

## Cantar Mini Firmware

[FW 3.535.C12](#) - February 15, 2024

Cantar Mini 3.535.C12 (15-02-2024)

### Bug fixes:

- In some situation holding TALK button on streamdeck can crash the user interface
- DSR2 scan wasn't working depending of the DSR2 firmware version

[FW 3.532.C12](#) - December 04, 2023

Cantar Mini 3.532.C12 (04-12-2023)

### New features:

The 32 bits float bit depth audio file format is available in the audio settings.

Please note that there is no bridge inside Cantar to convert it into a regular 24/16-bit audio file format.

### Bug fixes:

- In some settings DSR4 receiver manager data can be not accurate and freezes
- The subgroup settings were not embedded in the Save/Load Cantar process.
- The ethernet behavior of the ethernet Cantar link can be faulty and provide a wrong IP address such as 0.0.0.0

[FW 3.530.C12](#) - November 02, 2023

Cantar Mini 3.530.C12 (02-11-2023)

### New features:

- Hydra compatibility with the new Lectro DSR4 HF receiver (Four Channel Digital Slot Receiver).

After seated the DSR4 in his slot, a reset of the Tx location is needed once.

- A 25kHz frequency step is now available for MCR54

### Stream Deck

It includes a new setup in STOP position regarding the behavior of the TALK to

TRACK button located in RECORD position

2 modes are available:

- a direct mode
- a safe mode, like on the Cantar (talk to track protected by a dual keys to be activated)
- In Rf overview, the RF icons provide the status of the corresponding slot.

Dante status

- To prevent DANTE trouble, when DANTE is enabled it is not affected by the Cantar low power mode.
- A dedicated DANTE Ethernet/IP informations has been added

Bug fixes

- small fixes in Stream Deck behavior (some icons mismatch, some layers update mismatch and very rare loss of stream deck control)
- On A10 receiver the Min/Max frequency can be wrong
- Sometimes, a problem can occur in the Input link setup dialog box
- Sometime, the Cantar screen application restarts opening Editing metadata dialog

**FW 3.515.C11** - June 08, 2023

Cantar X3 & Mini 3.515.C11 (08-05-2023)

This is a mandatory update to record 16bits audio file flavor on Cantar.

New features (stream deck):

- A macro keys has been added to easily adjust the take number
- Talk to track is now a toggle button.
- The stream deck panel can be locked/unlocked
- The macro key status has been improved to identify the record status
- A backlight dimmer is available on stream deck in stop position
- A setup in stop position allows to get transport macro key in PPR & REC position

Bug fixes:

- A critical error has been fixed on 16bits audio file flavor recording.
- The balance Lock as well as Pot Actuator lock was not correctly working.

**FW 3.507.C11** - May 03, 2023

Cantar Mini 3.507.C11

### New features

Cantar integrate a new level of control with 15 LCD keys including more than 600 self explanatory graphical buttons and addressing, with effectively laid-out profiles, each and every menus and function keys of both recorders.

No setup needed, simply plug Steam Deck onto one of the USB ports and enjoy a refreshing and colorful interface.

Compatible with the original Stream Deck and Stream Deck MK.2

Install this new fee based licence to open a all new way of using your Cantar with quick and easy access to tasks that may have seemed difficult to perform using the embedded controls.

Key combinations are now reduced to one single push of a button while access to your ingrid or outmap menus, among other menus, has been simplified with a single lay out

### Bug fixes:

- In some situations, hydra with 2 hubs was not working correctly
- In case of several MCR54 in use on an hydra system, the receivers were not correctly managed.
- Country / Region text according to the RF Recevier A10/A20I
- Play Out Mute was not correctly implemented on Dante & Aes Out

**FW 3.411.C11** - January 19, 2023

Cantar Mini 3.411.C11

For Cantress users, do not forget to update your Cantress to C11 label to keep Cantar/Cantress compatibly !

### New features

## Post-roll

An adjustable post roll duration function has been added.

This is active when main selector moves from the record position to the pre-record position.

If user switch back to record before the end of the post roll, the recording continue without creating a new take.

In pre-record position, post roll process can be manually terminated by pressing ESC key.

## Cantaress

The RF receiver overview information (Tx battery levels, RF quality link...) are now automatically duplicated in the Cantaress main screen.\

## Hydra

Hydra feature is now fully compatible with the new A20 RF receiver.

Band can be changed (select field then change Band and validate with OK / Cancel with Esc)

Power can now be changed on both channels for A10/A20

Tx Id are now displayed when they are available.

## Rearm track

In case of a rearm track during record, the update process have been improved.

The update process was aborted in case of metadata editing.

## Assignment Bank

- Rework of the Assignment Bank interface
- Delete bank function have been added ( F4 button)
- Bank Name increased to 24 characters
- Reset Assignment bank when a reset factory is launched

## Dropbox

- Dropbox improvement in case of the internet disconnection/reconnection.

## Bug Fixes:

- In some situation the audio delay setup on MIC1 is not applied.
- In case of the metadata editing, the rearmed track background update process on the external medias could not work correctly.
- In some situation, the display EQ curve where not displayed.
- Save Bank was not handling Cantarem2 Slider 11 & 12 correctly

- Wrong display of Dante Outmap configurations
- Jog assignment gain may be false in some situations
- In some situation non assigned slices can generate none significant pop up messages
- Linked Melody may display wrong limiter State in the Solo Window
- In the sound reports, for very large audio files, the size field may be an invalid value.

