





# Low Cost Real-Time Cloud Mapping For Evaluation Of Laser Acquisition Conditions.

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CNRS - GéoAzur - OCA - UCA

ILRS Virtual Technical Workshop, October 17th 2023

"New Technology and Operations"



# **Genesis Of The Project.**





Thermal radiation effect of the earth

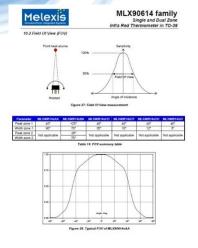


Caméra AllSky Thermique ReuniWatt

Caméra AllSky Alcore System

# G<del>C</del>O AZUC

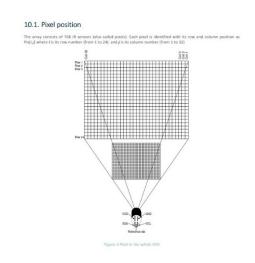
# Preliminary Tests On MELEXIS sensors.



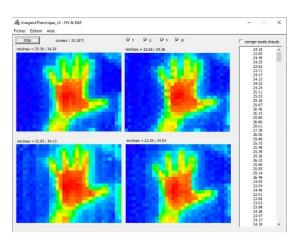
**MLX Monopixel** 



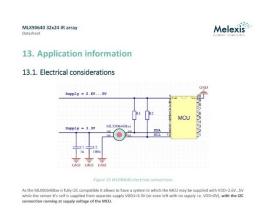
**Monopixel Mount** 



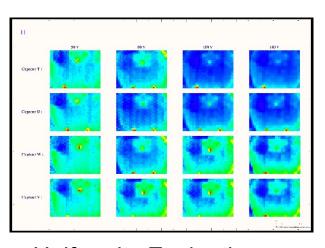
**MLX** Array



4 MLX I.R. Acquisitions



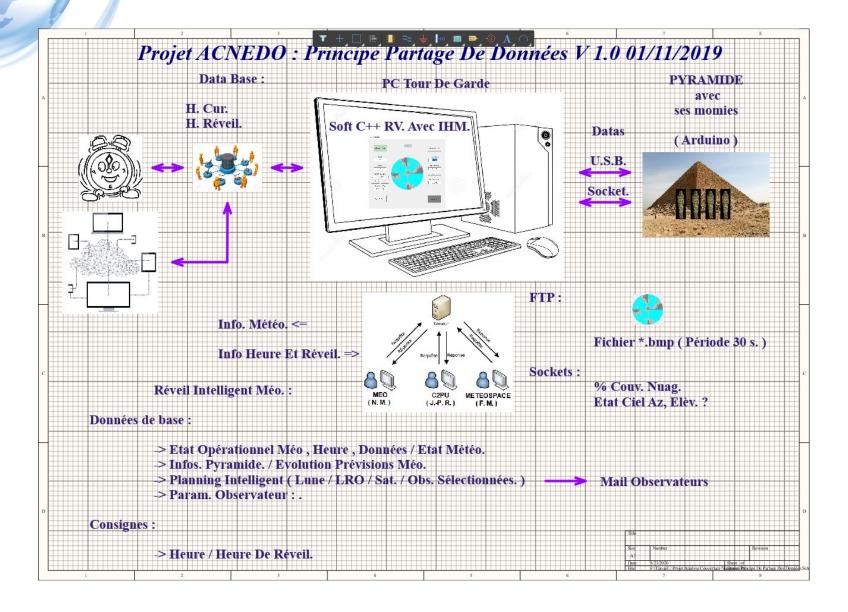
#### **MLX SMBUS Connection**



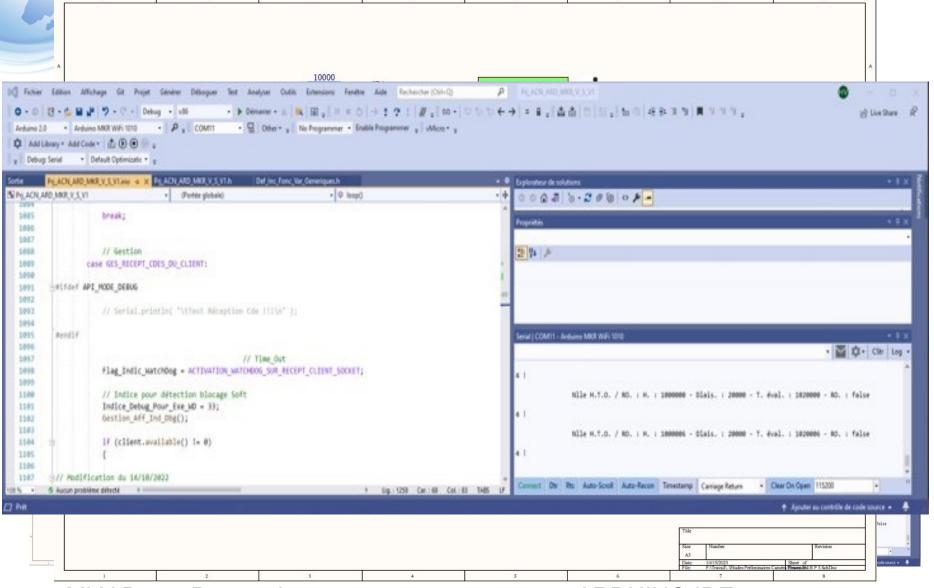
**Uniformity Evaluation** 



# Complete Description Of The Project.

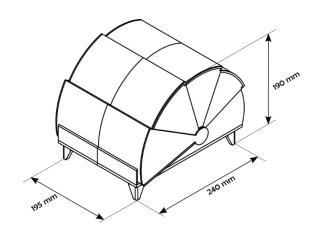


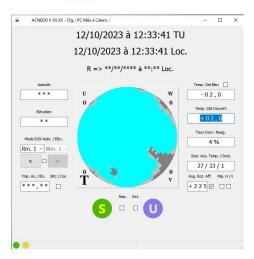
Electronic, Software and Mechanical Design.

