

		Responsibility	Note	Heritage
XIPE Instrument		INAF/IAPS	Integrated Instrument calibraion and E2E at INAF facility. Follow-on Telescope test at MPE/PANTER Support of UCL/SSL in the thermal/structural design at Unit/FPA level.	TBW
Detector Unit		IN FN/Pisa	MGSE for transport and AIT supported by INAF/IAPS	TBW
GPD		IN FN/Pisa	Tsinghua University/CNSA for fine tuning Gas Cell mixture & high energy source for PANTER/MPE	TBW
	Gas Cell	INFN/Pisa	Gas cell from Oxford with GEM from Scienergy/Riken	TBW
	ASIC	INFN/Pisa		TBW
	Peltier	INFN/Pisa		TBW
Filter & Cal. Wheel		UCL/SSL		TBW
	Wheel & Driver	UCL/SSL		TBW
	Calibration sources	INAF/IAPS	possible tagged source option (ASTRO-H/ATHENA) from SRON	TBW
	Filters	Tsinghua University /CNSA		TBW
Strylight Collimator		INFN/Pisa		TBW
DU Housing		IN FN/Pisa		TBW
Back-End Electronic Unit		IN FN/Pisa		TBW
HV & LV Power Supply		SRC of Polish academy of science		TBW
ASIC mng ADC & pre-processing		IN FN/Pisa	low mass anticoincidence as contribution of SNSB	TBW
BEEU Case		IN FN/Pisa		TBW
FPA Support Items			AIV/AIT activities will be performed by INTA	TBW
FPA Support Structure		Univ. of Valencia		TBW
1	DU & BEEU Mounting Plate	Univ. of Valencia	AIV/AIT of FPA by INTA	TBW
	FPA Int. Ring	Univ. of Valencia		TBW
FPA Thermal control		E SA/Prime		TBW
Harness DUs to BEEUs		IN FN/Pisa		TBW
Instrument Controll Unit		IAAT	IAAT/DRL contribution includes EGSE and Calibration at MPE/Panter	TBW
Micro processor & Memory boards		IAAT		TBW
Power distribution boards		IAAT		TBW
Filter Wheel controll drivers board		IAAT		TBW
ICU Case		IAAT		TBW
Harness ICU to DU and BEEU		IAAT		TBW

