

Human-Machine Interface

User manual

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Table of Contents

Introduction	2
General information	2
Roles and access levels	3
Installation	5
Prerequisite	5
Installing the HMI software on a specific computer	5
Pre-installing	5
Installing	6
Starting HMI	7
General	8
Main window	8
Operator action panel : States	11
Operator action panel : Alarms	13
Operator action panel : Options	16
Operator action panel : Login	17
Operator action panel : Shortcuts	18
Operator action panel : Statistics	20
Operator action panel : Recipes	22
Configuration	24
HMI configuration	26
Product configuration	29
Asycube configuration with Ethernet	30
Asycube configuration with RS	33
Asyview configuration	36
Robot configuration	38
Process configuration	40
User management	42
User management : home	42
User management : manage users	44
User management : edit panel	46
Asycube	48
Home	49
Easy tune	52
Platform	56
Outputs	61
Reservoir	65
Backlight	69
Process	71
Scripting	75
Console	79
Configuration	81
Troubleshooting	87
Technical support	88
For a better service	88
Contact	88
Revision table	89

Introduction

This documentation describes the pages of this interface and possibilities supplied by. How to configure your products is not described in it.

Another specific documentation explains how to work with your product and the HMI provide only a solution to do it.

General information

This document is the property of Asyrl S.A.; it may not be reproduced, modified or communicated, in whole or in part, without our prior written authorisation. Asyrl S.A. reserves the right to modify any information contained in this document for reasons related to product improvements without prior notice. Before using the product, please read this entire document in order to ensure that the product is used correctly. However, if you encounter difficulties when using the product, do not hesitate to contact our customer service department.

In this manual, the safety information that must be respected is split into three types: "Danger", "Important" and "Note". These messages are identified as follows:

**DANGER!**

Failure to respect this instruction may result in serious physical injury.

**DANGER!**

This instruction identifies an electrical hazard. Failure to respect this instruction may result in electrocution or serious physical injury due to an electric shock.

**IMPORTANT!**

Failure to respect this instruction may result in serious damage to equipment.

**NOTE:**

The reader's attention is drawn to this point in order to ensure that the product is used correctly. However, failure to respect this instruction does not pose a danger.

**Reference ...**

For more information on a specific topic, the reader is invited to refer to another manual or another page of the current manual.

Roles and access levels

The HMI has many different access level to be able to limitate access to important, sensible or dangerous parameters to operators.

In this documentation, minimum level required to access to an element is identified by icons on the right of the explanation of the element. If there is no icon signify that operator has access to this element.

Icons list:

Icon	Level access minimum
	Advanced operator
	Technician
	Advanced technician
	Integrator

The table below defines the actions that can be performed by each professional permitted to work on the machine:

	Operator	Advanced operator	Technician	Advanced technician	Integrator	Developer
Switch on/switch off the unit						
Login/Logout						
Select/load a recipe						
Launch/Stop production	✓	✓	✓	✓	✓	✓
Create a statistical report	✓	✓	✓	✓	✓	✓
Access the basic functionalities of the "header" screen						
Read the values of the process dynamic variables						
Acquire and analyse an image	⊘	✓	✓	✓	✓	✓
Move the robot						
Vibrate the Asycube						
Add/modify an operator						
Modify the values of the process dynamic variables	⊘	⊘	✓	✓	✓	✓
Obtain and analyse an image	⊘	⊘	✓	✓	✓	✓
Perform a new calibration						
Save a recipe						
Access the full ARL program						
Create a new process	⊘	⊘	⊘	✓	✓	✓
Access the full Vision parameters	⊘	⊘	⊘	✓	✓	✓
Create a new Vision recipe						
Add/modify a technician	⊘	⊘	⊘	⊘	✓	✓
Access maintenance/debugging	⊘	⊘	⊘	⊘	✓	✓
Add/modify an integrator	⊘	⊘	⊘	⊘	⊘	✓
Advanced access to HMI, Robot and Asyview	⊘	⊘	⊘	⊘	⊘	✓

Installation



NOTE:

If a computer is included in your product, the "HMI" software is already installed. This chapter explains how to install the HMI on your own computer if needed.

Prerequisite

To install and execute the HMI you need those elements:

- Computer with windows 7 (or 8) 64bits (a 32 bits version of HMI can be delivered on request)
- .Net 4.0 minimum installed.
- User access defined by your IT service to be able to install and execute software.



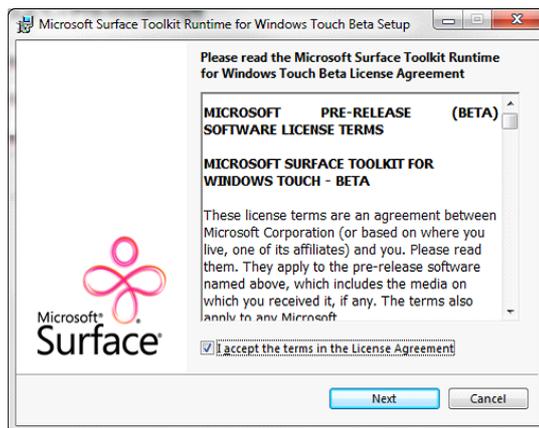
NOTE:

Check that your version of the ".net framework" is up to date. You can download this version from the Microsoft website: <http://www.microsoft.com/download/>

Installing the HMI software on a specific computer

Pre-installing

Step 1	Insert the USB key into the computer on which the HMI should be installed.
Step 2	Double-click on the SurfaceToolkitRuntime.msi executable file to launch the installation procedure.
Step 3	Accept the license agreement and follow the instructions provided by the wizard



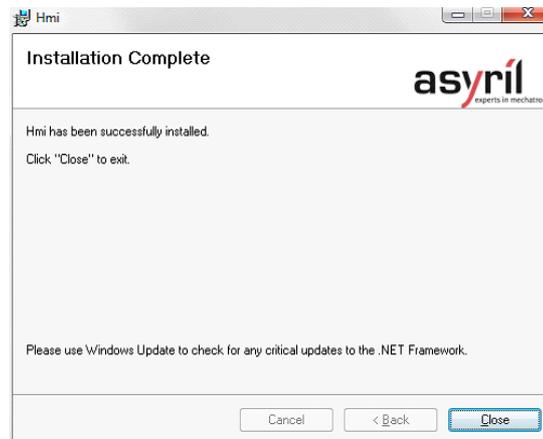
Step 4	When installation is complete, click on "Finish" to close the wizard.
---------------	---

Installing

Step 1	Insert the USB key into the computer on which the HMI should be installed.
Step 2	Double-click on the setup.exe executable file to launch the installation procedure.



Step 3	Follow the instructions provided by the wizard.
Step 4	When installation is complete, click on "close" to close the wizard



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Starting HMI	Document version : v1.0	

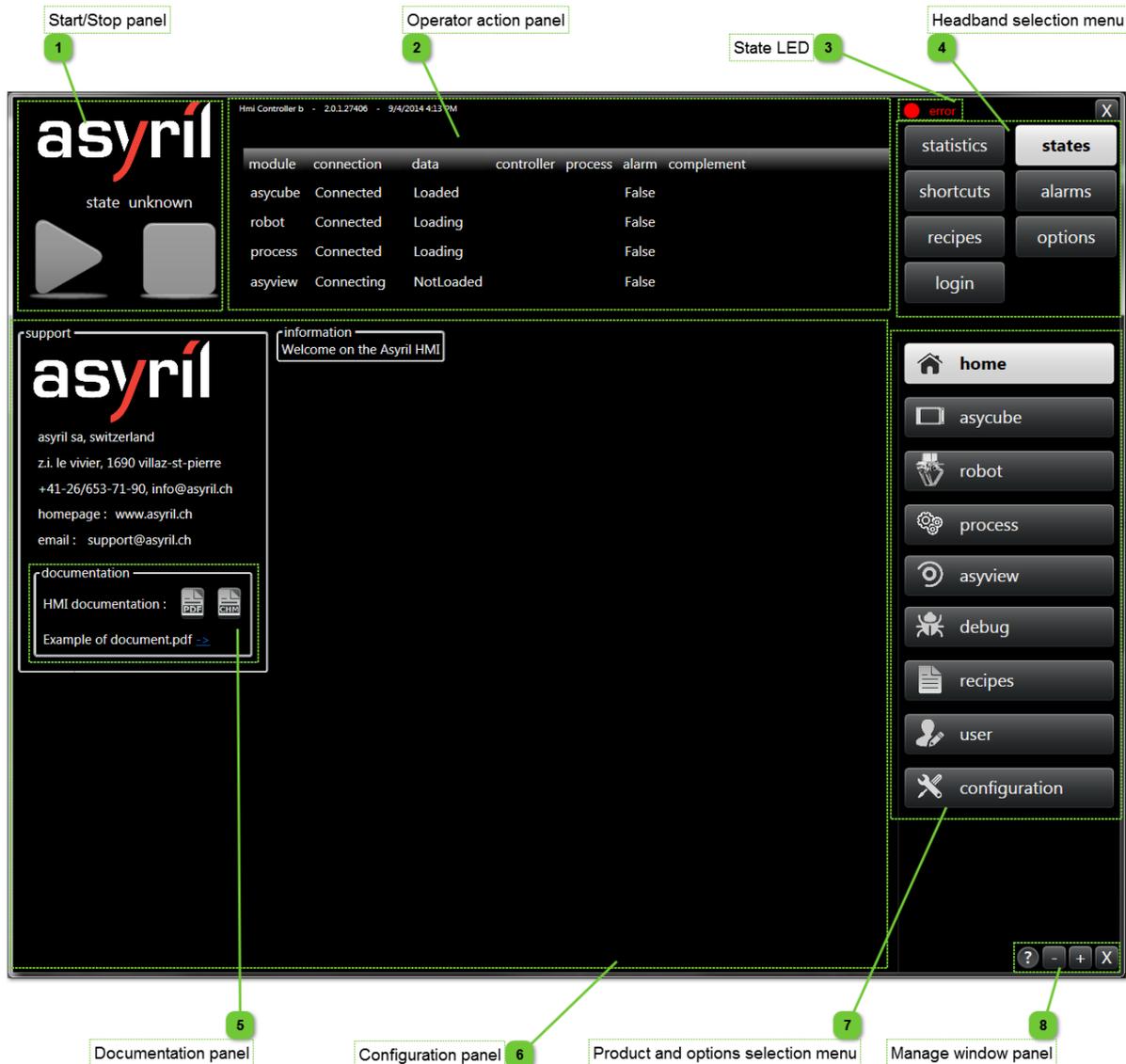
Starting HMI

Step 1	Click on the shortcut created on the desktop .
Step 2	If needed, configure the HMI depending of your products on the configuration page .

General

This chapter introduces you to the general aspect of the HMI. Page descriptions for products can be found in the following chapters.

Main window



1 Start/Stop panel



This part of the window give access to the start/stop action and show the OMAC state if the process is used. In other cases, this panel has only the Asyрил icon.

2 Operator action panel

module	connection	data	controller	process	alarm	complement
asycube	Connected	Loaded			False	
robot	Connected	Loading			False	
process	Connected	Loading			False	
asyview	Connecting	NotLoaded			False	

The operator action panel is the zone where operator can see some informations and execute some actions. Each button on headband selection menu display various informations or give access to some actions. In this example, the states panel is displayed (see description of this panel [here](#)).

3 State LED



This LED indicator shows the global state of the HMI. If one product is in error, the global state is in error. For more details for product states, click on states button on [headband selection menu](#).

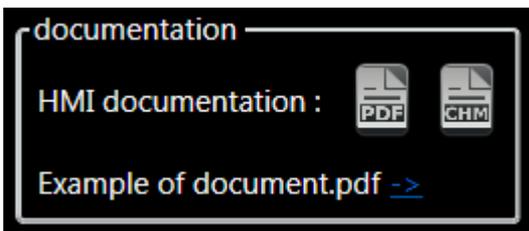
4 Headband selection menu



This menu gives access to all informations and actions that an operator can see or execute.

Name	Description	Link
Statistics	Informations about the production (when using the process).	more details
States	Informations about the states of all products (connection state and working state).	more details
Shortcuts	Allows to execute some simple actions on every products.	more details
Alarms	Displays alarms. This panel is automatically selected when an alarm occurs.	more details
Recipes	Allows to select and load a recipe.	more details
Options	Gives access to some options like language choice.	more details
Login	Allows to login/logout.	more details

5 Documentation panel



This panel gives access to documentations.

In standard, user can access to the HMI documentation in PDF and CHM (Microsoft Compressed HTML) formats.

In option, user can access to some other documentations.



NOTE:

Documents can be added in AsyрилData \Documentation folder and will be visible after a restart of the HMI.

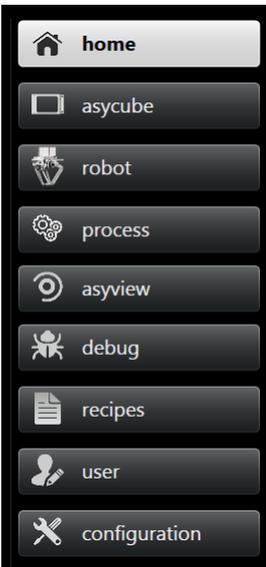
6 Configuration panel



This panel displays all configuration pages for all products and for other element (recipe, user management, etc). Operator has never access to this part. Advanced operator can have very restricted access.



7 Product and options selection menu



This menu gives access to all products defined in HMI configuration and to various other elements. See list below :

Icon	Name	Access to	Level
	asycube	AsyCube configuration pages	
	asyview	AsyView configuration pages	
	robot	Robot configuration pages	
	process	Process configuration pages	
	home	HMI home page	
	user	User management pages	
	configuration	HMI configuration pages	
	recipe	Recipe management pages	
	debug	Debug page	

8 Manage window panel

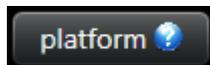
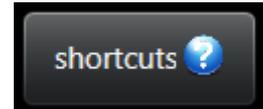
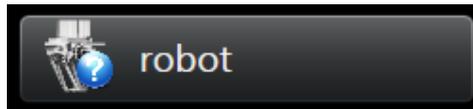


This panel is the standard panel to minimize, restore or extend to fullscreen the HMI window.

The question mark gives access to the help buttons in many places on the HMI.

When the question mark looks like this , some help buttons will appear on the HMI. By clicking on these, the documentation will be opened on the page concerning the element where the help button is located.

Examples of help buttons :



Operator action panel : States

This panel displays states of all products. It is essential and very helpful to have a global view of the state of the products.

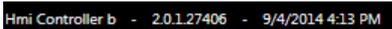
HMI version informations

State table

Hmi Controller b - 2.0.1.27406 - 9/4/2014 4:13 PM

module	connection	data	controller	process	alarm	complement
asycube	Connected	Loaded			False	
robot	Connected	Loading			False	
asyview	Connecting	NotLoaded			False	
process	Connected	Loading			False	

1 HMI version informations



The HMI version information can be found in this panel. This version number should be communicated in the event of any contact with the After-Sales department of Asyrl SA.

