

Nihon University MIYAZAKI Lab.

DECADE

Cansat'09 featuring 2000 - 2009,
MIYAZAKI Lab., DEPT. of Aero Space Eng.,
COL. of Sci. & Tech., Nihon Univ.
<< Journey through the DECADE !! >>

Our Laboratory participate in ARLISS,
and it is the 10th year by this year.

All Produced and All Arranged by MIYAZAKI
Lab. 2009



DECADE's Mission

Real-time downlink of animation with amateur television(ATV)

➡ What's ATV?

- It is one of the way to enjoy amateur radio.
- It use 1.2GHz band.
- It send an animation which consist of many pictures.
- It is detected by a set top box.

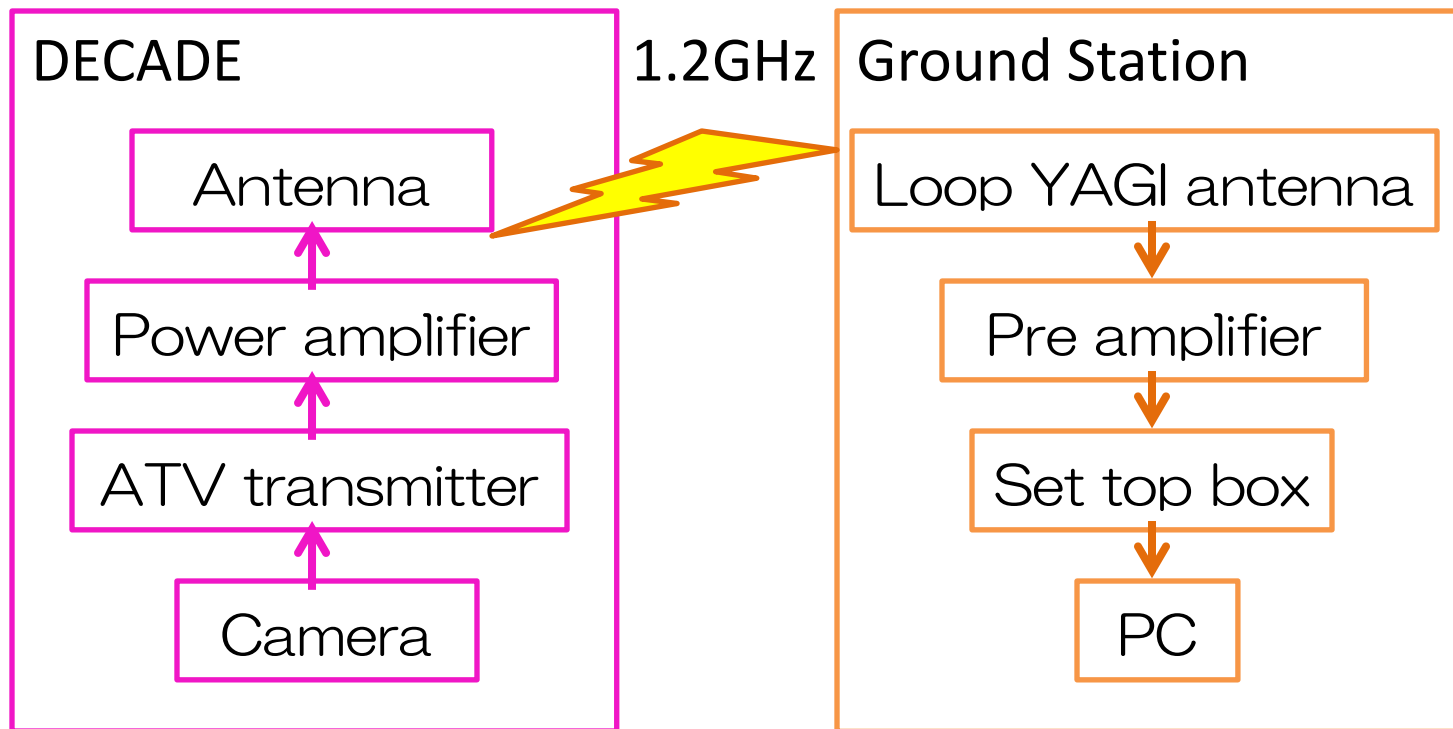
DECADE



This is a picture of our laboratory by ATV.

