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CHIPPERX

PROFESSIONAL CHIP MANAGEMENT SOLUTION



User Manual

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Preface

ChipperX is a specialised device for sorting and managing casino chips. ChipperX is controlled via a 7 – inch colour, touch-screen display. It automatically sorts chips by value or colour into one of 12 designated chip tracks. Each chip track can be individually „tailored“ to sort and store a defined number of chip types (1 to 4). Alternatively, any track (only one at the time) can be used to store undefined / unknown chips. When a track is filled to capacity, it is automatically disabled and remains so until the roulette table operator removes the chips.

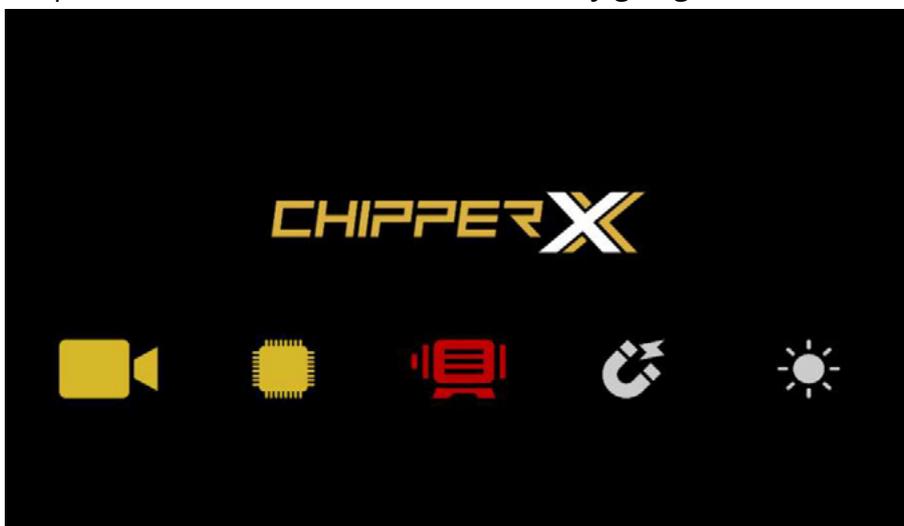
Turning on the ChipperX

The device is turned on by a switch at the bottom front of the unit. After switching the device on, the program is started and the initialisation tests of the individual parts (modules) of the device starts. The readiness of the modules is tested in the following order:



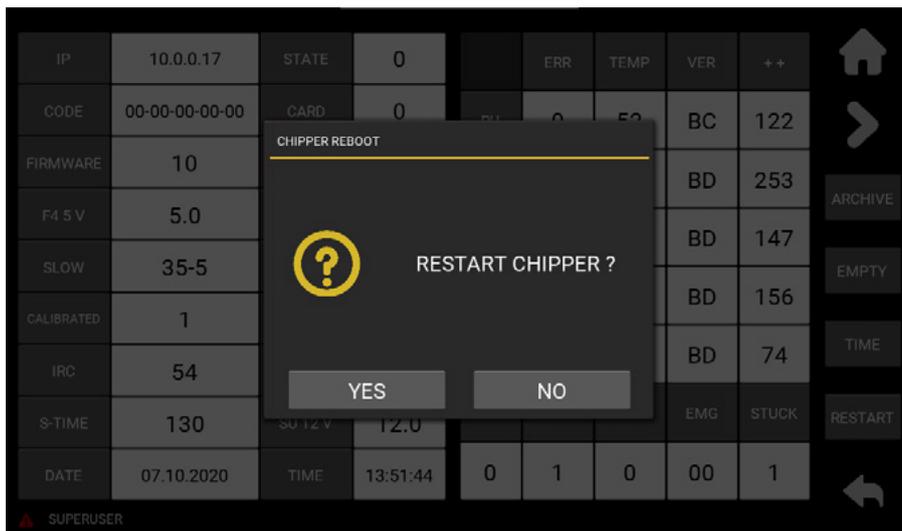
- camera module
- main control module
- motor module
- solenoid module
- lighting module

If any of the modules shows a fault, the corresponding icon of this module turns red. In such a case, the operator can initiate a device RESTART by going to the screen that shows the de-



vice “status” registers and pressing the “RESTART CHIPPER” button.

If the results of initialisation tests are fault-free, the program will display the main menu.



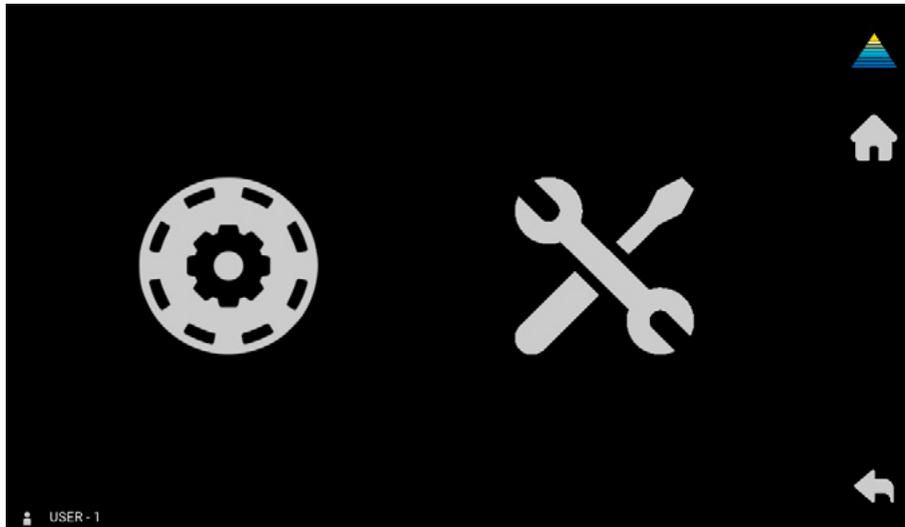
If the results of initialisation tests are fault-free, the program will display the main menu.



Icons used to control the settings of the ChipperX are located on the right side of each control software screen page. The user alias of the currently logged-in user is displayed in the lower-left corner. After starting the program, the default alias is “User 1”. Users log in using RFID cards via the built-in RFID card reader, located to the left of the display.

Set Ups

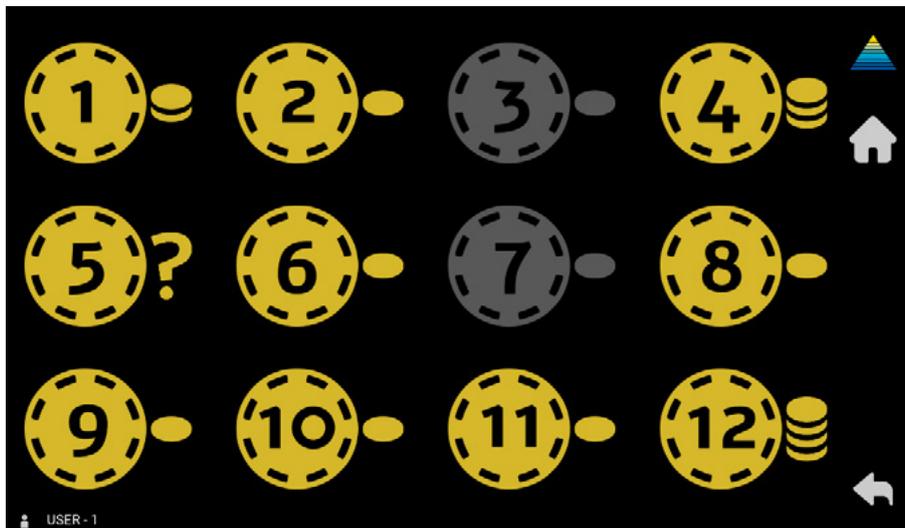
The Set Up menu is entered by pressing the gear  icon within the main menu.