2 State table

module	connection	data	controller	process	alarm	complement
ascube	Connected	Loaded			False	
robot	Connected	Loading			False	
asyview	Connecting	NotLoaded			False	
process	Connected	Loading			False	

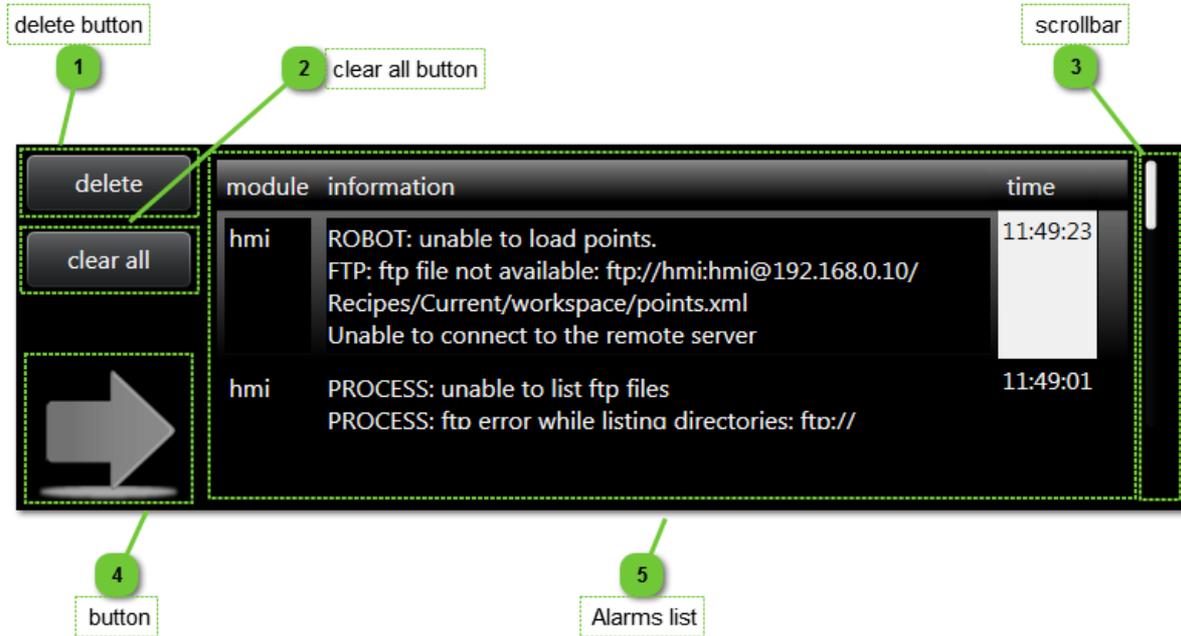
This table provides more information about the connection state of each module (robot, process, ascube and asyview) and indicates whether an alarm has occurred. In addition, the "data" column indicates whether the data related to each module has been loaded or not.

The table contains following informations :

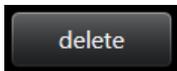
Column title	Description
module	Name of the involved product.
connection	State of the connection (disconnected, connected, connecting).
data	State of the data (loaded, not loaded).
controller	State of the controller (used only by the asyview (configuration, running, etc)).
process	State of the internal process of each product (idle, execute, stopping, etc).
alarm	Indicate if a product has an alarm (true/false).
complement	Additional process state (used only by the process and the asyview).

Operator action panel : Alarms

This panel displays warnings and alarms of all products and of the HMI itself.



1 delete button



This button is used to delete one preselected alarm message.



NOTE:

When an alarm message is deleted using the "delete" or "clear all" buttons, the alarm is not deleted, only the message is cleared. It is necessary to press the "➡" button before being able to resume production.

2 clear all button



This button is used to delete all alarm messages.



NOTE:

When an alarm message is deleted using the "delete" or "clear all" buttons, the alarm is not deleted, only the message is cleared. It is necessary to press the "➡" button before being able to resume production.

3

scrollbar



The scrollbar allows to navigate in alarm messages. The scrollbar is visible only when all messages cannot be displayed in the panel.

4

button



This button is available when an alarm occurs, and is greyed out under normal conditions.



NOTE:

When an error occurs, the situation that generated the alarm must be resolved and then the alarm cleared by clicking on the "➡" button

5 Alarms list

module	information	time
hmi	ROBOT: unable to load points. FTP: ftp file not available: ftp://hmi:hmi@192.168.0.10/ Recipes/Current/workspace/points.xml Unable to connect to the remote server	11:49:23
hmi	PROCESS: unable to list ftp files PROCESS: ftp error while listing directories: ftp://	11:49:01

This table provides useful information for diagnosing errors:

- The "**Module**" column gives the name of the module issuing the error (such as the Robot, Asyview, HMI, etc.).
- The "**Information**" column contains a clear explanation of the error encountered and possibly a solution to resolve it.
- The "**Time**" column provides information about the time and date on which the error occurred.

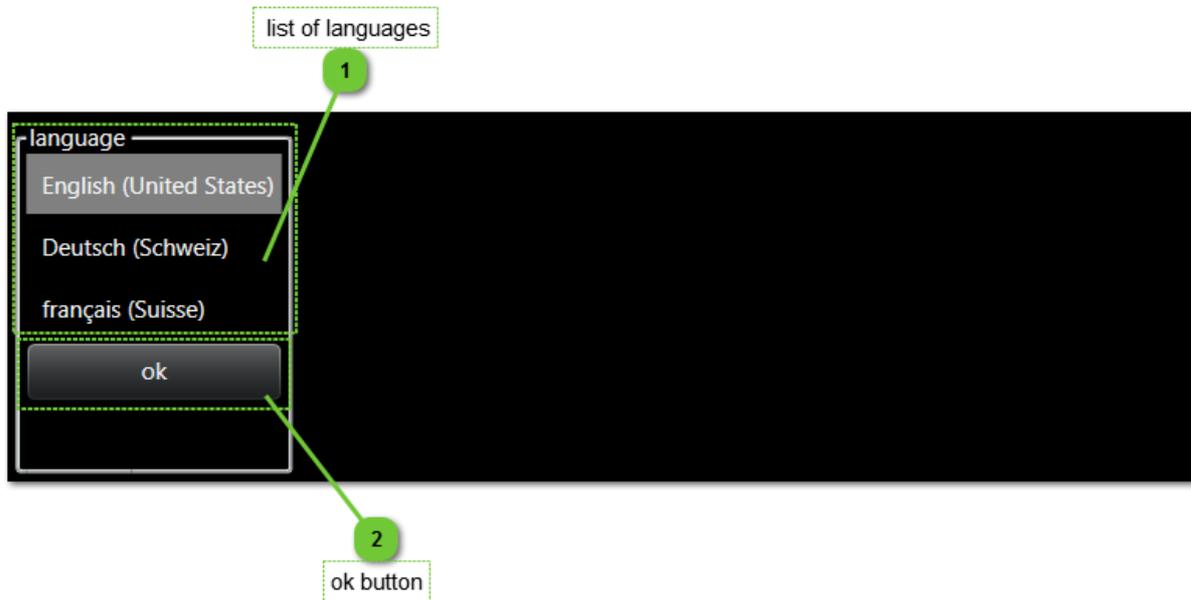


NOTE:

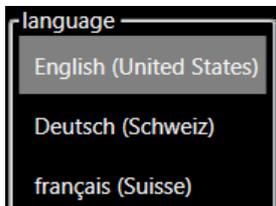
By keeping the mouse on the time value, the date of the alarm is displayed.

Operator action panel : Options

This panel gives access to global options, like language choice.



1 list of languages



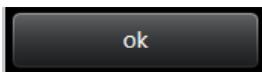
A specific language may be chosen by pressing the associated name.



NOTE:

Some languages are available on request; for more information, please contact Asyрил customer services.

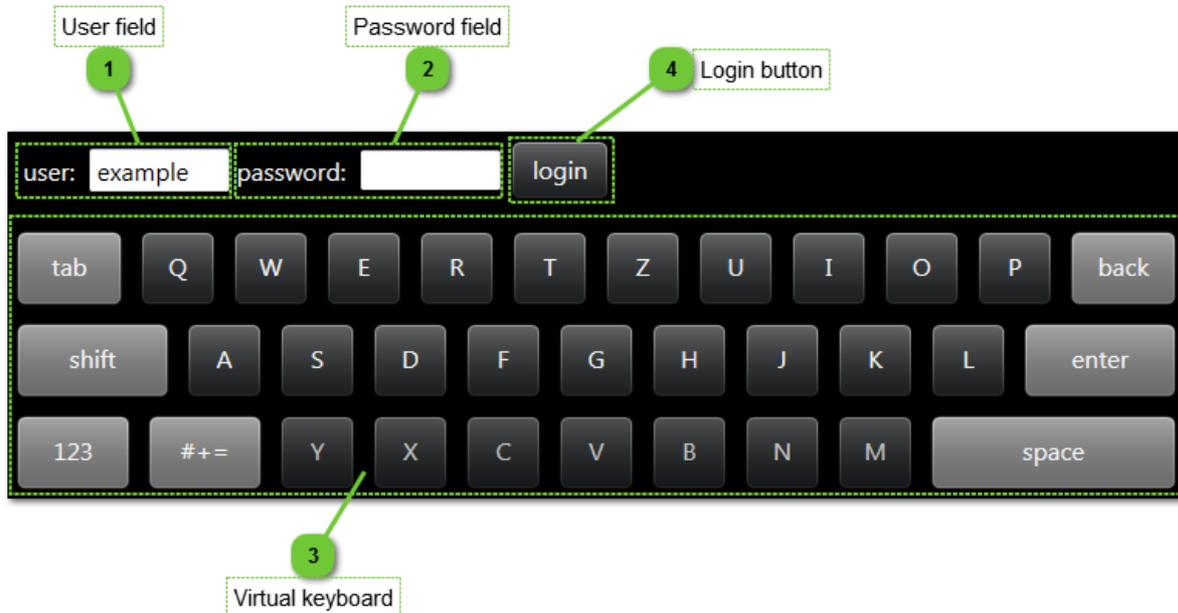
2 ok button



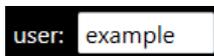
Press this button to validate the language selected.

Operator action panel : Login

This panel allows to login or logout on the HMI. See level access chapter for more [details](#).

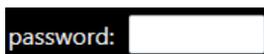


1 User field



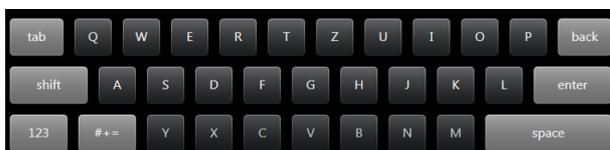
Enter user name here.
Click in the field to make keyboard visible.

2 Password field



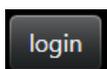
Enter password here.
Click in the field to make keyboard visible.

3 Virtual keyboard

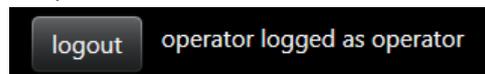


Keyboard allows to enter username and password.

4 Login button

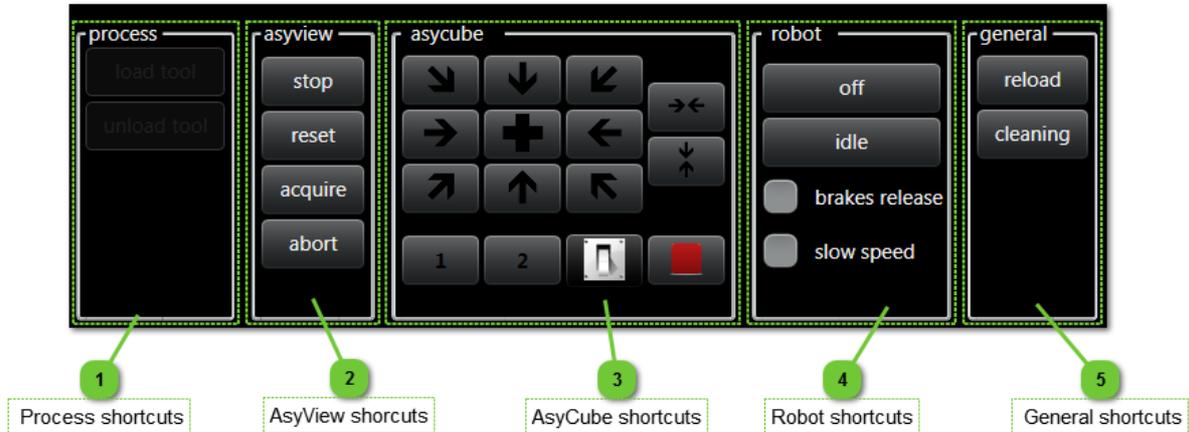


Press this button to log in.
When logged in, the panel become like that :



Operator action panel : Shortcuts

This panel gives access to simple, accessible for operator, functions for all products.



1 Process shortcuts



Shortcuts to functions of process give access to standard functions like Load/Unload tool and specific programs defined in programming page of process.

The two buttons "load tool" and "unload tool" enable a tool to be loaded or unloaded from the robot's platform.
Any other program whose name begins with " _ " will be displayed in this list in the form of a shortcut button.



IMPOTANT NOTE:

The programs executed from this list no longer respect the sequence of OMAC states. The program will be directly executed without passing through the "starting", "stopping" phases, etc.

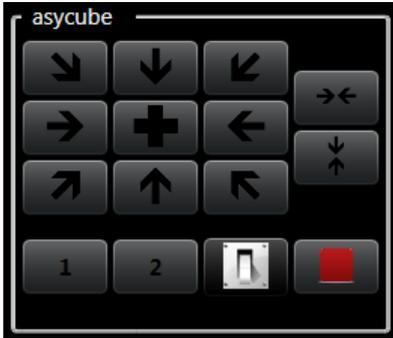
2 AsyView shorcuts



Shortcuts to functions of AsyView give access to main functions of AsyView:

- Pressing the "acquire" button enables a photo of the platform to be taken depending on the configuration performed.
- Pressing the "abort" button enables this image capture to be cancelled.
- Pressing the "reset" button allows to reset the Asyview.
- If necessary, the "stop" button may be pressed to stop the Asyview.

3 AsyCube shortcuts



Shortcuts to functions of AsyCube give access to standard functions of AsyCube:

- Nine buttons which provide to execute the standard batches for Platform (forward, right, backward-left, flip, etc.)
- Two buttons (on the right) to execute standard advanced vibrations (center long size and short size). These buttons are only visible for AsyCube Largo_A5.
- Two buttons (bottom) to execute reservoir activation (vibrations for Mezzo, Forte, Fortissimo and outputs activations for Largo_A5). In both cases, batches A and B are executed by these buttons.
- One button allows to switch the backlight on and off.
- One button allows to stop both vibrations and reservoir activation.

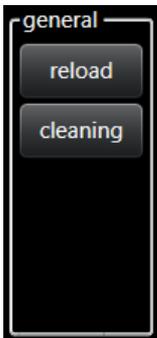
4 Robot shortcuts



Shortcuts to functions of Robot give access to useful functions of Robot:

- The "off" button is used to activate the brakes and to switch off the power to the motors.
- The "idle" button is used to activate the power to the robot and to initialize it.
- The "slowspeed" box enables the robot to be set at slow speed.
- If it is necessary to release the brakes (for the calibration steps for example), the "brakes release" box should be ticked (not possible in Operator level).

5 General shortcuts

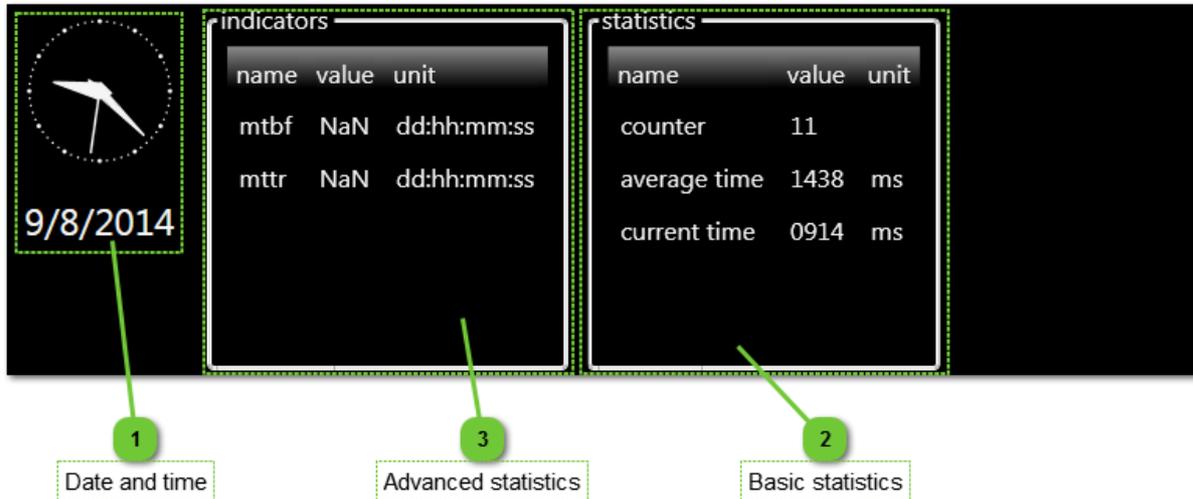


This general panel give access to general functions:

- Reload execute a data reload for all connected products.
- Cleaning display open a special page during 20 seconds to be able to clean the touch screen.

