

COHU, INC. Electronics Division

Installation and Operation Instructions

1.0 INTRODUCTION

The 8240 Series Environmental NTSC Color Camera consists of a Model 8210 Series NTSC Color Camera enclosed in a 4.5-inch Environmental Housing. Technical information for the Camera is contained in the 8210 Installation and Operation Instructions manual (6X-917). Technical information for the Housing is contained in the 4.5-inch Environmental Housing Installation and Operation Instructions manual (6X-923). This manual is incomplete unless accompanied by both of the aforementioned manuals.

See table 1 for a pinout for rear plate connector J1. Table 2 contains a model number interpretation of the Model 8240 Camera. Figure 1 contains an overall schematic for the Camera.

NOTE

This manual is incomplete unless accompanied by the 8210 Installation and Operation Instructions (6X-917) and the 4.5-inch Environmental Housing Installation and Operation Instructions (6X-923).

Table 1. J1 Pin Functions

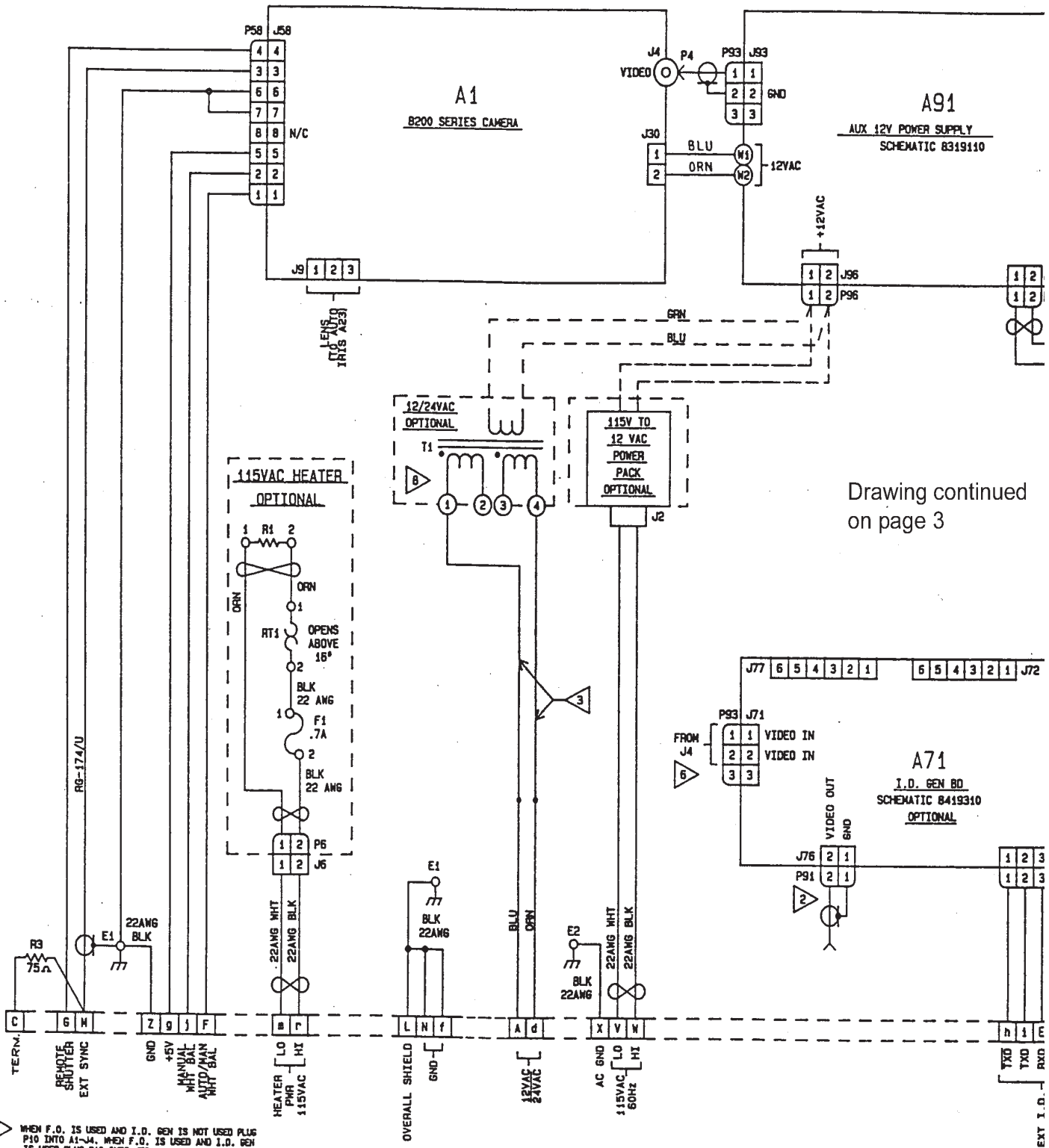
J1	PIN FUNCTION
A	12/24 Vac (Camera power)
B	Position reference return
C	Select 75-ohm ext. sync termination ¹
D	Focus position
E	RXD (programmable ID gen) ⁴
F	Auto/Manual white balance (gnd=manual)
G	Remote shutter/integration on/off (gnd=off) ²
H	N.C.
J	Ground (video coax shield)
K	Video out, 75 ohm
L	Ground (cable overall shield)
M	External sync in
N	Ground (chassis)