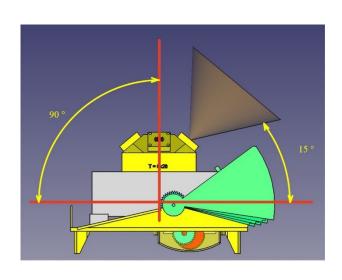




### Installation And Use Information.







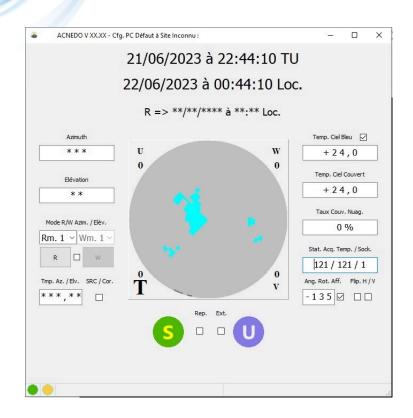
Measurement

View of Sun And Wifi Antenna

Field Of View

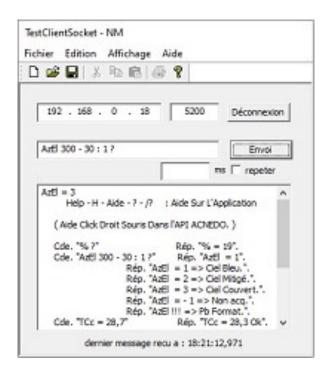


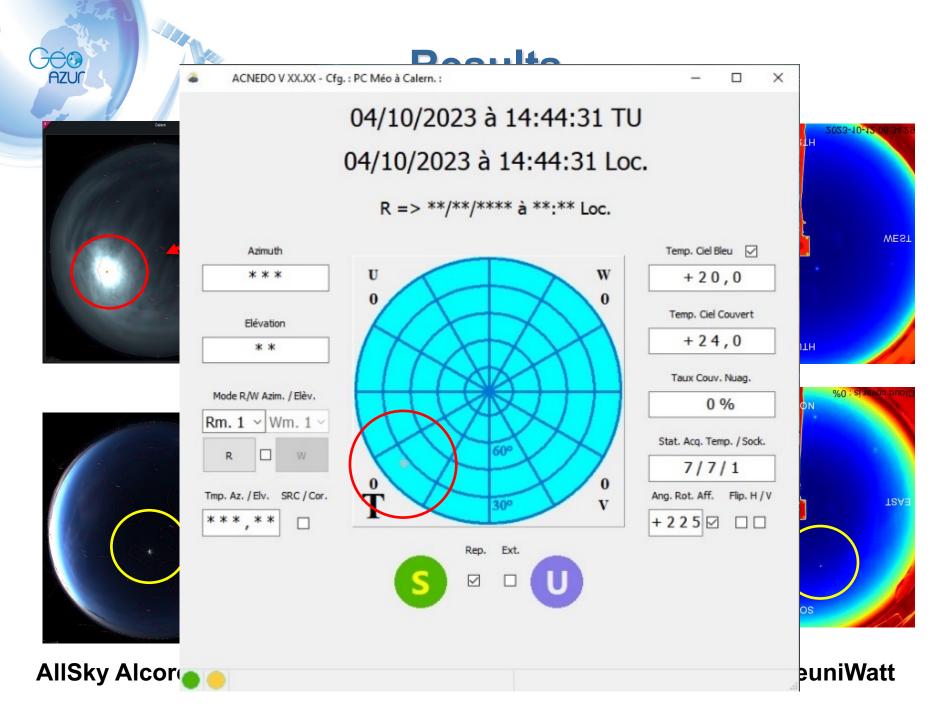
## H.M.I. And Remote Communications.



H.M.I. API SKY MAP

#### **Socket Remote Communications**





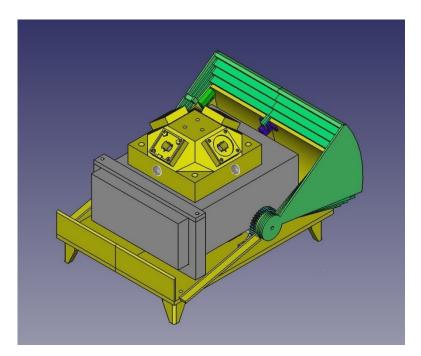