Operator action panel : Statistics

This panel displays some statistics value (cycle time, mtbf, average time, etc.) of productions.



1 Date and time

Display of actual date and time.



NOTE:

The date and time can be modified directly from the Windows toolbar

2 Basic statistics

The statistics displayed in this table are defined in configuration file ; it creates a link with ARL variables.

name	value	unit
counter	11	
average time	1438	ms
current time	0914	ms



NOTE:

For more information about this functionality, please contact Asyrl customer services.

3

Advanced statistics

indicators		
name	value	unit
mtbf	NaN	dd:hh:mm:ss
mttr	NaN	dd:hh:mm:ss

The statistics displayed in this table are defined by Asyrl SA.

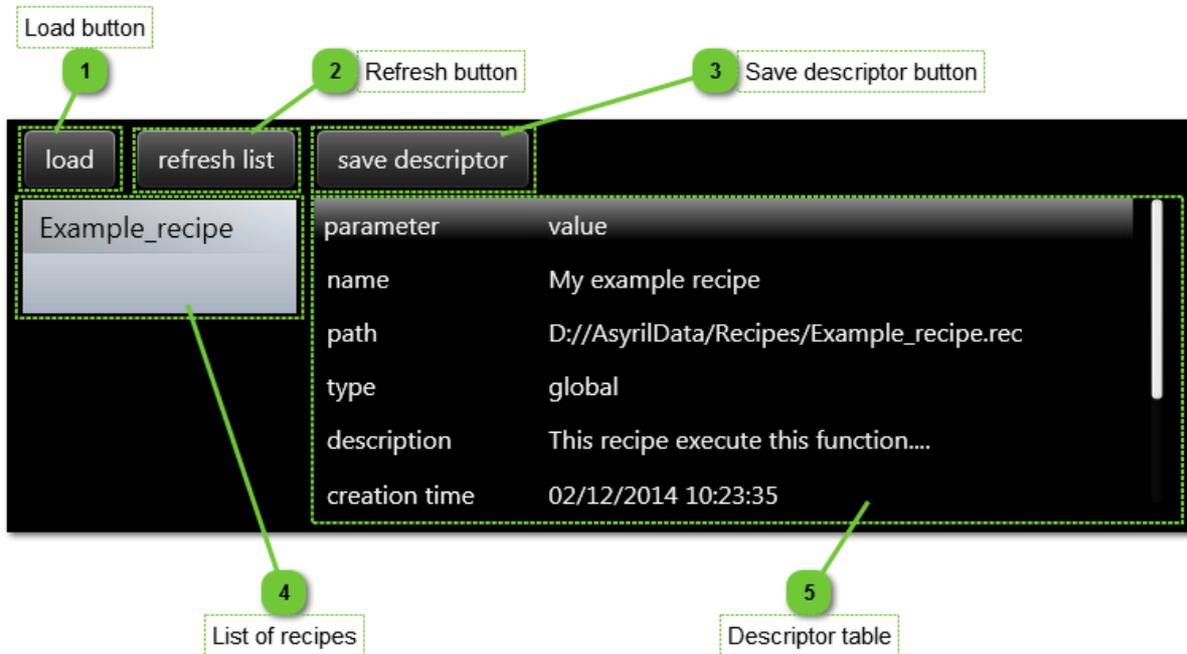


NOTE:

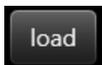
For more information about this functionality, please contact Asyrl customer services.

Operator action panel : Recipes

This panel allows to choose the recipe needed for the production.



1 Load button



When a recipe is selected in the list of recipes, this button allows to load the recipe.

2 Refresh button



This button is used to refresh the content of the list of recipes.

3 Save descriptor button



This button allows to save the descriptor.

4 List of recipes



This dropdown list makes it possible to scroll through all of the recipes configured and to load one.

NOTE:



A recipe must be loaded in the recipes folder in order to be displayed in the dropdown list.

The recipes folder can be choose in [HMI configuration](#). Default value is ...\\AsyрилData\\Recipes\\

5

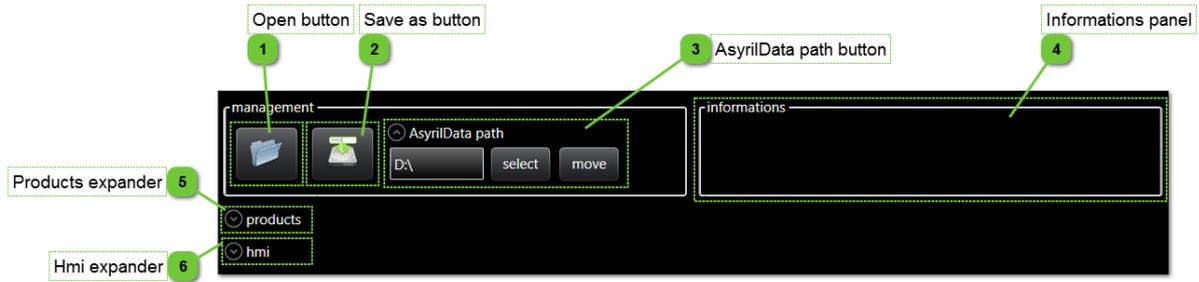
Descriptor table

parameter	value
name	My example recipe
path	D://AsyрилData/Recipes/Example_recipe.rec
type	global
description	This recipe execute this function....
creation time	02/12/2014 10:23:35

This descriptor is loaded when a recipe is selected. It may be modified then saved by clicking on the "save *descriptor*" button.

Configuration

This page allows to access to the HMI configuration editor.



1 Open button



Click on this button to load a HMI configuration file (*.arc). You need to restart the HMI to activate the loaded configuration.



2 Save as button



Click on this button to save the HMI configuration file (*.arc).



3 AsyriData path button



This panel gives access to the HMI data folder.



- The field displays the actual data folder.
- The select button allows to choose the target folder.
- The move button allows to choose the target folder and move data from actual folder to this folder.

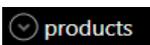
4 Informations panel



This panel displays some informations when editing HMI configuration.



5 Products expander



This expander allows to show/hide the products configuration part of HMI configuration.

This section is used to configure the products ([more details](#)).



6

Hmi expander



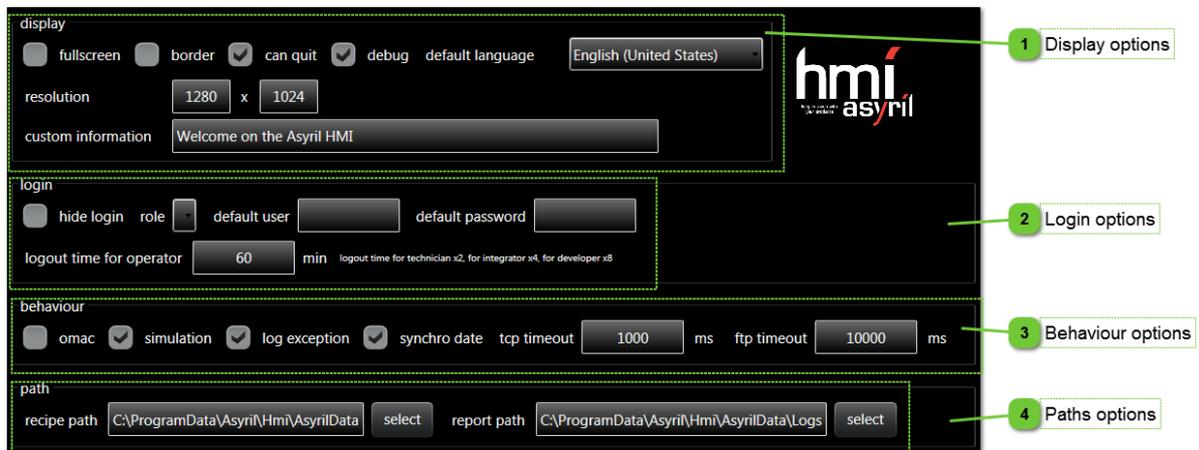
This expander allows to show/hide the HMI configuration part of HMI configuration. This section is used to modify some configuration of HMI ([more details](#)).



HMI configuration

This part of configuration page contains all specific parameters of HMI. These HMI parameters are divided in four different kind of parameters:

- Display parameters allow to change aspect of HMI.
- Login parameters allow to manage access to HMI on startup.
- Behaviour parameters allow to control the way of work of HMI (certain of these parameters are useful only with a specific product, not for all).
- Path parameters allow to modify standard path used by HMI.



1 Display options



This group gives access to following display parameters :



Option	Description
fullscreen	Activate this option to start HMI in fullscreen mode.
border	Activate this option to have border around HMI window.
can quit	Activate this option to have quit button on the top right angle of HMI window.
debug	Activate this option to display debug page.
default language	Select the default language to use when no user is logged.
resolution	Enter resolution values to start HMI with specific resolution (default values are 1280x1024).
custom information	Enter the text to display on HMI home page.

2 Login options

This group gives access to following login parameters :



Option	Description
hide login	Activate this option to hide the login button in headband menu selection and the user button in Product and options selection menu .
role	Select the default role to use when no user is logged (more details about roles here).
default user and password	Enter the default login name and password (to be automatically logged on startup).
logout time for operator	Enter the logout time for operator (system logout automatically the operator if no activity is detected during logout time value). The logout time for technician is 2x logout time for operator. The logout time for integrator is 4x logout time for operator.

3 Behaviour options

This group gives access to following behaviour parameters :



Option	Description
omac	Activate this option to enable using OMAC states (only useful with process).
simulation	Activate the simulation mode (work only with robot and process).
log exception	Activate this option to log HMI exceptions.
synchro date	Activate this option to synchronize date with robot.
tcp timeout	Enter the tcp timeout for all tcp communications (if product doesn't answer after this time, the product is considered disconnected).
ftp timeout	Enter the ftp timeout of all ftp communications.

4 Paths options

path

recipe path report path

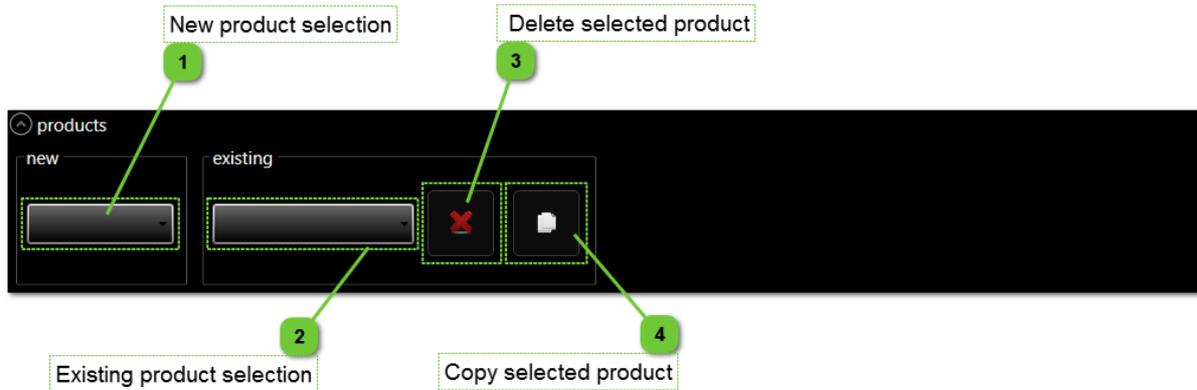
This group gives access to following paths parameters :



Option	Description
recipe path	Enter the target recipe path (if path is changed, recipe in actual folder will not be copied in the new folder).
report path	Enter the target report path (if path is changed, reports in actual folder will not be copied in the new folder).

Product configuration

This part of configuration page allows to declare new product in HMI or to modify parameters of an already defined product.



1 New product selection



Select a product type in this list to define a new product (of this type) in HMI configuration.



2 Existing product selection



Select an existing product in this list to modify, delete or copy a product definition.



3 Delete selected product



Delete the selected existing product from the HMI configuration.



4 Copy selected product

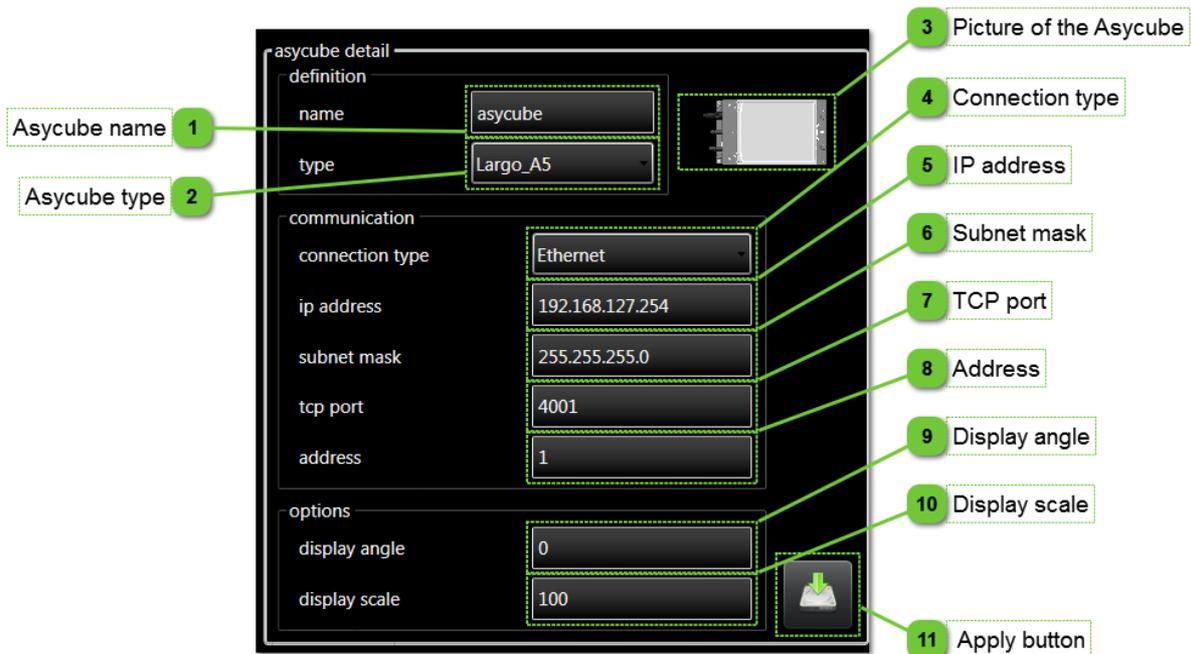


Copy the selected existing product from the HMI configuration and create a new one. A numeric suffix is added to the name of the product for the new product.



Asycube configuration with Ethernet

This panel appears when an Asycube is selected in one of the two lists and contains all parameters needed to define an Asycube in the HMI. This example is for an Asycube with Ethernet communication.



1 Asycube name

Enter a name of the Asycube. This name is used in all HMI displays where this product is involve (e.g. in [Products and options selection menu](#)).



2 Asycube type

Select the Asycube type of your product (Mezzo, Forte, Fortissimo or Largo_A5).