Setting up the chip tracks

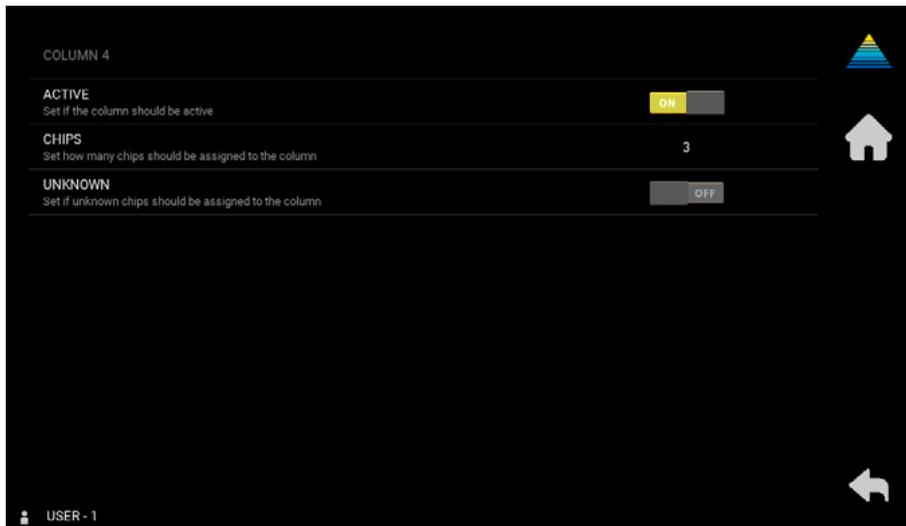


Pressing the wheel icon within the Set Up menu the software opens the option to set up the chip tracks. The screen shows 12 icons representing each chip track. The status (programming) of the respective track is indicated by the colour of its icon and its corresponding number of chips; yellow indicates the track has been programmed and the icon on the right in the form of a column of chips. The number of chips shown to the right of each numbered icon indicates the number of chips assigned to the track. A track programmed to collect “unknown” chips, will instead have the “?” icon.

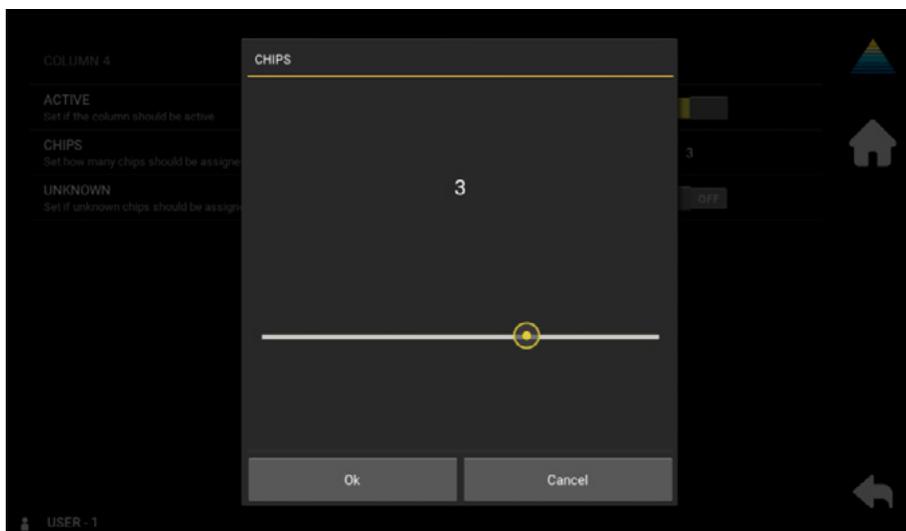


Setting the track parameters

Switching the program to the track parameters setting menu is done by pressing the respective chip icon. In the row Activate we can switch on (ON) or switch off a chip track. In the Chips row we set how many chips should be assigned to the column. Activating the option Unknown will set if unknown chips should be assigned to the column. The option Unknown can only be activated for one track. If we want to activate this option in a different track, we need to deactivate it in the original track.



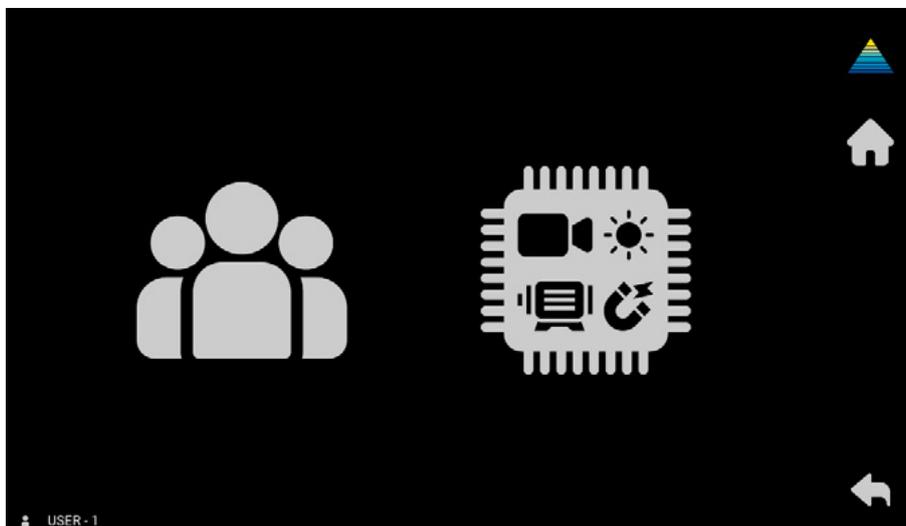
Pressing the row of a specific parameter enables the user to set that value (e.g. the value of the “CHIPS” parameter).



Service settings



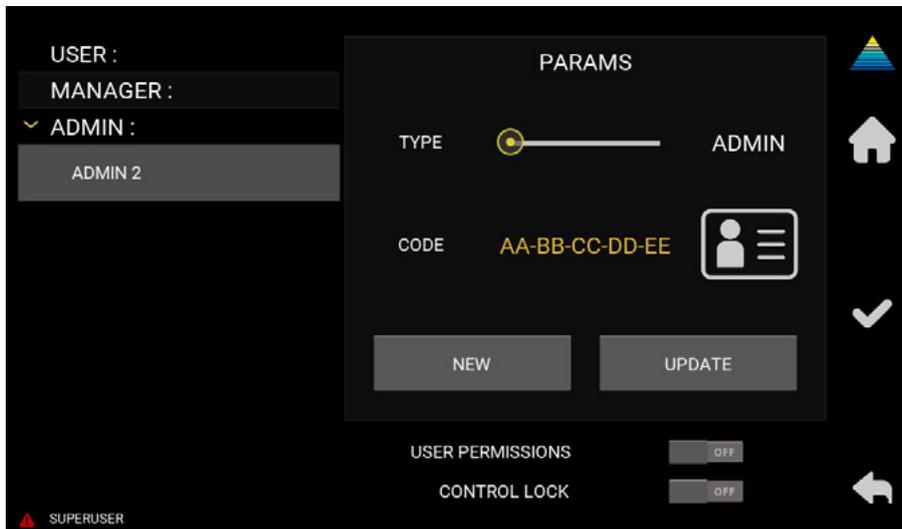
Service settings are entered by pressing the tools icon within the Set Up menu.



User settings



Service settings contain sub-menu “User settings” accessible by pressing the persons icon. Only users with “manager” rights and above can enter the “User settings” menu.



The screen is split into two parts. The left side contains the “Users list” where users are sorted into three groups representing their authorisation to use the software (USER, MANAGER, ADMIN). The right side contains the “Input Panel” dedicated to the user administration (user type and RFID card code).

If the operator wants to define a new user, they set the “User type” parameter and

activates the “RFID card read” mode via the built-in RFID reader by pressing  the icon. After a successful pairing, the code of the downloaded RFID card is displayed to the left of the icon. Subsequent pressing of the „New user” button assigns the new user alias to the “Users list”. The user alias is determined by the user’s membership in the user group and the sequence number (eg User 3, Admin 2, Manager 4).

It is also possible to change the properties of a previously defined user. In the “Users list,” the operator selects a specific user and their current parameters are displayed in the “Input Panel”. The operator can change either the user type or the RFID card code and then press the “Update user” button to update the “Users list”.

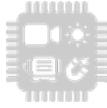
Below the “Input Panel” is the parameter:

- “USER PERMISSIONS” (the default status is “Not activated”). Activating this parameter causes certain restrictions imposed by the permissions of this group to be applied to users assigned to the USERS group when working with the program.
- “CONTROL LOCK” (default mode – Activated). Activation of this parameter allows locking of the screen within 30 seconds of the start of sorting.

The changes of the user permissions is completed by pressing the  icon.

The changes of the user permissions can be cancelled by pressing the  icon.

