

**University of Michigan  
Space Physics Research Laboratory**

<b>TIDI data Processing  Filter Wheel Configurations</b>	CAGE No.	0TK63
	Drawing No.	055-4171A
	Project	TIDI
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	Page	1 of 3

REVISION RECORD

Rev	Description	Date	Approval
	Initial Release	29 Mar 2002	

APPROVAL RECORD

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University of Michigan Space Physics Research Laboratory	Drawing No. Filename Page	055-DDDDR 4171FWConfigs 2 of 3
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**Contents**

1. **References** .....3

2. **Introduction**.....3

**Tables**

**Table 1: Filter Wheel Configurations**..... 3

## 1. References

- 1) /tidi/tidi\_software/vector/vector.f
- 2) /tidi/tidi\_software/vector/vector\_scalar.f
- 3) /tidi/tidi\_software/FilterTransmission/trans\_crv.f
- 4) /tidi/tidi\_software/util/fw\_config.f

## 2. Introduction

The table below documents the valid TIDI filter wheel configurations (formerly modes), their associated emission bands, and the commanded positions of each wheel.

<b>Table 1: Filter Wheel Configurations</b>				
<b>fw_config (mode)</b>	<b>Emission</b>	<b>FW 1</b>	<b>FW 2</b>	<b>Vector Variable</b>
1	O2(0-1)	3	1	(back1,ver2,back2)
2	O2(0-1)	1	1	(back1,ver2,back2)
3	O2(0-0)	8	1	(back1,ver2,back2)
4	O2(0-0)	4	1	(back1,ver2,back2)
5	O(1D) 630 nm red line	5	1	(ver4,back4)
6	O(1S) 557.7 nm green line	7	1	(ver3,back3)
7	O+(2D) 732 nm ionized O	6	8	(ver7,back7)
8	O 844.6 nm.	6	7	(ver8,back8)
9	OH (9-4) P1(2) 779.4 nm	6	4	(ver6,back6)
10	OH (7-3) P1(3) 891.9 nm	2	1	(ver5,back5)
11	Na D lines	6	5	(ver9,back9)
12	O2 wideband centered @ 764 nm	6	3	(undef)
13	O2 wideband centered @ 761 nm	6	2	(undef)
14	calibration	6	6	
15	dark	7	7	