**FW 3.402.C9** - September 28, 2022  
Cantar Mini 3.402.C9

This version take place of the 3.401.C8

Compatibility with the C9 labeled Cantaress firmware.

#### New features

- A basic audio waterfall spectral analysis tool has been added.  
The spectral analysis is available from 20Hz to 20kHz and works with Cantar sample rate set at 48kHz.  
2 frequencies corresponding to the 2 spectral lines of maximum energy are displayed.  
In any SOLO inputs dialog box and in SOLO track in PLAY position, press [F4] key to display the waterfall.
- Assigantion bank have been added to store faders and pots assignments as presets.  
Open any assignment dialog box and press F1 to get the assignment overview.  
The current configuration can now be edited within the overview screen.  
The banks to store and load is accessible from that dialog box,  
Use the shortcut keys (displayed as reminder at the footer line) to navigate and operate.
- Quality info have been added at the top of the vu-meter for the ADX5 and the A10.  
To be displayed, the Cantar input parameter needs to be setup in RF receiver manager screen.  
0-Red 1-Orange 2-Yellow 3-Cyan 4&5-Green

### Bug Fixes:

- Idle Poly/Mix was not creating Advanced Scene & Take template iXml fields causing issues with batch modification of Scene & Take fields when renaming the files.
  - Sometimes, the phantom power parameter setting was not correctly stored.
  - Tape Id longer than 4 characters were cut to 4 in some fields-
- Hydra serial numbers were not correctly displayed in some situations and could corrupt the interface process.

[FW 3.333.C8](#) - May 23, 2022  
Cantar MINI 3.330.C8 BETA

### New features

- Rework of the hub management fixing several issues.
- Digital Quality level has been added for Shure and Audio limited (v5.01) in RF overview.
- Shure: a display of the audio Max Output has been added.

- A Dropbox account can be paired to your Cantar.

#### Pre requisite:

Be a Dropbox account holder (2GB free account can be subscribed on Dropbox website).

Your Cantar needs to be linked with the internet using ethernet Cantar socket. You will use your smartphone one time to pair your Cantar and the Dropbox account.

(Follow Dropbox connect in TECHNICAL settings).

The Dropbox account is available as an external Media DBX in the Cantar. Dropbox can be used as target in COPY/BACKUP (for audio files and/or sound reports).

Dropbox can be setup as a could idle mode in SESSION screen.

For more details refer to the Dropbox start up guide.

As the Cantar Dropbox access is an option, do not hesitate to request a 14 days free trial periode.

## Bug Fixes:

- In case of disconnection/reconnection of the hydra usb communication, an inappropriate hub crossing could occur, resulting in a bad power state to be applied.
- Some "silence rec" were displayed by mistake (in PPR position if you rearm a track just after the end of a record)
- In some situations the "Run" label for idle backup and rearm-track was displayed by mistake
- Hydra : Shure ADX5D Some Tx informations were not correctly updated and FD-C mode corrections.

[FW 3.324.C8](#) - March 01, 2022  
Cantar Mini 3.324.C8

This version takes place of the 3.323.C8

## Bug Fixes:

- Rearmed tracks were not inserted in sound reports files (.PDF .ALE .CSV).
- In idle backup, a "Run" label was displayed even in case of empty project.
- Lectrosonics: compatibility mode wasn't correctly displayed.

[FW 3.323.C8](#) - February 09, 2022  
Cantar Mini 3.323.C8

## New features

-Re-arm track(s) during record:

All disarmed tracks with a routed input can be armed while recording.

Pre requisite:

The monophonic flavor must be recorded on the internal SSD (recommended in all cases).

The "Arm during rec" parameter needs to be ON (available in the AUDIO & TIMECODE page).

While arming a track during the record, no extra take/file is created and the complete content of the armed take (since the beginning of the recording) will be recovered.

As soon as the track is armed, it is available for mixing.

At the end of the recording, the content of the external medias (SD card, USB) set in live rec mode needs to be updated.

This is done seamlessly in the background with the Cantar in test position.

This process can be performed at any time, so it is not necessary to do it immediately after the end of the recording.

Note: for safety, disarming a track while recording is not available.

- The behavior of the Cantar push buttons have been improved in cold environment.
- On hydra reset RX location process, the user can choose to swap the RF receiver lines position I in the Cantar RF overview screen.
- From the Load Settings dialog box, it is now possible to delete previously generated \*.cfg files (Select the desired file then press Shift + ESC and confirm with OK)

Bug Fixes:

- Hydra (Shure ADX5) in some situations, the hydra interface was feezed
- Hydra (Shure ADX5) the yellow color of the parameters wasn't correctly updated
- Changing the Dante out outmap Id using the left crown was not working
- Lectrosonics compatibility mode "NU Hybr" was not included
- When Ratio mode was selected with Lectrosonics, field selection could go beyond last field.

**FW 3.316.C8** - December 13, 2021

Cantar Mini Version3.316.C8

New features

- When Advanced Template is selected, Advanced Fields (Season, Episode, FX, Unit) are now displayed on main screens. They can be modified when the Cantar is in PreRecord position.

- In PLAY position F5 start play at half speed.