3 Picture of the Asycube



This picture gives a preview of the Asycube type selected.



4 Connection type

Select the connection type of the Asycube selected. Connection type possibilities depend of Asycube type as follow :



Type Asycube	RS485	RS232	Ethernet via converter	Ethernet native
Mezzo	x	x	x	
Forte	x	x	x	
Fortissimo	x	x	x	
Largo_A5				x

5 IP address

Enter IP address of your Asycube (default parameter is 192.168.127.254).



6 Subnet mask

Enter subnet mask of your Asycube (default parameter is 255.255.255.0).



7 TCP port

Enter tcp port of your Asycube (default parameter is 4001).



8 Address

Enter the address of your Asycube (1 for Largo_A5 and 1 to 8 according with rotativ selector of the Asycube for other types).



9 Display angle

Enter an angle value for the display of Asycube pages.



NOTE:

This parameter is useful to have display of Asycube in HMI in the same position as real Asycube position (e.g. reservoir on left or right).



IMPORTANT!

This value is not intended to have skew values (e.g. 30°, 45°, 78°, etc.). The standard values are 0°, 90°, 180° and 270°.

10 Display scale

Enter a scale value for the display of Asycube pages.



NOTE:

This parameter is useful to rescale displays in case of special angle used (e.g. decrease ratio with 90° or 270°).

11

Apply button



Click on this button to save the configuration of your Asycube. You need then to restart HMI to apply configuration changes.

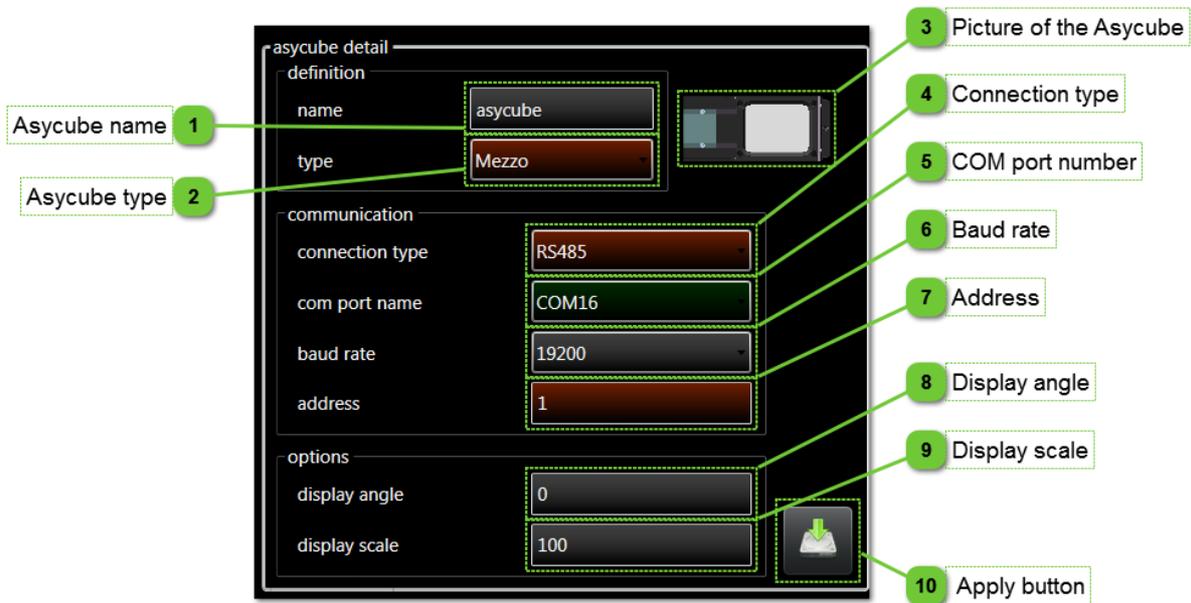


NOTE:

A message in [Information panel](#) inform you to restart the HMI to apply configuration changes.

Asycube configuration with RS

This panel appears when an Asycube is selected in one of the two lists and contains all parameters needed to define an Asycube in the HMI. This example is for an Asycube with RS communication.



1 Asycube name



Enter a name of the Asycube. This name is used in all HMI displays where this product is involve (e.g. in [Products and options selection menu](#)).



2 Asycube type



Select the Asycube type of your product (Mezzo, Forte, Fortissimo or Largo_A5).



3 Picture of the Asycube



This picture gives a preview of the Asycube type selected.



4 Connection type

Select the connection type of the Asycube selected. Connection type possibilities depend of Asycube type as follow :



Type Asycube	RS485	RS232	Ethernet via converter	Ethernet native
Mezzo	x	x	x	
Forte	x	x	x	
Fortissimo	x	x	x	
Largo_A5				x

5 COM port number

Select COM port to use.



6 Baud rate

Select baud rate to use (standard value is 19200).



7 Address

Enter the address of your Asycube (1 for Largo_A5 and 1 to 8 according with rotativ selector of the Asycube for other types).



8 Display angle

Enter an angle value for the display of Asycube pages.



NOTE:

This parameter is useful to have display of Asycube in HMI in the same position as real Asycube position (e.g. reservoir on left or right).



IMPORTANT!

This value is not intended to have skew values (e.g. 30°, 45°, 78°, etc.). The standard values are 0°, 90°, 180° and 270°.

9 Display scale

Enter a scale value for the display of Asycube pages.



NOTE:

This parameter is useful to rescale displays in case of special angle used (e.g. decrease ratio with 90° or 270°).

10

Apply button



Click on this button to save the configuration of your Asycube. You need then to restart HMI to apply configuration changes.

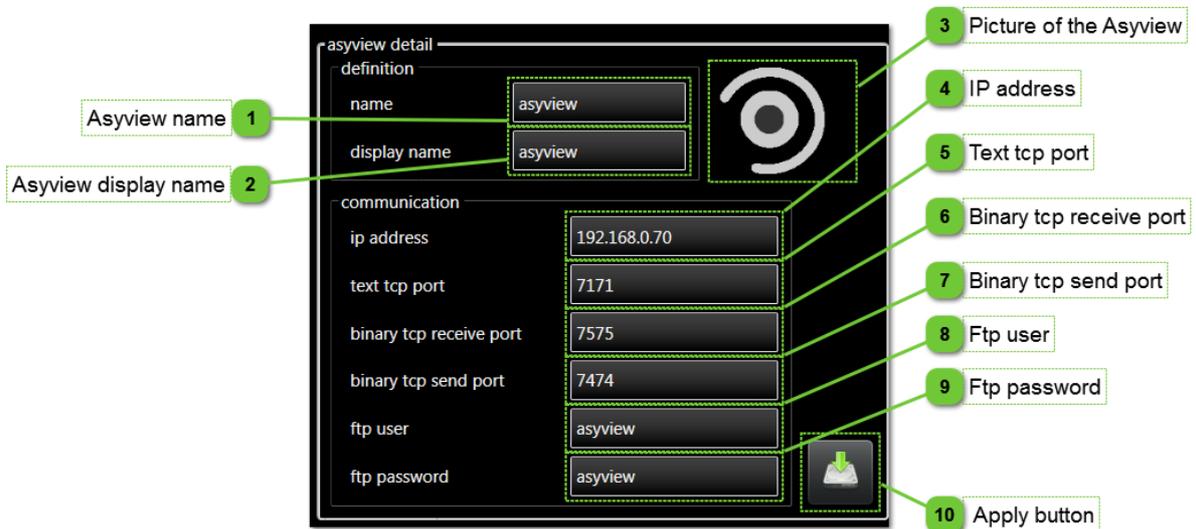


NOTE:

A message in [Information panel](#) inform you to restart the HMI to apply configuration changes.

Asyview configuration

This panel appears when an Asyview is selected in one of the two lists and contains all parameters needed to define an Asyview in the HMI.



1 Asyview name

Enter a name of the Asyview. This name is used for communication.



2 Asyview display name

Enter a display name of the Asyview. This name is used in all HMI displays where this product is involve (e.g. in [Products and options selection menu](#)).



3 Picture of the Asyview



This picture indicates that there are parameters for Asyview.



4 IP address

Enter IP address of your Asycube (default value is 192.168.0.70).



5 Text tcp port

Enter tcp port of the text communication protocol (default value is 7171).



- 6 Binary tcp receive port**

Enter tcp port of the binary protocol receive port (default value is 7575). 
- 7 Binary tcp send port**

Enter tcp port of the binary protocol send port (default value is 7474). 
- 8 Ftp user**

Enter the ftp user to use to connect to the Asyview ftp access. 

 **NOTE:**
Ftp connection is used to transmit recipes.
- 9 Ftp password**

Enter the ftp password to use to connect to the Asyview ftp access. 

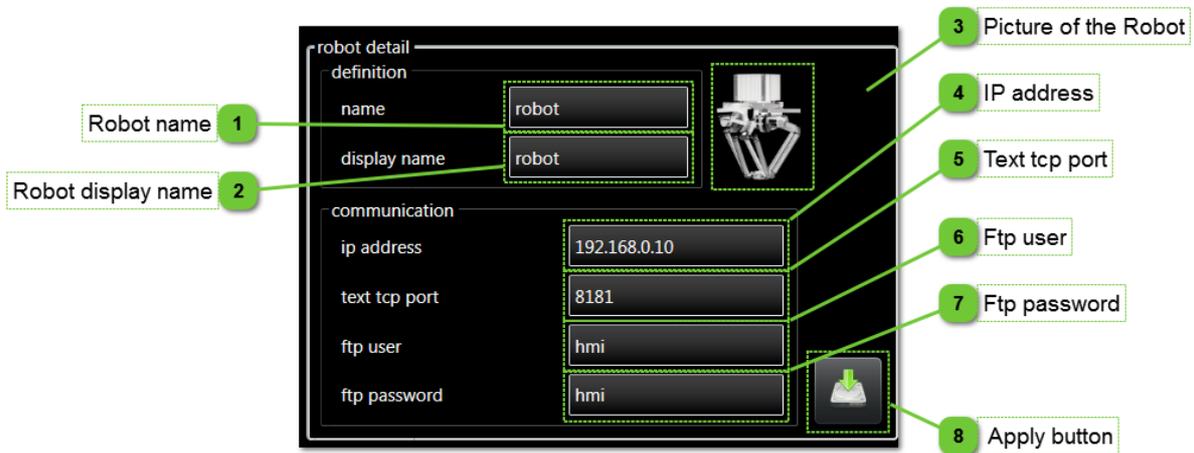
 **NOTE:**
Ftp connection is used to transmit recipes.
- 10 Apply button**

 Click on this button to save the configuration of your Asyview. You need then to restart HMI to apply configuration changes. 

 **NOTE:**
A message in [Information panel](#) inform you to restart the HMI to apply configuration changes.

Robot configuration

This panel appears when a Robot is selected in one of the two lists and contains all parameters needed to define a Robot in the HMI.



1 Robot name

Enter a name of the Robot. This name is used for communication.



2 Robot display name

Enter a display name of the Robot. This name is used in all HMI displays where this product is involve (e.g. in [Products and options selection menu](#)).



3 Picture of the Robot



This picture indicates that there are parameters for Robot.



4 IP address

Enter IP address of your Robot (default value is 192.168.0.10 for Pocket, 192.168.0.20 for Power, 192.168.0.30 for Desktop).



5 Text tcp port

Enter tcp port of the text communication protocol (default value is 8181).



6 Ftp user

Enter the ftp user to use to connect to the Robot ftp access (default value is "hmi").



NOTE:
Ftp connection is used to transmit alarms, frames, points and tools.

7 Ftp password

Enter the ftp password to use to connect to the Robot ftp access (default value is "hmi").



NOTE:
Ftp connection is used to transmit alarms, frames, points and tools.

8 Apply button



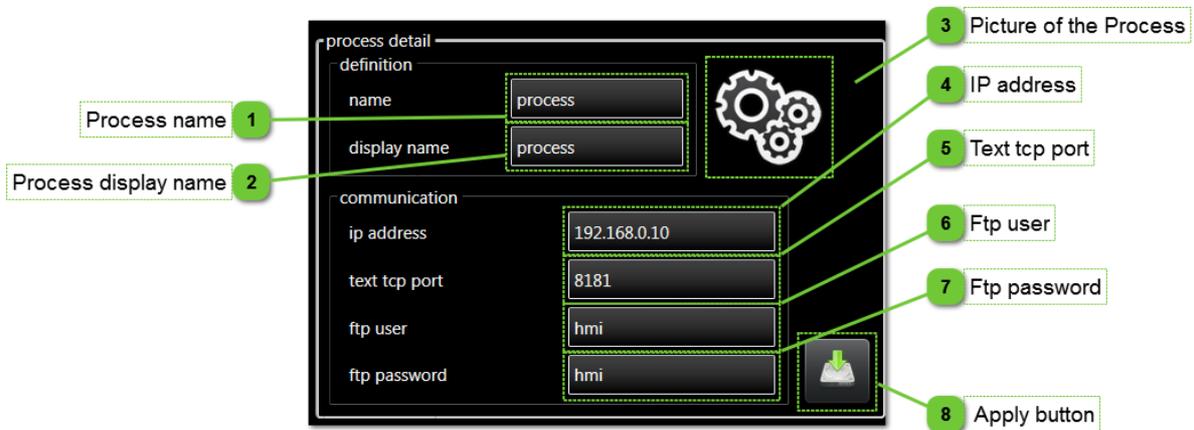
Click on this button to save the configuration of your Robot. You need then to restart HMI to apply configuration changes.



NOTE:
A message in [Information panel](#) inform you to restart the HMI to apply configuration changes.

Process configuration

This panel appears when a Process is selected in one of the two lists and contains all parameters needed to define a Process in the HMI.



1 Process name
Enter a name of the Process. This name is used for communication.



2 Process display name
Enter a display name of the Process. This name is used in all HMI displays where this product is involve (e.g. in [Products and options selection menu](#)).



3 Picture of the Process
This picture indicates that there are parameters for Process.



4 IP address
Enter IP address of your Process (default value is 192.168.0.10 for Pocket, 192.168.0.20 for Power, 192.168.0.30 for Desktop).



5 Text tcp port
Enter tcp port of the text communication protocol (default value is 8181).



6 Ftp user

Enter the ftp user to use to connect to the Process ftp access (default value is "hmi").



NOTE:
Ftp connection is used to transmit recipes.

7 Ftp password

Enter the ftp password to use to connect to the Process ftp access (default value is "hmi").



NOTE:
Ftp connection is used to transmit recipes.

8 Apply button



Click on this button to save the configuration of your Process. You need then to restart HMI to apply configuration changes.



NOTE:
A message in [Information panel](#) inform you to restart the HMI to apply configuration changes.

User management

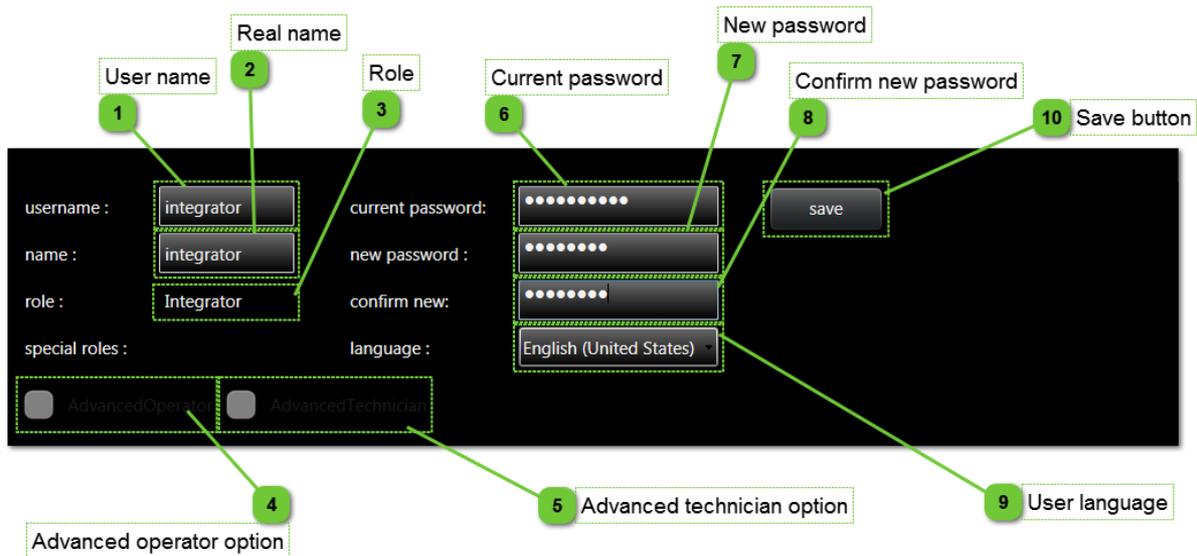
The user management part of HMI allows to create, edit, delete user. Define various type of users with various roles allows to give different access to operators, technician, maintenance technician, programmer, etc.