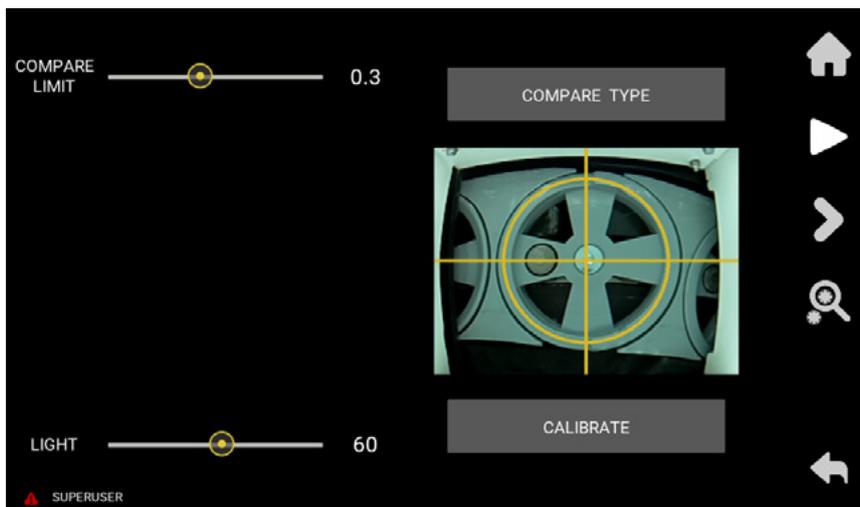
Setting of service parameters



Pressing the icon switches the program to the first screen of the “Setting of service parameters” mode. The device camera’s “live view” mode is activated on the left side of the screen.

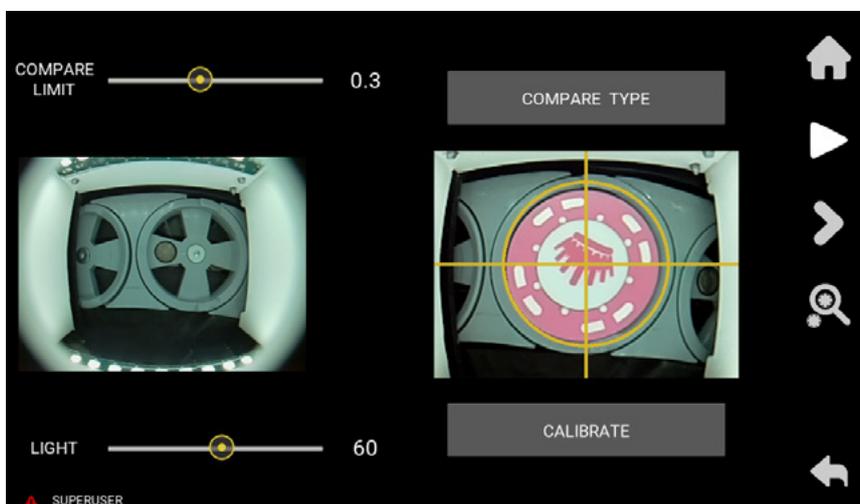
These parameters can only be set by a user with ADMINS group permissions. The parameters are factory set and do not need to be changed.

The operator can check if the chip capture setting are correct.



The program switches to the mode of “focusing” of captured images of chips by pressing the  icon. If the captured chips images are not exactly centred in the circle with the “crosshairs”, the operator can centre it by adjusting “IMG” slider.

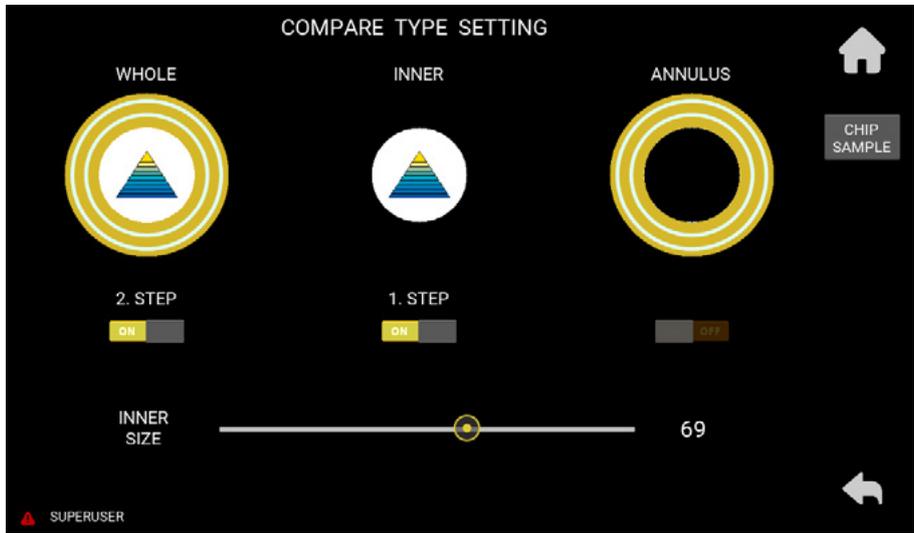
One can exit this mode by pressing the  icon.



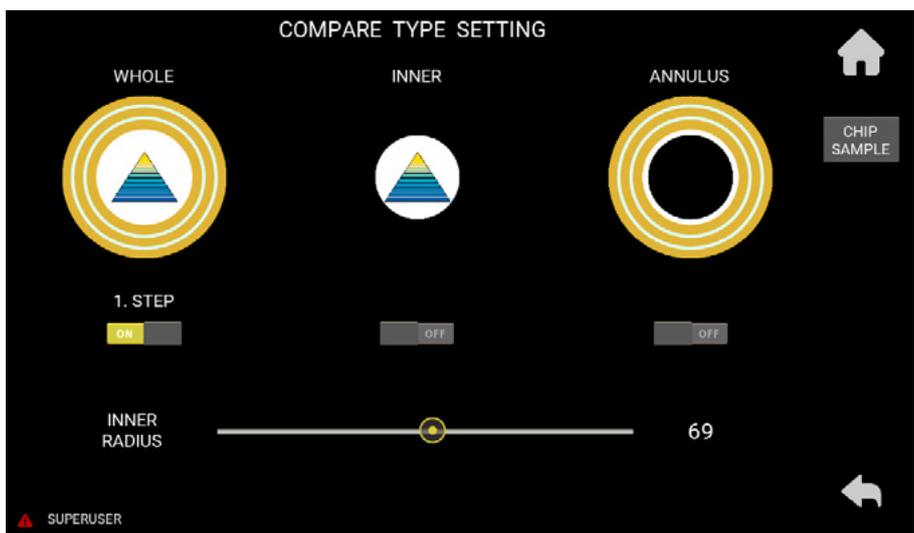
Changes made by the operator to the factory-set parameter values (NOT recommended) must be

confirmed for the final entry by pressing the  icon .

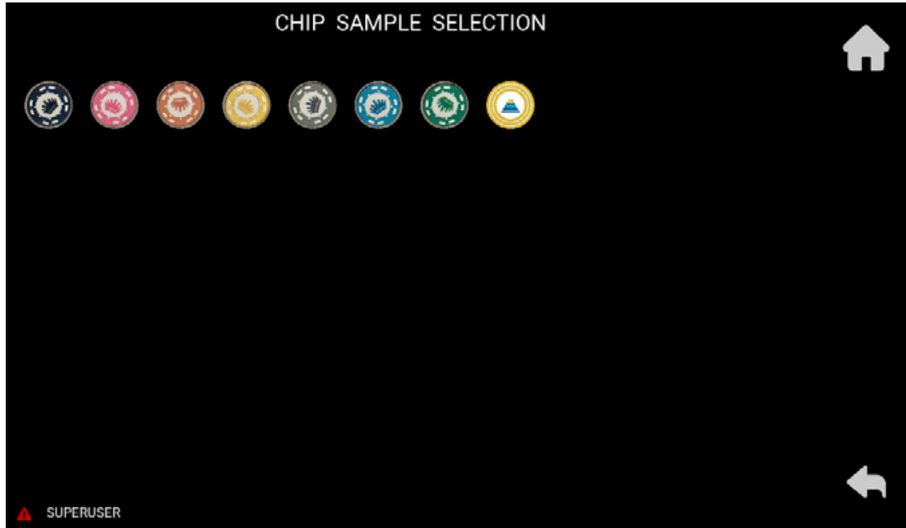
By pressing the “CALIBRATE” button, the program switches to the „capture” mode of variants of empty chip cups images. The mode ends automatically after a chain completes the full circle. The program then records the captured „variants” of the images of the empty chip cups. These images are used in the chip “sorting” mode.



By pressing the “COMPARE TYPE” button, the program switches to the „compare type” mode. It gives us an option of setting the compare type chip image with “tailored” chip images in the first step and in the second step, if necessary. Compare types can be “WHOLE”, “INNER” or “ANNULUS” (i.e. a full circle, an inner circle or an annulus). In default mode Compare Type is set to WHOLE in the first step of comparison and INNER in the second step. Setting the parameter INNER RADIUS allows to change the radius for the inner circle or an annulus.



