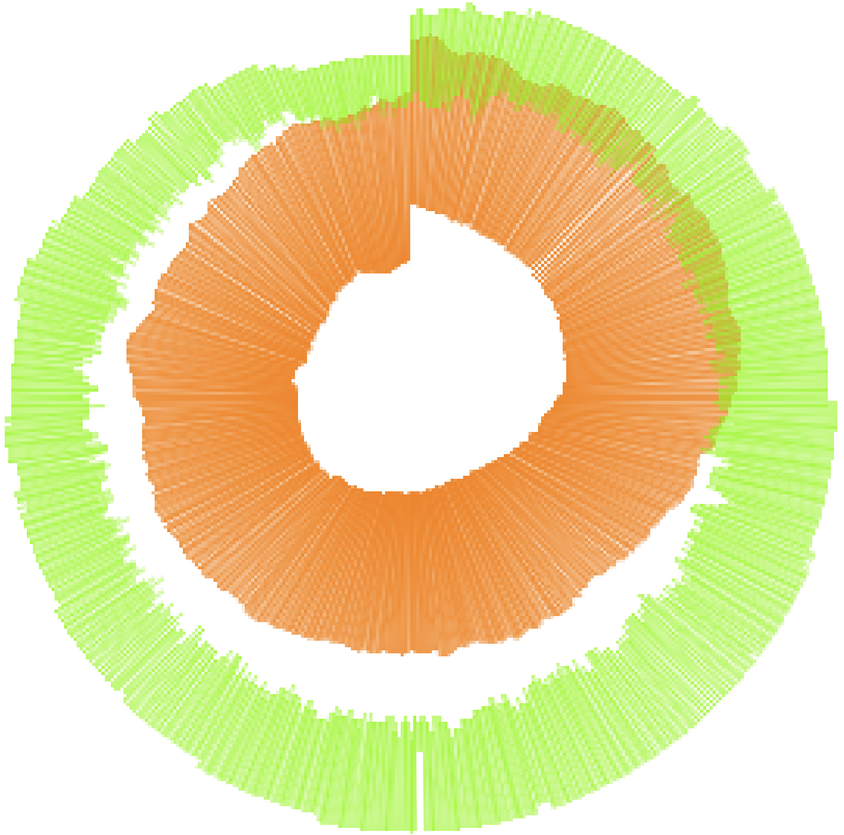
camera 1

front view

visualization of t°/ in and out, humidity in/out and Co2 in the hive







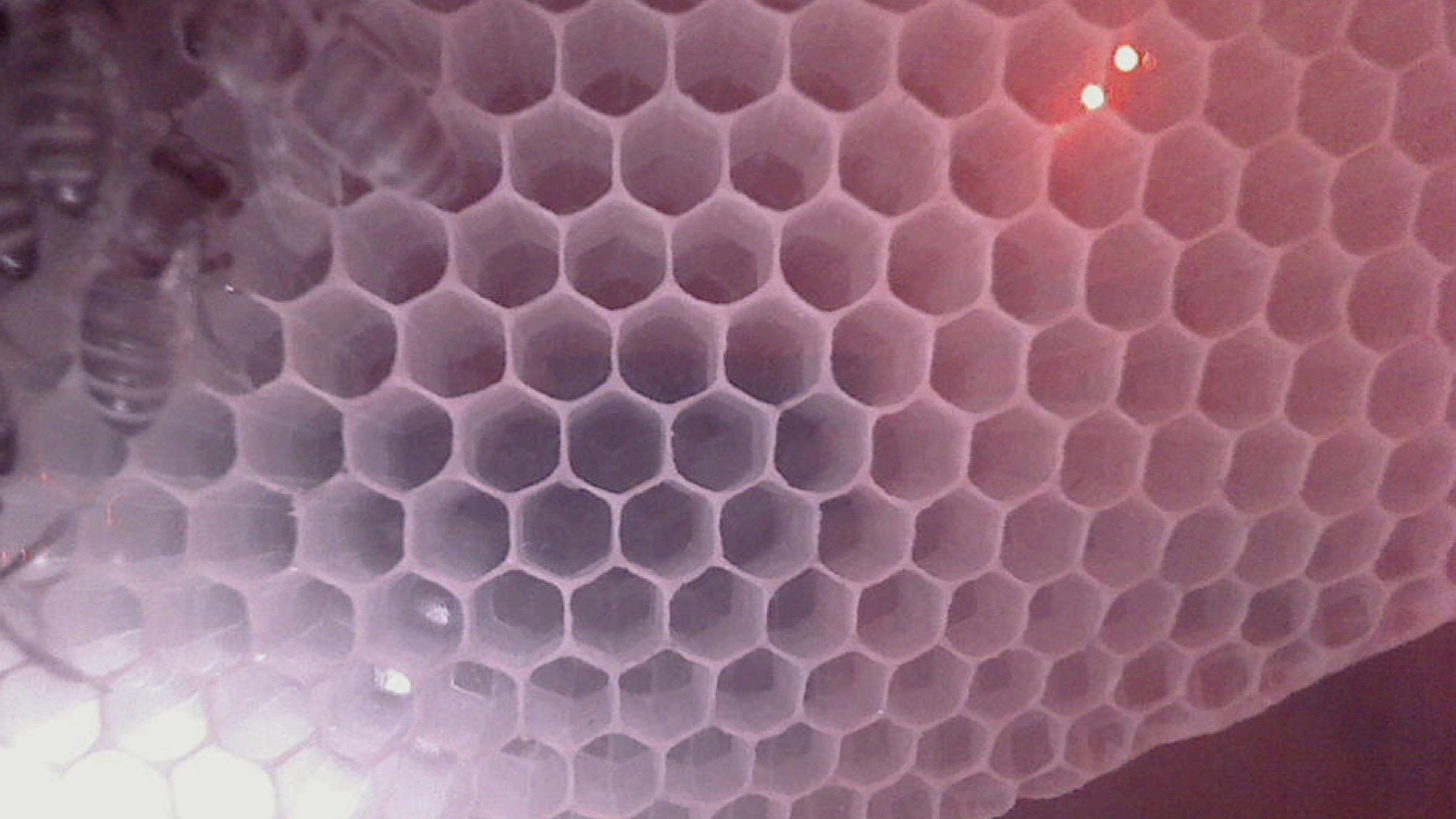
visualization of 2 t°-sensors

visualization of humidity inside and outside of the hive

bees in real time:
http://193.93.114.238:8090/?action=stream

bees in padma:
http://padma.okno.be/Vsn3krql/info

birth of a bee:
http://padma.okno.be/Vugv503g



http://okno.be

http://opengreens.okno.be

http://padma.okno.be

http://timeinventorskabinet.org/wiki/docu.php