Default users and passwords are listed below:

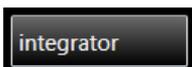
User name	Password	Role
operator	operator	Operator
advoperator	advoperator	Advanced operator
technician	technician	Technician
advtechnician	advtechnician	Advanced technician
integrator	integrator	Integrator
<i>only Asyрил S.A.</i>		<i>Developer</i>

User management : home

The home page of the user management allows to display and edit the logged user data.

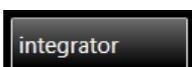


1 User name



The login information actually in use is displayed here.

2 Real name



The name associated with the login informations enables the person logged in to be identified easily.

3 Role

Integrator

The role of the person logged in is displayed here.



NOTE:

For more information about roles and associated access rights, please read the chapter "[roles](#)".

4 Advanced operator option

AdvancedOperator

Checked if the advanced operator role is activated for the logged user.

5 Advanced technician option

AdvancedTechnician

Checked if the advanced technician role is activated for the logged user.

6 Current password

Enter the actual password of logged user.



NOTE:

This field enables password of logged user modification.

7 New password

Enter the new password of logged user.

8 Confirm new password

Confirm the new password of logged user.

9 User language

English (United States) ▾

This dropdown list enables the user language to be chosen.

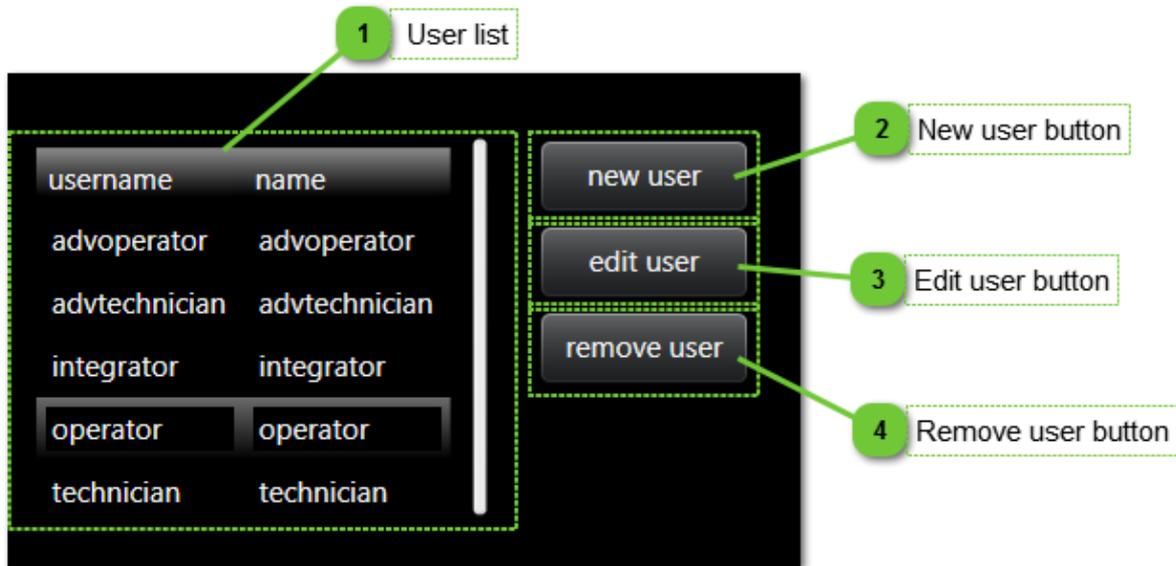
10 Save button

save

Click on this button to save your new password and language modification.

User management : manage users

This page allows to manage users on HMI.

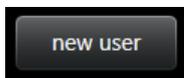


1 User list

username	name
advoperator	advoperator
advtechnician	advtechnician
integrator	integrator
operator	operator
technician	technician

The list of all users declared and their login informations are displayed here.

2 New user button



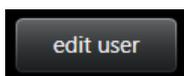
Click on this button to create a new user.



NOTE:

You can only create a user who has a hierarchical role below yours.

3 Edit user button



Click on this button to edit the login information, role or language of a user.

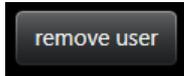


NOTE:

You can only modify the content of users who have a hierarchical role below yours.

4

Remove user button



Click on this button to permanently remove a user selected in the list.

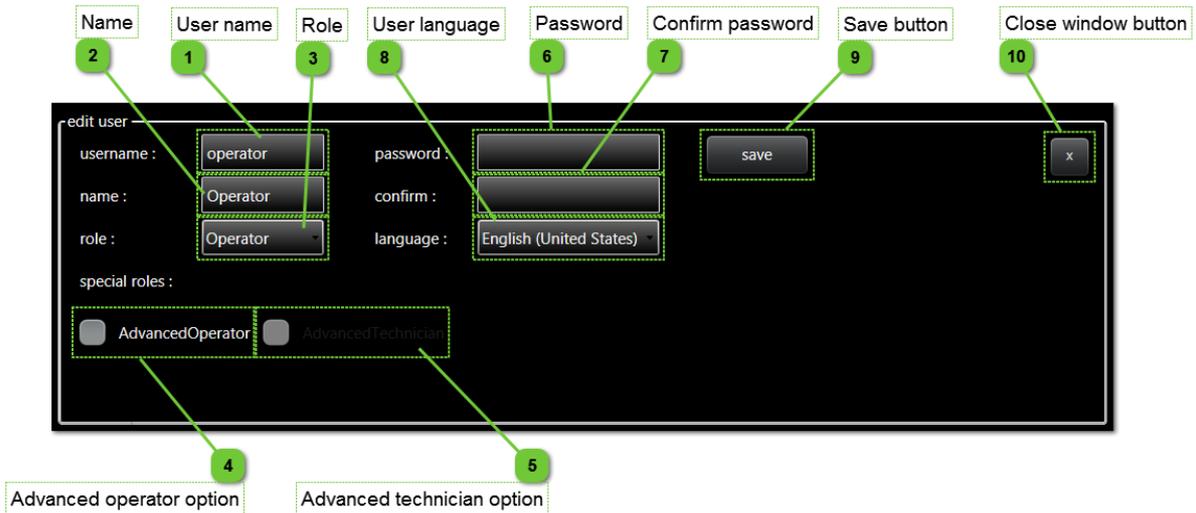


NOTE:

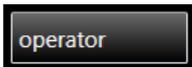
You can only remove a user who has a hierarchical role below yours.

User management : edit panel

This panel appears on the bottom of the page when new user button or edit user button is clicked.

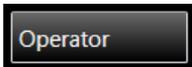


1 User name



Choose or edit the login information for the user you wish to create or edit.

2 Name



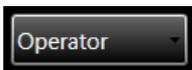
Choose a user name that enables you to easily identify the person logged in.



NOTE:

This "name" is not the login information used by the user, it simply enables the person logged in to be identified.

3 Role



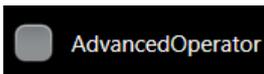
Choose the user's role.



NOTE:

For more information about roles and associated access rights, please read the chapter "[roles](#)".

4 Advanced operator option



Choose advanced operator role.



NOTE:

This special role is enable only if operator role is selected.



NOTE:

For more information about roles and associated access rights, please read the chapter "[roles](#)".

5 Advanced technician option



Choose advanced technician role.



NOTE:
This special role is enable only if technician role is selected.



NOTE:
For more information about roles and associated access rights, please read the chapter "[roles](#)".

6 Password



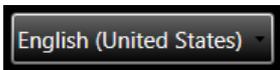
Enter the desired password.

7 Confirm password



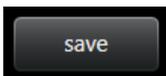
Confirm the desired password.

8 User language



Select the user favorite language.

9 Save button



Click on the "Save" button to apply your modifications.

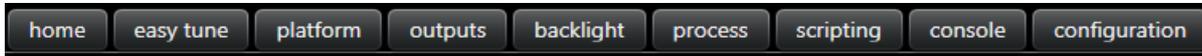
10 Close window button



Close the window without saving.

Asycube

This chapter describes pages related to Asycube.



Pages list

Home.....	49
Easy tune.....	52
Platform.....	56
Outputs.....	61
Reservoir.....	65
Backlight.....	69
Process.....	71
Scripting.....	75
Console.....	79
Configuration.....	81

Controls disable

Some pages, tabs, buttons, textboxes, etc can be disable depending of the following parameters :

- AsyCube connection state (disable when not connected).
- Function is not possible for the moment (another function is processing)
- The level access is not correct to access to the parameter.

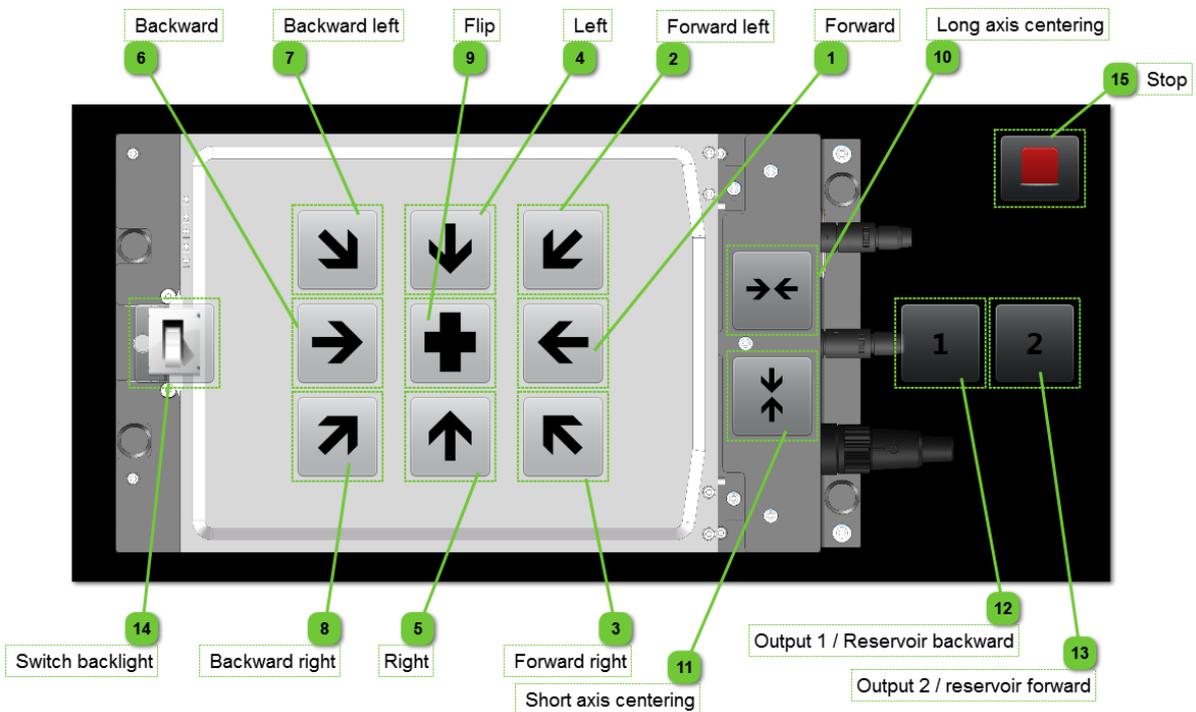
Controls not visible

Some pages, tabs, buttons, textboxes, etc can be not visible depending of the following parameters :

- The AsyCube type does not have this element.
- Option is not valid for your product (for example process tab is valid only with dll or vision system).
- The level access is not correct to access to the parameter.

Home

Home page gives access to all standard functions of Asycube (platform vibrations, reservoir vibrations or outputs activation and backlight activation).

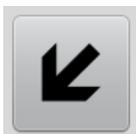


1 Forward



This button activates the platform batch A which has as standard configuration to move parts forward.

2 Forward left



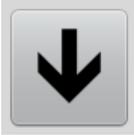
This button activates the platform batch B which has as standard configuration to move parts forward left.

3 Forward right



This button activates the platform batch C which has as standard configuration to move parts forward right.

4 Left



This button activate the platform batch D which has as standard configuration to move parts left.

5 Right



This button activate the platform batch E which has as standard configuration to move parts right.

6 Backward



This button activates the platform batch F which has as standard configuration to move parts backward.

7 Backward left



This button activates the platform batch G which has as standard configuration to move parts backward left.

8 Backward right



This button activates the platform batch H which has as standard configuration to move parts backward right.

9 Flip



This button activates the platform batch I which has as standard configuration to flip parts.

10 Long axis centering



This button activates the platform batch J which has as standard configuration to move parts centered in long axis.



NOTE:

This button is only visible for Asycube Largo_A5. For other Asycube types, batch J is a user custom batch.

11

Short axis centering



This button activates the platform batch K which has as standard configuration to move parts centered in short axis.



NOTE:

This button is only visible for Asycube Largo_A5. For other Asycube types, batch K is a user custom batch.

12

Output 1 / Reservoir backward



For Asycube Largo_A5 :

This button activates the outputs batch A which has as standard configuration to switch on digital output 1.



For other Asycube types :

This button activates the reservoir vibration batch A which has as standard configuration to move parts forward.

13

Output 2 / reservoir forward



For Asycube Largo_A5 :

This button activates the outputs batch B which has as standard configuration to switch on digital output 2.



For other Asycube types :

This button activates the reservoir vibration batch B which has as standard configuration to move parts backward.

14

Switch backlight



This button switches the backlight ON and OFF.



NOTE:

This button is not visible when Asycube has no backlight (configuration in the firmware of the Asycube which can be modified in [Asycube configuration page](#)).

15

Stop



This button stop all vibrations or output activations.



NOTE:

This button doesn't stop the backlight, use the switch backlight button to do that.

