

Service Bulletin

Configuration Procedure for new ELO TOUCH ET1739L Monitor

Task

Timing		Category		Scope	
Next service as agreed with customer	<input type="radio"/>	Apply at all sites			Problem Record: PRB0045761
	<input checked="" type="radio"/>	Apply at affected sites as listed below			
	<input type="radio"/>	Optional to improve functionality of product			

Task Tracking

After completion of your task the following entry in your Service Report is required:

DD+DIS104.15E

* Insert the document number into the field "Comment" (SMS form).

Purpose of this document:

- This bulletin informs the field about a calibration issue that occurs with some of the new ELO ET1739L monitors for DX-D100 / 100 Wireless.
- It provides all relevant information about the specific configuration/calibration steps required to avoid this issue.
- It provides the solution for the listed problem record.

Affected serial number(s) / batch: I14C019438 0 – 100; I14C019415 0 – 100

The signatures on the approval page indicate the solutions described in this Service Bulletin have been reviewed and are NOT reportable because no actions are taken to reduce a "Risk to Health" according to our risk assessment process.



1 Introduction/purpose

Symptom: Issues with calibration, namely SMPT, emerged in the U.S.

PRB0045761 The 5% and 95% boxes inside the 0% and 100% boxes on the SMPTE pattern are not visible when the unit is in its normal viewing position.

Cause Monitors with the serial numbers I14C019438 0 – 100 and I14C019415 0 – 100 require some specific configuration/calibration steps.

Solution Perform manual adaptations to correct the limited gray scale capabilities of the monitor display.

The described issues were discovered during the DX-D 100 / DX-D 100 Wireless acceptance test procedure.

2 Prerequisites



TOOLS:

- Standard engineers' toolkit



REFERENCED DOCUMENTS:

- NX 2.0.8900 - 3.0.8900 - Service Manual, Document ID 47338028
Computed Radiography > CR Workstation Software > NX 2.0.8900 - 3.0.8900 > Service Manual
- DX-D 100 / DX-D 100 Wireless - Mobile X-Ray Unit Service Manual, section 2.2.3.,
Console Assembly, Document ID 41600560
Direct Radiography > DX-D 100 > DX-D 100 Generic > Service Manual

3 Instructions



REQUIRED TIME:
30 minutes

Perform the following additional calibration/configuration steps to ensure correct functionality.

3.1 Adjustment workflow at the monitor

- (1) Access the buttons for adjusting the on-screen display (OSD).
See figure 1 for the position of the buttons.

For a description of how to access the monitor, refer to the *Troubleshooting* chapter in the DX-D 100 / DX-D 100 Wireless - Mobile X-Ray Unit Service Manual .
See Referenced Documents in section 2 of this bulletin.

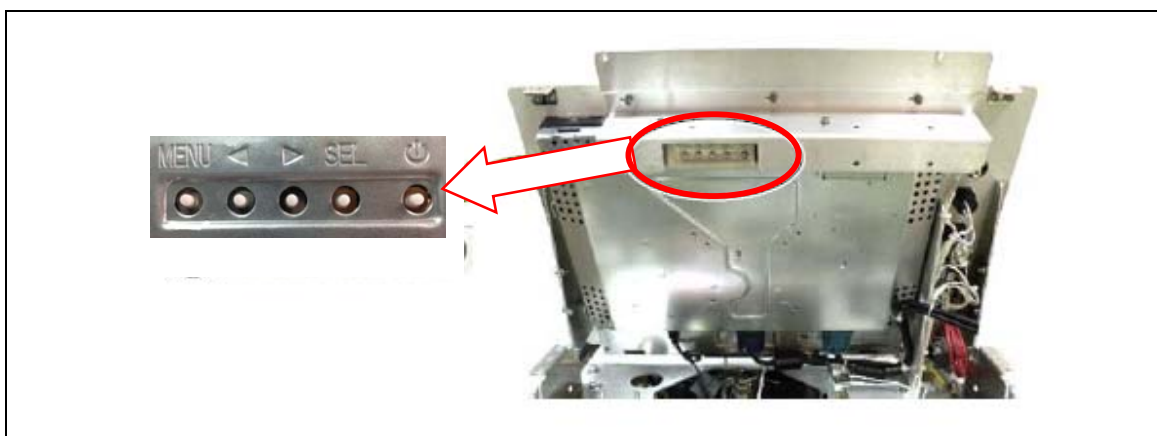


Figure 1

- (1) Press **MENU** to enter the main menu in the OSD.



Figure 2

- (2) Press the  button several times until the **Color** option is selected. See figure 4 on the following page.

