



LENNERTS
& PARTNER GmbH

MobileApps - Downloading / Feedback

Documentation



MobileApps - Downloading / Feedback

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1 GENERAL

1.1 DESCRIPTION

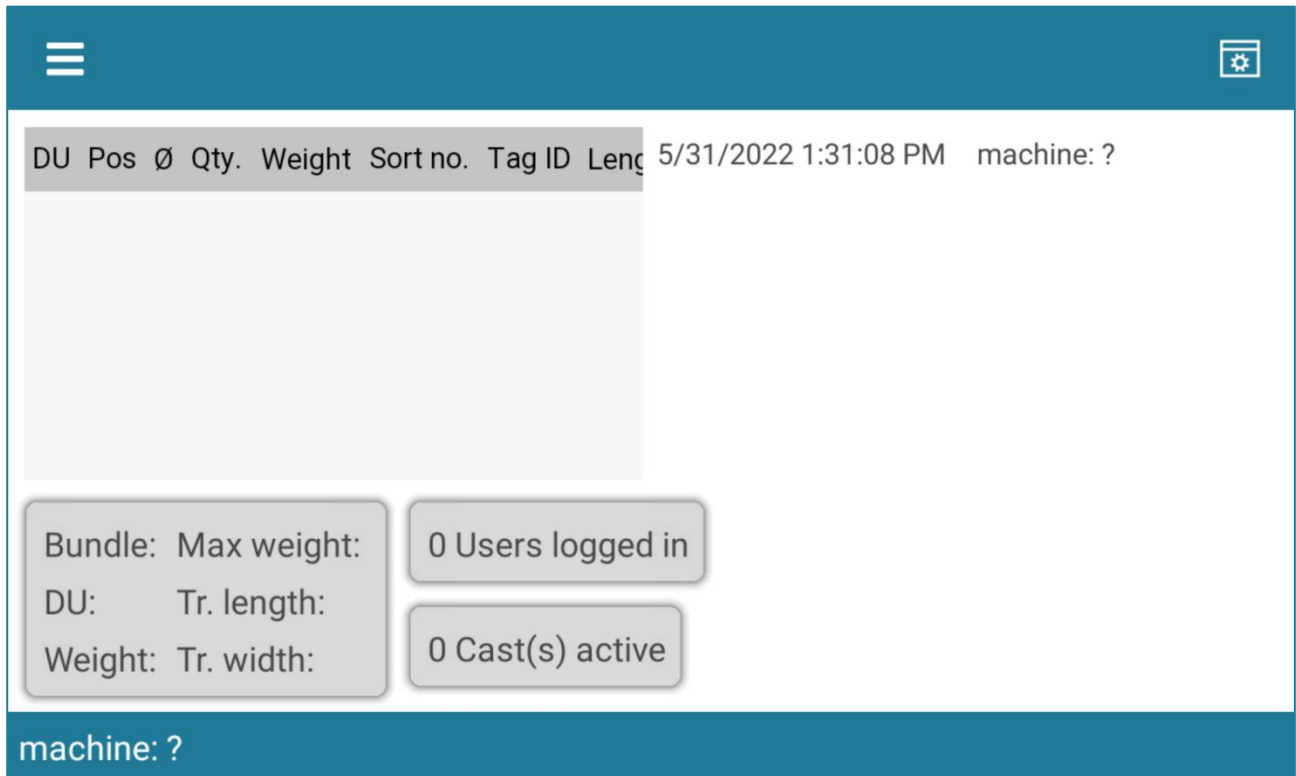
The mobile app "Downloading" was designed to run on a mobile scanner. It allows to perform the feedback of production items as well as downloading to the machines. Furthermore, login of operators, maintaining of casts and master bundling is supported.

1.2 REQUIREMENTS

The mobile app requires a device with either Windows 10 operating system in version 1803 minimum or Android operating system in version 8.0 minimum.