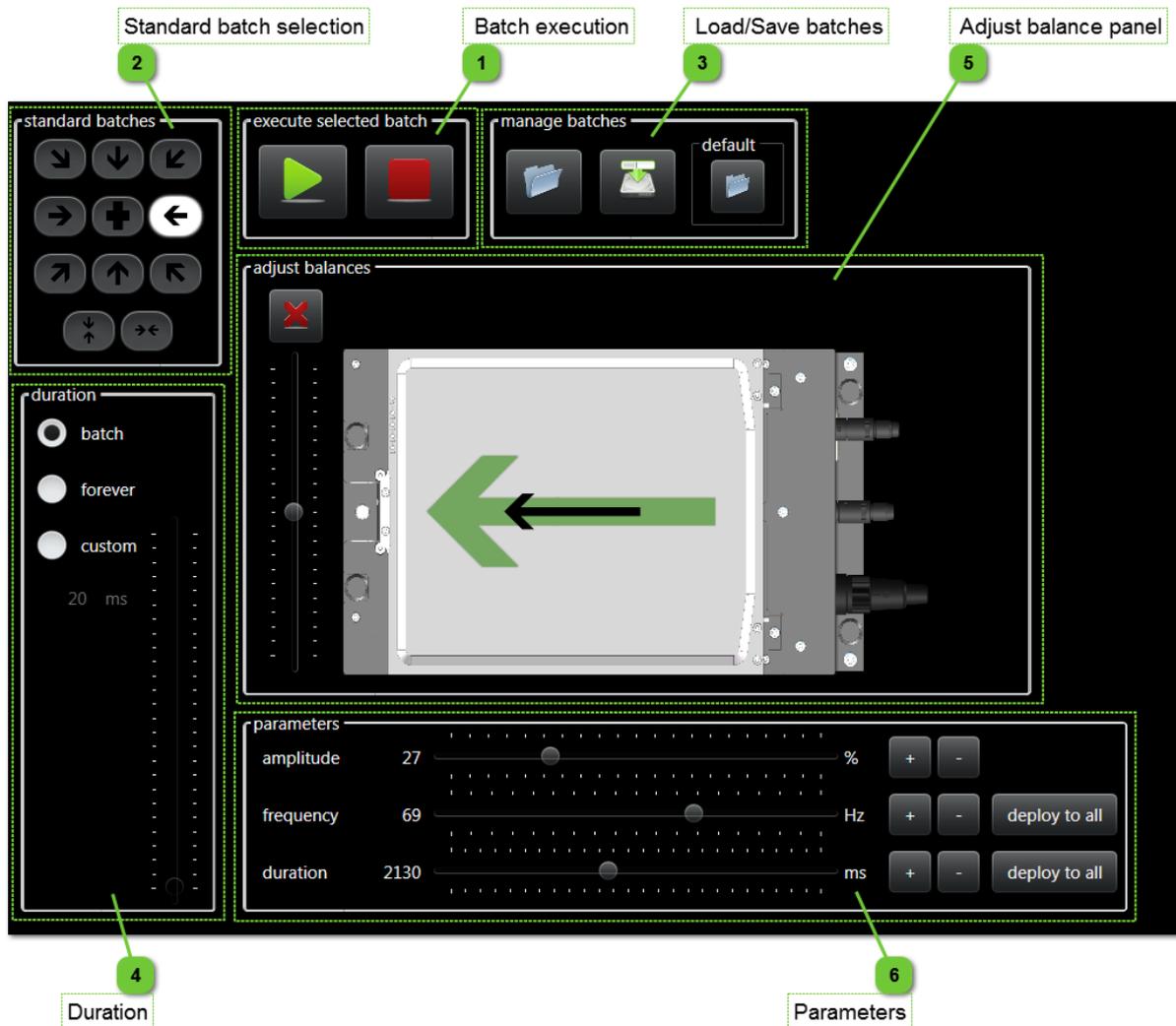
Easy tune

This page allows to modify standard vibration batches by giving access to only needed parameters. Full access to all parameters is possible in [Platform](#) page.



NOTE:

This page is only available for Asycube Largo_A5.

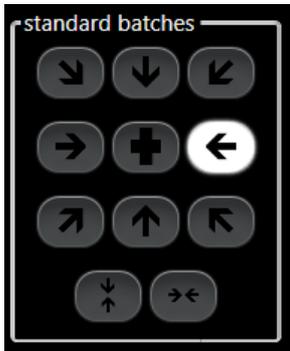


1 Batch execution



This group allows to start and stop the vibration.

2 Standard batch selection



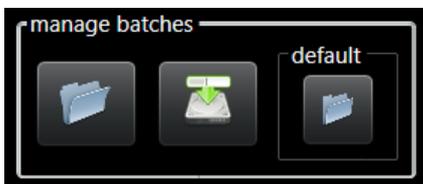
This group gives access to standard batches for "classic" movements. Selecting one of them will display its parameters.



NOTE:

Select a batch in this page select the same batch in Platform page.

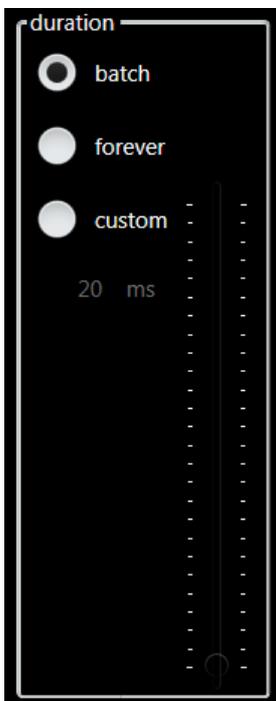
3 Load/Save batches



In this group, you can find all buttons to load and save your batches configurations.

Default file load button allows to load a standard configuration. It can be useful to restart with a standard configuration.

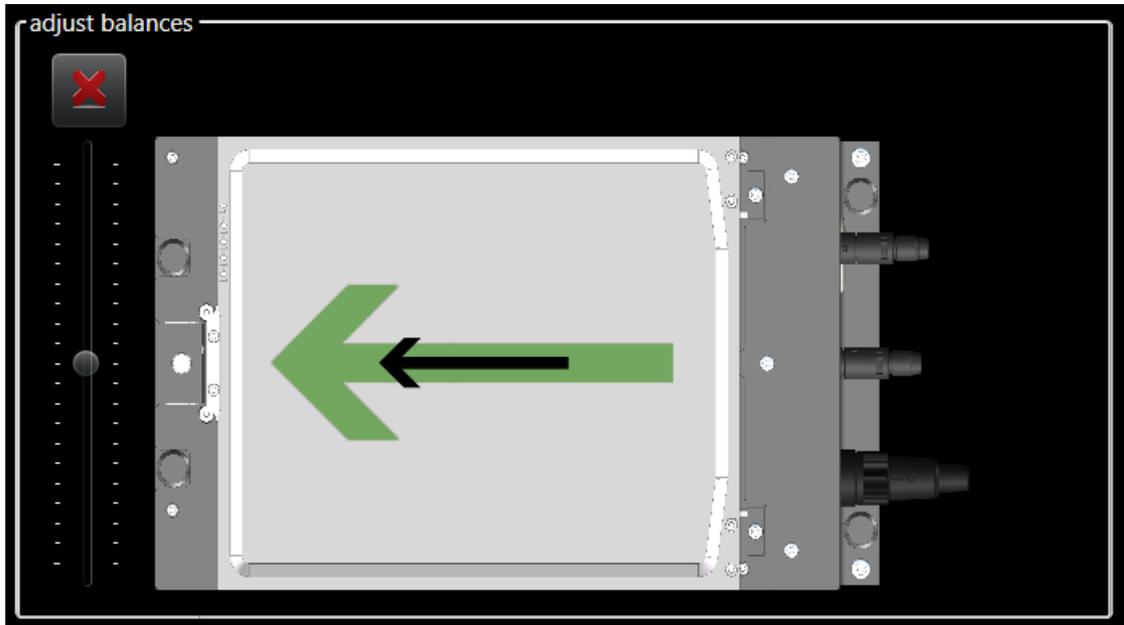
4 Duration



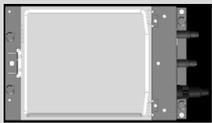
This group allows to choose which duration must be used when activating vibration (by pressing start button) :

- Batch select the batch duration. The vibration executed in the HOME tab correspond to this duration. The value can be changed in [Parameters group](#).
- Custom select a custom duration that can be adjusted by the slider next to the selector (it's usefull if you don't want to modify the batch duration when doing some tests).
- Forever indicates that the vibration will ends only when you will press the stop button (or when actuators will be too hot and system will stop it for security).

5 Adjust balance panel



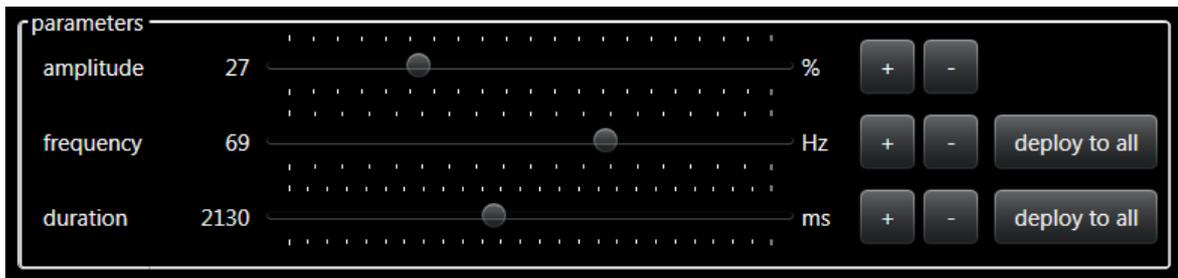
This panel allows to adjust the vibration amplitude balances. In it, there is few controls and graphical elements describe below:

Control	Description
	Background picture indicates the direction of the Asycube.
	Green arrow indicates the theoretical movement of the selected batch. NOTE: <i>This arrow represent the movement that parts must have when parameters are correctly defined.</i>
	Black arrow indicates the programmed movement of the selected batch. The size of the arrow will depend of amplitude defined in Parameters group . NOTE: <i>This arrow don't represent the real movement of parts, but only the programmed movement needed to obtain green arrow movement.</i>
	Clear balances button allows to reset both balances.

	<p>Short side slider allows to adjust amplitude balance Left-Right.</p> <p>NOTE:  <i>The vibration amplitude defined in parameters group will always be set to minimum one actuator. Amplitude of other actuators will be decreased depending of balances.</i></p>
	<p>Long side slider allows to adjust amplitude balance Forward-Backward.</p> <p>NOTE:  <i>The vibration amplitude defined in parameters group will always be set to minimum one actuator. Amplitude of other actuators will be decreased depending of balances.</i></p>

6

Parameters

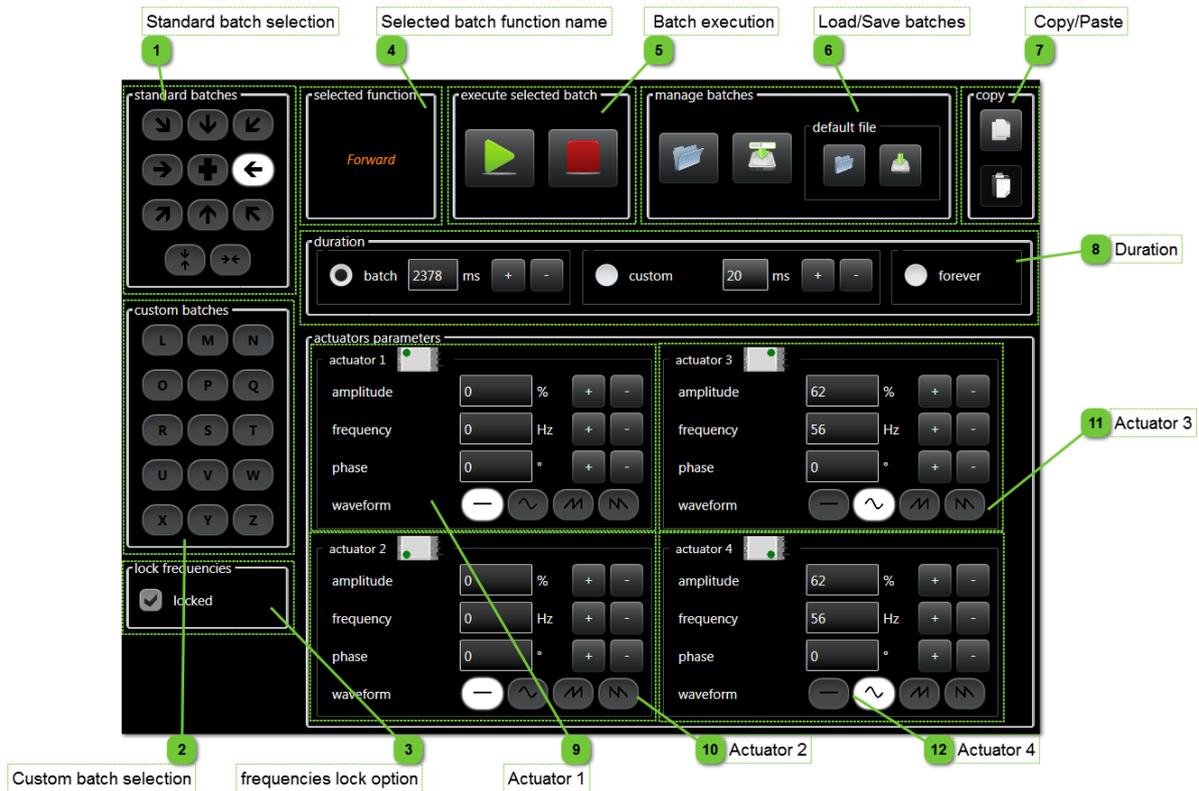


This group allows to modify parameters :

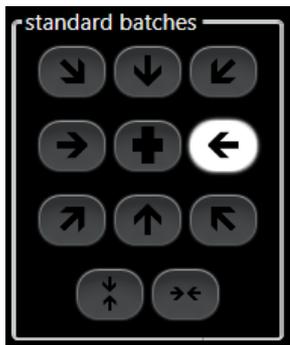
Parameter	Description
amplitude	Amplitude value can be changed by using slider or +/- buttons. The amplitude set will be automatically distributed to actuators depending of movement selected and balances.
frequency	Frequency value can be changed by using slider or +/- buttons. The frequency set will be automatically distributed to actuators depending of movement selected. NOTE:  <i>The frequency is always the same for all actuators. The "deploy to all" button allows to apply the frequency set to all standard batches (except flip movement).</i>
duration	Duration value can be changed by using slider or +/- buttons. NOTE:  <i>The "deploy to all" button allows to apply the duration set to all standard batches (except flip movement).</i> NOTE:  <i>If a longer duration is needed, slide the value to maximum and press the + button. Additional time is added to the maximum value. Slide then in a lower value decrease the maximum value.</i>

Platform

This page provides access to the platform batch parameters. There is 26 batches available, but 9 batches (for AsyCube Mezzo, Forte, Fortissimo) or 11 batches (for AsyCube Largo_A5) have predefined functions. The goal of this page is to adjust batches parameters and to try it using "play" button. In this window, you can also load or save the batches parameters.



1 Standard batch selection



This group gives access to standard batches for "classic" movements. Selecting one of them will display its parameters.

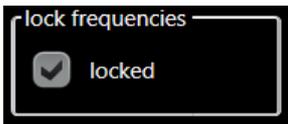
2 Custom batch selection



This group gives access to batches which can be customized for special vibrations. Selecting one of them will display its parameters.



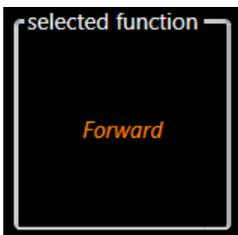
3 frequencies lock option



Select this option will locked frequencies of all actuators. It is usefull to modify all frequencies in the same time for a batch because usually frequencies are the same for all actuators for a specific component.



4 Selected batch function name



This box displays the function name of the selected batch.

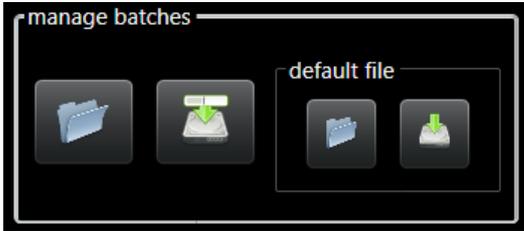


5 Batch execution



This group allows to start and stop the vibration.

6 Load/Save batches



In this group, you can find all buttons to load and save your batches configurations. Default file load and save allow to load or save a standard configuration (load to restart with a standard configuration and save to be able to override the manufacturer standard configuration).



7 Copy/Paste



This group allows to copy a batch and paste it on another. The procedure is the following :



1. Select the batch to copy on Standard or Custom batch selection group
2. Click on copy button
3. Select the batch that you want to replace
4. Click on past button.