Pressing the “CHIP SAMPLE” button the program switches to CHIP SAMPLE SLECTION mode.



Pressing the chip image will open up a dialog box.



Pressing the  icon in a dialog box allows to choose a chip sample that will show up in the frame of the "COMPARE TYPE SETTING" mode.

By pressing the  icon, the operator can switch to the second screen that shows the "status" of the device registers, as well as the IP address of the device if it is connected to the LAN.

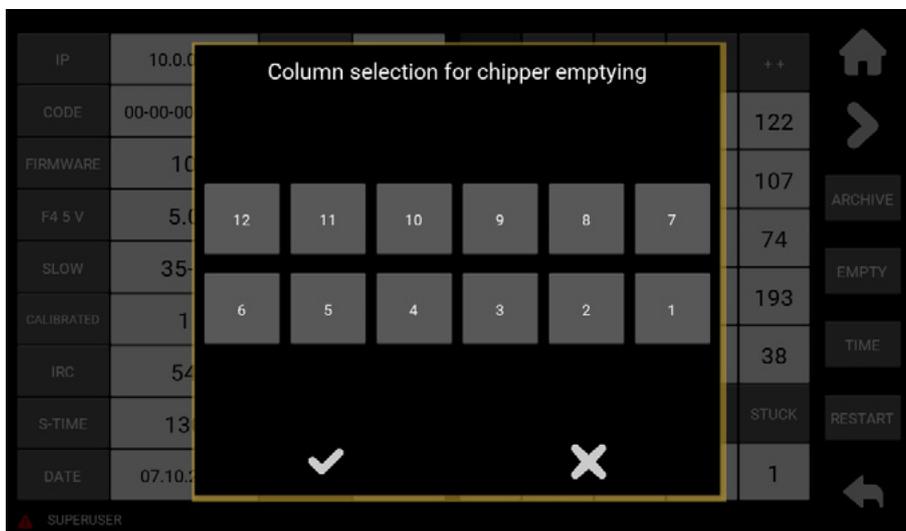


Pressing the “EMPTY” button will allow emptying the device and removes the chips.



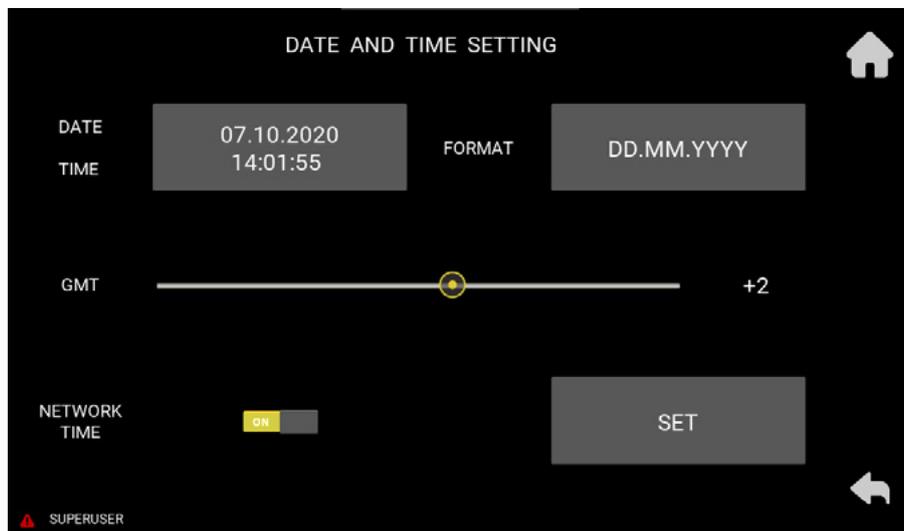
After “YES” a dialog box will show up “Column selection for chipper emptying” with twelve buttons.

By pressing the button the operator chooses a track that will be used for emptying the device.



Pressing the  icon will start emptying the device.

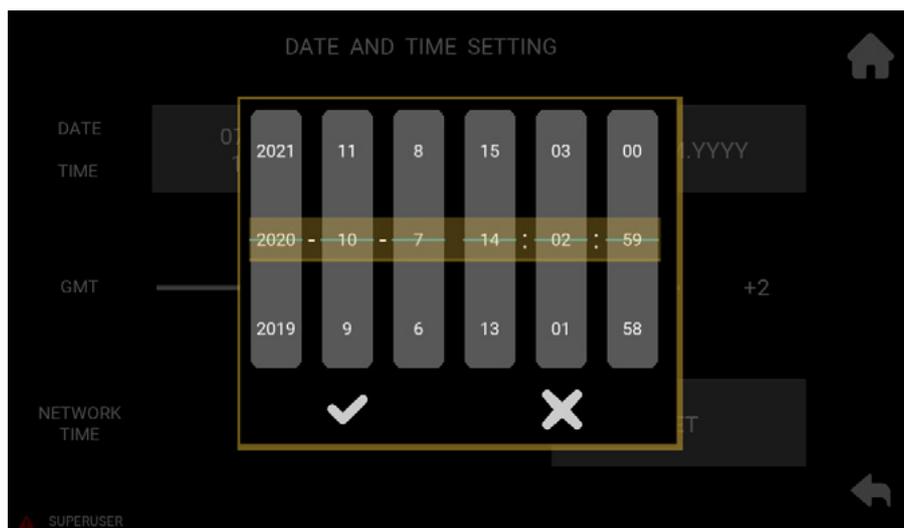
Having pressed the "TIME" button the operator can start "DATE AND TIME SETTING" of the device.



A button "DATE TIME" shows actual date and "local" time of the device that takes into account a set time shift given by value "GMT". A format for displaying time can be set (pre-set is DD.MM.YYYY). A "FORMAT" button pressed repeatedly chooses next time format in the menu (DD.MM.YYYY, DD/MM/YYYY, DD-MM-YYYY, MM.DD.YYYY, MM/DD/YYYY, MM-DD-YYYY, YYYY.MM.DD, YYYY/MM/DD, YYYY-MM-DD).

If a parameter "NETWORK TIME" is activated and the device is connected to the Internet, a press of a "SET" button adjusts the time and date according to the Internet.

It's possible to adjust date and time manually as well. A parameter "NETWORK TIME" must be deactivated. After having pressed "DATE TIME" it's possible to set a date and time in a dialog box.



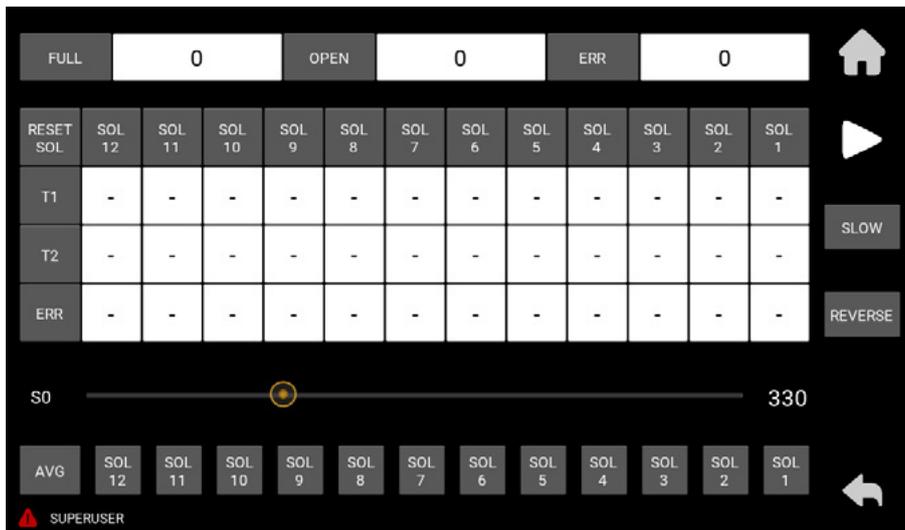
By pressing "SET" button the operator can adjust date and time of the device according to manual setting.

By pressing the "RESTART" button the operator restarts the device.



By pressing the  icon, the operator can switch to the third “testing” screen, which displays the status and functionality of the solenoid chip ejectors.