# **Prospects and Evolution of the Project.**





Helicopter Noise



Plane Noise

**Direction And Distance Localisation.** 







# **Before presenting**

# the animated conclusions

Let me Thanks !!!

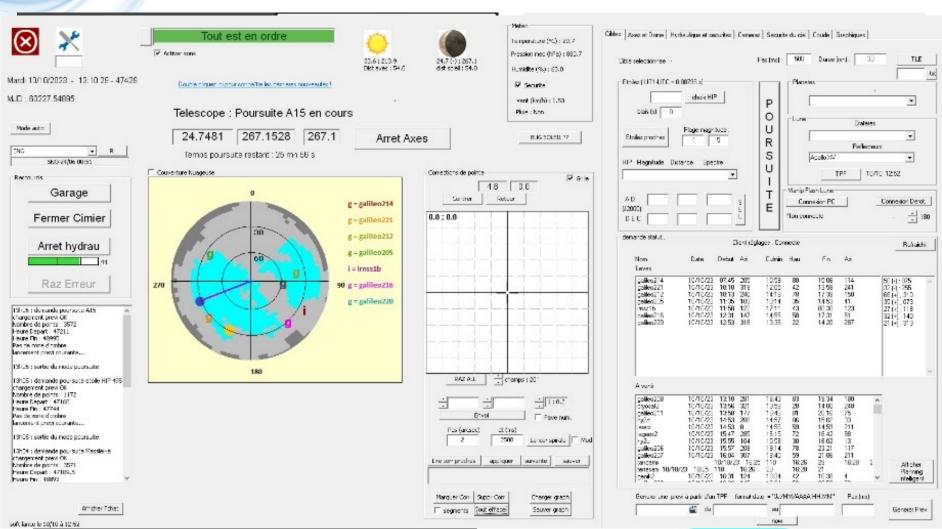
M. J. Scariot
M. N. Maurice

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# Finally, it works !!!



**Pyramid In Action.**