2 MAIN SCREEN

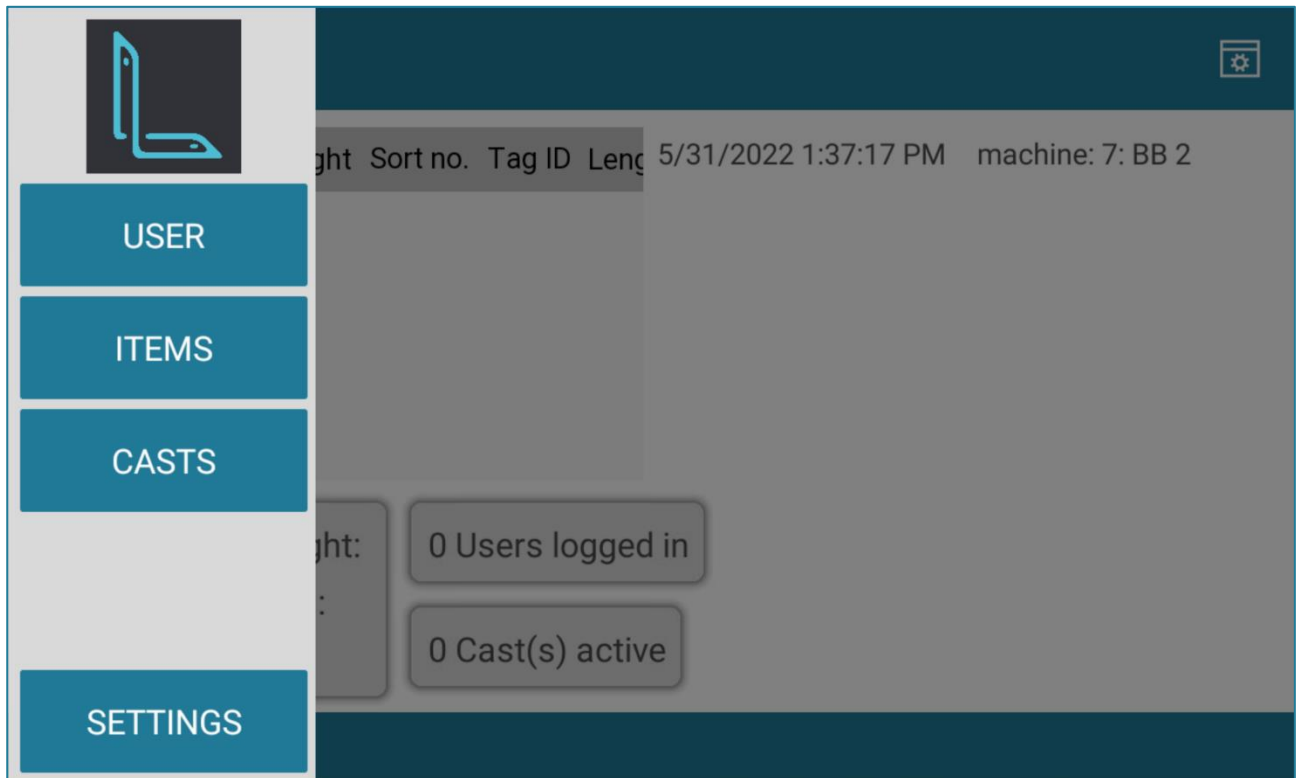
The main application screen shows based on the configuration either a table of items (left), a list of messages (right) or both. Below a box for bundling (left) and a box for operator login (right) are displayed. Underneath the operator login a box for cast management is displayed when this has been activated in the settings. The status bar at the end always shows the last message.



The screenshot shows the main application screen with a blue header bar containing a menu icon on the left and a settings icon on the right. Below the header, there is a table with the following header row: DU, Pos, Ø, Qty., Weight, Sort no., Tag ID, Leng. The table body is currently empty. To the right of the table, the date and time '5/31/2022 1:31:08 PM' and the text 'machine: ?' are displayed. Below the table, there are two boxes: a bundling box on the left and a login box on the right. The bundling box contains the text 'Bundle: Max weight:', 'DU: Tr. length:', and 'Weight: Tr. width:'. The login box contains the text '0 Users logged in' and '0 Cast(s) active'. At the bottom of the screen, a blue status bar displays the text 'machine: ?'.


3 MENU

By clicking on the menu button in the upper left corner of the main screen the menu appears. Here you can switch between the different screens.