## HF receiver

- Shure, Lectro, AudioLimited, Sennheiser, Wisycom :  
when applying a frequency from the Scan dialog, it is done immediately  
(no need to get out of the Scan dialog to apply it).

- Shure:

Changing band/group/channel needs a confirmation by pressing Ok button.  
Tx Mute status is now displayed

- Lectrosonics

Diversity Mode & Compatibility Mode are now displayed and can be changed}  
IR Sync may be started from UI  
Audio Tone may be started from UI

## Bug fixes

- Battery remaining times becomes briefly wrong in some situations.
- MultiConfig outmaps on Dante Out was only working on the last 8 outputs displayed in the Outmap configuration dialog
- Audio limited, Rx toggle was not working in some situations
- Sennheiser incorrect frequency when getting out of Scan dialog

**FW 3.306.C8** - October 18, 2021

Cantar Mini version 3.306.C8

Be aware the of the C8 label for Cantaress compatibility, and update your Cantaress if needed.

## New features

We added some information / controls for the Shure ADX5

- Quality meter (as well as the ShowLink level)
- Transmitter Id
- Battery remaining time (if available)
- Audio Format (Analog / AES 3) and the ability to change it
- Select Tone Generator ( Off ; -60 dB ; -54 etc...)
- Audio Gain on Receiver (and Mute status) and the ability to change it.

## Bug fix

- Trouble to install unlimited options.

**FW 3.304.C8** - September 28, 2021

Cantar Mini 3.304.C8

Be aware the of the C8 label for Cantaress compatibility, and update your Cantaress if needed.

## New features

- Hydra compatibility with the new Shure ADX5D wireless audio receiver  
On the receiver side, note the ADX5D firmware version 1.3.26 or later is mandatory.

- Frame.io is now part of the Cantar environment.

The Cantar can access to frame.io cloud services.

The access to frame.io is a new option, ask us if you want to receive a demo version.

Afterwards, Frame.io cloud (FIO) will be accessible as other backup medias (SD or USB) in idle mode and through the copy/backup menu.

For more information refer to the Frame.io start up guide.

## Bug fixes

- When editing text fields [S]+Left was not deleting the last character

- Multiple improvements to HYDRA when connected to the SONY DWR-S03D.

- Improvement of HYDRA when connected to the WISYCOM MCR42 (channel 2 management)

- Improvement on screen display behavior in some situations.

- Shift+Esc to Reset Pdf Data Setup could cause the interface to crash

- Shift+Esc to Reset Pdf Data Setup was creating empty columns

- Once triggered by Ctrl+Left or Right, the Talk could remain active when the Ctrl button was released first

- When displaying the InGrid panel out of the Ingrid position (F1 button when in Ppr or Test),

pastings a Ingrid configuration (by Ctrl+Shift +F1) was triggering the Tone signal

[FW 3.242.C7](#) - May 31, 2021  
Cantar Cantar Mini 3.242 C7 (31-05-2021)

#### New features

- Talk Source can be selected between  
Internal Slate Mic  
3.5mm Slate Mic  
Other Cantar regular inputs (Mic,Line,Aes,Aes42)
- The audio LTC sent to the tracks/audio outputs can be adjusted.

#### Bug fixes

- Timecode in 23.98/29.97 mode was corrupted if LTC out generator is modified after the fps settings.
- The boot sequence wasn't completed (specially on Cantar Mini), in some situations.
- The compender list for Wisycom wasn't correct in some situations
- Invalid actuator movement (for example unassigned actuator) warning slowed
- Metadata editing using the WebApp is protected when the idle backup mode is engaged

[FW 3.238.C7](#) - March 30, 2021  
Cantar Mini version 3.238.C7

#### New features

- Compatibility with the 606 Band used on Lectrosonics receivers
- On MCR54 when the RX3/4 is in analog mode and affected to the top TA5 outputs, the gain can be adjusted in hydra interface

#### Bug fixes

- It was not possible to send AuxBux to HeadphoneOutmap on a Mini
- On hydra, the scanning area is automatically cleaned when the frequency range doesn't match to the last scan

- Diversity mode on Lectrosonics was disabled on exit of the scanning dialog box
- The reset receiver location on hydra wasn't complete when using MCR54
  
- The AES lock status on AES42 inputs was wrong in AES3 mode.
- The use of the 100kHz high bandwidth is only allowed with a 192kHz sampling rate.
- Melody status in solo dialog box was staying empty at melody startup
- Limiter and clip info on screen was staying on in case of Melody disconnection
  
- In Sequence field, using the Left Jog on a X3 or the Jog on a Mini was not correctly modifying the field
  
- Output Solo Dialog box : When a Line inputs was routed, another input was wrongly displayed even though not routed.

[FW 3.234.C7](#) - March 16, 2021  
Cantar Mini version 3.234.C7

Read carefully the following recommendations:

Loading this new Firmware will update the FPGA content.  
After a software update, Cantar will reboot and update the FPGA.  
A dedicated screen with progress bar will appear.

As written DO NOT POWER OFF Cantar during this step. For safety, please use at least 2 power sources during update (e.g. 2 batteries or 1 external power on the XLR4 and 1 battery)

The same behaviour will occurs when downgrading to a previous version.

