

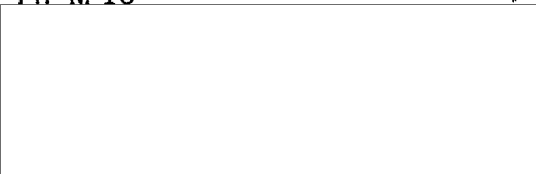
TOP SECRET

PRIORITY

OUT64654

1968 MAR 23 05 11Z

P 230418Z
FM NPIC



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ZEM
TOP SECRET TTTT

CITE NPIC 3307.

SSO SAC ALSO FOR 544 ARTW.

SUBJECT: CAMERA INFORMATION FOR MISSION 1046-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS
A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS		FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS (MM)		610.420	610.420	FWD 54.900 AFT 54.950	FWD 54.500 AFT 54.750
FILTER (WRITTEN#)	23A	21	25	25	25
APERTURE	F3.5	F3.5	F11.0	F8.0	F8.0
SLIT WIDTH (IN)	.140	.110			
EXPOSURE (SEC)	1/100	1/100			
FILM	3404	3404	3404	3404	3404
RESOLUTION (L/MM)	205	203	NA	NA	NA
B. S/I UNITS			STELLAR		INDEX
FOCAL LENGTH (MM)		PART 1	83.9225		38.8267
		PART 2	84.1023		38/8081
FILTER (WRITTEN#)			NONE		21
APERTURE			F1.8		F4.5
EXPOSURE (SEC)			2.0		1/500
FILM			3400		3401
RESOLUTION (L/MM)		PART 1			87
		PART 2			86
UNIT NUMBER		PART 1	D119/151/157		
		PART 2	D120/153/158		

3. LENS DISTORTION (PIN CUSION) MM

A. MAIN UNITS		3	2	33	0	359	358	357
FWD UNIT		.001	0	0	0	0	0	.001
AFT UNIT		.003	.001	0	0	0	.001	.002
B. HORIZON CAMERAS (MM)						FWD		AFT
(RADIAL)		10 DEGREES	.030	.020	.020	.010		
		20 DEGREES	.090	.060	.055	.060		
(TANGENTIAL) MAX VECTOR			.026	.030	.018	.030		

DISTRIBUTION			25X1
Cy No.	Office	Action	
1	File		
2	Cable Sec.		
	FP&B		
	Security		
3/4	TSSG		
8	POB		
	IOB		25X1
	IAS		25X1
	DIAX-4		
	EPAS		
	DIA-AP		25X1

Advance Copy
Sanitized
With Text

1



25X1

TOP SECRET

GROUP 1
Excluded from automatic
downgrading and
declassification

50D	18	01	13	40	1178	48
52D1	18	04	35	22	2446	64
52D2	18	04	39	09	2673	117
53D	18	05	53	10	1696	69
54D	18	07	26	15	1864	96
55D1	18	08	45	58	1230	280
55D2	18	08	53	12	1663	48
56D1	18	10	22	19	1593	97
56D2	18	10	25	21	1775	42
57D1	18	11	52	45	1602	56
57D2	18	11	55	43	1780	158
58D1	18	13	27	27	1869	76
62D	18	19	29	48	1943	83
63D	18	20	56	31	1729	44
67D	19	02	48	25	1178	135
68D	19	04	40	56	2516	163
69D1	19	05	56	40	1644	68
69D2	19	06	09	23	2407	26
70D	19	07	22	06	1355	215
71D1	19	08	54	35	1489	78
71D2	19	08	56	36	1610	88
72D1	19	10	28	51	1634	96
72D2	19	10	29	21	1760	68
73D1	19	12	01	15	1858	39
73D2	19	12	04	07	2031	107
74D	19	13	35	17	2085	81
79D1	19	21	01	10	1768	41
79D2	19	21	02	22	1840	37
84D1	20	04	27	15	1435	107
84D2	20	04	29	33	1573	53
84D3	20	04	30	51	1651	111
85D	20	05	59	43	1558	211
86D	20	07	29	38	1530	57
87D	20	09	02	22	1671	34
88D	20	10	28	21	1405	282
90D	20	13	38	13	1948	30
92D	20	16	46	34	2403	103
95D	20	21	07	09	1768	39
99D	21	03	01	50	1360	121
101D1	21	06	06	36	1603	204
101D2	21	06	13	04	1990	176
102D	21	07	37	48	1652	137

NOTE: ABOVE DATA APPLIES TO FWD UNIT ONLY. ADD 12 SECONDS TO OBTAIN START TIMES OF AFT UNIT.

8. TIME CORRELATION (MILISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
8	197661.165	34620.2447	-
9	203092.937	40052.0158	.001
16	242677.742	79636.8145	.006
24	284411.245	34970.3109	.007
32	329465.516	80024.5747	.008
40	371185.481	35344.5331	.007
47	410784.953	74943.9988	.006
56	457928.419	35687.4573	.007
63	497512.480	75271.5120	.006
72	7786.278	36016.2145	.006
79	47406.284	75636.2142	.006
88	94539.493	36369.4157	.007
95	134167.392	75997.3084	.006
103	175920.944	31350.8537	.007

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

GP-1
T O P S E C R E T

-END OF MESSAGE-

(ALSO PASSED

4. CAMERA ANGLES	DEG.	MIN.
A. ANGLE BETWEEN PAN CAMERAS	29	43.19
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS	FWD STAR 15	12.0
	FWD PORT 15	26.3
	AFT STAR 15	41.3
	AFT PORT 14	11.0
C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART 1 89	50.3
	PART 2 89	59.3

5. TIMING MARKS
 FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA (CYCLE RATE (CPS), GROUND ANGULAR VELOCITY (GAV), AND PASSES WHERE USED).

NO.	CPS.	GAV.	NO.	CPS.	GAV.	PASSES
7	.3403	.0301	4	.0972	.0088	1D THRU 5D AND 15D THRU 102D
7	.3403	.0301	3	.1094	.0099	6D THRU 9D

7. PROGRAM TIME DATA
 CAMERA ON TIME

PASS (ZULU TIME)	DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP	PROGRAM DURATION
					SEC	SEC
1D1	14	23	30	22	1344	37
1D2	14	23	48	32	2434	32
2D	15	00	55	42	1045	35
3D	15	02	26	26	1093	91
5D	15	07	04	28	1558	39
6D1	15	07	04	28	1514	44
6D2	15	07	06	21	1627	269
8D	15	10	05	06	1409	77
9AE	15	11	11	03		
9D1	15	11	30	29	1117	283
9D2	15	11	37	00	1508	135
15D	15	20	42	08	1783	98
16D	15	22	10	01	1635	35
20D	16	04	02	43	1108	187
21D1	16	05	40	18	1543	64
21D2	16	05	42	14	1658	39
22D	16	07	11	58	1623	103
23D	16	08	39	29	1452	63
25D	16	11	43	55	1675	165
31D	16	20	49	17	1874	36
35D	17	02	37	11	1070	130
36D	17	04	13	28	1427	97
37D1	17	05	43	34	1414	111
37D2	17	05	46	30	1591	27
38D	17	07	23	04	1964	95
39D1	17	08	45	42	1503	32
39D2	17	08	47	36	1617	42
40D1	17	10	11	21	1223	127
40D2	17	10	16	42	1543	96
41D1	17	11	47	18	1561	42
41D2	17	11	50	03	1726	161
43D	17	14	53	03	1869	42
45D	17	18	04	52	2542	59
46D	17	19	19	10	1581	56
47D	17	20	51	02	1675	44