

	Doc or ECO #:	ECO-71152-005	Date:	07/01/2021	Author:	SL
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:		Date:	7/1/2021	Quality Approval:	aeg

P/N #:	71152	Effective Date:	July 1, 2021
Title:	Pro 4 Ultra Communications Device Upgrade		

1.0 Purpose / Summary

- The purpose of this ECO is to replace the FTDI with a Sealevel to correct the video noise induced by the Sabrent USB hub when connected to a 131' PPT Tether.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
71152	Top Level Assembly	☐	☐	☒	
71124	Modified For Sealevel	☐	☐	☒	
91772A148	PHPS 6-32 x 1/2"	☐	☒	☐	
91831A007	6-32 Nylock Nut	☐	☒	☐	
91772A112	PHPS 4-40 x 5/8"	☐	☒	☐	
91772A113	PHPS 4-40 x 3/4"	☐	☒	☐	
94639a201	#4 x 1/4" Nylon Spacer	☐	☒	☐	
311-1.00KCRCT-ND	FTDI Part	☒	☐	☐	
768-1043-ND	FTDI	☒	☐	☐	
602-1853-100-03	26AWG Red Wire, Removed 1.75"	☒	☐	☐	
517-5504	FTDI Part	☒	☐	☐	
7856K173	1/8" Shrink Tube, Removed 0.5"	☒	☐	☐	
CON-003	SeaLevel	☐	☒	☐	
71293	Velcro Hook, Added 1"	☐	☒	☐	
71294	Velcro Loop, Added 1"	☐	☒	☐	
52343	Foam	☐	☒	☐	

3.0 Detail

- After the Sabrent USB Hub upgrade in ECO-71152-004, the video would become noisy when used with 131' PPT Tethers.
- We were able to isolate the issue to the FTDIs like if Isolation.
- To correct the issue, the FTDI was replaced with a Sealevel.
- No units have been shipped with the Sabrent USB Hub FTDI Combination.
- Any Ultra system updated to this standard will need the Sealevel driver installed on to the system. The driver is already included with the build, refer to WI-71071 for installation directions.

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4.0 Disposition of Material

- All stocked 71152 Pro 4 Ultra lite Panels should be upgraded to the latest standard set by this ECO
- All stocked 73267 Dell 3501 Programmed Computers should have the Sealevel Driver Installed

5.0 Action Items

Action	Department	Acknowledgement Initials
Update BOMs	Engineering	SL
Update Drawings	Engineering	SL
Update WI	Engineering	SL
Update Epicor	Engineering	SL
Notify Vendor Of Latest Revision 71124	Purchasing	RM

6.0 Modified / Referenced Documents:

Document	Current Revision
BOM-71152	I
WI-71152	G
ME-71124	C
WI-71071	J

7.0 Revision History

Date Revised (mm-dd-yyyy)	Location of Change (section, paragraph no., step no., etc.)	Description of Change Made	Name of Person making the Change
7/1/2021	All	Init	SL