New features

- This version is compatible with the NEW Melody Aaton device.  
Melody is a double input analog audio preamplifier with low noise and extended bandwidth up to 100 KHz and digital output on AES42.  
It is fully controllable by the CantarX3 and CantarMini to extend the number of analog inputs.

- Delay: Delays may now be Disabled (while keeping the delay value) from the Delay Overview dialog or the Delay Dialog or even the Input Solo Dialog by pressing Shift+F2.

- On hydra system, the frequencies of the RF receiver can be adjusted directly from the scan screen.

To change a receiver frequency, use the cursor to define the new frequency and press Shift+OK to assign it to a receiver.

- SONY DWR-S03D is now supported in hydra system

### Bug fixes

- When EQ on inputs were enabled, if the input signal was saturated, the equalizations worsened the phenomena of saturation.

- Frequency were wrong on Lectrosonic receiver A1 when using the block 470.

- The Hydra scanning function was not working with Lectrosonic A1 model

- In some situation the switch between External wordclock and internal clock was not working

- On A10 Tx Batt alert was not correctly updated

- In some situation Hydra data management was switched OFF with MCR54

- The user switch between external wordclock and internal clock was not working properly

- It was not possible to send AuxBux to HeadphoneOutmap on a Mini

- In Sequence field, using the Jog on a Mini was not correctly modifying the field

**FW 3.217.C7** - January 13, 2021

Cantar Mini 3.217 C7

### New features

#### Hydra system

Wisycom MCR54 receiver is now supported (MCR54 Firmware 1.7-rc2).

As it is a 4 channels receiver, 2 pairs of slots are occupied in the Cantar interface.

The first time you plug an MCR54 in your configuration (or if you change the MCR54 physical slot),

a reset Tx location sequence is needed.

For the A10 (firmware 2.91) overload notification has been added.

#### General

- An output name field for each output in outmaps panel (different from Outmap configuration name) can be user defined
- The Solo Output dialog reflects the output name and can be edited.
  
- The Cantar audio timecode (LTC) can now be internally routed to any buses (Track, SubGroup, Analog and digital).
  
- The InGrid configuration name filter is less restrictive
  
- Pdf report :  
Easier navigation on Header & Data fields using the Jog  
A boom Operator field has been added to Header available fields

#### Bug fixes

- The remaining percentage indicated on battery slot 1 can be wrong in case of faulty battery.
- The notification of the USB over current was not working when it occurs during the Cantar boot time.
- Armed/Disarmed Track status could be wrong in Double Solo (if during a previous Solo Left track was disarmed)
- In PB&Rec browser when the Scene col was shown the take selection list was not scrolling correctly

[FW 3..210.C7](#) - November 18, 2020  
Cantar MINI version 3.210.C7

#### New features

- Line out can be drive by the Abox6
  
- A VNC server is now available inside the Cantar.  
To activate it  
Using a VNC client on a side device (e.g. Real VNC Viewer), you can connect be to the Cantar through the local network.  
The VNC client will displayed the Cantar screen and allows a basic remote of the

Cantar.

The regular keyboard arrow keys, enter keys and short cuts can be used in the VNC client interface.

[CTRL+ESC]=toggle PPR/RECORD [CTRL+F3]= TEST [CTRL+F4]=STOP

[CTRL+F5]=PLAY...

Note:

The mouse won't be supported, and the short cuts can't be customized.

The display accuracy depends of the network in use (Wifi or Ethernet).

- When the the day suffix is used, a dialog box proposes to the user to apply it to the Tape ID.

- Battery status are available for all compatible batteries

- The full duplex mode (talk back) now affects the outputs too.

Bug fixes

- Problem in clone mode to duplicate original TC fps.

- Abox6 was not driving the Lineout gain

- When an actuator was driving the Lineout level, it may be too sensitive bringing the Level panel too often in the interface

- Issue with PlayOutMute activated on Outputs when Tracks or Postfade were routed, mute was not correctly applied.

- In the record position using PB & REC the dedicated screen was lost if you check the inGrid or the Outmaps.

- The very low A10 RF level was not correctly displayed.

[FW 3.206.C7](#) - September 17, 2020

Cantar MINI version 3.206.C7

Read carefully the following the recommendations:

Loading this new Firmware will update the FPGA content.

After a software update, Cantar will reboot and the Cantar will update the FPGA.

A dedicated screen with progress bar will appear.

As written DO NOT POWER OFF Cantar during this step. For safety, please use at least 2 power sources during update (e.g. 2 batteries or 1 external power on the XLR4 and 1 battery)

The same behaviour will occur downgrading to version 2.XX.

## New features

- Compatibility with the Cantar firmware labeled C7

### On the AES42 digital inputs

- The input gain range is individually selectable (Max = 0,6,12,18,24,30,36 dB are available)

The choice is made in the corresponding AES42 solo dialog box pressing [Shift+F1]

- A digital limiter is available. The setup is made in the corresponding AES42 solo dialog box

### A digital limiter is available for the Mixdown

- The setup is available in AUDIO & TIMECODE PARAMETERS, item Mix limiters

## Equalisations

EQ location Pre/post or both is available in the AUDIO SETTING parameters

- EQ are now also available Post-fader
- EQ location can be setup in the Track Solo Dialog box.
- When Soloing a Track, it may be listened Pre or Post-fader (in order to setup the EQ), press [Shift+Ctrl+F1] to toggle

### MS on all inputs (Mic, Line, Aes42)

- The m-s declaration process has been modified in the Ingrid Routing :  
When the input selection panel is opened, if an input is suitable to be declared as m-s, a red circled number S is displayed next to it, tipping the user that pressing [Ctrl+F1] will change the m-s nature.

