



**DVC**<sup>®</sup>  
DIGITAL VENTILATED CAGE

## Release Note 6.6.0



## INDEX

1	RELEASED FEATURES DVC SOFTWARE.....	3
1.1	FEATURE #1 – ENABLE SICKNESS REASON BUTTON FOR AMS CAGES.....	3
1.2	FEATURE #2 – FEEDBACK TOO DIRTY WITH BEDDING READERLESS.....	3
1.3	FEATURE #3 – ALARMS AUTOMATICALLY DISABLED IN CAGE REGISTERED WITHOUT ANIMALS.....	3
1.4	FEATURE #4 – COMPATIBILITY WITH NEW OPERATING SYSTEMS.....	3
2	ENHANCEMENTS DVC SOFTWARE.....	4
2.1	ENHANCEMENT #1 – WELFARE CHECK GRAPH.....	4
2.2	ENHANCEMENT #2 - CLOSED ACTIVE ALARMS FOR RACK DISABLED.....	4
2.3	ENHANCEMENT #3 – TASKS NOT PRESENT FOR RACK DISABLED.....	4
2.4	ENHANCEMENT #4 – DVC ALARM ACTIVE BEFORE MASTER GUI ACTIVATION.....	4
2.5	ENHANCEMENT #5 –CAGE AMS DELIVERY DURING SYNC.....	5
2.6	ENHANCEMENT #6 - CAGE AMS MATING DATE DURING CAGE PREPARATION.....	5
2.7	ENHANCEMENT #7 - DELIVERY TASK ON CAGES WITH DELIVERY ACTIVE.....	5
2.8	ENHANCEMENT #8 - DELIVERY DATE WITH AMS.....	5
3	BUG FIX DVC SOFTWARE.....	6
3.1	BUG FIX #1 – SICKNESS REPORT ON DVC® WORKPLACE.....	6
3.2	BUG FIX #2 – ASSOCIATION OF THE LATEST REM AT THE BOTTOM OF DVC® OPERATOR INTERFACE.....	6
3.3	BUG FIX #3 – BEDDING ACTIVITIES DVC® WORKPLACE.....	6
3.4	BUG FIX #4 – ALARM CAGE WITH BROKEN OR MISSING TAG IN DISABLED RACK.....	6
3.5	BUG FIX #5 – LED ON DURING CAGE TERMINATION.....	7
3.6	BUG FIX #6 – UNEXPECTED ACTIVITY ALARM RACK SIDE B.....	7
3.7	BUG FIX #7 – CAGE OUT OF RACK ON DVC ANALYTICS AFTER CAGE RECONCILITATION.....	7
4	KNOWN OPEN BUG DVC SOFTWARE.....	8
4.1	KNOW BUG #1 DISABLE RACK FROM MASTER TOUCH-SCREEN.....	8
5	NEW FEATURES ELECTRONIC TOP HOLDER.....	9
5.1	FEATURE #1 – NEW GRAPHICS.....	9
5.2	FEATURE #2 – CAGE REGISTRATION.....	9
5.3	FEATURE #3 – CAGE EDITS.....	10
5.4	FEATURE #4 – 3 <sup>RD</sup> TOP HOLDER READER CONNECT TO CONTROL PANEL.....	10
6	NEW FEATURES DVC MASTER TOUCH-SCREEN.....	11
6.1	FEATURE #1 – CAGE REGISTRATION.....	11
6.2	FEATURE #2 – CAGE EDITS.....	11
6.3	FEATURE #3 – SCHEDULED WEANING TASK.....	11



## 1 RELEASED FEATURES DVC SOFTWARE

This DVC® release 6.4.0 includes several features, enhancements and bug fixes. Some of these new features have been developed considering new devices officially released in production, such as the DVC® MASTER TOUCHSCREEN and the ELECTRONIC TOP HOLDER.

### 1.1 FEATURE #1 – ENABLE SICKNESS REASON BUTTON FOR AMS CAGES

In this version, for AMS-type cages, the 'Sickness Reason' button has been enabled, allowing the user to add a sickness reason via DVC® and activating the 'Animal in Trouble' alert. It is important to note that the sickness reason remains in the DVC® – it is NOT transmitted to the AMS

### 1.2 FEATURE #2 – FEEDBACK TOO DIRTY WITH BEDDING READERLESS

In this version, the user can leave feedback marked as 'Too Dirty' after a scheduled cage change without the need to use the Electronic Top Holder or the Operator Interface.