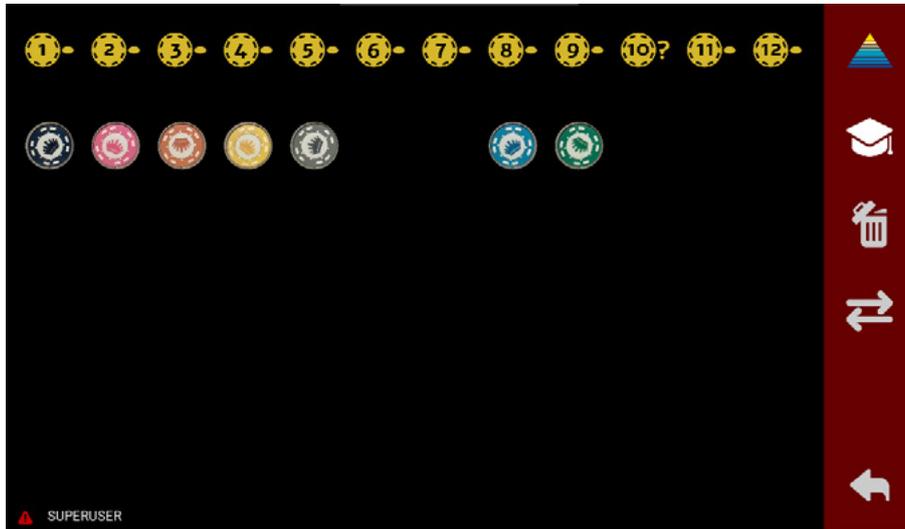
The home button in the upper right corner can be used to quickly transition to the basic screen.



Learning mode



The device’s learning mode is entered by pressing the  icon in the main menu.



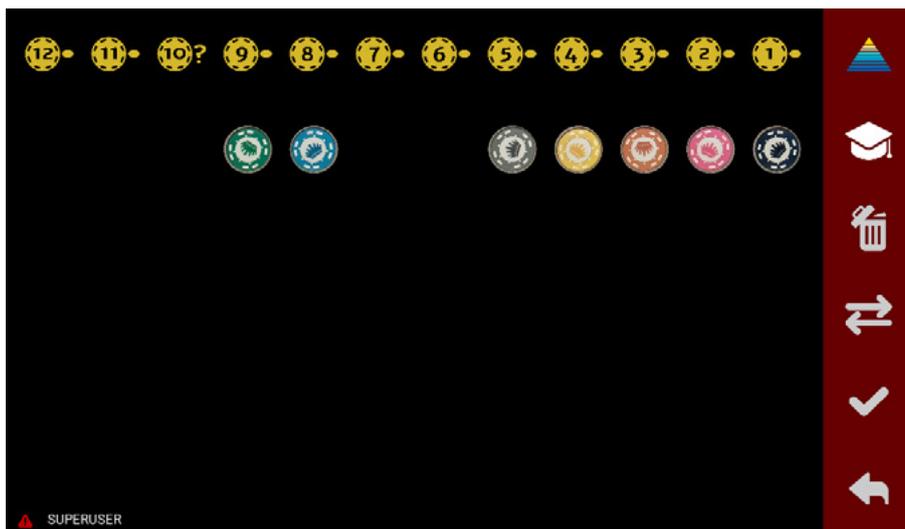
The screen displays 12 chip tracks which are active according to the current track settings. Each track is represented by a chip icon with a track number. To the right is an icon in the form of a column of chips. 1 to 4 tokens in the icon indicate the number of programmed chips for the particular track. If the device was in use already, then chips are assigned in the tracks according to the last “learning” session. An active chip track symbol shows as “yellow”, an inactive chips track symbol is displayed “grey”.



By pressing the  icon an operator can start “a learning update” and “relearn” new chips. By another pressing of the icon the learning will “pause” or “run” again.



Switching the direction of learning - assigning the chips to tracks can be done by pressing the  icon before starting the “first learning” session. The order of track filling can be either from right to left, thus track No. 1 is on the right, or from left to right - track No. 1 is on the left.



By pressing the  icon, the operator starts preparing a “new learning” session. Chip images recorded during the previous learning session will be deleted.



By pressing the  icon an operator will start a “new learning”. Newly scanned chips will be assigned to tracks starting from track No. 1.



The final entry and activation of the “learned” data is performed by pressing the  icon. At this phase, the sorted chip counters are reset (see Sorting mode) and the program switches back to the main menu.



Pressing the icon  cancels the learning session and returns to the main menu.

Pressing the chip icon will display the dialog box.



By pressing  the icon in the dialog box an operator can cancel a zoomed view of a selected chip.



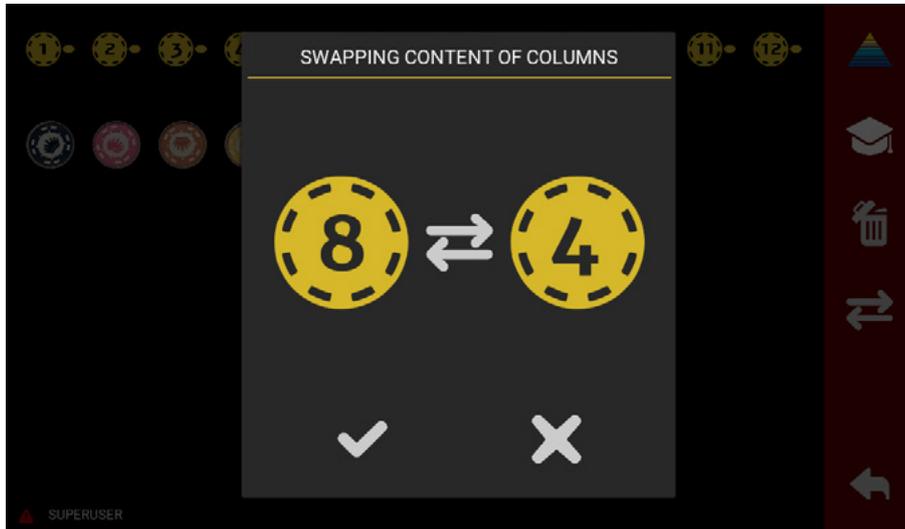
By pressing the  icon an operator can cancel the assigning of a selected chip to a given track. This makes the given position unassigned. The next captured chip image will be assigned to this position.



By pressing the  icon an operator can enter the mode of “swapping” the chip image to a different position during “learning”. Within next five seconds an operator can:

- mutually swap chips (i.e. swap their positions during learning) by pressing the “image” of a different chip
- move a chip to the first unassigned position in a given track by pressing on an icon of a chip with the number of a track in it

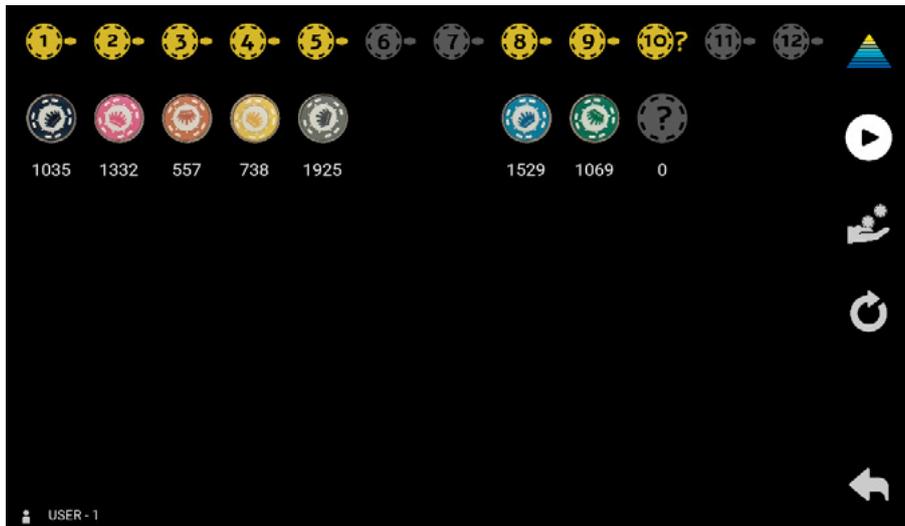
An operator can swap content of “tailoring” of any two track between them anytime. If an operator presses an icon of a chip with a track number in the header and within five seconds presses an icon of a chip with a track number of a different track header a “SWAPPING CONTENT OF COLUMNS” dialog box will pop up.



Pressing the  icon in a dialog box will swap “the tailored content” of chosen tracks between each other.