### Link available for Digital Inputs & Tracks

- Link Tracks : up to 6 groups (each 1 master, 7 slaves maximum)



- Link Digital : up to 6 groups (each 1 master, 3 slaves maximum)
- New Link Setup interface when pressing [Ctrl+F1] while the Main Selector is in TEST position

### Ambisonic

An ambisonics decoders is available inside Cantar Mini.

The specific filters to convert A-format to B-format are implemented for the Sennheiser AMBEO mic.

To be activated:

- Switch ON the AMBEO enable parameter in AUDIO PARAMETER menu
- Link the 4 mic inputs that will be used as the AMBEO mic inputs
- Open the AMBEO dialog box [Shift+OK] in TEST position to finalize your setup

### Hydra

- The support of the Lectrosonic 941 RF receiver has been added.
- The Wisycom S1/S2 communication is now enabled when AES3 is used as the receiver audio channel

### Other features

- TRACK PAN: Possibility of modifying the track pan setup during record: In solo track dialog box, [Shift+F4] toggles between L/R/C, hold Shift+F4 during 2 secondes to access the fine pan, use the jog to adjust it.
- PLAYBACK menu: Shift+Left/Right arrow keys allow to move the waveform cursor by one frame step.
- WAVEFORM TIMELINE: For take longer than 1min 30sec , a magnified window is automatically displayed to provide a better resolution of the timeline.
- In PLAYBACK & REC, mode LIVE, play-card boundaries can be adjusted +/- 1 frame.

Compatibility with the 2 new Cantar Mini options, your option status is available pressing F2 from STOP screen.

### AatonMix

The principle of the AatonMix is to automatically attenuate channels that have a weak signal at the input.

In the current algorithm, this attenuation is limited to -25 dB.

The AatonMix algorithm, never amplifies by itself the signal sent in the mixdown.

The operating position of the AatonMix is therefore open mixdown faders.

Consequently, at any time the user can manually mute a channel in the mixdown by closing the corresponding fader.

Four independent AatonMix groups (blue numbers) can be chosen and applied to selected channels and used as complement or take the place of the user mix-down process.

Open the IN-GRID screen. (e.g. set the main selector at 5 o'clock position).

Use the left/right buttons to select the desired track and press [Ctrl+F2] to include/remove the channel 1-16 to one of the four AatonMix groups (blue square 1-4 at the bottom of each channel)

To enable/disable an automix groupe press [Shift+Ctrl+F2].

Each channels can be routed to Mix Left (Xl) or Mix Right (Xr) or both : Toggle [F4] or [Shift+F4] for fine pan adjustment

### SubGroup

A new Sub Group routing grid allows you to create up to 16 mix buses which can be applied to two independent auxiliary channels (Ax1, Ax2).

Both channels can be sent to Digital or Analog Outputs or recorded to tracks

All 16 bus mixes are fully controllable (gain and EQ)

The setup page is available pressing F1 from the InGrid page.

### Bug fixes

- Using Wisycom MCR42 with hydra system, when changing the expander, the parameter was not correctly saved
- In some situation the Rx power ON/OFF was not working
- Small fixes in the Playback & Rec Browser (thanks Achim)
- Scene Column header could display incorrect information (Scene(Short) instead of Scene(Full))
- using the Shift+F1 to display SC&Take information, it was not possible anymore to change the file selection until getting back to the original Filed & Note columns
- Pressing F1 while being in Playback & Rec Browser would display Ingrid but not hide it (only way was changing Main Selector)
- Pressing Shift+Esc while displaying Ingrid in Playback & Rec Browser would display the Trash file dialog

**FW 2.96.C5** - November 19, 2019  
Cantar MINI version 2.96.C5

#### New features

- Compatibility with the new Cantaress version labelled C5
- The digital gain on AES42 up to +36dB is back, it can be adjusted in AUDIO PARAMETERS menu.

**FW 2.93.C4** - October 22, 2019  
Version history 2.93.C4 (22-10-2019)

#### New features

- After opening any actuator assignment dialog box, an overview is available pressing F1 key.  
All control surfaces will be displayed.

#### Bug fixes

- MP3/OGG was not working
- Jog was running reverse.
- It was not possible to use the Shift + Solo functionality on the ABox (phase inverse or Track disarm)

**FW 2.92.C4** - September 30, 2019  
Version history 2.91.C4

#### New features

- The Souriquette remote is now supported. The Souriquette needs to be directly connected to the Cantar.  
It provides additional shortcuts in all screens.  
A dedicated contextual help is available by pressing quickly 3 times the Souriquette shift button.

- Advanced Sc & Take : Added With or Without Reset for Alphabetical Slate Increment.

When Alphabetical is chosen the reset is blank and not 'A'

- Changed: File Network Access is not reseted anymore at startup.

#### Bug fixes

- Sometimes, the Cantar interface was restarted during the startup of the file access server.

- When Mix L & R were declared on the same track, an incorrect warning message "Mix Track missing" was displayed.