The user simply needs to perform a cage change using Reader less mode and, once the new cage is inserted, hold down the position button for 3 seconds. This will indicate that the cage change has been completed, but the user has considered the cage **"TOO DIRTY"**.

### 1.3 FEATURE #3 – ALARMS AUTOMATICALLY DISABLED IN CAGE REGISTERED WITHOUT ANIMALS

If a cage is registered in the DVC system without any animals assigned to it, no alarm will be triggered.

This allows users who need to have registered cages while waiting to receive animals to avoid managing unnecessary alarms.

This feature can be enabled or disabled at the facility level.

### 1.4 FEATURE #4 – COMPATIBILITY WITH NEW OPERATING SYSTEMS

Version 6.6 introduces compatibility with the new operating system. This enables the installation of the DVC® application on all virtual machines running **with the latest OS versions**.



## 2 ENHANCEMENTS DVC SOFTWARE

### 2.1 **ENHANCEMENT #1 – WELFARE CHECK GRAPH**

In previous versions, the chart displaying the last 9 days for the NWC showed yellow when there was ANOMALY ACTIVITY, but not enough to trigger a task.

This indication was difficult to interpret, so it has been removed.

Now, days with NWC task are displayed in red, while days without any task remain with a white background.

### 2.2 **ENHANCEMENT #2 - CLOSED ACTIVE ALARMS FOR RACK DISABLED**

If a cage has any active alarms, disabling the rack where the cage is located will close the alarm, and it will be removed from the list of active alarms

### 2.3 **ENHANCEMENT #3 – TASKS NOT PRESENT FOR RACK DISABLED**

If a rack is in a disabled status, the DVC® system should not assign tasks to it. When the rack is re-enabled, tasks will automatically be generated based on the scheduler's evaluation

### 2.4 **ENHANCEMENT #4 – DVC ALARM ACTIVE BEFORE MASTER GUI ACTIVATION**

If an active alarm is present on a rack connected to a master, and the touch-screen function on the master is activated after the alarm is triggered, the alarm was not displayed on the master's touch screen. To address this situation, in this version, the master's touch screen now displays all active alarms, even if they were triggered before the touch-screen function was activated



## 2.5 **ENHANCEMENT #5 –CAGE AMS DELIVERY DURING SYNC**

In cases where there is an integration with AMS that also manages the breeding cages, the functionality has been added to persist the assigned delivery in the cage during the synchronization between the two systems

## 2.6 **ENHANCEMENT #6 - CAGE AMS MATING DATE DURING CAGE PREPARATION**

In cases of integration with AMS, if a mating date is assigned to the AMS cage, the mating date is also transferred to the DVC® when the cage is registered in the DVC® system

## 2.7 **ENHANCEMENT #7 - DELIVERY TASK ON CAGES WITH DELIVERY ACTIVE.**

In the previous version, if a cage already had an active delivery, the scheduler did not assign a Pups Delivery Check task until the previous delivery was closed. This prevented the proper management of delivery tasks in breeding cages with continuous breeding cycles.

This functionality has been improved and implemented, allowing the assignment of a Pups Delivery Check task even when a delivery is already present.

## 2.8 **ENHANCEMENT #8 - DELIVERY DATE WITH AMS**

For AMS breeding cages, in this version, if AMS is integrated with this functionality and a **delivery date** already present in AMS is modified by the user, DVC® can receive this update and update the **delivery date** in the DVC® cage.



### 3 BUG FIX DVC® SOFTWARE

This section refers to “user-visible” application bugs that have been fixed by the current release. Some potential bugs refer to the overall infrastructure that are not here reported because “invisible” to the final User unless these are not critical bugs affecting the overall workflow.

#### 3.1 **BUG FIX #1 – SICKNESS REPORT ON DVC® WORKPLACE.**

The sickness reason added to the cages via the DVC® Operator were not being correctly recorded in the Sickness Report of the DVC® Workplace.  
This bug has now been fixed.

#### 3.2 **BUG FIX #2 – ASSOCIATION OF THE LATEST REM AT THE BOTTOM OF DVC® OPERATOR INTERFACE.**

Due to an issue with the operator interface display, it was not possible to associate the latest REM at the bottom of the screen.  
This bug has now been fixed.

#### 3.3 **BUG FIX #3 – BEDDING ACTIVITIES DVC® WORKPLACE.**

The report of bedding tasks performed in the facility was not collecting the tasks, displaying an empty list to the users.  
This bug has been fixed, and now the report includes all bedding tasks carried out in the facility, ensuring it is complete.