IMPORTANT!

All values of the batch will be copied (amplitude, frequency, phase, waveform for all actuators and duration).

8 Duration

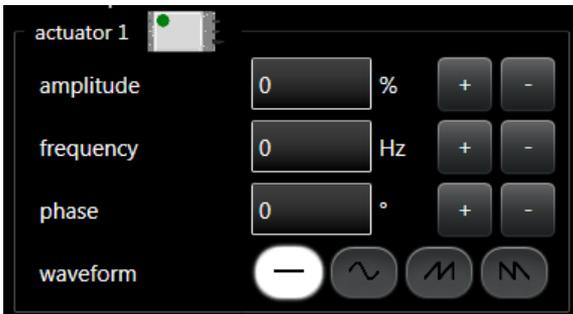


This group allows to choose which duration must be used when activating vibration (by pressing start button) and to modify these values :



- Batch select the batch duration and the value can be adjusted in the field or modified by +/- buttons. The vibration executed in the HOME tab correspond to this duration.
- Custom select a custom duration that can be adjusted in the field or modified by +/- buttons (it's usefull if you don't want to modify the batch duration when doing some tests).
- Forever indicates that the vibration will ends only when you will press the stop button (or when actuators will be to hot and system will stop it for security).

9 Actuator 1



This group allows to parametrize one actuator (the first one in this case). There is one group for each actuator of the Asycube.



Parameter	Description	Level
amplitude	Vibration amplitude of the actuator signal. The range value is from 0% to 100%. Amplitude value can be changed by using +/- buttons by step of 1%. The amplitude set will be automatically distributed to actuator.	
frequency	Vibration frequency of the actuator signal. The range value is from 0Hz to 250Hz. Frequency value can be changed by using +/- buttons. The frequency set will be automatically distributed to actuator. NOTE:  If <i>Lock Frequencies</i> option is selected, the frequency is applied to all actuators.	
phase	Vibration phase of the actuator signal. The range value is from 0° to 359°. Phase value can be changed by using +/- buttons. NOTE:  For <i>Asycube Mezzo, Forte and Fortissimo</i> , the third actuator has no phase parameter, because it's the vertical actuator and disphase this signal make no sens.	
waveform	Vibration signal can have four different waveforms which can be selected with these four buttons. The signals can be (by order of appearance) : None signal, sinus signal, saw tooth up signal and saw tooth down signal. NOTE:  Usual waveform is sinus signal. Waveform is setted to none when no vibration is needed on this actuator.	

The icon represents:

- the position of the actuator for Largo_A5.
- the direction of the actuator for Mezzo, Forte and Fortissimo.

More details :

Icon	Description
	For Largo_A5, the red point indicates the position of the actuator. The actuator vibrates in vertical direction.
	For Mezzo, Forte and Fortissimo, the arrow indicates the direction of horizontal actuators movements with a phase of 0 degrees. With a phase of 180 degrees, the movement is opposite to the arrow direction.
	
	For Mezzo, Forte and Fortissimo, the circles indicate that the direction of the actuator is vertical.

10

Actuator 2

See description of [Actuator 1 group](#)

11

Actuator 3

See description of [Actuator 1 group](#)



NOTE:

This actuator for Asycube Mezzo, Forte and Fortissimo is the vertical one and doesn't need any phase parameter.

12

Actuator 4

See description of [Actuator 1 group](#)



NOTE:

This actuator exists only for Asycube Largo_A5.

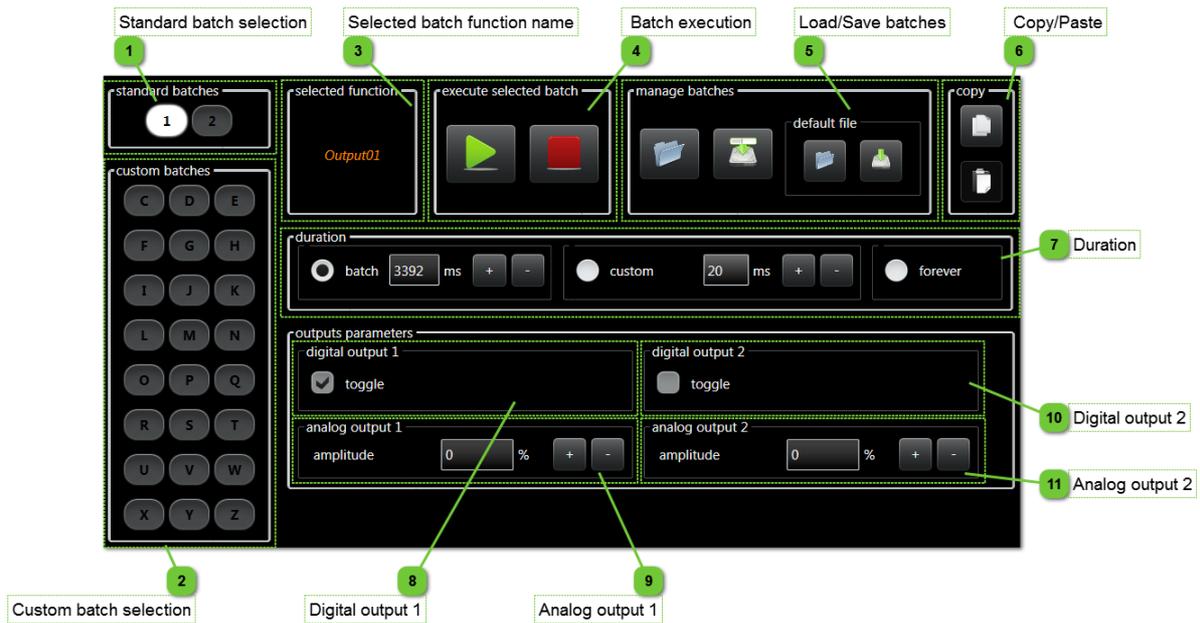
Outputs

This page provides access to the outputs batch parameters. There is 26 batches available, but 2 batches have predefined functions. The goal of this page is to adjust batches parameters and to try it using "play" button. In this window, you can also load or save the batches parameters.



NOTE:

This page is only available for an Asycube Largo_A5.



1 Standard batch selection



This group gives access to standard batches for "classic" outputs activation. Selecting one of them will display its parameters.

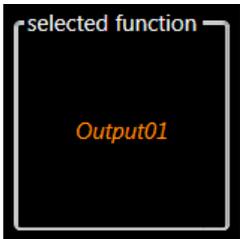
2 Custom batch selection



This group gives access to batches which can be customized for special outputs activation. Selecting one of them will display its parameters.



3 Selected batch function name



This box displays the function name of the selected batch.

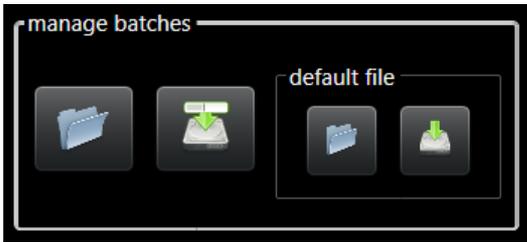


4 Batch execution



This group allows to start and stop the outputs depending of batch parameters.

5 Load/Save batches



In this group, you can find all buttons to load and save your batches configurations. Default file load and save allow to load or save a standard configuration (load to restart with a standard configuration and save to be able to override the manufacturer standard configuration).



6 Copy/Paste



This group allows to copy a batch and paste it on another. The procedure is the following :



1. Select the batch to copy on Standard or Custom batch selection group
2. Click on copy button
3. Select the batch that you want to replace
4. Click on past button.



IMPORTANT!

All values of the batch will be copied (digital output 1, analog output 1, digital output 2, analog output 2 and duration).

7 Duration

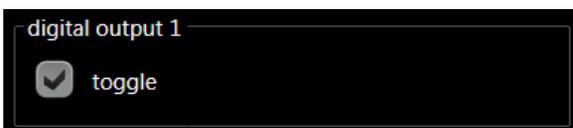


This group allows to choose which duration must be used when activating outputs (by pressing start button) and to modify these values :



- Batch select the batch duration and the value can be adjusted in the field or modified by +/- buttons.
- Custom select a custom duration that can be adjusted in the field or modified by +/- buttons (it's usefull if you don't want to modify the batch duration when doing some tests).
- Forever indicates that the outputs activation will ends only when you will press the stop button.

8 Digital output 1



This parameter allows to parametrize the digital output 1. If this option is selected, the output 1 will switch on when the batch is activated.



9 Analog output 1



Analog output 1 amplitude of the actuator signal. The range value is from 0% to 100% and correspond to 0 to 10V signal. Amplitude value can be changed by using +/- buttons by step of 1%.



10 Digital output 2



This parameter allows to parametrize the digital output 2. If this option is selected, the output 2 will switch on when the batch is activated.



11 Analog output 2



Analog output 2 amplitude of the actuator signal. The range value is from 0% to 100% and correspond to 0 to 10V signal. Amplitude value can be changed by using +/- buttons by step of 1%.



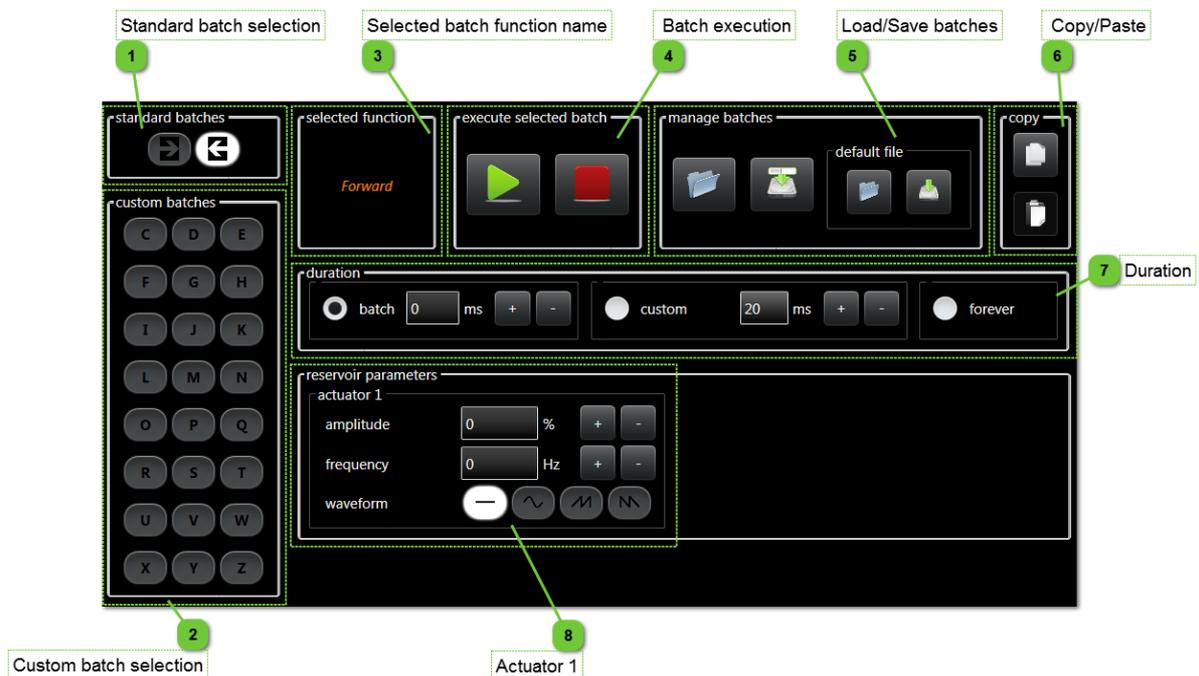
Reservoir

This page provides access to the reservoir batch parameters. There is 26 batches available, but 2 batches have predefined functions. The goal of this page is to adjust batches parameters and to try it using "play" button. In this window, you can also load or save the batches parameters.



NOTE:

This page is only available for an Asycube Mezzo or Forte.



1 Standard batch selection



This group gives access to standard batches for "classic" movements. Selecting one of them will display its parameters.

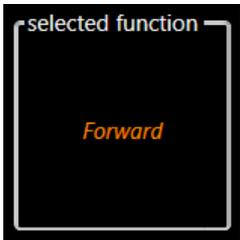
2 Custom batch selection



This group gives access to batches which can be customized for special vibrations. Selecting one of them will display its parameters.



3 Selected batch function name



This box displays the function name of the selected batch.

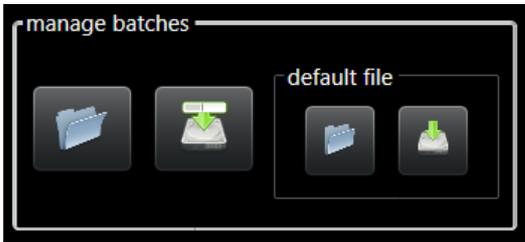


4 Batch execution



This group allows to start and stop the vibration.

5 Load/Save batches



In this group, you can find all buttons to load and save your batches configurations. Default file load and save allow to load or save a standard configuration (load to restart with a standard configuration and save to be able to override the manufacturer standard configuration).



6 Copy/Paste



This group allows to copy a batch and paste it on another. The procedure is the following :

1. Select the batch to copy on Standard or Custom batch selection group
2. Click on copy button
3. Select the batch that you want to replace
4. Click on past button.



IMPORTANT!

All values of the batch will be copied (amplitude, frequency, waveform and duration).

7 Duration

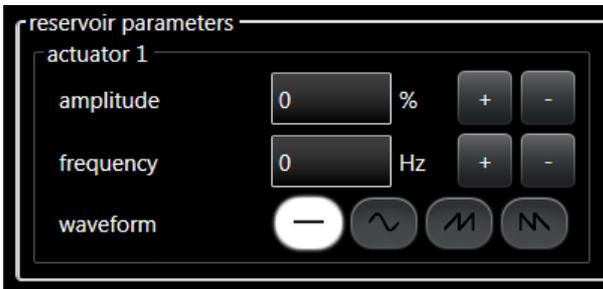


This group allows to choose which duration must be used when activating vibration (by pressing start button) and to modify these values :



- Batch select the batch duration and the value can be adjusted in the field or modified by +/- buttons.
- Custom select a custom duration that can be adjusted in the field or modified by +/- buttons (it's usefull if you don't want to modify the batch duration when doing some tests).
- Forever indicates that the vibration will ends only when you will press the stop button (or when actuator will be to hot and system will stop it for security).

8 Actuator 1



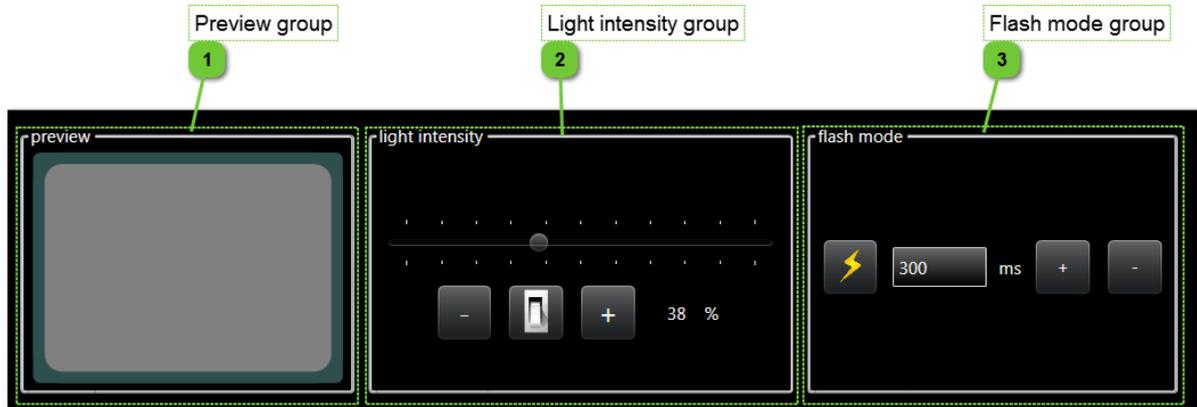
This group allows to parametrize the reservoir actuator.