- Double solo was not accessible with the Cantarem2 or the ABoxes (6 or 8)

- Loading Cantar configuration files may fail on big configurations

- Advanced Sc&Take: When using a white space as a separator, it was not read when editing metadata

- Advanced Sc&Take without the take indicator 't' was not working in some situations

- Incorrect trim of space character in the scene field

- In Play position, when displaying Ingrid, there was an issue to move the selection.

- In Play position, the displayed take type was accurate.

**FW 2.88.C4** - July 23, 2019

#### Bug Fix :

- When setting up the Advanced Scene and Take, it was possible to create an invalid parameter that cause the Cantar to freeze.

- Typo correction

- Desactivated items in the Advanced Scene adn Take composition window were not greyed when manipulating the list.

**FW 2.87.C4** - July 19, 2019

#### Version history

Cantar Mini version 2.87.C4

#### New feature

- A brand new scene and take template is available (the old templates are still available).

### 1 - Choose and build the new template

In the technical settings screen, select Advanced.tXX or Advanced.XX

A new dialog box invites you to build your own template (press Ok to access it).

Five fields are available in the Template organisation dialog box

SEASON (4 characters)/ EPISODE(4 characters) / SEQUENCE(8 characters)

SLATE(4 characters) / EFFECT(5 characters) / UNIT(1 character).

You can enable/disable and move each field individually.

It is also possible to insert a separator between each field.

The take number field size has been increased to 3 characters.

2 - In the technical settings screen a new parameter, "scene increment" defines the behavior of the slate field.

It allows the new shortcut (shift+Up/down) to modify the slate field without opening a regular edit field when the Cantar is in the PPR position.

### 3 - Use your custom sc&tk template

- In PPR position only SEQUENCE and SLATE are displayed on main screen.

- All fields are accessible in the Next Take and Edit metadata dialog box.

It includes the choice of the field separators.

### 4 - The post-editing from the AUDIO FILE BROWSER

- Several displays of the scene fields are available in this screen (press F1 to choose).

- The track names are also available (press Shift+F1)

- The edit of several take simultaneously is still available with custom template, but it is limited

to the takes that have been created with the same template.

5 -The web-app have been improved, unused tracks are hidden and it is fully compatible with the advanced sc&tk template

WARNING:

- Once you upgrade to this version, and use the advanced scene& take features, it is strongly recommended to not downgrade to an older Cantar version.  
If you edit scene field with an old version it will be truncated to 8 characters

- For the same reasons, the first Ajax first compatible version with the new the advanced scene& take is 1.2.0.  
If you use Ajax don't forget to upgrade it.

### Other features

- Two different setups are available for the LTC Cantar output.  
ON with playback TC: the Cantar generates audio files timecode during playback

ON without playback TC: the Cantar generates always the recording audio timecode

- The AES42 maximum gain is set up using AES42 max gain in the AUDIO & TIMECODE PARAMETERS screen, the maximum is now +24dB.

- In the playback & rec mode, when switching to record, the play cursor is automatically located at the of the first section.

- The PDF paper landscape is now available in A3 format. This allows to manage up to 28 columns on a single line.

### Bug fixes

- In some situations, the double solo was opened by mistake.

- When changing Track Level with Shift+Jog in InGrid Routing position (when the Main Selector is at 5 o'clock), the level was changed but not displayed

- In some situations, Shift+Left or Shift+Right would make the Lock Panel appear when it should not and even once the key released, it would activate the lock anyway.

- The playback of polyphonic files with more than 12 tracks was not possible possible in Cantar

- In playback and record, it was possible to create several markers at the same position

- In playback and record, take number was increased in clone mode.

**FW 2.78.C4** - May 16, 2019

Version history

## Cantar Mini 2.78.C4

### Bug fix:

- Problem during establishing the Cantar - Cantaress connection. The connection was only possible with Cantar in play position.

[FW 2.77.C4](#) - May 15, 2019

### Version history

## Cantar Mini 2.77.C4

### New features:

- WebApp: Unused track (no input declared on Ingrid) columns are hidden
- Dedicated configurations (Headphone L/R/L+R) are available to duplicate the headphone on Cantar outputs (line or digital).
- Aes Power Menu : AUTO option for Aes Outputs was added (when selected each Digital output is automatically activated/deactivated according its current routing)
- Menu bottom labels improvement

### Bug fix:

- After using the scan RF function on Hydra, the frequency modification of the receiver was not possible.
- In some situations, when using 2 Hydra hub, the location of the receiver can be false in RF receiver overview screen.
- In Headphone outmap, toggling between Track and Post-fade was not consistent in some case.
- The beep was not sent to Aes MDR outputs or Dante outputs
- When Cantaress was connected after Cantar startup, the current waveform was not transmitted to the Cantaress

[FW 2.75.C4](#) - April 04, 2019

## Cantar Mini 2.75.C4

Compatibility with A-box6 extension.