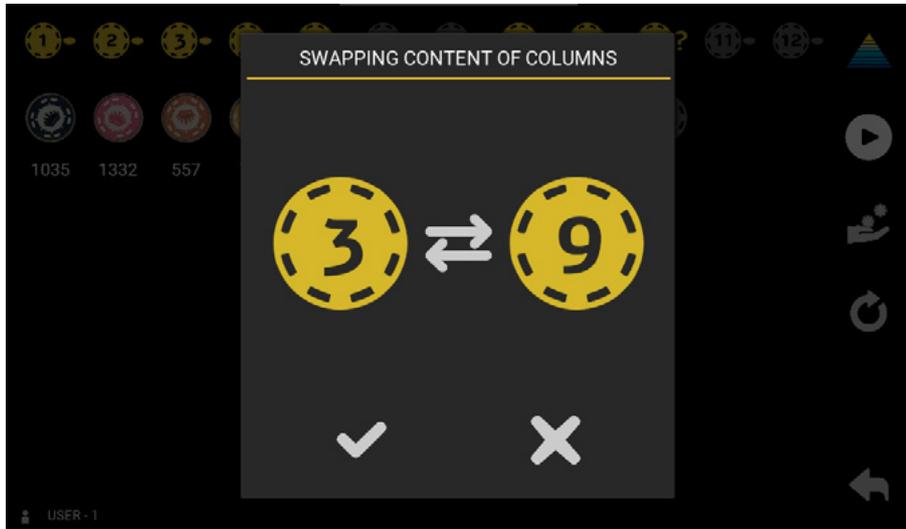
Sorting mode

To access the sorting mode press the  icon in the main menu.



The screen displays 12 tracks oriented according to the last recorded tailoring session. The header of each track is indicated by a chip icon with a track number. To the right is an icon pictured as a column of chips. 1 to 4 chips in the icon indicate the number of associated chips for the track. The colour of the header of each active track (with at least one chip assigned) is “yellow”, the colour of the header of each inactive track is “grey”. The tracks contain snapshots of the associated chips along with the counters. The counter indicates the number of sorted chips of a given type since the last “counter reset”.

If the “sorting” of chips is not started, an operator can switch the “programming” of any two tracks between each other. If an operator presses a chip icon with a track number in the header of one of the tracks and within 5 seconds also presses a chip icon with a track number in the header of another track, it initiates a dialog box allowing to swap content of column “SWAPPING CONTENT OF



COLUMNS”.



Pressing the icon in a dialog box will swap the content of the columns between each other.

By pressing a snapshot of any chip, the operator can call up an information window containing an enlarged snapshot of that chip and its counter.

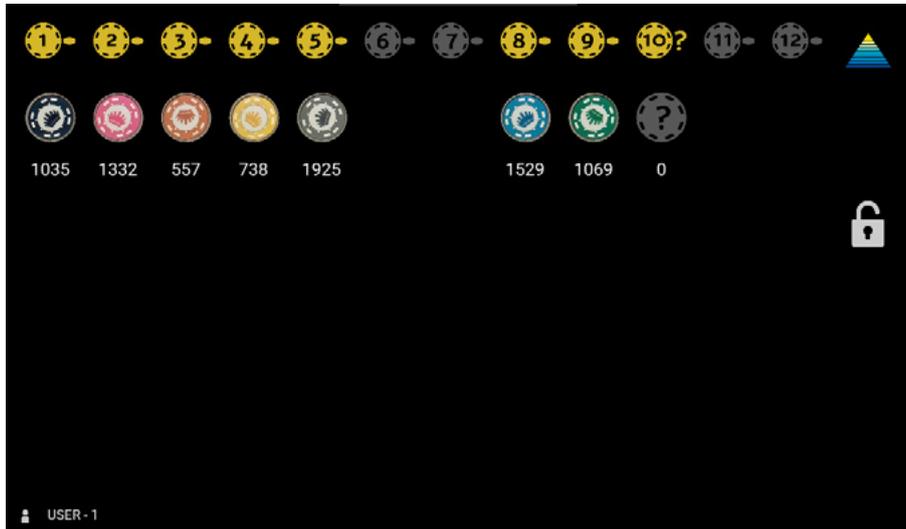


The operator starts the sorting by pressing the icon. Another pressing of the same icon pauses or starts the sorting process.

The screen locks automatically after 30 seconds following the start of the sorting process (if “CONTROL LOCK” parameter is active, see “User Settings”).



Pressing the icon for at least 3 seconds unlocks the screen.



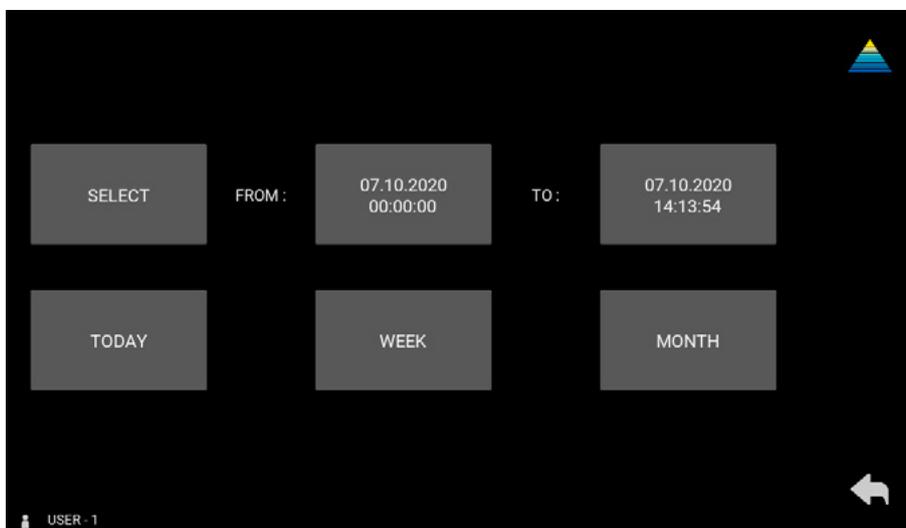
Pressing the  icon enables the operator to empty the device (see "Service Settings").

Pressing the  icon allows the operator with sufficient managerial rights to "reset" the counters of sorted chips. At the same time, the ongoing sorting is completed and the statistics of this sorting are finally recorded.

By pressing the  icon, the program returns to the main menu and at the same time, the ongoing sorting is completed and the statistics of this sorting are recorded.

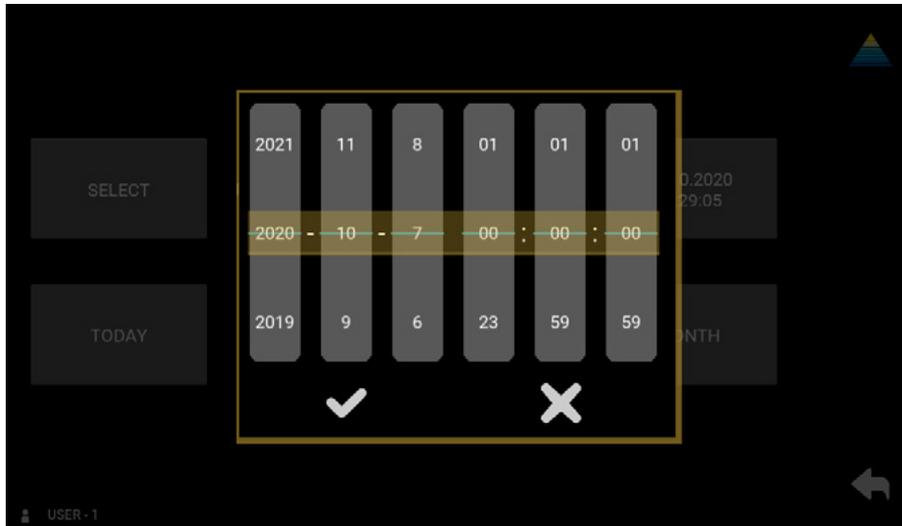
Statistics

To enter "the statistics" mode press the  icon in the main menu.



To return to the main menu press the  icon.

The operator has the option to select a specific time frame. Pressing the buttons for the “FROM” and “TO” parameters brings up a dialog box. Here the date and time are selected and the selection is confirmed by pressing the  icon.