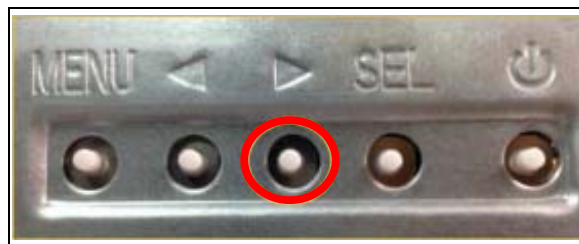


Figure 3

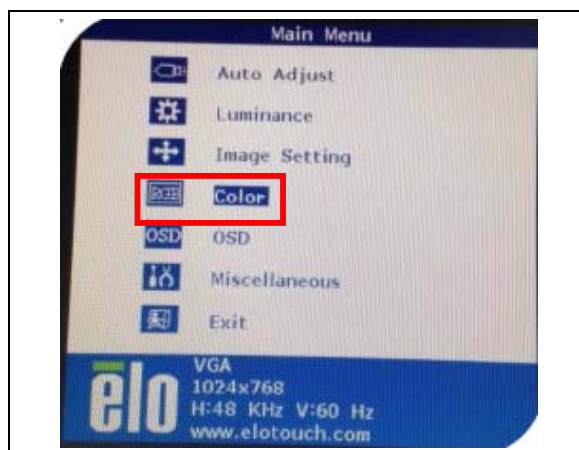



Figure 4

- (3) Press **SEL** to select this option.



Figure 5

- (4) Press the  button several times until the **7500K** option is highlighted. See figure 6.

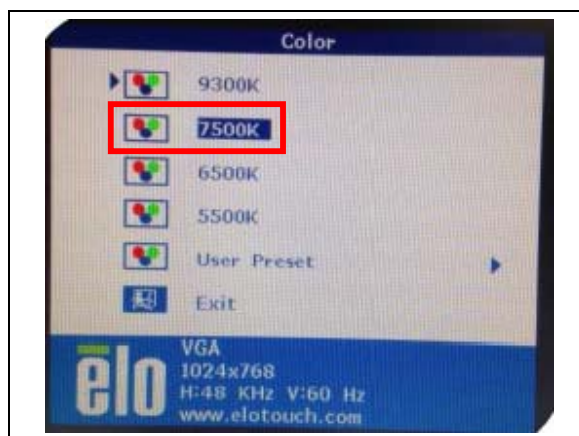


Figure 6

- (5) Press **SEL** to select this option.

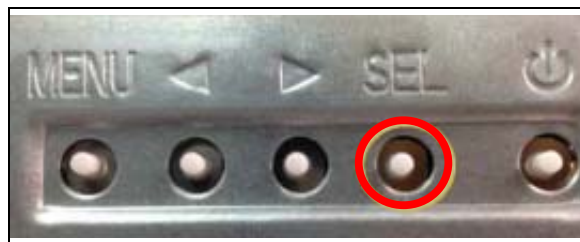


Figure 7

- (6) Press **MENU** twice.
(7) Press **MENU** once again.



Figure 8


- (8) Press the  button several times until the **Luminance** option is highlighted. See figure 9.



Figure 9

- (9) Press **SEL** to select this option.

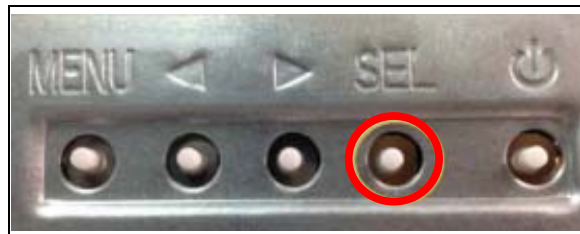


Figure 10

- (10) Make sure that the values shown in figure 11 are set.

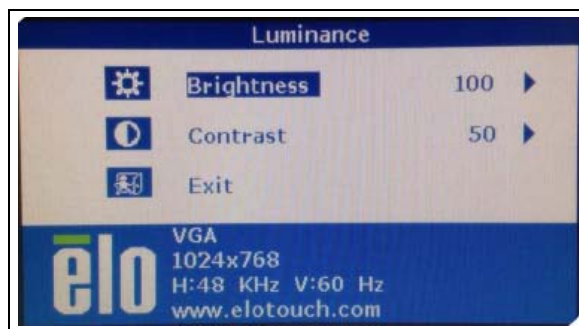




Figure 11

- (11) If other values are set, use the two **SEL** buttons   to adjust the values.

