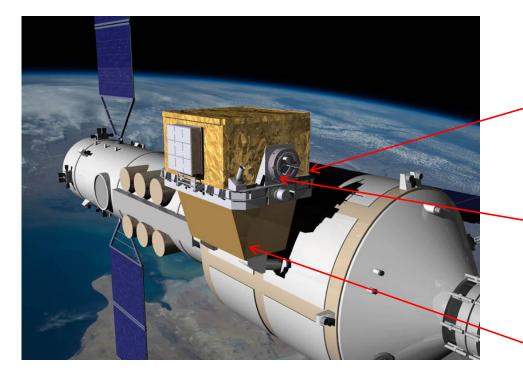
CALO

• Expected 1850 kg

CALO	Mass(kg)	
7497 LYSO Crystals	1467.5	
WLSF&PD&Glue	42.0	
Crystal panel	170.0	
Support Frame	40.0	
Fiber&FEE panel	100.0	
IsCMOS Camera	50.0	
Trigger	20.0	
PD EBOX	20.0	
SUM	1909.5	
		- THE REAL PROPERTY OF THE REA

General structure(1)

- The HERD general structure includes
 - Supporting structures, adapters, launching & transportation & installation interfaces, thermal control, general electronics, etc.

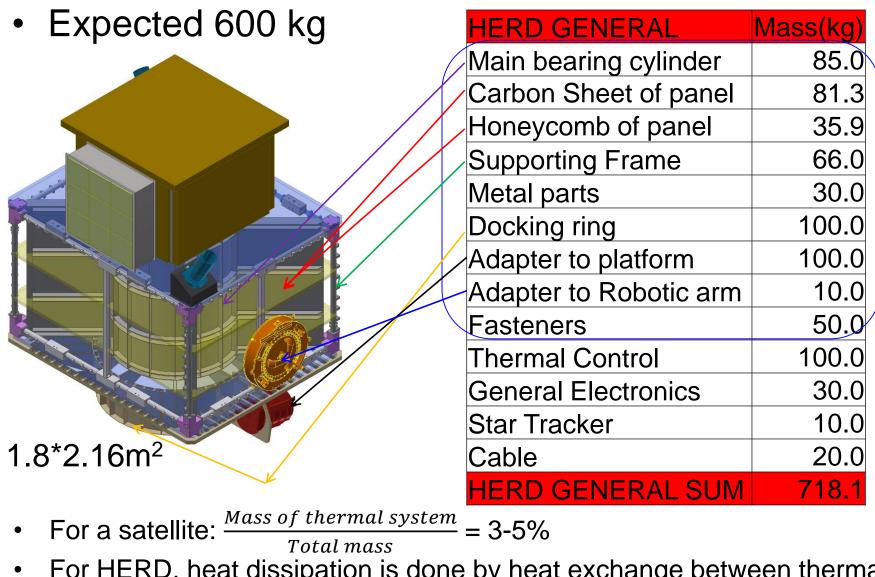


•CALO bottom on top of EM I

•Adapter to Robotic arm may be removed

•Resistance to docking shocks

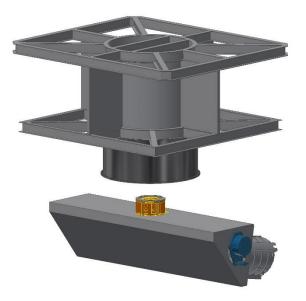
General structure(2)



• For HERD, heat dissipation is done by heat exchange between thermal pipes of detectors & CSS.

General structure(3)

- Alternative design of the general structure
- Two separated parts including a bridge & a common structure)
 - The installation of the bridge on the two adjacent PORTS is more feasible
 - Change of weight is still unknown.
 - Working together with CSU on the proposal now...



TRD

- Expected 150 kg
- 3*3 detection units
- Effective area ~2700 cm²