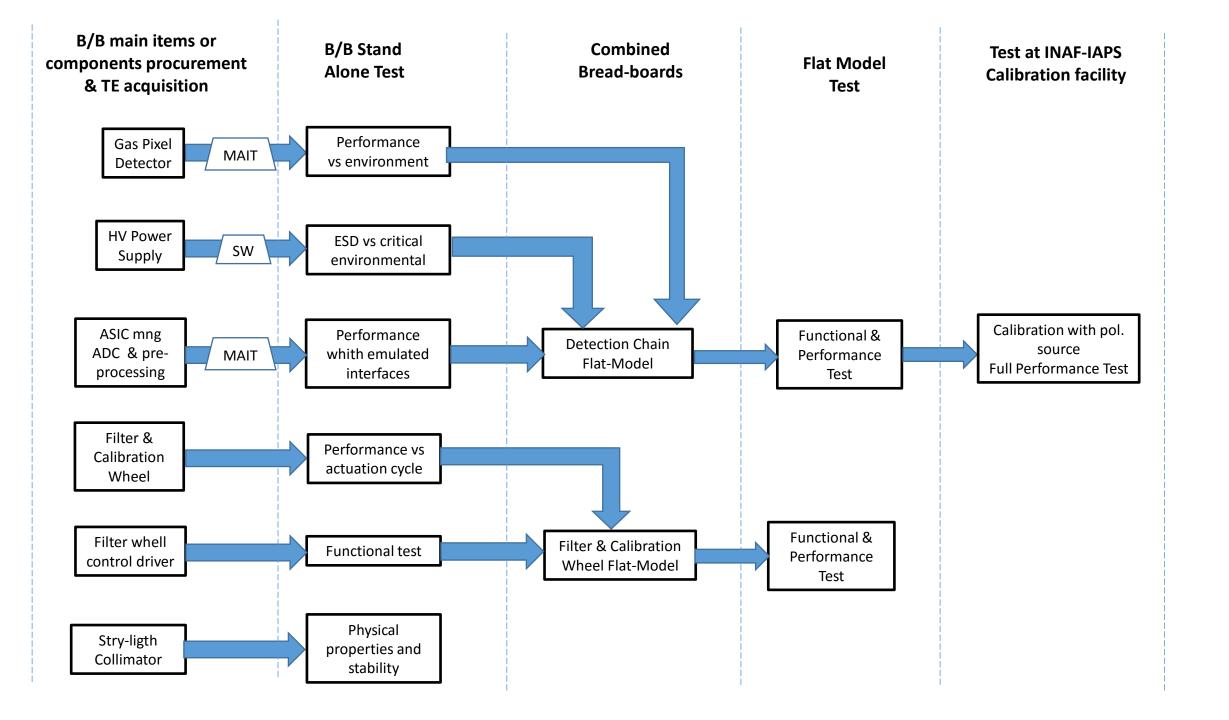
		Acroym	Unit Mass (kg)	Current TRL	BB	SM	STM (**)	Sim.	ЕМ	El.Mod.	EQM	QM (***)	PFM	FM	Spare	Note
XIPE Instrument																
Detector Unit		DU	0,0	6			1+2D					1		3	1	EM and QM are not deliverable
Gas Pixel Detector		GPS		6	2		1+2D					1		3	1	
Ga	as Cell	GC		6	2		1+2D					1		3	1	
AS	SIC Miniboard	AM		6	2		1+2D					1		3	1	
Pe	eltier Cooler	PC		6	2		1+2D					1		3	1	
Filter & Cal. Wheel		FCW		6	2		1+2D					1		3	1	
W	heel & Driver	W&C		9	2*		1+2D					1		3	1	
Ca	alibration sources	CS		6	2*		1+2D					1		3	1	
	Iters Set	FIS		6	2*		1+2D					1		3	1	
Strylight Collimator		STC		6	1		1+2D					1		3	1	
DU Housing		DUH		6			1+2D					1		3	1	
Back-End Electronic Unit		BEEU	0,0	6			1+2D					1		3	1	QM is not deliverable
HV Power Supply		HVPS		6	1		1+2D					1		3	1	
ASIC mng, ADC & pre-processing		AAPM		6	1		1+2D					1		3	1	
BEEU Case		BUC		6			1+2D					1		3	1	
FPA Support Items		FSI	0,0	6			1					1		1	1	QM is not deliverable
FPA Support Structure		FSS		6			1					1		1	1 kit	
DU	J & BEEU Mounting Plate	DBMP	*****************	6			1	***********	**************			1		1		
FF	PA Int. Ring	FPAR		6			1					1		1		
FPA Thermal control		FTC		6			1					1		1	1 kit	prime is responsible of design & procurement
Harness DUs to BEEUs		HDB		6						1		1		1		
Instrument Controll Unit		ICU	0,0	6			1	1	1 (***)	1 (TBC)			1		1	EM is not deliverable
Micro processor & Memory boards		MPMB		6			1*D	1	1	1			1		1	
Power distribution boards		PDB		6			1*D	1	1	1			1		1	
FCW control drivers board		FCB		6			1*D	1	1	1			1		1	
ICU Case		ICUC	***************************************	6		*******	1*D	1	1	1	************	*********	1	************	1	
Harness ICU to DU and BEEU		HIDB	***************************************	6			***********	***************************************		1	************	**********	1	**************	******************	prime is responsible of harness layout

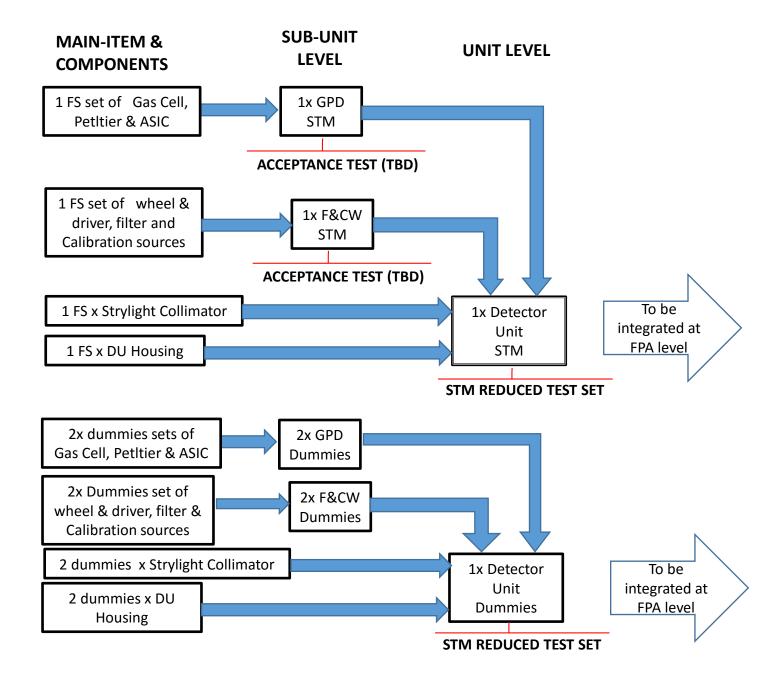
D=dummy representative of mass, MoI and CoG only