J1	PIN FUNCTION
P	Ground (lens cable shield)
R	Zoom in
S	Focus in
T	Iris in
U	Ground (zoom, focus, iris common)
V	115 V ac neutral (Camera power)
W	115 V ac line (Camera power)
X	115 V ac ground
Y	Zoom position
Z	Ground ³
a	RXD (programmable ID gen) ⁴
b	Position reference
c	Auto/Manual iris select (gnd=manual)
d	12/24 Vac (Camera power)
e	N.C.
f	Ground (chassis)
g	+5 V dc (for rem. wht. bal. control)
h	TXD (programmable ID gen) ⁴
i	TXD (programmable ID gen) ⁴
j	Remote white balance in (0 to +5 V dc)
k	Ground (programmable ID gen) ⁴
m	115 V ac neutral (heater power)
n	N.C.
p	N.C.
q	N.C.
r	115 V ac line (heater power)

1. Pin C can be jumpered to pin N or f to provide 75-ohm termination for the external sync input (pin M).
2. The Camera side panel shutter/integration switch must be in either shutter or integration.
3. Pin Z should float at the control panel to avoid ground loop problems.
4. Pins E, a, h, and i accept RS-422 control and data signals for the programmable ID generator option.

8240 SERIES ENVIRONMENTAL NTSC COLOR CAMERAS

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Drawing continued on page 3

5. WHEN F.O. IS USED AND I.D. GEN IS NOT USED PLUG P10 INTO A1-J4. WHEN F.O. IS USED AND I.D. GEN IS USED PLUG P10 INTO J73.

3. INSTALL WIRES TO T1 WHEN 12VAC OR 24VAC OPERATION ARE APPLICABLE.

2. WHEN I.D. GEN IS USED ONLY PLUG P91 TO J76.

1. ALL WIRES ARE 24AWG.

8. FOR 12VAC ADD JUMPERS T1-3 TO T1-1 & T1-2 TO T1-4. FOR 24VAC ADD JUMPER T1-2 TO T1-3.

7. REW'D WITH LENS WITH FOLLOWER POTS ONLY (POSR P10X).

6. WITH I.D. GEN AND/OR FIBEROPTICS USED PLUG CABLE FROM A1-J4 TO A71-J71.

NOTES: UNLESS OTHERWISE SPECIFIED

(from dwg.