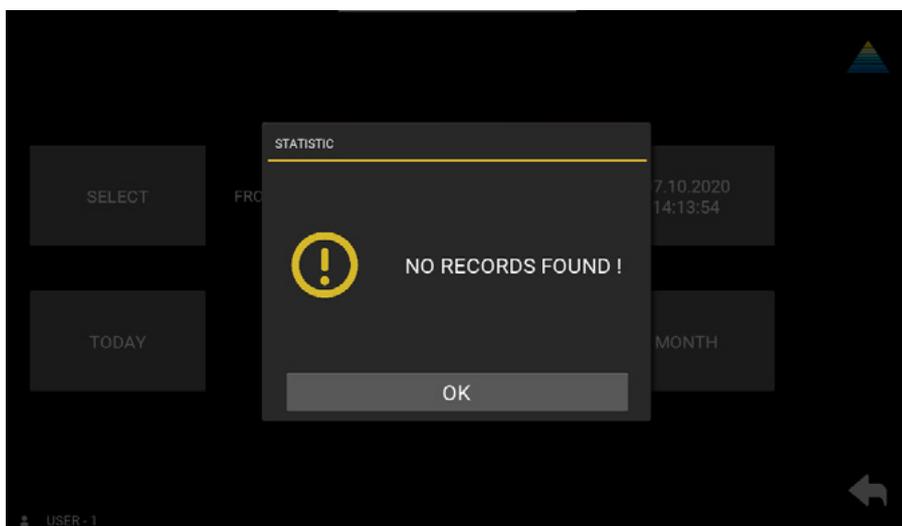
Pressing the “SELECT” button starts the evaluation of sorting statistics for the selected period.

The operator also can quickly select a specific period by pressing the “Today”, “Week” and “Month” buttons and start the evaluation of sorting statistics for the period “Today”, “Past week” and “Past month”.

The program evaluates the sorting statistics for the selected period.

If the program finds that there were no recored sortings in a selected period, it will display the dialog box:

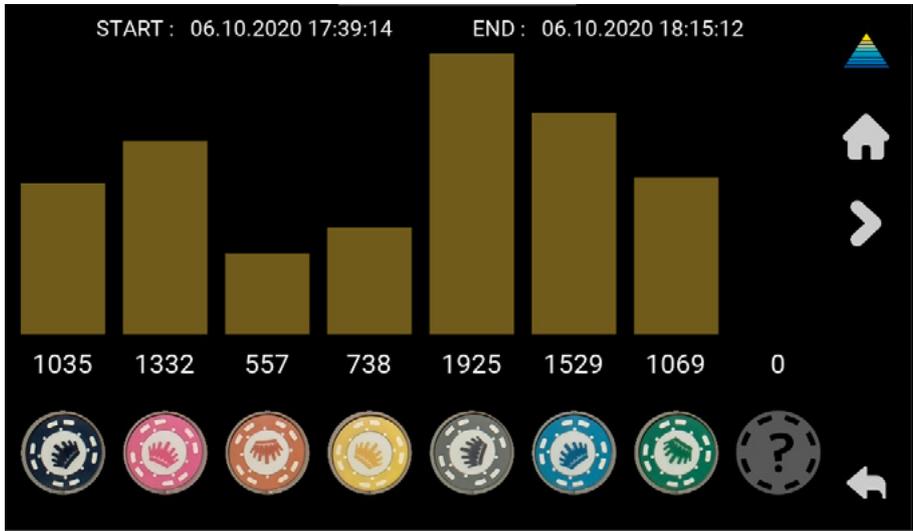
If the program finds that sortings for more than one “tailoring session” have been recorded in the selected period, it will evaluate the statistics for each “tailoring session” separately. If the program



does not detect recorded sortings for multiple users in the selected period, it will display the resulting statistics.

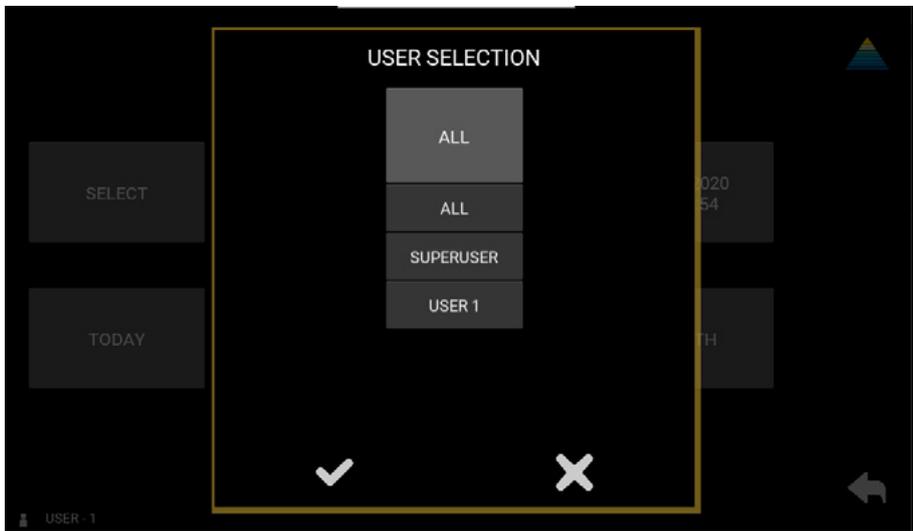
If the resulting statistic consists of several separate statistics, it is possible to switch between them by

pressing the   icons.



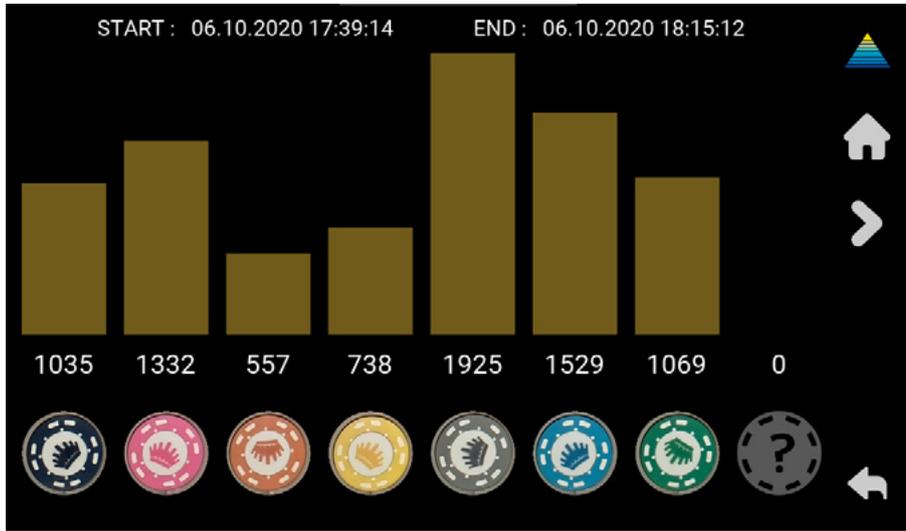
By pressing the  icon the operator switches the program back to the screen for selecting the statistics.

If the program detects recorded sortings for several "users" in the selected period, it displays a dialog box in which the operator can specify the "user" for whom the resulting statistics are to be evaluated.



Pressing the  icon confirms the selection and the program shows the resulting statistics.

Internet connection via a LAN cable is a must for the evaluation of the statistics to work properly.



Safety instructions

- The device is designed for 230V, 50Hz electrical network (110V, 60Hz for the US version).
- The device may only be operated by a trained adult.
- Repairs, modifications, and servicing of the device may only be executed by the manufacturer or a contractual partner.
- Device inspection may only be performed by a trained person approved by the manufacturer.
- Do not insert foreign objects into the device. Doing so may cause damage to the equipment, risk of fire, or electric shock.
- Do not place the device on uneven, unstable, or sloping surfaces.
- The device is designed for indoor use only.
- Unplug the device before cleaning.
- A damaged power cord must be replaced with a new one approved by the manufacturer.
- The device must not come into contact with liquids and water.
- Do not tamper with the stacking tracks or remove the chip nozzles in any way during the operation of the device.
- The device is designed for sorting plastic chips up to a diameter of 40 mm and a thickness of 3.3 mm.
- Do not use ceramic chips! They are brittle and can peel off or break, which can damage the device.
- The cover can only be removed by trained personnel.
- Only a service technician or a contractual partner can intervene in the electronic parts as well as in the mechanical parts.
- It is forbidden to change the settings of the frequency converter during operation.

Online support

For this function to work properly, it is necessary to have the device connected to the Internet via a LAN cable. The device does not support WIFI. ChipperX must be turned on, i.e. the switch is in the ON position.