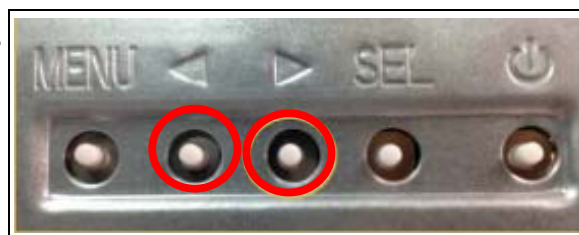


Figure 12

- (12) Press **MENU** twice.

The values are set now.



Figure 13

3.2 Adjusting contrast and brightness in the graphics card settings

- (1) Go to the Windows® Control Panel menu.
- (2) Click **Intel(R) GMA Driver for Mobile**.

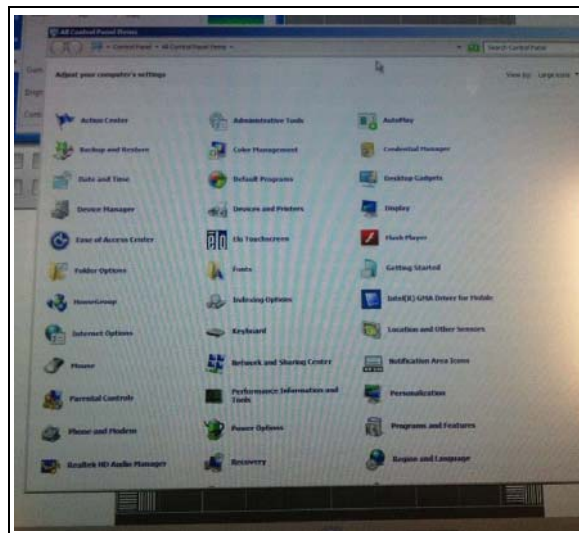


Figure 14

- (3) In the Graphic card menu, click the **Color correction** button.

See red marking in figure 15.



Figure 15

- (4) Use the **Brightness** and **Contrast** options to adjust the screen settings.

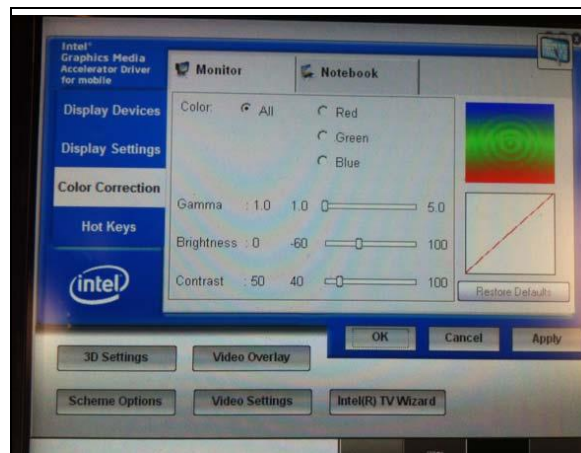


Figure 16

The goal is to see

- a darker 95 % square in the full white square in the SMPTE pattern and
- a brighter 5 % square in the black square of the SMPTE pattern.

See Figure 17.

For detailed information, refer to chapter 05 – *Monitor Options* in the *NX 2.0.8900 - 3.0.8900 Service Manual*. See section 2, *Referenced Documents*, in this bulletin.

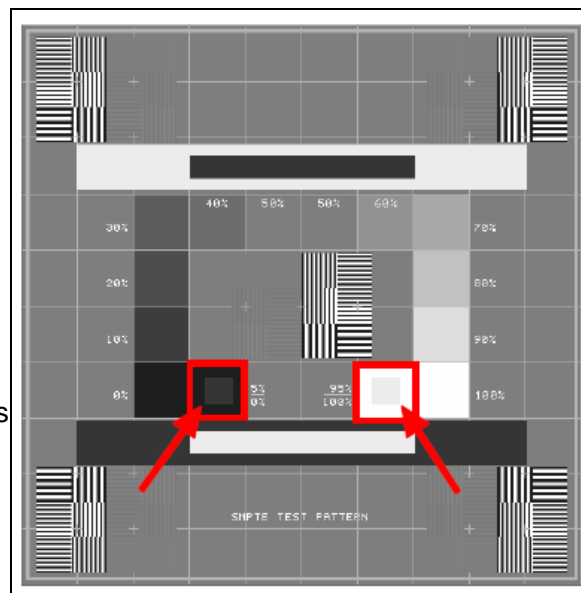


Figure 17



4 Verification

Perform acceptance test and verify if the values are correct.

5 Keywords

ELO monitor ET1739L; SMPT; color correction

6 Version history

Version	Change	Date
1.0	Initial version	07-2015



Details as of PDF Creation Date

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Signatures:

1. Josef Wagner (agwj) on 2015-07-14 05:03 PM CET
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- **Approval Workflow started on 2015-07-14 04:54 PM CET**
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