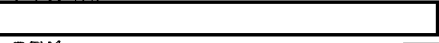


TOP SECRET

P 052043Z
FM NPIC



AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN
EICEUR



ZEM
TOP SECRET TTTT [Redacted]

ITE NPIC 2906

SSO SAC ALSO FOR 544 ARTW.

SUBJECT: CAMERA INFORMATION FOR MISSION 1045-1

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

A. MAIN UNITS	FORWARD	AFT	STAR HOR	PORT HOR
FOCAL LENGTHS (MM)	609.613	609.613	FWD 55.000 AFT 55.000	FWD 55.00 AFT 55.00
FILTER (WRATTEN NR)	23A	21	25	25
APERTURE	F3.5	F3.5	F8.0	F6.3
SLIT WIDTH (IN)	.225	.175	---	---
EXPOSURE (SEC)	1/100	1/100	---	---
FILM	3404	3404	3404	3404
RESOLUTION (L/MM)	192	198	NA	NA

NOTE: THE MAIN CAMERAS USED IN THIS MISSION ARE CALIBRATED PANORAMIC GEOMETRY CAMERAS (PAN. G. NR 7) AND WILL RESULT IN CROSS FRAME TITLING.

B. S/I UNITS	STELLAR	INDEX
FOCAL LENGTH (MM) PART 1	83.947100	38.342500
PART 2	84.2475	33.3616
FILTER (WRATTEN NR)	NONE	21
APERTURE	F1.8	F4.5
EXPOSURE (SEC)	2.0	1/500
FILM	3401	3400
RESOLUTION (L/MM) PART 1	----	73
PART 2	----	72

UNIT NUMBER PART 1 D109/137/138
PART 2 D108/139/141

3. LENS DISTORTION (PIN CUSHION) MM	A. MAIN UNITS			B. HORIZON CAMERAS (MM)			
	3	2	1	0	359	358	357
FWD UNIT	.003	.001	0	0	.001	.003	
AFT UNIT	.005	.002	0	0	.001	.002	.003

4. CAMERA ANGLES	PORT	STAR	PORT	STAR
(RADIAL) 10 DEGREES	.020	.020	.010	.020
20 DEGREES	.050	.050	.040	.050
(TANGENTIAL) MAX VECTOR	.010	.010	.010	.020
			DEG.	MIN.

1968 FEB 5 21 38Z 25X1

DISTRIBUTION — 9		
Cy No.	Office	Action
6	File	
	Office Sec.	
	F200	25X1
	Security	25X1
5	TSSG	
34	TSSG	
	SEC	
	IAS	
	DIAM-4	
	SPAD	
	[Redacted]	25X1
	DIA-AP	

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With Text



TOP SECRET

Declass Review by NGA

GROUP 1
Excluded from automatic
downgrading and
declassification

2

A. ANGLE BETWEEN PAN CAMERAS	29	45.29
B. DEPRESSION ANGLE BETWEEN HORIZON AND PAN CAMERAS		
	FWD STAR 14	29.8
	FWD PORT 14	50.2
	AFT STAR 15	29.8
	AFT PORT 15	0.1
C. ANGLE BETWEEN STELLAR AND INDEX CAMERAS	PART 1 89	58.1
	PART 2 89	57.7

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).

REF. LEVEL				AMPL. LEVEL		PASSES
NO.	CPS.	GAV.	NO.	CPS.	GAV.	
7	.3384	.0306	4	.0960	.0087	1D
7	.3384	.0306	3	.1085	.0093	5D THRU 102D

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME				PROGRAM ON TIME		PROGRAM DURATION
	DAY	HR	MIN	SEC	UP RAMP	SEC	
1D	24	23	55	35	1281		33
5D1	25	06	00	13	1262		36
5D2	25	06	02	01	1370		73
6D1	25	07	27	12	1046		70
6D2	25	07	32	24	1359		33
6D3	25	07	33	55	1450		59
6D4	25	07	35	55	1570		159
7D1	25	09	00	55	1234		92
7D2	25	09	04	46	1465		69
8AE	25	10	09	24	----		--
8D1	25	10	28	29	1051		113
8D2	25	10	33	12	1333		56
9D	25	12	06	01	1463		29
10D	25	13	42	01	1792		35
16D	25	22	41	08	1525		68
20D	26	04	38	38	1210		75
21D	26	06	10	07	1264		99
22D1	26	07	41	28	1311		111
22D2	26	07	46	46	1629		106
23D	26	09	11	51	1299		82
25D	26	12	17	37	1575		157
26D	26	13	46	50	1495		120
27D	26	15	24	31	1923		29
32D	26	22	51	18	1533		77
35D	27	03	18	08	1257		43
36D	27	04	48	14	1219		111
37D	27	06	20	34	1317		31
38D1	27	07	50	15	1253		253
38D2	27	07	56	14	1617		73
39D	27	09	20	23	1219		122
40D1	27	10	49	36	1130		68
40D2	27	10	57	41	1614		61
41D	27	12	28	38	1629		104
42D	27	13	58	45	1593		75
52D1	28	05	00	55	1304		86
52D2	28	05	04	04	1493		24

52D3	28	05	20	26	2475	108
53D	28	06	35	00	1508	45
54D	28	08	05	46	1514	23
55D	28	09	35	31	1458	32
56D1	28	11	09	27	1653	73
56D2	28	11	13	14	1831	94
57D	28	12	37	32	1497	40
58D1	28	14	11	18	1683	37
58D2	28	14	15	23	1927	85
58D3	28	14	17	32	2056	43
63D	28	21	44	05	1652	51
67D	29	03	40	29	1277	45
68D1	29	05	12	42	1370	33
68D2	29	05	15	57	1565	76
69D1	29	06	46	17	1546	81
69D2	29	06	51	22	1851	104
70D	29	08	15	03	1434	58
71D	29	09	47	47	1558	98
72D	29	11	27	27	2101	73
74D1	29	14	22	50	1746	37
74D2	29	14	28	11	2067	40
78D	29	20	27	36	1881	111
83D	30	03	53	18	1436	135
84D	30	03	55	33	1521	40
85D1	30	06	53	42	1387	267
85D2	30	07	00	58	1823	122
86D1	30	08	23	34	1343	67
86D2	30	08	26	55	1544	36
88D	30	11	32	05	1730	53
99D	31	04	03	43	1493	68
100D	31	05	35	55	1589	243
101D1	31	07	02	00	1319	41
101D2	31	07	03	17	1397	321
101D3	31	07	09	04	1743	101
101D4	31	07	14	27	2066	96
102D1	31	08	34	36	1444	421
102D2	31	08	42	07	1894	56
102D3	31	08	44	35	2242	132

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

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
8	281914.499	36318.3590	---
16	327106.501	81510.3608	0
24	368973.100	36976.9600	0
31	403677.940	76681.8004	0
40	456026.553	37630.4141	.001
47	495792.498	77396.3599	.001
56	6294.346	38369.1212	.002
63	46039.305	78114.0815	.001
71	37908.051	33582.8291	.002
79	133108.029	78782.8091	.002

NOTE: ALL "DIFFERENCE" VALUES ARE MINUS.

T O P S E C R E T

END OF MSG

S/C NOTE: ALSO PASSED

25X1