#### 3.4 **BUG FIX #4 – ALARM CAGE WITH BROKEN OR MISSING TAG IN DISABLED RACK.**

The alarm “Cage without RFID or Broken TAG” was triggered even for racks that were in a disabled status.  
In this version, if the user disables the rack, this alarm, along with the other alarms, will no longer be triggered, even if the cages without RFID tags are present.



### 3.5 BUG FIX #5 – LED ON DURING CAGE TERMINATION

If the user activated cage termination at the rack view level, the system would light up all registered cages that could be terminated. However, if the cancel button was pressed, the interface returned to the previous menu, but the LEDs on the rack remained lit. This bug has been resolved.

### 3.6 BUG FIX #6 – UNEXPECTED ACTIVITY ALARM RACK SIDE B

The **unexpected activity alarm** was not handled correctly in **Rack B** of the **double-front shelving system**. The alarm's position was incorrectly indicated as if it were on **Side A**. This issue has now been resolved.

### 3.7 BUG FIX #7 – CAGE OUT OF RACK ON DVC ANALYTICS AFTER CAGE RECONCILITATION.

In cases where the user performed a cage realignment, the realigned cage remained in an "**out of the rack**" state in the analytics. This bug has now been fixed.



## 4 KNOWN OPEN BUG DVC SOFTWARE

### **4.1 KNOW BUG #1 DISABLE RACK FROM MASTER TOUCH-SCREEN**

If the rack is disabled from the master touchscreen, even though it appears as disabled on the screen, alarms and tasks for this rack continue to be generated as if the rack were enabled





## 5 NEW FEATURES ELECTRONIC TOP HOLDER

### 5.1 FEATURE #1 – NEW GRAPHICS

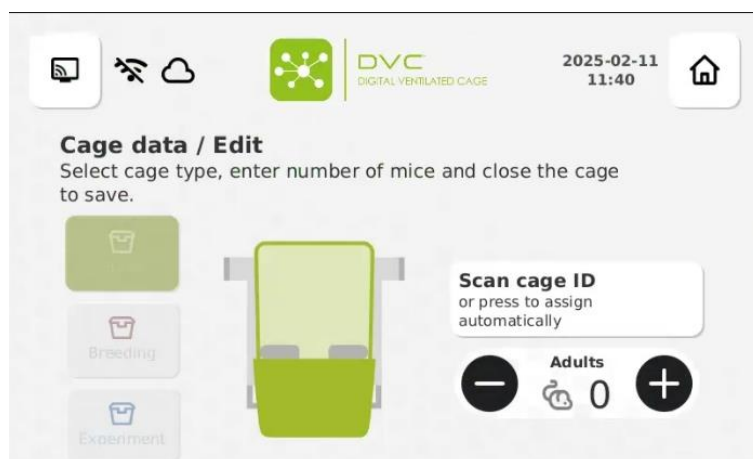
In this version of the Control Panel, the entire interface across all menus has been redesigned, making it clearer and more user-friendly for operators



**NOTE:** In this version Split and Weaning Icon are disabled because these features has been still not developed.

### 5.2 FEATURE #2 – CAGE REGISTRATION

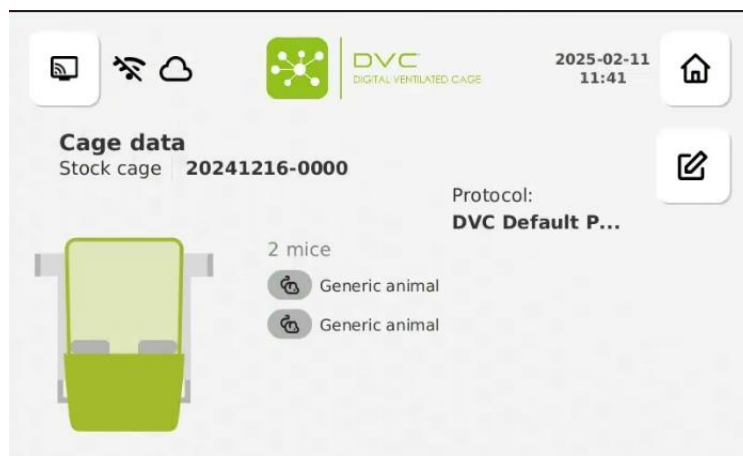
In this version, several extra options have been added during cage registration, such as the ability to select the cage type, add pups for breeding cages, and include add-ons for experiment cages.