4 SETTINGS


In the settings you can choose the application language as well as the language in which the messages are displayed. The option "Manual insert barcode" activates a button in the upper right corner of the main screen. When clicking on it a window for manual input of the barcode number is shown in case the barcode is not readable. The option "Using casts" turns on the box for cast management as well as the menu button "Casts". The selection in the option „Positions view mode" defines if the table of items, the list of messages or both is displayed. The parameter "Max. messages" restricts the number of last messages. Under "Graphic shape" several adjustments regarding the measured shape code picture can be found.

 Settings


Mode



Language

en-US 

User language

English 

Scan with camera

☐ Off


Manual insert barcode

☐ Off

Using casts


☒ On

Positions view mode

Both 

Max. messages

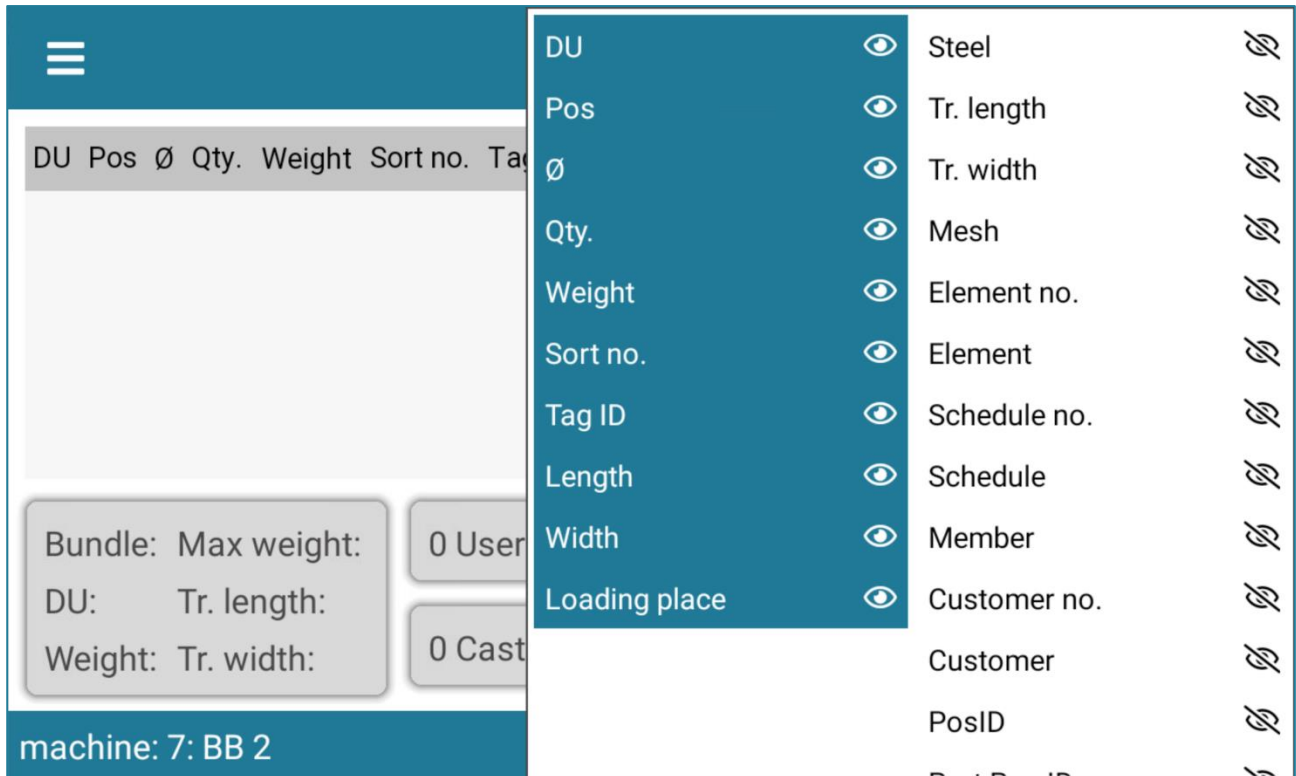
25

 Graphic shape

Language English

5 COLUMN SELECTION

By clicking on the button "Column selection" in the upper right corner of the main screen a separate view appears. Here you can show resp. hide columns as well as change their sequence by drag&drop.