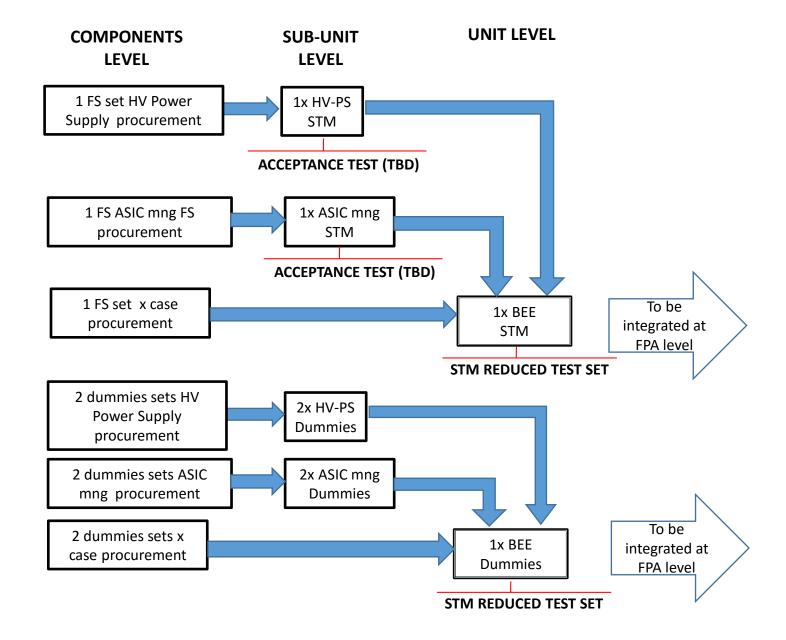
^(*) Electrical Motor is flight reppresentative while the wheel (as well sources and filters) is a dummy representative of mass and CoG only

^(**) DU STM can be provided of Flight Standard assembly (e.g. Filter & calibration Wheel) with the aim to performe a funcional/performance qualification in the occurrence of satellite STM test campaign

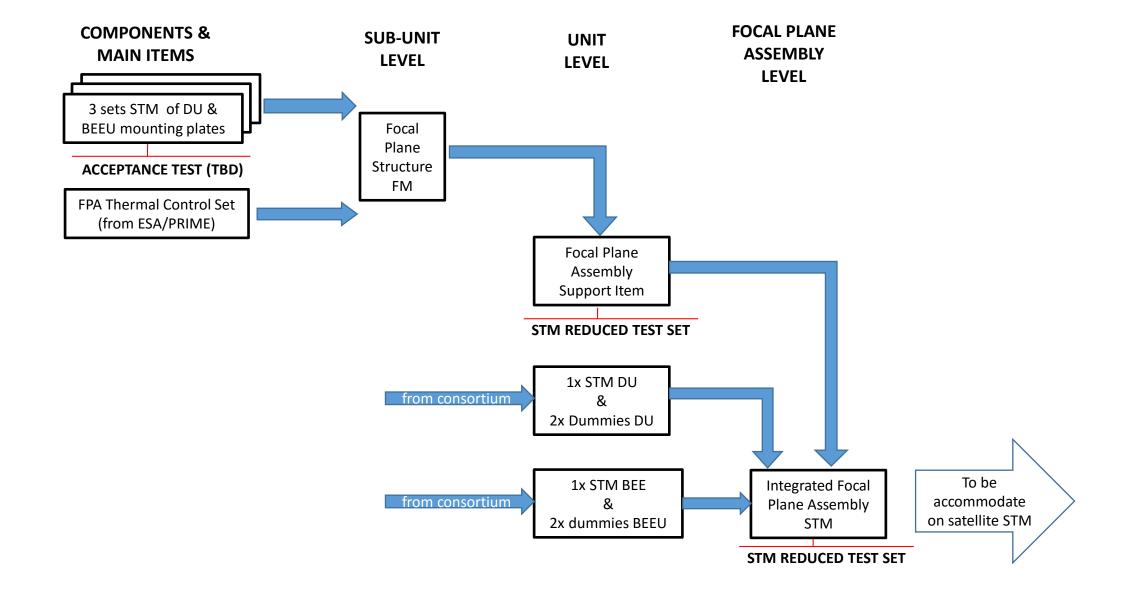
^(***) QM of DU, BEEU and EM of ICU shall be utilised for integrated instrument functional/performance test in advance w.r.t. the development of FM/PFM units



