ITCU Software Release v2.5.3

Compared with v2.3.1

Release date: 2023-06-14

General

The new ITCU-C v2.5.3 comes with Stability and usability improvements together with

some user interface changes.

This ITC-U software is a maintenance release and has been focused on following areas:

- Correction of functionality to improve results for customer.
- Easier to use functions in M-H and read text on the panel.
- Reduced time to first print and between embroideries.

Autopause has been introduced and is a timer that starts when the thread is not pulled, either manually or by the embroidery machine. When autopause reaches 0, the ITCU will pause the print job automatically. The autopause will also pause the maintenance timer during the time that the print job is paused. Before the autopause has reached 0, the ITCU continue the print job if the thread starts to move. When the autopause timer reaches 0, the operator must not pull the thread, not manually or by the embroidery machine.

Versions

Software
ITCU Software Package: 2.5.3
Application Software (ICM): v1.18.3
Control Software (CTL): v2.5.2
Printer Firmware (HDB): v1.10

Snaps
Application Software (ICM): 10055, rev 8063
Installer Software: 8830
Display Software: 6782
System Software: 0.0.17

Main Features

- Autopause to reduce ink consumption.
- Heating elements are enabled on startup for faster startup.
- Disable stop/pause during print to reduce risk for thread breaks.
- Modified UX for Multi Head host.
- Modified UX for Multi-thread.
- Retrain of CCP updated to go back to factory defaults.

- Analytics page updated with new useful information.

Other Features

- Retrain of CCP now has two factory defaults, added for thick material.
- Export DST or CSE file from gallery.
- Beta: Automation API v1.1
- Beta: Embroidery Machine Protocol up to v. 0.10.

Fixes

- Languages updates.
- Improved handling on exit feeder module
- Improved communication and failure management f specific address:
  - CTL Communication errors
  - Power on error
  - Unknown error

Known limitations

MINOR:
- Open Cartridge door during maintenance procedure can make the unit become inoperable and require hard reset or need to call service technician.
  - Workaround: Ensure that cartridge door is always closed during maintenance procedure and printing (stop print before open cartridge).
- There is no clear indication to the user that the CCP setup is trained correctly or that it is suitable for the current garment embroidered on.
  - Workaround. Analytics/Embroidery can used for evaluation if the CCP setup was trained properly (should be indicated by green and not yellow status for that embroidery).
- Sometimes operator panel (and web) does not display ink status, temperature and embroidery files.
  - Workaround: Logout and login again then the display is correctly updated
- The print screen becomes temporary incorrect when returning from auto-pause during coloring next embroidery and for manual thread pull.
  - Workaround: Be aware of incorrectness and continue operating
- Risk for thread break if transition to auto-pause is entered during needle change from standard thread to coloreel thread.
  - Workaround: As an operator be aware of the limitation.
- For older ITCU HW (CTL) the LED stripe is always green since it cannot be controlled in old HW.
  - Workaround: Awareness as operator.
- Currently the ITCU does not have a graceful behavior for the display during shutdown.
  - Workaround: Operator Awareness.
- Opening the cartridge door does not stop the print. A maintenance window appears and the operator and stop is disabled.
  - Workaround: Ensure that cartridge doors is closed during printing. When need to change ink cartridges ensure that you stop printing (by pressing stop).
- Export of CSE and DST sometimes fails but is indicated as successfully. The file is created but is 0 kB in size.
  - Workaround: Re-try operation or perform action twice every time.
- Display of stitch count is 0 after performed needed maintenance during an embroidery. When starting embroidery machine the correct stitch number is displayed.
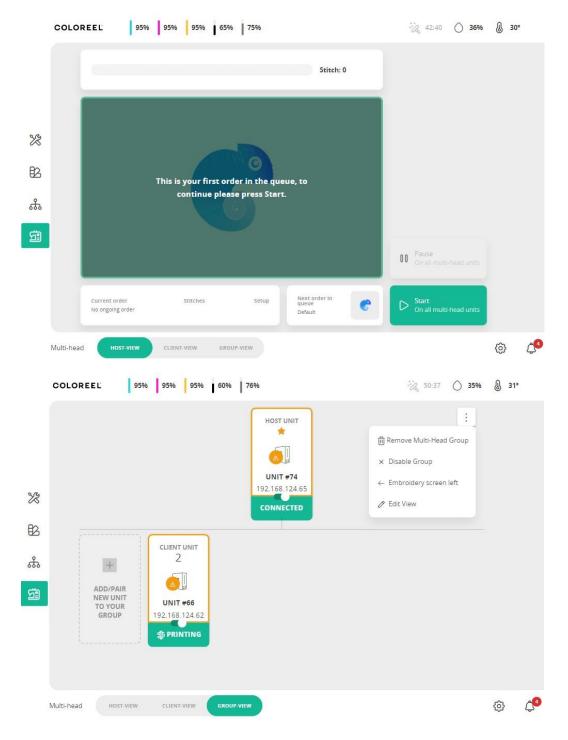 - Workaround: Awareness by the operator