**FW 2.72.C4** - March 27, 2019

Version History

Cantar Mini 2.72.C4

Note regarding RF receivers:

*Due to the API and or hardware manufacturing and or branding some features of Aaton Hydra can be limited.*

*Today the compatible receivers are MCR42, Lectrosonics SRC, A10 Audio limited and Sennheiser EK6042.*

*We strongly recommend to run receiver with the latest firmware versions.*

*Firmware version used during tests are MCR42: 3.21 - SRC: 1.20 - A10: 2.00.06 - EK6042: 1.1.3-3*

*Due to a communication disturbance in the Wysicom MCR42 (S1 and S2 hardware revision) audio analog channel number 2, these receivers do not allow us to offer real time monitoring of the modulation and the battery alarms of its transmitters.*

*So we decided to shut down the communication during the main operations (PPR and record Cantar position).*

*Nevertheless the receiver can still be powered by an Aaton RF system, and be setup in the Cantar test position.*

*MCR42 S3 hardware revision are not concerned by this limitation.*

**Cantar Mini / X3 new features:**

### **192KHz RECORDING**

Cantar offers now a recording sample rate of 192kHz.

At 192kHz, the number of tracks is limited to 16 tracks on the internal SSD.

### **HYDRA™ MANAGEMENT OF RF RECEIVERS**

The functionalities need additional hardware, it can be an Aaton Hydra system, a modified Lectrosonics Octopack or PSC 6 pack.

Today we are compatible with:

- Wysicom MCR42 (Full specs with S3 only)
- Lectrosonics SRC
- Audio limited A10
- Sennheiser EK6042.

From TEST/PPR/REC, press SHIF+F1 to open RF receiver overview.

From RF receiver overview you can:

- manage the RF power ON/OFF (press OK, move to the RF, Up/down key ON/OFF)
- monitor your RF status.
- open RF receiver manager a dedicated panel to the RF (F1 to F4 to open RF1 to RF4) and (Shift + F1 to F4 to open RF5 to RF8)



From RF receiver manager you can:

- edit the receiver parameter (press OK, Up/Down move to the field to be edited,, Left/right and/or jog edit filed).
- setup TX battery alert
- assign the receiver to a Cantar input
- open the scan mode (F4)

From the scan window (depending of the RF receiver in use) you can:

- Start stop the scan.
- Setup in/out scan area, set the scan step, see the frequency bank pre-set.
- All transmitters frequency position are located in scan screen.

Additional short cuts are described at the bottom of each screens.

The content of the screens may differ to suit the capacity of each RF receiver model.

### **MIXING FADER AUTOMATION DATA**

- Mixing fader automation datas are embedded into the audio files. For time being they are displayed in play position on soloing the iso track.

The importation of the metadata automation in the post-production software is being implemented.

### **EQ IMPROVEMENT**

- The width of the Q factor has been optimized (Q narrowed up to 0.05).

The equalization frequency response is displayed in real-time during his adjustment.

### **MISC**

- Unlock dialog box allows the Cantar user to check and to adjust actuators (sliders or pots) before unlocking.
- Cantar low power can drive low power on Cantaress and RF receiver
- Keyboard Ctrl+ESC switches to PPR, then a new Ctrl+ESC switch between REC and PPR
- User markers can be created [X3:F6 / MINI:Shfit+Ctrl+F2] in play position (in pause or on the fly), Then the navigation is possible through the file using the markers.
- Prevent the recorder to start a record in an empty project folder name.
- In playback and rec mode, in PLAY position, the automatic stop at the end of a marker area has been removed.
- A new media (SD/USB) that needs to be formatted is displayed in purple.
- A track containing a postfader (PN) of another track can now be sent to the mixdown
- When removing an input from a Track, mixdown PanPot is not cleared any moreCantar Mini / X3
- New format SD card process
- Now possible to assign postfade gain on outputs of the CantarMini
- Prevent the recorder to start a record in an empty project folder name.
- The startup record process has been improved in case of faulty SD card (Cantar records on remaining healthy media).

### **Bug fixes:**

- An issue has been fixed in wordclock management, this upgrade is mandatory when using Cantar external wordclock.
- The solo button (slice 12) of the Cantarem 2 was rproducing double solo action.
- F5 et F6 assigned to C1-4 Cantarem2 buttons is now possible
- The LTC userbits grabed by the Cantar (Timecode Ubits set to Hexa by LTC input) are now accurate in any situations.

**FW 2.37** - December 19, 2017

Version 2.37

- During an external timecode JAM (Long press on F3), a confirmation is now needed.
- A number ID was added into the playback cards in the playback and record mode\
- A progress status was added during the "save diagnostic" process.
- The direct access to phase inversion (Shift+solo) is available for the line, digital and AES42 inputs.

Bug fixes:

- The EQs were not working on the analog inputs 3-4-5-6.
- The input delays panel was adapted to the Mini hardware capability
- The displayed headphone limiter status was not initialized correctly during startup.
- In some situations, in case of a false start deletion (Shift + ESC in PPR), the take number wasn't automatically decreased and the recorded files on removable media wasn't erased.

**FW 2.31** - November 09, 2017

Version 2.31

**WARNING** : On the first reboot, after the installation of this version, Cantar will update the FPGA content.

A dedicated screen with a progress bar will be displayed (estimated duration : 5 minutes).

As written **DO NOT POWER OFF** Cantar during this step.

For safety, please use at least 2 power sources during the update process. (e.g. 2 batteries or 1 external power on the XLR4 and 1 battery)

Note: In case of software downgrade, this behaviour will be duplicated.

- Wordclock input is now activated. Wordclock signal needs to be wired on the Mini Delta Ribbon connector.

