Pre-Dive Camera Setup
Ikegami HDL-40

First! Black Balance: (Camera has to warm up for 20 minutes before adjustment)

- **Operator Action:** Press AWB/ABB momentary switch down towards 'ABB'. (Fig. 1)

(Fig. 1)

- **Camera Response:** Indicator above AWB/ABB switch glows orange when camera initiates process. (Fig. 2)

(Fig. 2)

- **Camera Response: Camera caps iris automatically (Black Screen).**
- **Camera Response:** Balancing process is run over 4-8 seconds and the iris is uncapped by the camera automatically following completion of the process. The indicator light in Fig. 2 should not be lit.

** If the iris is not capped automatically the camera is in an error state which will not allow the procedure to be properly completed. The indicator in Fig. 2 above will flash orange if the process is not executed correctly. Clear this alarm by pressing the switch towards 'AWB' and repeat.

Second! White Balance: (Needs to be done below photic zone or ideally at site and when water clarity or working distance from camera/lights changes)

- **Operator Action:** Place a 100 IRE white reference card in front of the lens, filling 50-75% of the field of view (Zoom if necessary). Check your exposure (iris) to ensure that enough light is getting on the card, but it is not over-exposed. Check that the card is uniformly lit across the entire surface, without shadows or ripples. Failure to setup this procedure exactly as above will result in either an unsuccessful attempt by the camera to complete the process, or a less than accurate color representation recorded during the dive.

- **Operator Action:** Select "auto iris" so it is lit. Press AWB/ABB momentary switch up towards 'AWB'. (Fig. 3)

(Fig. 3)

- **Camera Response:** Indicator above AWB/ABB switch flashes green when camera initiates process. (Fig. 4)

(Fig. 4)

- **Camera Response:** Indicator (Fig. 4) goes out when process is completed correctly.

** If not completed correctly the indicator will flash green. If flashing, you must press the 'AWB/ABB' switch towards 'AWB to clear the alarm. Check that all setup procedures were done correctly and repeat.