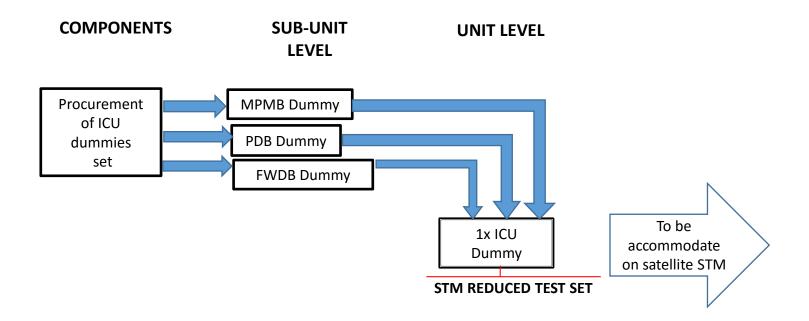


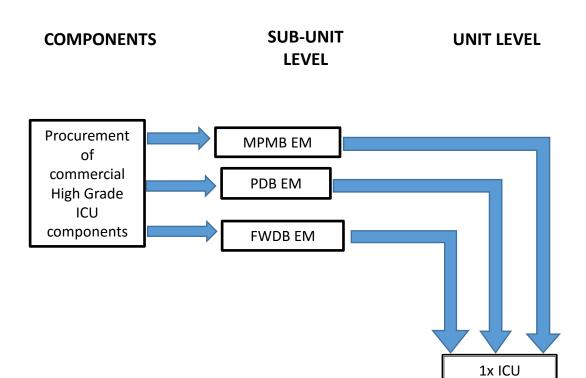


Back-End Electronic Unit STM

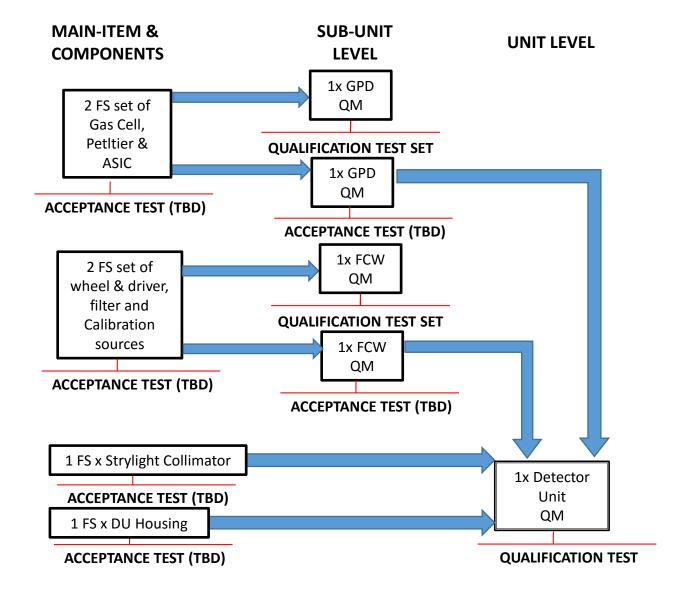


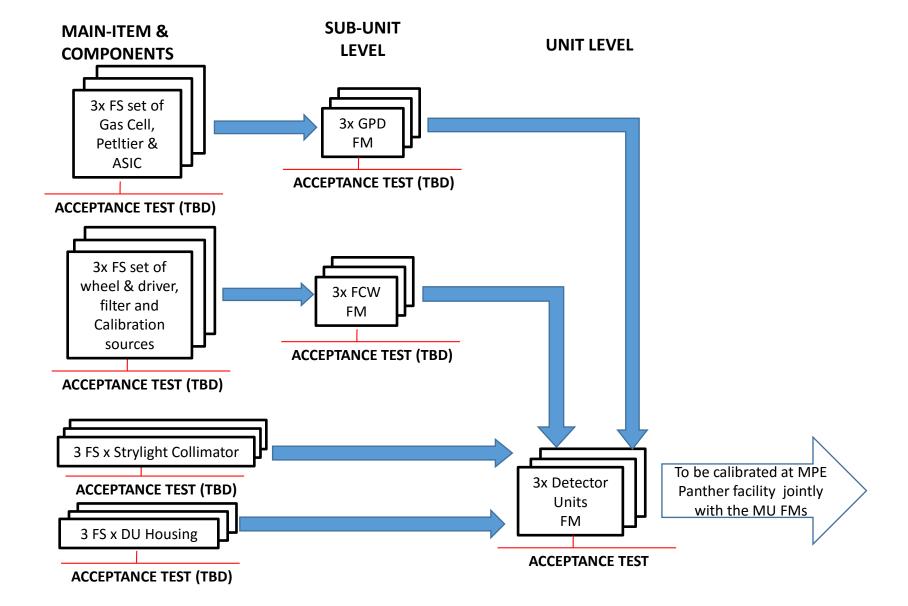