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Examples of added and updated pages in operator panel

New Multi Head view

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Auto Pause Timer

Export CSE and DST from gallery

New graphical user interface for Analytics page

Total Embroideries	Passed Embroideries	Non-training Embroideries	Aborted Embroideries	Average Variation	CCP above 250 mm
173	42	89	42	124 mm	20

Time	Status	File name	Setup	Stitches	Thread Consump.	CCP Variation Range
2023/05/10 16:58:04		Susanne/Butterfly.CSE	T-shirt	5663 / 5643	17,818	189 – -77
2023/05/10 16:15:43		Susanne/WildFlora_CC_FloraFauna_cs1527.CSE	T-shirt	24464 / 24463	96,753	165 – -259
2023/05/10 15:40:40		Susanne/WildFlora_CC_FloraFauna_cs1527.CSE	T-shirt	24466 / 24463	105,166	329 – -306
2023/05/10 14:35:01		127_4cl_green-yellow_Adidas_logo_leaf_vertical.CSE	T-shirt	2553 / 2551	9,304	51 – 0
2023/05/10 11:27:26		127_4cl_green-yellow_Adidas_logo_leaf_vertical.CSE	T-shirt	0 / 2551	N/A	N/A
2023/05/10 11:19:03		127_4cl_green-yellow_Adidas_logo_leaf_vertical.CSE	T-shirt	2554 / 2551	9,215	114 – 0
2023/05/10 11:04:17		13449_6cl_Purple_CC Melting Mushroom (1).CSE	Default	0 / 3012	N/A	N/A
2023/05/10 08:37:24		Elias/Parrot_2.CSE	Default	59982 / 59978	229,896	175 – -6
2023/05/10 07:58:24		Elias/Lion_10.CSE	Default	22297 / 22297	79,363	0 – -61
2023/05/10 07:55:41		Elias/Lion_10.CSE	Default	0 / 22297	N/A	N/A
2023/05/10		Elias/Lion_10.CSE	Default	0 / 22297	N/A	N/A

Analytics   SYSTEM AND CONSUMABLES   EMBROIDERY

⑦ Help

Summary

Total Embroideries

Sum of passed, non-training and aborted embroideries.

❚ Passed Embroideries

Number of finalized embroideries passing training criteria.

❚ Non-training Embroideries

Number of embroideries not passing training criteria.

❚ Aborted Embroideries

Number of embroideries passing manual thread pull and then aborted or stopped by operators.

Average CCP

Average CCP variation of all Passed embroideries.

CCP above 250mm

Number of Passed embroideries with CCP variation above 250mm.

Table

Time

Time when embroidery started.

Status

❚ Passed ❚ Non-training ❚ Aborted

File name

Name of the .CSE file.

Setup

CCP setup used during embroidery.

Stitches

Number of stitches / DST stitches.
📎 Start at stitch was performed.

Thread consump.

Thread consumption for the embroidery.

CCP variation range

Min max of CCP for color changes within the embroidery.