Column	Attribute	Toggle	Delete
DU	Steel	👁	✕
Pos	Tr. length	👁	✕
Ø	Tr. width	👁	✕
Qty.	Mesh	👁	✕
Weight	Element no.	👁	✕
Sort no.	Element	👁	✕
Tag ID	Schedule no.	👁	✕
Length	Schedule	👁	✕
Width	Member	👁	✕
Loading place	Customer no.	👁	✕
	Customer	👁	✕
	PosID	👁	✕

6 MACHINE SELECTION

The app can be linked to one specific machine or the machine selection could be activated. In the second case the main application screen shows a question mark after the start. Simply scan a machine barcode from the list of machines to select the corresponding machine. As soon as a machine has been selected resp. when a specific machine is linked the short description of the machine is displayed in the title bar.



The screenshot shows the 'Items - BB 2' screen of an application. At the top, there is a header bar with a menu icon on the left, the title 'Items - BB 2' in the center, and a settings icon on the right. Below the header, there is a table with the following columns: DU, Pos, Ø, Qty., Weight, Sort no., Tag ID, and Leng. The table contains three rows of data:

DU	Pos	Ø	Qty.	Weight	Sort no.	Tag ID	Leng
							5/31/2022 1:31:08 PM machine: ?
							5/31/2022 1:31:58 PM barcode is read
							5/31/2022 1:31:58 PM machine: 7: BB 2

Below the table, there are two status boxes. The left box contains the following text:

- Bundle: Max weight:
- DU: Tr. length:
- Weight: Tr. width:

The right box contains the following text:

- 0 Users logged in
- 0 Cast(s) active

At the bottom of the screen, there is a blue bar with the text 'machine: 7: BB 2'.

