

NOAO

ENGINEERING CHANGE ORDER

BOARD NAME <u>TORRENT CCD PreAmp Transition</u>	ECO# TRNT-016	DATE <u>21APR2011</u>
BRD SERL# <u>007 ></u> REV _____	ART# _____	
PN# _____ REV _____	REV _____	
ASBLY# <u>TRNT-EL-04-0009</u> REV <u>A1</u>	PCB# <u>TRNT-EL-04-1009</u> REV <u>A</u>	
BOM# <u>TRNT-EL-04-4009</u> REV <u>A1</u>	SCH# <u>TRNT-EL-04-2009</u> REV <u>A</u>	
COGNIZANT ENGNR _____	APPROVD _____	

REASON FOR MODIFICATION:

Add improvements of protection diodes and regulated power with bypass caps, interlocking switch

DRAWINGS AFFECTED:	NEW REV
TRNT-EL-04-0009	B
TRNT-EL-04-1009	B
TRNT-EL-04-2009	B
TRNT-EL-04-3009	B
TRNT-EL-04-4009	B

DESCRIPTION OF MODIFICATION:

1. Fix signal labels on pcb
2. add protection diode to Hvbias
3. Change Op amps to ADA4841
4. Change R2, R5, R8, R11, R13, R17, R19, R23 FROM 249 to 1.47K
5. "Change compensation caps so that neither is installed"
6. Provide additional holes so more than one wire per clk & bias line can be accommodated
7. Hvbias lines AFE1 & AFE2 have 1uF caps to gnd & 10 ohm series resistors installed on all 16 lines
8. "change input power to +-10V from AFE, change input power capacitors to a higher voltage incase that option is used on the AFE from 10V to at 35V"
9. part marking section fix to be parts on this board (PL document)
10. Correct documents so that the connectors are properly installed by the asbly vendor
11. Add interlock switch to schematic and board, using grounding diagram for connections
12. Add regulators to take +-10V power to +-5 for video preamps
13. Change bypass on opamps to 10uf and .1uf
14. Move load resistor to top side of brd and put the leakage resistor on the bottom
15. Install 1uF caps on all bias signals
16. change series resistor on power rail from 10 ohms to 0 ohms

This section to be completed by reviewing authority			
Review Date:		Reviewer(s):	
Disposition:	<input type="checkbox"/> Approved	<input type="checkbox"/> Denied	<input type="checkbox"/> Request Additional Information