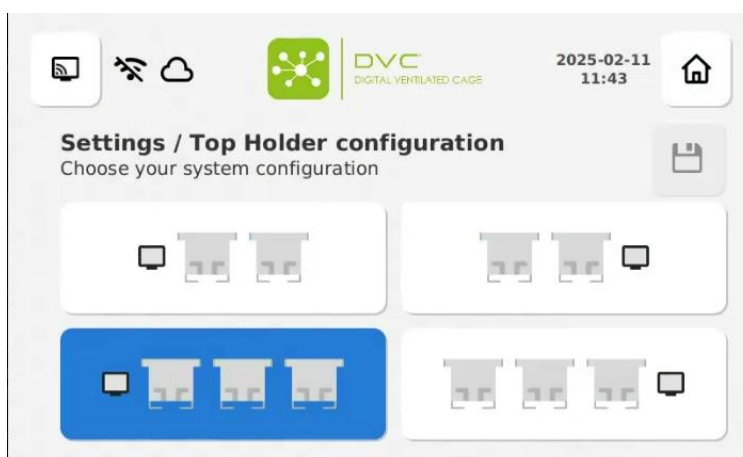
### 5.3 FEATURE #3 – CAGE EDITS

In this version, the ability to modify the contents of an already registered cage through the Control Panel has been implemented.



### 5.4 FEATURE #4 – 3<sup>RD</sup> TOP HOLDER READER CONNECT TO CONTROL PANEL

In this version, up to three Electronic Readers can be connected to the Control Panel.

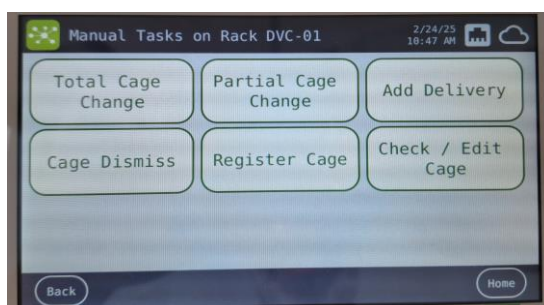




## 6 NEW FEATURES DVC MASTER TOUCH-SCREEN

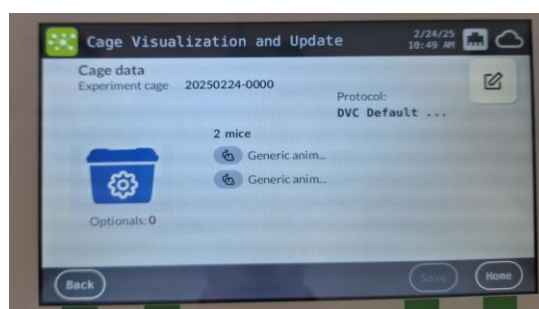
### 6.1 FEATURE #1 – CAGE REGISTRATION

In this version, the ability to register cages directly using the master's touch screen has been added. Under the **Manual Task - Registered Cage** section, the user can register cages by selecting, in front of the rack, which cage they want to register. They can also choose the cage type, add animals, and, depending on whether it is a breeding or experiment cage, add the number of pups and any add-ons.



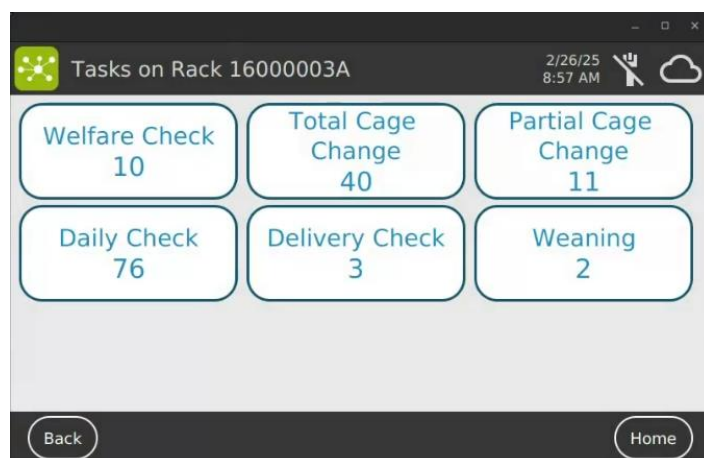
### 6.2 FEATURE #2 – CAGE EDITS

In this version, the ability to modify the contents of an already registered cage through the master's touch screen has been implemented.



### 6.3 FEATURE #3 – SCHEDULED WEANING TASK

In this version, the ability to directly see on the master's touch screen if any weaning tasks have been scheduled has been added. Under the **Scheduled Task** section, if there are scheduled weaning tasks, the number of tasks will be displayed. By pressing, the cages with an assigned weaning task will light up.







 **TECNIPLAST**  
*innovation through passion*