

**TOP SECRET**

**PRIORITY**  
OUT56535

P 261503Z  
FM NPIC

*multi*

1965 AUG 25 15 39Z

AFSSO USAFE  
AFSSO PACAF

25X1

26 AUG 1965

25X1

CNO  
SSO AMS  
OPCEN

YWQLAZC/AFSSO SAC  
YWQLAZC/AFSSO ACIC  
YWQLAZC/AFSSO FTD  
ZEM

T O P S E C R E T TALENT KEYHOLE CHANNELS. CITE NPIC 5302.

SUBJECT: CAMERA INFORMATION FOR MISSION 1023-1.

1. THIS PHOTOGRAPHY INVOLVES THE USE OF EIGHT CAMERAS: TWO MAIN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA, AND AN INDEX CAMERA.

2. CAMERA DATA

	FORWARD	AFT	STAR	HOR	PORT	HOR	STELLAR	INDEX
FOCAL LENGTH								
(MM)	609.602	609.602	FWD	56.64	FWD	NA	(1)83.9865	(1)38.2156
			AFT	54.84	AFT	NA	(2)84.0742	(2)38.2872
FILTER (WRITTEN								
NUMBER)	25	21	25		25		NONE	21
APERTURE	F3.5	F3.5	F8.0		F6.8		F1.8	F4.5
SLIT WIDTH (IN.)/EX-								
POSURE (SEC.)	.225	.150	1/100		1/100		2.0	1/500
FILM	3404	3404	3404		3404		3401	3400

COPIES RECEIVED 7

Cy No.	Office	Act.
1	File	
2	OS	
	ADMIN	
	SEC BR	
	P&DS	
	CSD	
	IPD	
	PD	
	PSD	
	PSD-ICB	
3, 4	TID	✓
	PID	
	PAG	
	DIAXX-4	
	SPAD	
	NSA-LO	
	DIA-AP	

25X1

**TOP SECRET**

-2-

## RESOLUTION

(L/MM)	201	185	FWD166	FWD NA	(1)70
			AFT147	AFT NA	(2)70.5

NOTE: NUMBERS (1) AND (2) UNDER STELLAR AND INDEX HEADINGS REFER TO PART-1 AND PART-2 OF THE MISSION.

## 3. LENS DISTORTION (PIN CUSHION) MM

A. MAIN LENS	3	2	1	0	359	358	357
FWD UNIT	.004	.002	.001	.000	.001	.002	.005
AFT UNIT	.004	.003	.001	.000	.002	.004	.007

B. HORIZON CAMERAS (MM)	FWD		AFT	
	PORT	STARBOARD	PORT	STARBOARD
(RADIAL) 10 DEGREES	NA	.001	NA	.003
20 DEGREES	NA	.004	NA	.003
(TANGENTIAL) MAX VECTOR	NA	.002	NA	.005

## 4. CAMERA ANGLES

		DEGREES	MINUTES
A. ANGLE BETWEEN MAIN CAMERAS		29	49.90
B. ANGLE BETWEEN STELLAR AND INDEX CAMERAS PART (1)	89	57	
	PART (2)	89	52.2
C. DEPRESSION ANGLE BETWEEN HORIZON FWD STARBOARD	14	49	
AND MAIN CAMERAS	FWD PORT	NA	--
	AFT STARBOARD	15	32
	AFT PORT	NA	--

## 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

- 3 -

ANGULAR VELOCITY (GAV) IN RAD/SEC, AND PASSES WHERE USED).

REF. LEVEL		AMPL. LEVEL		PASSES
NO. CPS.	GAV.	NO. CPS.	GAV.	
7	.3388	.0306	4 .1117	.0101 1D1 THRU 6D1
7	.3388	.0306	3 .1293	.0117 7D1 THRU 77D2

## 7. PROGRAM TIME DATA

PASS	CAMERA ON TIME				PROGRAM ON TIME PROGRAM	
	(ZEBRA TIME)				UP RAMP	DURATION
	DAY	HOUR	MIN	SEC	(SEC)	(SEC)
1D1	17	22	23	37	1070	98
1D2	17	22	29	02	1395	44
2D1	17	23	51	46	927	116
5D1	18	04	30	28	1358	110
6D1	18	06	04	27	1565	119
7D1	18	07	29	28	1236	61
7D2	18	07	32	31	1419	236
8D1	18	09	02	02	1392	270
9AE	18	10	12	20	191	49
9D1	18	10	31	34	1344	142
16D1	18	21	09	28	1654	40
21D1	19	04	35	55	1324	163
21D2	19	04	39	43	1552	101
23D1	19	07	38	14	1419	155
23D2	19	07	43	30	1735	158
24D1	19	09	08	06	1389	272

- 4 -

25AE	19	10	18	58	214	51
25D1	19	10	38	30	1386	140
25D2	19	10	44	53	1769	64
26D1	19	12	16	27	1842	49
26D2	19	12	29	44	2638	152
31D1	19	19	46	43	1744	61
36D1	20	03	10	34	1267	206
37D1	20	04	42	16	1348	127
37D2	20	04	47	26	1658	191
37D3	20	04	57	11	2243	42
38D1	20	06	07	17	1029	68
38D2	20	06	14	48	1479	53
38D3	20	06	20	17	1808	65
39D1	20	07	40	41	1206	81
39D2	20	07	50	39	1804	158
40D1	20	09	12	29	1293	354
41AE	20	10	25	15	237	51
42D1	20	12	22	19	1840	96
42D2	20	12	34	57	2598	85
47D1	20	19	51	53	1710	41
47D2	20	19	54	23	1860	80
50D1	21	00	14	17	1195	148
53D1	21	04	52	33	1631	398
53D2	21	05	07	37	2535	85
54D1	21	06	20	28	1486	361

1

- 5 -

55D1	21	07	52	15	1569	165
55D2	21	07	56	34	1828	110
56D1	21	09	19	21	1374	247
*63D1	21	19	57	00	1701	97
68D1	22	03	22	09	1314	223
69D1	22	04	57	36	1622	368
70D1	22	06	19	11	1098	112
70D2	22	06	26	49	1557	68
70D3	22	06	28	46	1674	98
70D2	22	06	30	55	1803	80
71D1	22	07	53	10	1319	266
71D2	22	08	04	25	1993	48
77D1	22	17	01	22	1700	42
77D2	22	17	06	23	2001	37

\*NOTE: DATA IS THE SAME FOR BOTH THE MASTER (FWD) AND SLAVE (AFT) UNITS EXCEPT ON PASS 63D1. ABOVE DATA IS FOR THE MASTER UNIT WITH SLAVE DATA GIVEN BELOW:

63D1	21	19	57	12	1713	97
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#### 8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
0	360218.4899	76032.7654	----
9	407394.8319	36809.0943	.013
16	446831.6919	76245.9428	.011
25	494193.3609	37207.5975	.014
31	528290.8559	71305.0819	.011

-6-

41	043998.1089	37483.2300	.016
47	078090.0599	71575.1697	.011
57	130852.1679	37937.2595	.018
63	164927.5429	72012.6225	.012
72	212160.1969	32845.2593	.017
79	251476.8079	72161.8555	.015

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

9. REMARKS

A. S/I UNIT - PART 1 D17/19/82

PART 2 D66/75/72

GP-1.

T O P S E C R E T

-END OF MESSAGE-

(ALSO PASSED TO )

25X1