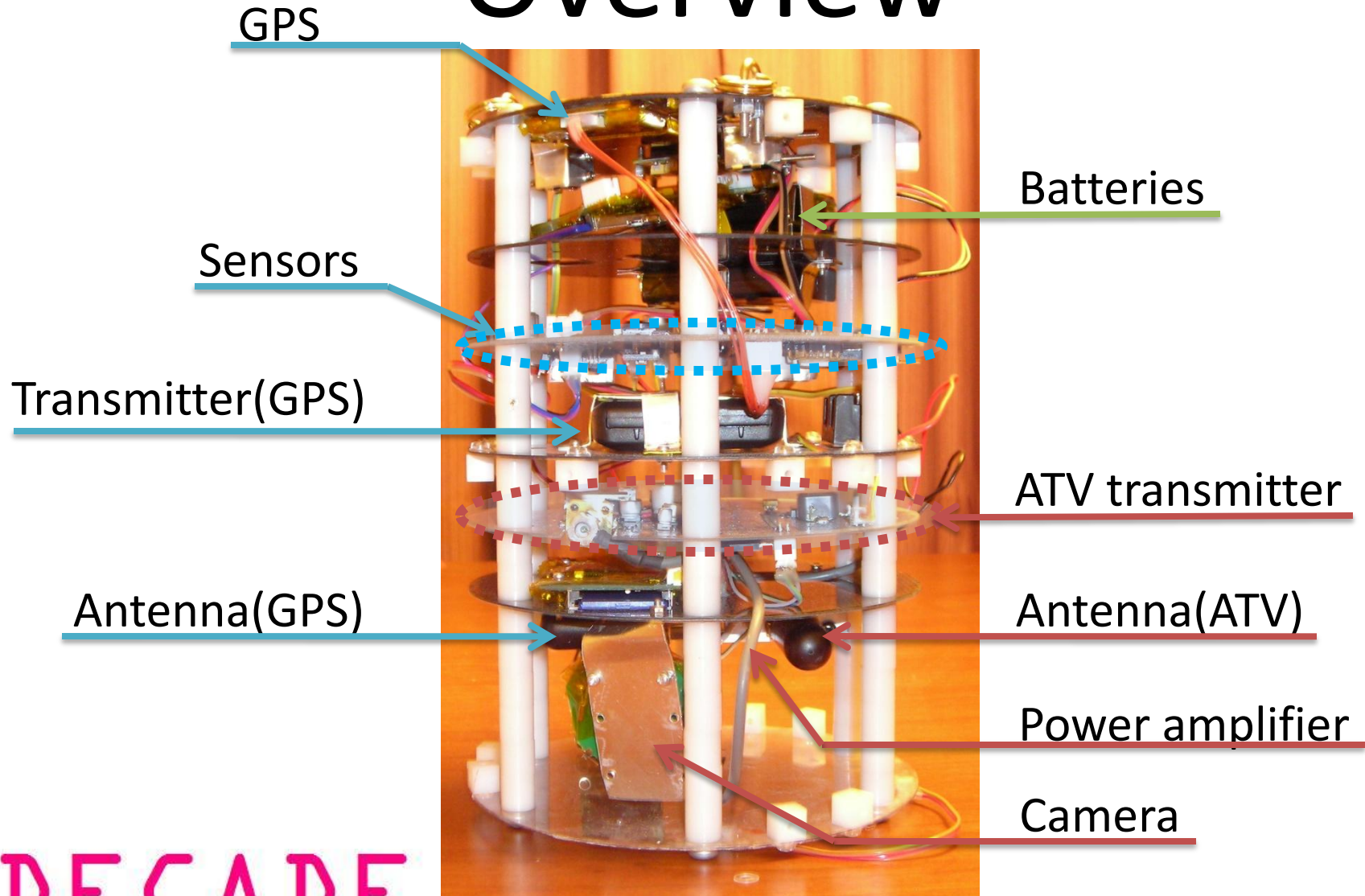
DECADE's Mission

DECADE's system



DECADE

Overview



DECADE

All Produced and All Arranged by MIYAZAKI Lab. 2009

Result

1st Flight

We didn't get data.

2nd Flight

We got data of GPS, but We couldn't received an animation.

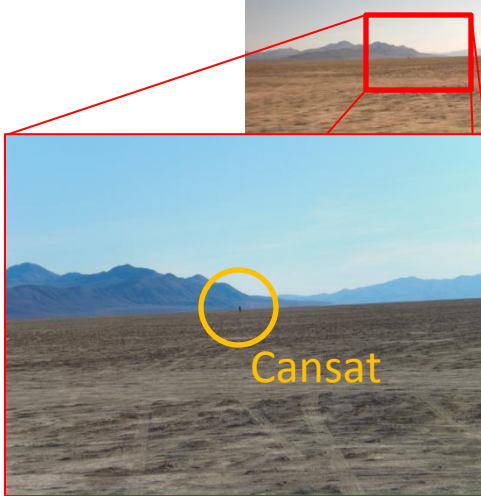
We confirmed that ATV transmitter send a radio wave, but we didn't confirm an animation.

Therefore we experimented with ATV at Black Rock condition of ground to ground.

DECADE

All Produced and All Arranged by MIYAZAKI Lab. 2009

Result of experiment with ATV



The distance is about 400m!!!!

It's a new record.

DECADE

All Produced and All Arranged by MIYAZAKI Lab. 2009

1st Flight



DECADE Thank you, Allen ❤️

All Produced and All Arranged by MIYAZAKI Lab. 2009

2nd Flight



DECADE

All Produced and All Arranged by MIYAZAKI Lab. 2009

Thank you, ED



Thank you for your listening!!