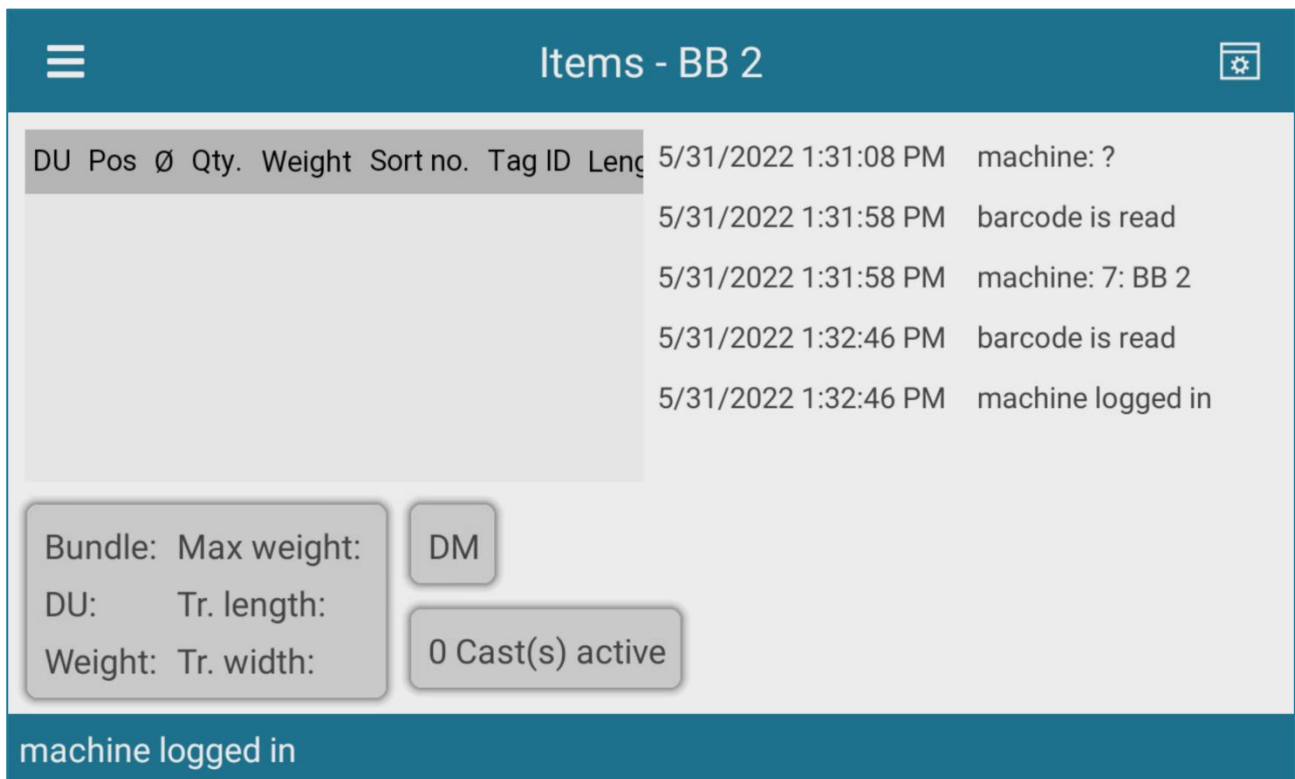
8 OPERATOR LOGIN

8.1 PROCESS FLOW

1. Scan
operator card

8.2 DESCRIPTION

To login an operator, simply scan the barcode "Production" from the corresponding operator card. If only one operator is logged in the initials of the operator are shown directly in the box. If several operators are logged in, the number of operators is displayed in the box.



The screenshot shows the 'Items - BB 2' interface. At the top, there is a header bar with a menu icon on the left, the title 'Items - BB 2' in the center, and a settings icon on the right. Below the header, there is a table with columns: DU, Pos, Ø, Qty, Weight, Sort no., Tag ID, and Leng. The table contains five rows of data. Below the table, there is a summary box with the following information: Bundle: Max weight: (empty), DU: Tr. length: (empty), Weight: Tr. width: (empty), DM (button), 0 Cast(s) active (button). At the bottom of the interface, there is a status bar that says 'machine logged in'.


DU	Pos	Ø	Qty	Weight	Sort no.	Tag ID	Leng
							5/31/2022 1:31:08 PM
							5/31/2022 1:31:58 PM
							5/31/2022 1:31:58 PM
							5/31/2022 1:32:46 PM
							5/31/2022 1:32:46 PM

Summary box:


- Bundle: Max weight: (empty)
- DU: Tr. length: (empty)
- Weight: Tr. width: (empty)
- DM (button)
- 0 Cast(s) active (button)

Status bar: machine logged in

By clicking on the box as well as by clicking on the button "User" in the menu the display switches to the screen "Users". Here you can log out single operator by clicking on the button.

 User

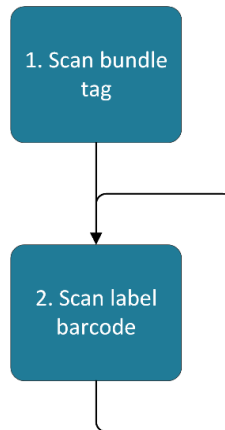
ID: 86
No: 38
Name: DM



machine logged in

9 BUNDLING

9.1 PROCESS FLOW



9.2 DESCRIPTION

To start the bundling process simply scan a master bundle tag. The number of the master bundle is show in the bundling box immediately. Items can be linked to the master bundle by scanning the corresponding barcode from the item label. The values of the bundle are updated continuously.

Items

DU	Pos	Ø	Qty.	Weight	Sort no.	Tag ID
595	333	14	10	25	74	14019020

5/31/2022 1:40:57 PM

barcode is read

5/31/2022 1:40:57 PM

New bundle 1001440

5/31/2022 1:41:00 PM

barcode is read

5/31/2022 1:41:00 PM

New bundle 1001440

5/31/2022 1:41:10 PM

barcode is read

5/31/2022 1:41:11 PM

B: 1001440 DU: 595 #1 @

Bundle: 1001440 Max weight: 1000

DU: 595 (1) Tr. length: 1.299

Weight: 25 Tr. width: 0.86

0 Users logged in

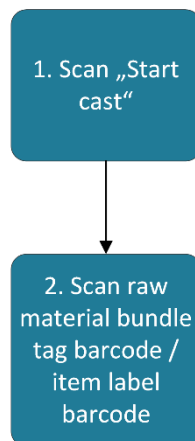
0 Cast(s) active

B: 1001440 DU: 595 #1 @

10 CAST MANAGEMENT

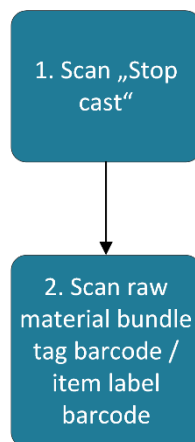
10.1 PROCESS FLOW

10.1.1 STARTING CAST NUMBERS

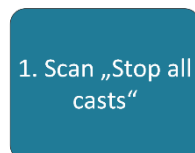


10.1.2 STOPPING CAST NUMBERS

To stop a specific cast:



