

### Executive Summary:

This procedure steps the technician through updating firmware on Elo 5501LT IDS monitor.

Required Materials:

- Computer with Windows XP or Windows 7
- Video cable (VGA, HDMI, or DisplayPort)
- USB cable
- ISP Tool: <u>https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/EdxaJU4mYtRNoWJQ3bwxKyo</u> <u>BR9b3Ax6i5YVTNa576uLp4A?e=gNxJQE</u>
- Virtual COM port driver: <u>https://goo.gl/SQ2UyF</u>
- Firmware binary file: ET5501LT\_0x7BD1\_Rev.F\_CEC\_20170516.bin: <a href="https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB">https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB</a> <a href="https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB">https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB</a> <a href="https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB">https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB</a> <a href="https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB">https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB</a> <a href="https://elotouch.sharepoint.com/">https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB</a> <a href="https://elotouch.sharepoint.com/">https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB</a> <a href="https://elotouch.sharepoint.com/">https://elotouch.sharepoint.com/:u:/s/KnoxvilleTechnicalServices/Ed0kJQxexmpFrez9AE4vQ1sB</a> <a href="https://elotouch.sharepoint.com/">https://elotouch.sharepoint.com/</a> </a>

### **Procedure**

### 1) Initial Preparation

- a) Connect video and USB cables from the host PC to the IDS display.
- b) Power on the monitor and host PC.
- c) Download, extract and install "Virtual COM port driver."
- d) Download the "*Firmware binary file*" and copy to the desktop.

### 2) Download, extract and start the ISP tool

a) Default extracts to a folder named ISP\_Tool V4.5.183; open the folder and start the ISP\_Tool V4.5.183 executable. The startup screen appears;





### 3) Configure Connection and Speed

- a) Click on the **Config** tab
- b) Select the "*Use USB*" and "*Auto release USB*" check boxes.
- c) Set "12C Speed Setting" to 14

MStar ]	SP Utility \	/4.5. <mark>1.8.</mark> 3									
Sevice	S Load		Auto	B. P. V.	Restore	HDCP	Erase	Config	Connect	Dis Con	
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ISP Sla	ve Addres:	s: 0x92 🗲	] Seri	al Debug S	5lave <mark>Ad</mark> dre	ss: OxB2	2 Tol	lerance ify Repeat	5		
VP Pin &	LS Pin:		1							2	
lapsed Tir	ne:					USB 90k	Hz				



### 4) Select New Firmware

- a) Click on the "*Read*" tab
- b) Select the "*Read*" button and choose the Firmware binary file that you copied to the desktop in step 1, d.

Device Load	Read	Auto B. P. V. Restore H	CP Erase Config Connect Dis C				
Read	C:\Users\	Elo\Desktop\5551L firmware up	e\ET5551L_revB_0xF45E_2017092 ▼				
Checksum : 0xF45E		Hex files Unused Bytes: ? 0x00 ^ 0xFF	File Status Start Addr. : 0x000000 End Addr. : 0x078643				
			Cal. Check Sum				
			Update Checksum :				

c) Open the "*Auto*" tab and uncheck the "*ReConnect*" box.

MStar ISP	Utility V4.	5.1.8.3			-					X
Sevice	S Load	<b>o</b> Read	Auto	5. P. V.	Restore	HDCP	Erase	Config	Sonnect	Dis Cor
Src: C:\User	rs\Elo\Desk	ktop\5551	L firmware u	ipdate\ET5	551L_revB_	0xF45E_20*	170926_for 1	MDC FF 960	)0bps.bin 9/2	27/2017 1
Recol	File			Key	-					
Check	sum : OxF	45E	Key #	:1	1	<sup>D</sup> rogram File	Ready !!			*
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🔽 Erase	Device		Exit IS	Р						
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IP Pin & CS	Pin <mark>: D</mark> efau	lt	<u>I.</u>							
lapsed Time:	8					USB 90k	(Hz			

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#### 5) Install new firmware on the IDS Display

- a) Press the "*Connect*" tab and allow the application to connect to the device.
- b) A pop up stating the Device Type will open. Press **OK**.

Device Load F	lead Auto	<b>.</b> P. V.	Restore	HDCP	Erase	Config	Sonnect	Dis Con
Src: C:\Users\Elo\Deskt	pp\5551L firmware <b>⊡ Blank</b>	update\ET5	551L_revB_I	DxF45E_201	170926_for 1	MDC FF 960	10bps.bin 9/2	//2017 10
Checksum : 0xF4	SE Key # ⊽ Progr ⊽ Verify	am	F	Program File	Ready !!	l v4	×	<b>N</b>
<ul> <li>Erase Device</li> <li>All Chip</li> <li>File Area</li> <li>Erase Area</li> </ul>	Exit IS	P	<b>3</b>	Run	Devie	ce Type is N	MX25L1606E	
C Partial Erase	Setup	KBytes		Kun				_

c) Select "*Run*" this will start the process of updating the firmware. Please note that this process will take a few minutes. Please do not interrupt, unplug any cables or the monitor while firmware is being updated.



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d) When the process is complete, the IDS display will conduct a couple of restarts. After monitor finishes restarting you will see "**PASS**" in green under the status bar. The firmware is now updated to the latest firmware revision. You can disconnect the ISP Utility and close.

Sevice	S Load	Read	Auto	<b>B.</b> P. V.	Restore	HDCP	Erase	Config	Connect	Dis Cor
Src: C:\U	sers\Elo\D) Connect ad File	esktop\555	IL firmware	update\ET5	i551L_revB_	_0xF45E_201	70926_for	MDC FF 960	00bps.bin 9/2	27/2017 1
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PPin &	S Pin: Def	ault	1			<i></i>		1.02		

### Contact Information:

For technical support or help with this procedure, please call 844-435-6832 or email <u>elotech@eloouch.com</u>. If not in the North American region, may also contact the technical support group for your area here: <u>http://support.elotouch.com/TechnicalSupport/ContactTechnicalSupport/</u>