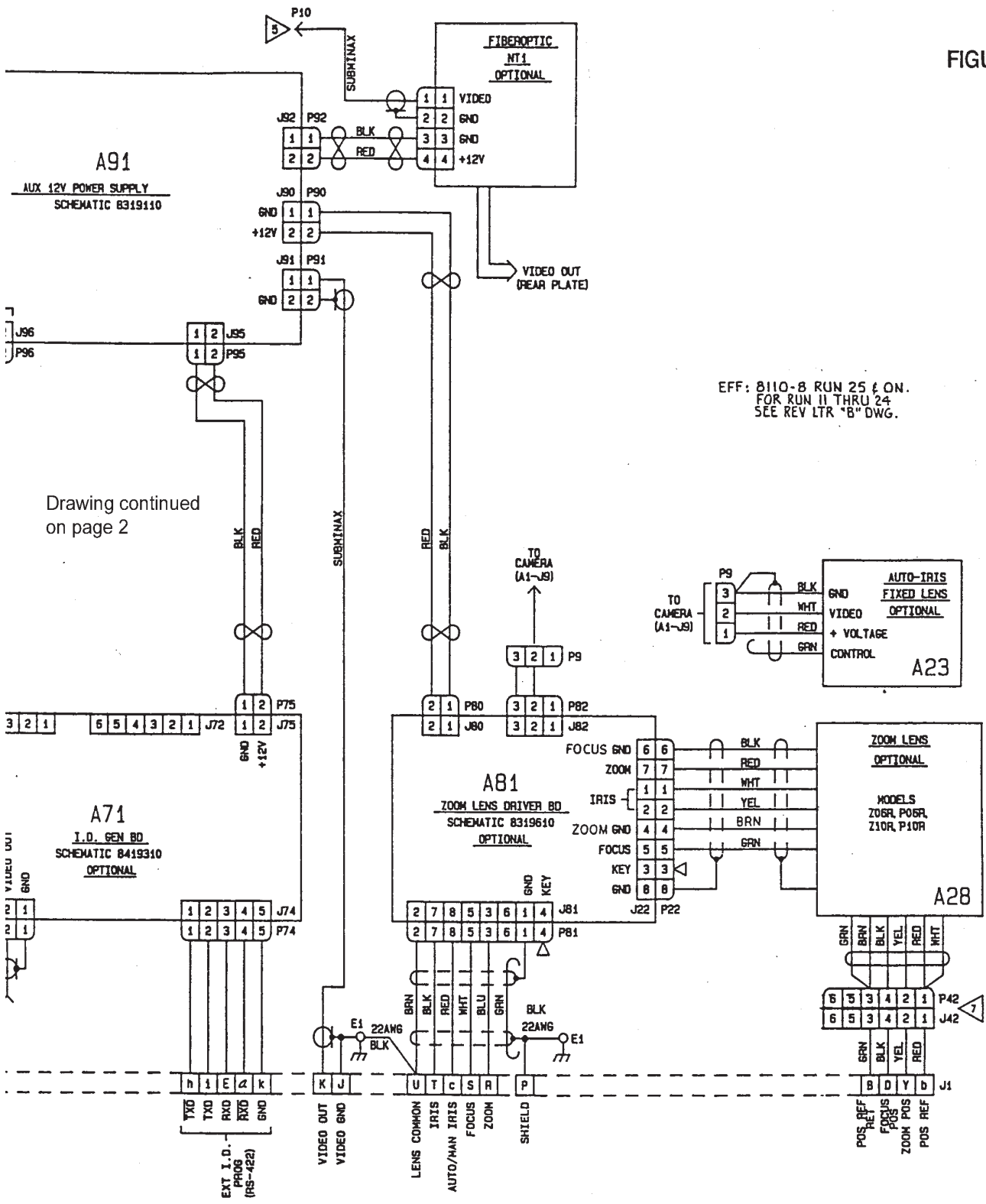


FIGURE 1

Drawing continued on page 2

EFF: 8110-B RUN 25 & ON.
FOR RUN 11 THRU 24
SEE REV LTR "B" DWG.

FIGURE 1
Model 8240 Environmental
NTSC Color Camera
Schematic Diagram

(from dwg. D8418000G)

Table 2. Model Number Interpretation

