

EIS Mass Budget

EIS-sys-des-masbud

Iss	Date	Author	Changes
4	05-Aug	mwt	EM9907
3	11-Jun	mwt	Headings and data revised with current Acronyms
	05-Mar-99	mwt/sm	add Str-mass column
	05-Feb-99	ck	preliminary

ref #	Acronym	item	mass (kg)	basis for estimate
1	STR	Structure	25.00	composite structure
	LOK	launch lock	1.00	typical for LASCO type
2	DOR	Door	1.40	based on LASCO door mechanism
3	Optics	Primary Mirror	5.61	EM9907 : 3511C
		Mirror Mount		included
		Scan Mechanism		included
		Grating	1.95	EM9907 : 3513C
		Grating Mount		included
		grating focus mech.		included
4	Filter	Filters	0.20	typical thickness and stiffness
5	SLA	Slit Assembly	1.21	EM9907 : 3510 C
6	SHT	Shutter	0.00	included
7	CAM	Focal Plane Assembly	3.00	
				<i>comprised of:</i>
				FPA - focal plane assembly 0.5
				Shielding 0.5
				ROE - Readout Electronics 2
				Radiator 1
				2 0.18
8	QCM	contamination monitors	0.36	
9		Thermal Control		
		Sensors and heaters	0.20	<i>guess</i>
	MLI	Multilayer Insulation	4.00	15 layer blankets with alternating mesh
a	ICU	Instrument Control Unit	6.00	<i>estimate</i>
b	HAR	Harness	4.00	scaled from LASCO cables
c	CLM	Clamshell	2.50	18x18x5 evacuated cavity
d	MHC	Mechanism/Heater Con	2.50	<i>guess</i>
e	PUR	Purge Harness	2.00	<i>guess</i>
	VAC	Vacuum Harness	1.00	
		subtotal	61.93	
		margin	9.00	
		total	70.93	
		Not included		
		flyable alignment items		
		witness optics		