To stop all active casts:



10.2 DESCRIPTION

10.2.1 STARTING CAST NUMBERS


To register cast numbers with the feedback of production items, the used casts have to be started on the machine before feeding back any items. Two types of barcodes can be used as casts:

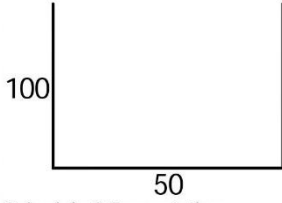

1. The raw material bundle tag barcode of the suppliers
2. The production item label barcode for any pre-produced items (even from other subsidiaries)

To start a cast scan the barcode "Start cast".




When the barcode has been scanned the application ask for the raw material bundle tag or the production item label barcode. Now, scan the raw material bundle tag or production item label barcode.


Goods receipt / Item No. 6 / 1	Delivery Note No. 123
Supplier Traflix SPA	Delivery date 17.09.2019
Product JAK2120R - KAM KS 550 TS 12 MM - Coil	
Weight 125,000 KG	Cast 1234
 7977	

Con.: Tunnel 1		Project: 10001		Weight: 1.371 kg		BP: 32 mm	
Cust: LENNERTS & PARTNER GmbH		Sched.: 245 DF-S		Proj: 10001		Sched: 245 DF-S	
Qua.: 16 Ø: 8 Steel: BSt500S Lg.: 0.250 m DD: 01.03.2016 Wei: 1.580 kg	 Schedule 2 Presentation		DU: 466 BM: 28		DU: 466 Qua.: 16 Ø: 8	BM: 28 DD: 01.03.2016 Lg.: 0.217 m	 StirrupB1

When the raw material bundle tag or the production item barcode has been scanned, the cast is started. Any item fed back afterwards will be linked to this cast.



Items - BB 2



DU	Pos	Ø	Qty.	Weight	Sort no.	Tag ID	Leng	
								5/31/2022 1:32:46 PM barcode is read
								5/31/2022 1:32:46 PM machine logged in
								5/31/2022 1:33:43 PM barcode is read
								5/31/2022 1:33:43 PM Waiting for steel
								5/31/2022 1:33:45 PM barcode is read
								5/31/2022 1:33:45 PM Charge started


Bundle: Max weight:
 DU: Tr. length:
 Weight: Tr. width:

DM

1 Cast(s) active

Charge started

By clicking on the box as well as by clicking on the button „Casts” in the menu the display switches to the screen “Casts”. Here you can stop single casts by a click on the button.



Casts

Cast: 12345678


Ø: 8


Steel: BSt500S

Mesh:

Weight: 0

Started: 5/31/2022 1:33:45 PM




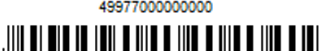





Charge started

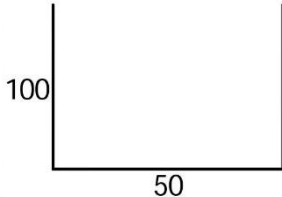

10.2.2 STOPPING CAST NUMBERS

To stop a single cast number simply scan the barcode "Stop cast" first.

Cast Management	
	Start cast 4998300000000
	Stop cast 4998400000000
	Stop all casts 4999100000000
	Interrupt cast 4997700000000
	Cancel 4999800000000

Now, scan the raw material bundle tag or production item label barcode.

Goods receipt / Item No. 6 / 1		Delivery Note No. 123	
Supplier Traflix SPA		Delivery date 17.09.2019	
Product JAK2120R - KAM KS 550 TS 12 MM - Coil			
Weight 125,000 KG		Cast 1234	
 7977			

Con.: Tunnel 1		Project: 10001		Weight: 1.371 kg		BP: 32 mm	
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Qua.: 16 Ø: 8 Steel: BSt500S Lg.: 0.250 m DD: 01.03.2016 Wei: 1.580 kg			DU: 466 BM: 28	DU: 466 BM: 28 Qua.: 16 DD: 01.03.2016 Ø: 8 Lg.: 0.217 m			
Schedule 2 Presentation				 StirrupB1			

To stop all currently started cast numbers simply scan the barcode "Stop all casts".