The pin connection is: Pin 21=World clock In and Pin 22 =Ground.

The setting is available in the Audio Parameters Menu, item "Sample Rate".

- The system time Jam is now performed again even if the timecode was already initialized using the system time and if the time difference is higher than 10 seconds.

- In the AES42 Solo panel, the general AES power status is displayed.

In Playback and Record:

- When Cantar is in playback and rec in PPR position, there is no need to hold shift to switch in

playback and rec in RECORD position.

- The navigation between overlapped sections was improved.

- F3 toggles display time/duration/no display.

Bug Fixes:

- In 23.976 Fps or 29.97 Fps, the accuracy of Cantar LTC output was improved. Please note, the stamped timecode of the audio file was not affected by the problem.

- LTC out coherency in play when play/pause/jog commands are used.

- Format process for SD cards was changed.

- In case of a critical bandwidth on a media during record, the rescue behavior to keep SSD active was improved.

- When staying more than 2 hours and a half between the REC and PPR position, a faulty silent rec was displayed.

- RemoteRec was not behaving correctly regarding Multiple Outmaps configurations.

- TalkToTrack is now available to outputs when a track is rooted on an output.

- WebApp: It was not possible to validate the circled field modification.

- The compatibility of AES42 input was improved to manage some specific AES3 digital streams.

- The Abox compatibility trouble with Cantar X3 potentiometers.

- The accurate audio timecode was not preserved in case of power OFF/Power ON.

- The track gain of tracks over 12 was not correctly handled.

- When a Line level was setup with the jog, it was not memorised in some

situations.

- The Talkback was not sent to the AES outputs.

**FW 2.24** - July 28, 2017

Version 2.24

This version takes place of version 2.23.

Bug Fix:

- In external timecode mode, the initialization was not correct at startup
- Save & Load settings were not handled correctly files with spaces in the name.
- The mixdown was sent in outputs (Line,Aes,Aes42) even when Play out was muted
- There were duplicated lines in Cantar Mini contextual help

**FW 2.23** - July 03, 2017

Version 2.23

This version takes place of version 2.21.

Bug Fixes

- Error during format process on some SD Card
- Wrong EQ information displayed in solo mode

**FW 2.21** - June 28, 2017

Version 2.21

New features

- The playback and record allow Cantar to play a pre-selected file and to record new files simultaneously

The feature allows multiple possibilities to sound recordists, it includes 2 modes:  
CLONE MODE:

Cloning a last take (all your iso tracks) and redoing a mixdown track(s)

All metadatas of the playback file are duplicated in the new record (Timecode,

track name, scene, take notes ...).

LIVE MODE:

Dialogue that cannot be saved from production tracks can be re-recorded (ADR or looping).

A stored telephone call, background music or wild sound can be played and re-recorded during the 'live' recording

- How to use playback and record:

1 - Switch the parameter Playback & rec parameter to ON in AUDIO setting page.

2 - A new version of BROWSER-PLAY-TEST-PPR-RECORD is available holding the Shift button and rotating the main selector.

3 - IN PLAYBACK & REC BROWSER

3.1 - Select the mode you want to operate (CLONE: redo a mixdown) or (LIVE: play freely an audio file)

3.2 - Select the audio file to be played during record and assign to a playback bank (a,b,c,d or e)

3.3 - Edit the playback grid to assign sources track to the recorded track. (F1 key displays an overview of the merge grids)

In clone mode, all iso tracks are automatically added in the grid, and mixdown removed.

4 - IN PLAY: for Live mode only, you can create play-card to define the audio sections that will be played during the record

5 - IN TEST: you can hear incoming sound and play the play-card for test

6 - IN PPR: playback file is preloaded for a instantaneous access in record position

7 - IN RECORD: play sound and incoming audio is recorded in a new file

For all these screens a dedicated help (triple shift) provides the details on the available short cuts.

Note 1: For the time being, ONLY AUDIO FILES CREATED BY A CANTAR CAN BE USED AS PLAYBACK FILES.

An import feature is in the roadmap, it will allow to import regular WAV files to be used as playback file.

Note 2: The playback sample rate frequency needs to match with the recording sample rate.

- Take Indicator removable

Menu Technical, Scene & Tk templates can be chosen with or without take letter

indicator.

Without the take letter indicator, it is not written anymore in the take metadata or in the file name

- When Next Scene is changed while take type is 'p' take type is automatically reseted to 't'

- In play position, when play is muted for the outputs (Empty Triangle), inputs (Mic,Lines ...) remain active on outputs.

- The record starts even if a media has not enough available free space, as long as a mono version is still recorded on another media.

- WebApp: Graphical improvement on disarmed tracks infos more discrete (ms / mx)

Bug fixed

- If the scene or the take was modified during Record, the filename was not matching.

- Sometimes, wrong Wifi status was reported in the stop position.

- During a record, if a media becomes full, upon Record cut due to file size (long record) the record was stopped.

- WebApp: disarmed tracks on next take information was incorrect upon reload

- WebApp: on a new day, next take line is now available

- Timecode displayed behind the timeline can be wrong on long take (>30mn).

The audio file integrity is not affected.

- In the reports files, tape Id is not any more limited to 4 characters.

- Play mute and beep mute were not manage on digital outputs

**FW 2.12** - June 23, 2017

First version