

# NOAO

## ENGINEERING CHANGE ORDER

BOARD NAME <u>Torrent CCD Preamp Transition</u>		ECO# <b>TRNT-029</b>	DATE <u>18JAN08</u>
BRD SERL# <u>ALL</u>	REV <u>B</u>	ART# <u>TRNT-EL-07-0007</u>	
PN# _____	REV _____	_____	REV _____
ASBLY# <u>TRNT-EL-04-0007</u>	REV _____	PCB# <u>TRNT-EL-04-1007</u>	REV _____
BOM# <u>TRNT-EL-04-4007</u>	REV _____	SCH# <u>TRNT-EL-04-2007</u>	REV <u>B</u>
COGNIZANT ENGR <u>R. George / P. Moore</u>		APPROVD _____	

**REASON FOR MODIFICATION:**

Set the appropriate gain and bandwidth. Modify grounding for noise reduction.

DRAWINGS AFFECTED:	NEW REV
TRNT-EL-04-0007	B1
TRNT-EL-04-2007	B1
TRNT-EL-04-4007	B2

**DESCRIPTION OF MODIFICATION:**

1. Change C17, C18, C19, C20, C21, C22, C23, & C24 from 0.1uF to 10nF. (.01uF)
2. Change R2, R5, R8, R11, R13, R17, R19, & R23 from 1.47K ohms to 383 ohms.
3. Change R3, R6, R9, R12, R14, R18, R21, & R24 from 100K ohms to 51.1K ohms.
4. Change C69, C70, C71, C72, C73, C74, C75, & C76 from 15pF to 82pF.
5. Add a 33pF capacitor in parallel with R3, R6, R9, R12, R14, R18, R21, & R24.
6. Install a 20awg solid buss wire jumper from the analog common side of C2 daisy chained to TP2, TP4, TP6, TP8 (video return).
7. Install a 20awg solid buss wire jumper from the analog common side of C1 daisy chained to TP10, TP11, TP14, TP16 (video return).
8. Install Kapton insulating tape between the J1 and J2 standoffs and the PCB to prevent potential analog common to chassis ground shorts. \*Note that a suitably sized mylar washer is an acceptable substitute for the Kapton insulating tape under the standoffs.

This section to be completed by reviewing authority			
Review Date:	Oct. 2011	Reviewer(s):	R. George & Peter Moore
Disposition:	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Denied	<input type="checkbox"/> Request Additional Information