Focal Plane Assembly Support Items STM

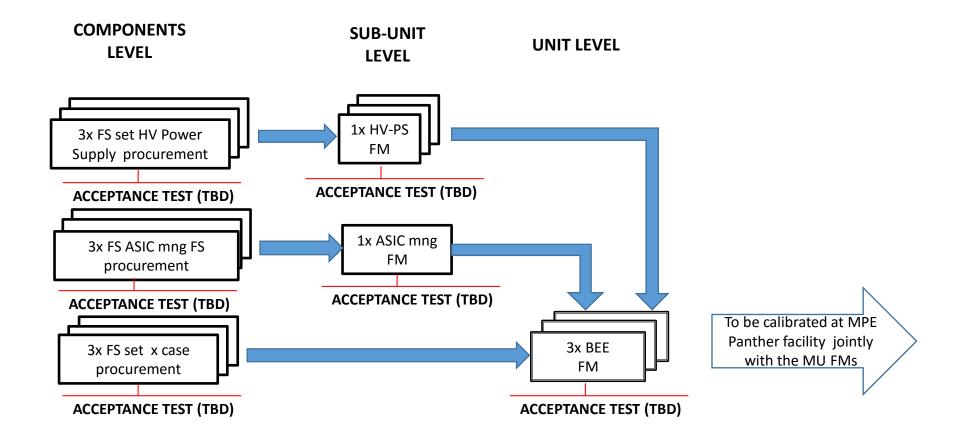


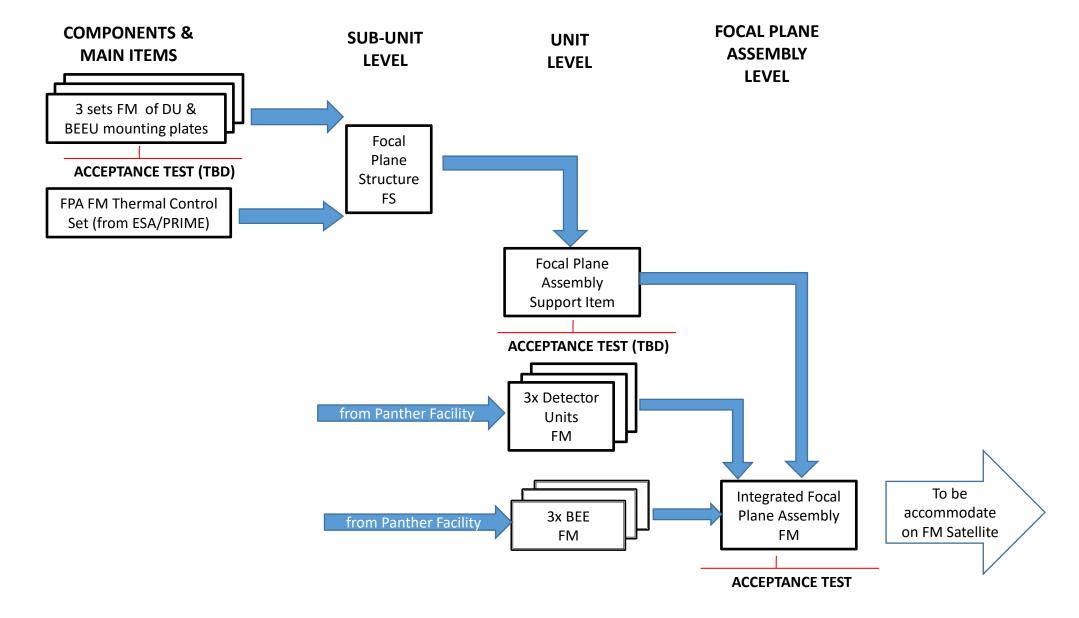


ΕM









Focal Plane Assembly Support Items FM

