ITCU Software Release v2.7.2

Compared with v2.7.2. Release date: 2024-01-08

General

The new ITCU v2.7.2 comes with usability and stability improvements.

Versions

Software
ITCU Software Package: v2.7.2
Control Software (CTL): v2.6.0
Printer Firmware (HDB): v1.11
Application Software (ICM): v1.21.3

Main Features

- Manage maintenance during print improvement.
    - LED (flashing green) for the operator to consider maintenance needs.
    - If the operator fails to stop the Embroidery Machine in time for maintenance, then ITCU will, after forced maintenance is performed, remain in the current print (earlier print was stopped).
- Transition to auto-pause.
    - LED (flashing yellow) to assist the operator to indicate that during transition the Embroidery Machine shall not be started.

Other Features

- Improved Printer stability (new HDB FW)
- New notification related to Cartridge Door

Fixes

- Corrected: Sometimes operator panel (and web) does not display ink status, temperature, and embroidery files.
- Corrected: The print screen becomes temporarily incorrect when returning from auto-pause during coloring next embroidery and for manual thread pull.
- Corrected: Display of stitch count is 0 after performed needed maintenance during an embroidery. When starting the embroidery machine, the correct stitch number is displayed.
- Corrected: Start-at-stitch option can become disabled (not for the 1st embroidery).
- Cartridge Door management related to Waste Tank
- Improved CCP management related to Start-at-stitch
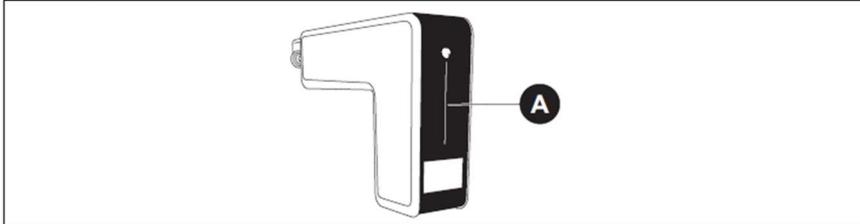- Improved ITCU internal communication

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LED related changes

Extract from updated [Full operator Manual]

3.7 ITCU LED light overview

The ITCU LED light (A) shows on the front of the ITCU. The different colors indicate the status of the ITCU.

Green	The ITCU is printing, is ready to print or is autopaused.
Flashing green	The ITCU is about to perform maintenance during print. Refer to chapter *5.10*.
Yellow	The ITCU is warming up, or is warm but no print is selected.
Flashing yellow	The ITCU is in the transition phase when the ITCU is going into pause. Do not start the embroidery machine.
Pink	Error. The ITCU has an error notification that needs attention.
Blue	Maintenance or service. The ITCU performs maintenance tasks or is put into service mode.

Note: The LED light with status indication is available in the newer versions of the ITCU. In older versions of the ITCU, the LED light has the color green only.

5.6.8 Autopause

The autopause (A) is a timer function that starts when the thread is not pulled, either manually or by the embroidery machine. When the autopause timer reaches 0, the ITCU will pause the print job automatically. The autopause function will also pause the maintenance timer during the time that the print job is paused.

Before the autopause timer 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. The ITCU LED light flashes yellow and a pop-up bar shows:

- *Temporary. Don't start the emroidery machine...* - When this pop-up bars goes out of view, the operator can start the embroidery machine.

Note: There is a risk of thread break if the thread is pulled during the time when the pop-up bar shows.
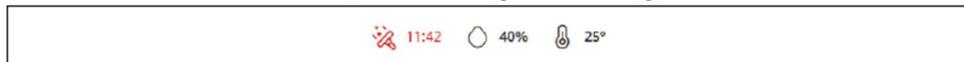
5.10 To manage maintenance during print

The maintenance procedure starts automatically every 45 minutes, between print jobs. If a print job is active a maintenance notification will appear after 50 minutes and ask you to do maintenance. If no maintenance is done in 59 minutes, maintenance will be performed even if there is an active print job. The maintenance message is only visible on the ITCU, if you are logged in on a computer, you will see a *Performing maintenance* message.

If you operate a multi-head group, all the ITCUs will perform maintenance at the same time. The first ITCU to require maintenance will start the maintenance on a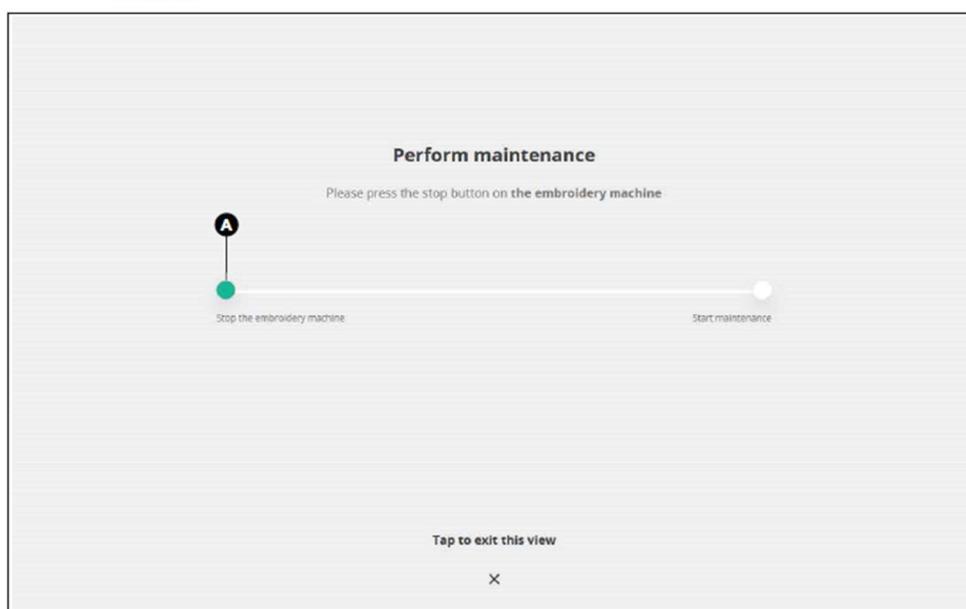ll the ITCUs in the multi-head group. The maintenance timer shows on the top bar in the operator panel. The maintenance timer counts down when the ITCU is in dispensing mode.

57:18	◇ 40%	🌡 25°

Before the maintenance is performed automatically, the maintenance timer becomes red. Directly before the maintenance starts, the ITCU LED light also flashes green.

11:42	◇ 40%	🌡 25°

1. Tap on the *Maintenance timer* symbol to start maintenance manually or wait until the ITCU starts maintenance automatically. Follow the instruction on the screen (A), stop the embroidery machine.

Perform maintenance

Please press the stop button on **the embroidery machine**

Ⓐ

Stop the embroidery machine   Start maintenance

Tap to exit this view

✕

2. Tap on the *Start maintenance* button.
3. Wait while the ITCU is running maintenance.
4. When the maintenance is completed:
   a. If the maintenance was performed between 2 embroideries, pull the thread and then start the embroidery machine. Refer to *To pull the thread* in chapter *5.6.3*.
   b. If the maintenance was performed in an active print job, start the embroidery machine.

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).
- 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.
- 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.