

No Label was not connected

# **SMD Camera Manual Description**



RG39 Cable from TTL converter to "NO LABEL", NOT "SYNC"

This Photo shows the previous connection when I did "Manual" Triggering. NOT CURRENT CONFIGURATION



TTL trigger from delay box CH A to "SYNC", NOT "No Label"

# **Current Configuration in Tunnel**





## One BNC adaptor to "SYNC"

## **TTL Module is disconnected**

http://www.epixinc.com/products/ttlmod.htm

Converts TTL Trigger to Differential for input into PIXCI Board Converts PIXCI Board Differential Strobe Output to TTL



We don't need this TTL module. So I disconnected the RS-39 cable. Camera is triggering using BNC input through "SYNC" as we did at MIT.





Lens mount alignment : The gap between camera and objective lens was very small. The focusing adjuster roatated stiff. Camera holding bar and XY stage holding bar Were rotated. NOT WELL MOUNTED NOW. IT WAS ASSEMBLED AT BNL. NEVER DISASSEMBLED AFTER IT LEFT BNL.

- "pcmerit08" is installed.
- outlet : 3009/15
  - (3 outlet left in tunnel)
- -IP address : 137.138.184.21
- connected to iboot4



Viewport 1, Sep. 5, 2007



Brightness changes suddenly. Possibly optics problem.

The edge is very sharp. Possiblely optics may got damaged.

Circle is shifted. Alignment is broken. Window is not clear.

Viewport 1, Sep. 13, 2007

Viewport 2, Sep. 5, 2007



#### Viewport 2, Sep. 13, 2007



Window is not clear. Brightness changes suddenly. No field of view is visible.

#### Viewport 3, Sep. 5, 2007

Viewport 3, Sep. 13, 2007









Field of View is visible clearly OBJECTIVE LENS IS NOT WELL MOUNTED



#### 1W laser, 0.5s CW pulse, 0.5 ms fps



# **Moving Fan image**



Manual triggering 0.1 ms fps. 17 frames. 8, 12(default), 16 bit file save support. jpg, tif, ...etc support. Possible to save files Independently. Possible to save files in one file. But the file size Increases up to 10 Mbyte because it saves all of the buffer Images (180EA).

No 14 degree rotation Different with previous software Software shows like this. Not real

#### **CONFIRMATION**

- ALL COMPUTERS / EQUIPMENT ARE ABLE TO DO POWER RECYCLE AND CONTROL REMOTELY AND ALL 4 IBOOT IS WORKING
- SMD CAMERA IS WORKING CORRECTLY AND RESPOND CORRECTLY TO THE EXTERNAL TRIGGERING INPUT
- ALL 4 CAMERAS WORK SIMULTANEOUSLY

#### **THINGS TO BE RESOLVED**

- SHOULD OPEN THE SNOUT AGAIN AND INSPECT OPTICS STATUS AND THEN REPAIR/REALIGN OPTICS. BE PREPARED FOR THAT.
  → PREREQUISITE : THOMAS SHOULD COME AND COOPERATE WHEN THERE IS A CHANCE TO OPEN THE SNOUT.
  WE HAVE ONE EXTRA OPTICS-FIBER SET. JUST IN CASE, WE CAN REPLACE ONE VIEWPORT.
- SHOULD MOUNT SMD OBJECTIVE LENS AGAIN. THE SPACE WAS VERY TIGHT AND NOT HOLDED TIGHTLY.
- CHECK 25W LASER INTENSITY. HOW? SOFTWARE DIFFERENCE? CONNECTION WAS ALREADY CHECKED AGAIN. NOW USED MAXIMUM INPUT VOLTAGE, -20V