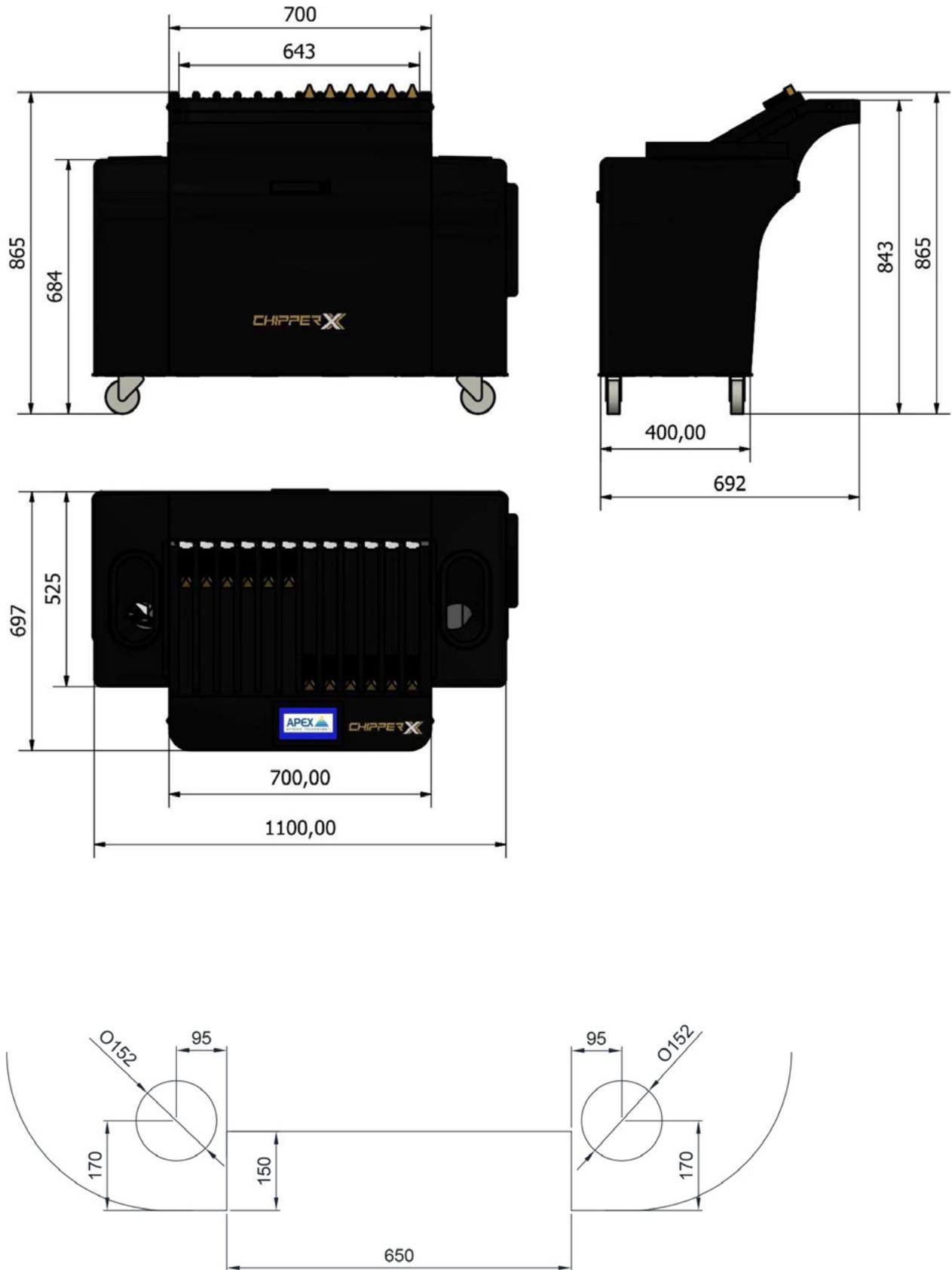
When online support is required, a service technician remotely connects to the device and diagnoses the problem, resolves it in some cases, or identifies an approach for subsequent service. Online support can also help set the conditions for proper “learning”. They can determine the conditions of individual electronic parts, change programmed settings or diagnose device faults.

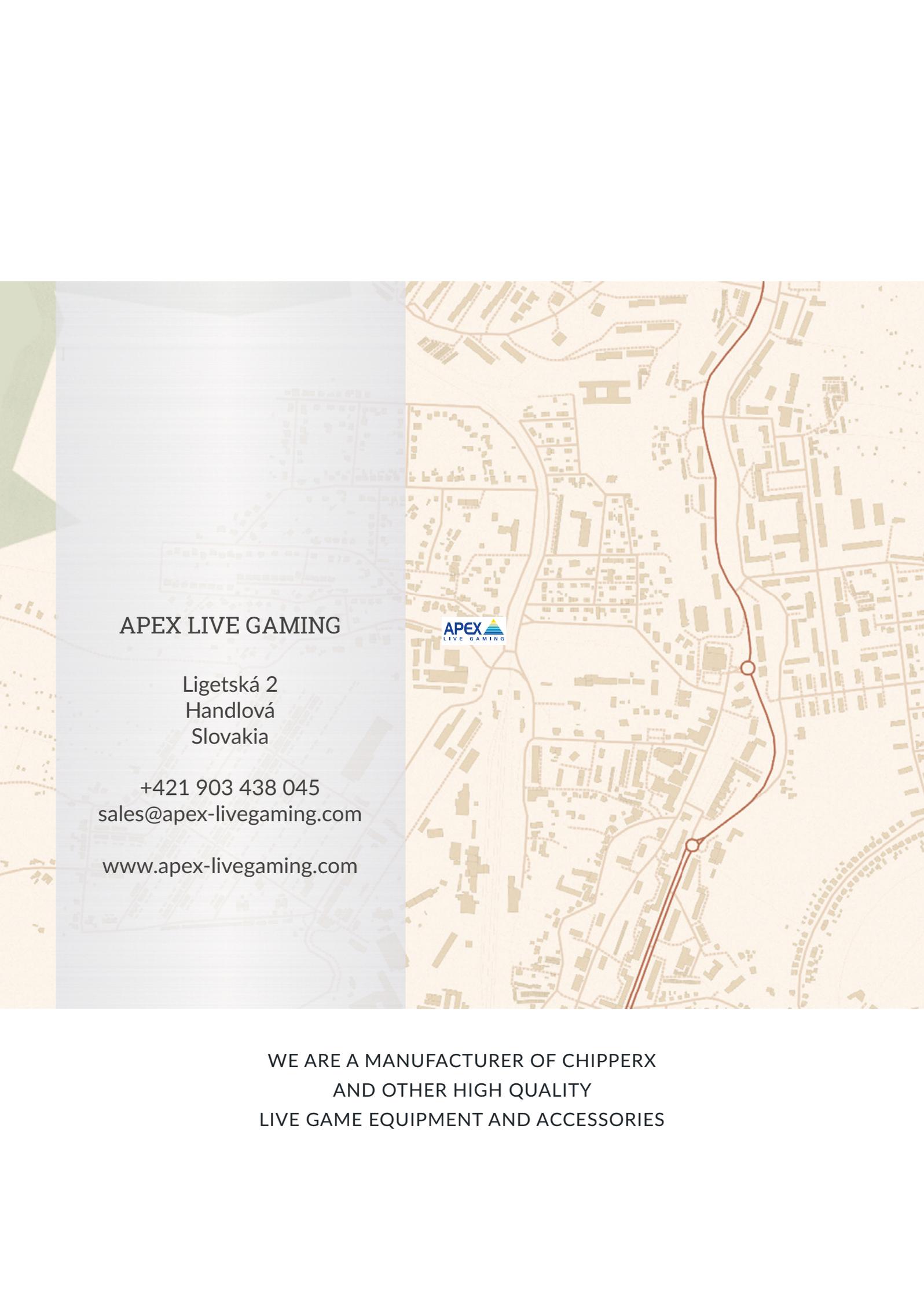
Not all defects or problems can be solved through online support. Problems of mechanical nature can only be diagnosed by a technician with the help of a video recording, a telephone call, a photo, etc.

support@apex-livegaming.com

+421 901 701 552

Dimensions and installation





APEX LIVE GAMING

Ligetská 2
Handlová
Slovakia

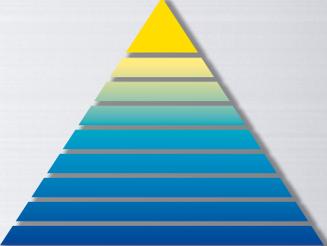
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LIVE GAME EQUIPMENT AND ACCESSORIES

Thank you for your time and attention. We are looking forward to getting in touch with you.

APEX 
L I V E G A M I N G