Parameter	Description	Level
amplitude	Vibration amplitude of the actuator signal. The range value is from 0% to 100%. Amplitude value can be changed by using +/- buttons by step of 1%. The amplitude set will be automatically distributed to actuator.	
frequency	Vibration frequency of the actuator signal. The range value is from 0Hz to 250Hz. Frequency value can be changed by using +/- buttons. The frequency setted will be automatically distributed to actuator.	
waveform	Vibration signal can have four different waveforms which can be selected with these four buttons. The signals can be respecting order : None signal, sinus signal, saw tooth up signal and saw tooth down signal. <div style="display: flex; align-items: center;"> <p>NOTE: Usual waveforms are saw tooth up or down signals. Waveform is set to none when no vibration is needed on this actuator.</p> </div>	

Backlight

This page gives access to the backlight adjustment parameters (intensity and flash time). This page is visible only if Asycube has a backlight defined in the [configuration page](#).



1 Preview group



The preview group contains a display where you can see the effect of the adjustment of backlight parameters.



2 Light intensity group



The light intensity group contains controls to adjust intensity of backlight.

The value can be changed by using slider or +/- buttons.

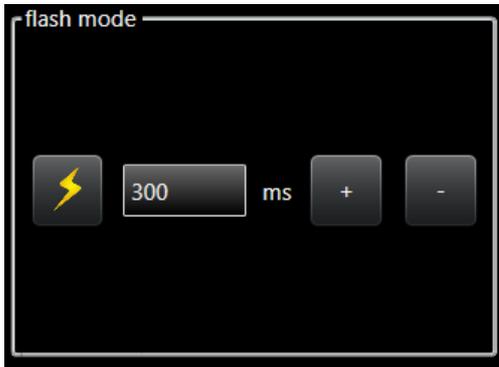
The range value is from 0% to 100% (on Asycube Largo_A5, backlight switches on from 20%).

The switch button allows to test the value set.



3

Flash mode group



The flash mode group contains controls to adjust flash duration of backlight.

Flash duration value can be changed by using +/- buttons.

The range value is from 0 to 10000ms.



Process

This page gives access to the process of the Asycube.

As described in the User Guide of the AsyCube, the process has 3 different parts (feeding, working and recirculation). Each of these parts contains some sequences of vibrations. You can manage these 3 parts and their sequences in this page and test them using the simulation part.



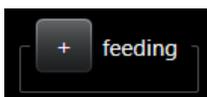
1 Manage process



In this group, you can manage your processes (load, save, default files and advanced mode).

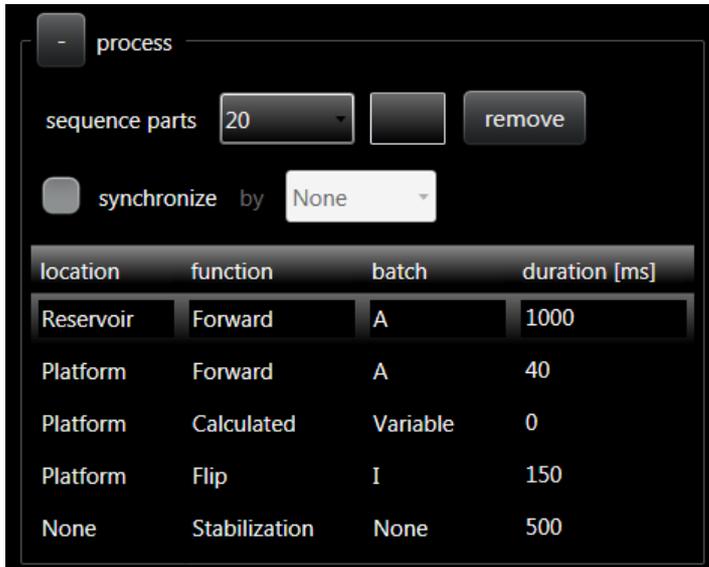
Control	Description
	Load button allows to load a *.fproc file.
	Save button allows to save actual process to a *.fproc file.
<input checked="" type="checkbox"/> advanced mode	Advanced mode allows to edit the feeding part of the process and the recirculation part. See User Guide for more explanations.
load default process planar	Load default planar process button allow to load a standard process for a planar plate.
load default process structured	Load default structured process button allow to load a standard process for a structured plate.
save default process planar	Save default planar process button allow to save the actual process as a standard process for a planar plate.
save default process structured	Save default structured process button allow to save the actual process as a standard process for a structured plate.

2 Feeding



This section of the process configuration is used to modify the feeding sequences. See User Guide for more explanations.

3 Working



This section of the process configuration is used to modify the working sequences. See User Guide for more explanations.

Control	Description
sequence parts	Select the sequence by its number of parts (new value allows to add a new sequence). The textbox allows to enter the parts number for the new sequence or to edit the number of parts of the selected sequence. The remove button allows to remove the selected sequence, this button becomes edit button to modify number of parts of selected sequence and add button to add new sequence.
synchronize by	Synchronize option activates the synchronization between reservoir and platform sequences.
table of vibrations	The vibrations in the table can be modified by double clicking on the parameter. By a right click on a vibration, remove, add, move and delete vibration can be executed.



NOTE:

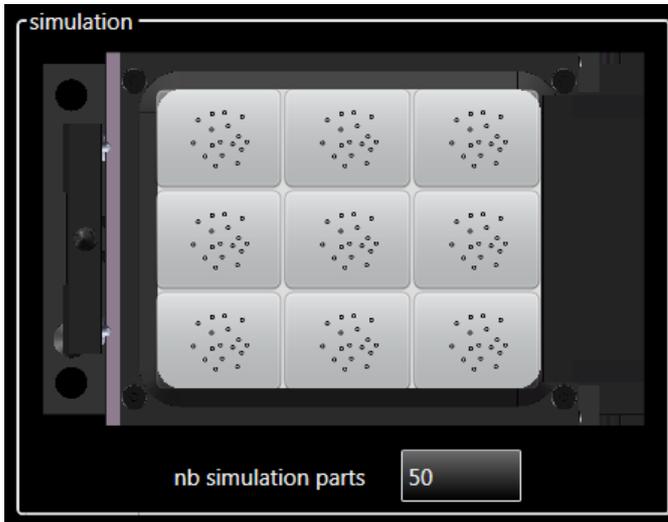
The feeding and the recirculation section on the process can be modified by the same way than the working section.

4 Recirculation



This section of the process configuration is used to modify the recirculation sequences. See User Guide for more explanations.

5 Simulation



In this group, you can find a process simulator :

Press one of the nine buttons to give the positions of simulated parts to the process. Then the process is executed.

The number of parts is used to test the different sequences of the process.

Scripting

This page gives access to the scripting test tool. This tool allows to program little sequences of vibrations and/or output activation and /or backlight activation/deactivation.



NOTE:

All this page can be used only with Advanced Technician or Integrator level access.

Common terms:

Term	Description
add	Add a new script line signifies that the line is stacked at the end of the script.
insert before/ after	Insert a script line before or after the selected line.
replace	Replace a script line will remove the selected script line and place a new one in the same place.

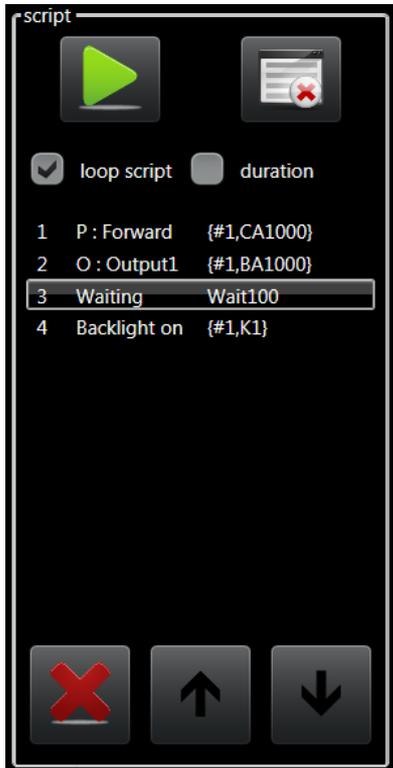


1 save as bouton



This group allows to manage (load and save) your scripts files (*.asc).

2 Script group

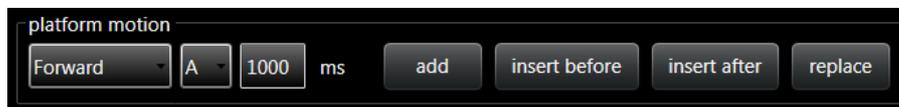


This group allows to execute the script with many options, to display the script and to edit the content of the script.

Control	Description
	Play button allows to start the script.
	Clear button allows to clear the complete script.
<input checked="" type="checkbox"/> loop script	Loop script option allows to execute the script in loop.
<input type="checkbox"/> duration	When loop script is selected, the duration option can be activated. If not, the duration is unlimited. Stop button (instead of start button) allows to stop the script.
<input checked="" type="checkbox"/> duration <input type="text" value="0"/> min	When loop script and duration options are selected, the duration value can be entered in this field.
<pre> 1 P : Forward {#1,CA1000} 2 O : Output1 {#1,BA1000} 3 Waiting Wait100 4 Backlight on {#1,K1} </pre>	The script contains three columns: <ul style="list-style-type: none"> • The first one is the line number. • The second one is the explanation of the function. • The third one is the command to send to the Asycube.

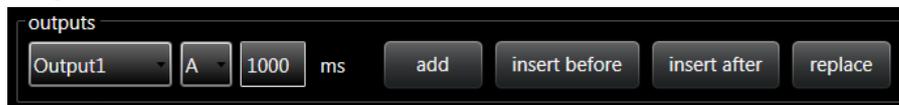
	<p>This button allows to delete the selected script line.</p>
	<p>This button allows to move the selected line up.</p>
	<p>This button allows to move the selected line down.</p>

3 Platform motion



This group allows to add or insert a platform vibration motion, or replace the selected line with the platform motion.

4 Outputs activation



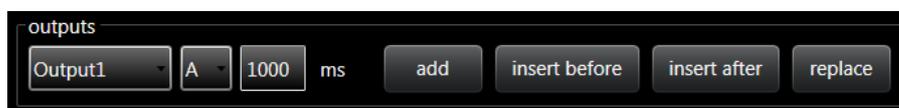
This group allows to add or insert an output activation, or replace the selected line with the output activation.



NOTE:

This group is visible only with Asycube Largo_A5.

5 Reservoir motion



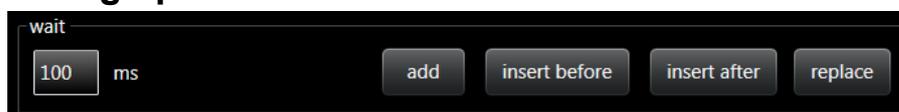
This group allows to add or insert a reservoir vibration motion, or replace the selected line with the reservoir motion.



NOTE:

This group is visible only with Asycube Mezzo, Forte and Fortissimo.

6 Waiting option



This group allows to add or insert a waiting time, or replace the selected line with the waiting time.

7

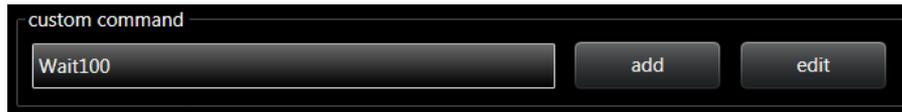
Backlight option



This group allows to add or insert a backlight activation/deactivation, or replace the selected line with the backlight activation/deactivation.

8

Custom command



This group allows to add a custom command, or edit the selected script line.

Console

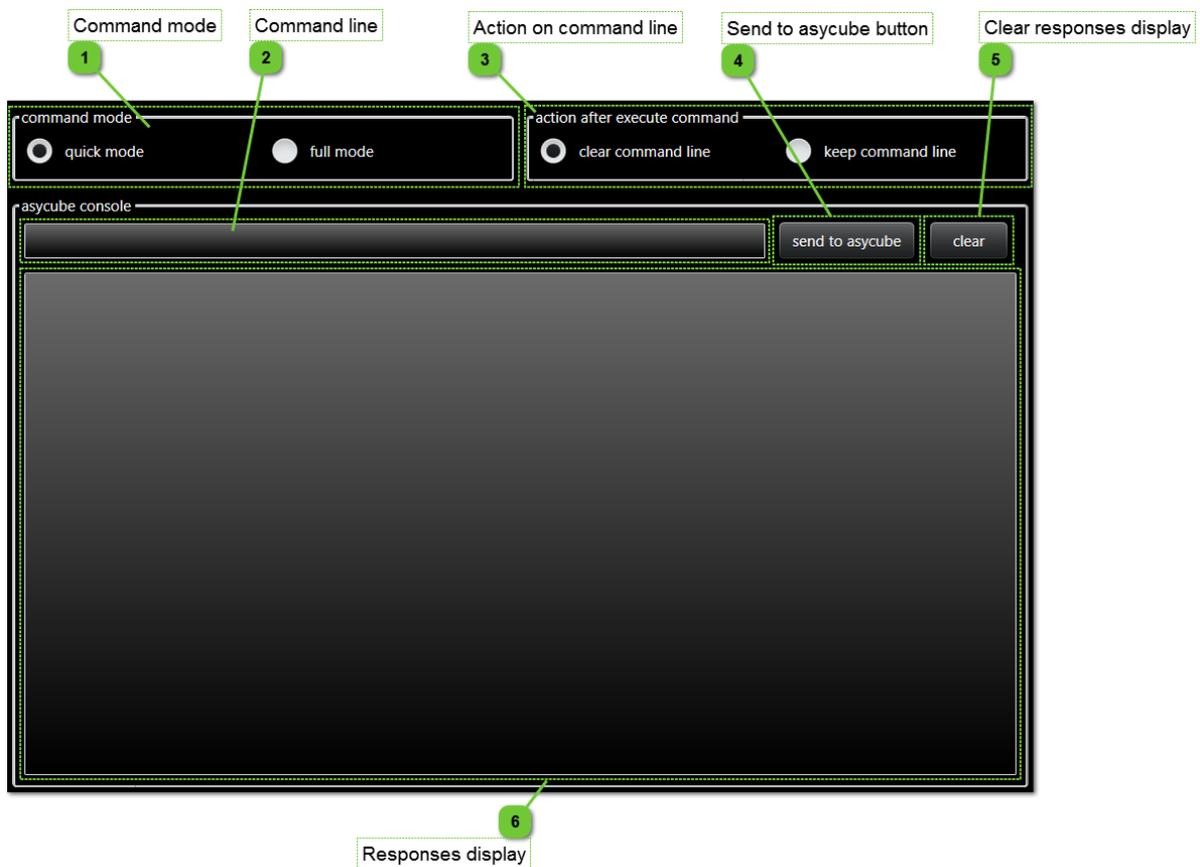
This page gives access to the console mode. In this page, you can execute commands manually.



NOTE:
All this page can be used only with Integrator level access.



NOTE:
The commands are described in the User Guide of the each product.



1 Command mode



This group allows to select the command mode :

Mode	Description
quick mode	In this mode, user has to enter only the specific command (e.g. CA1000, RP300).
full mode	In this mode, user has to enter the complete command (e.g. {#01,CA1000}, {#01,RP300}).

2 Command line



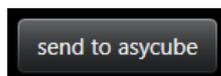
Enter the command in this text box.
Executed commands can be bring back using arrow keys.

3 Action on command line



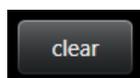
This group allows to select if command must be kept in the command line after execution. This option is usefull to execute several times the same command.

4 Send to asycube button



This button allows to execute the command.

5 Clear responses display



This group allows to clear the responses display.

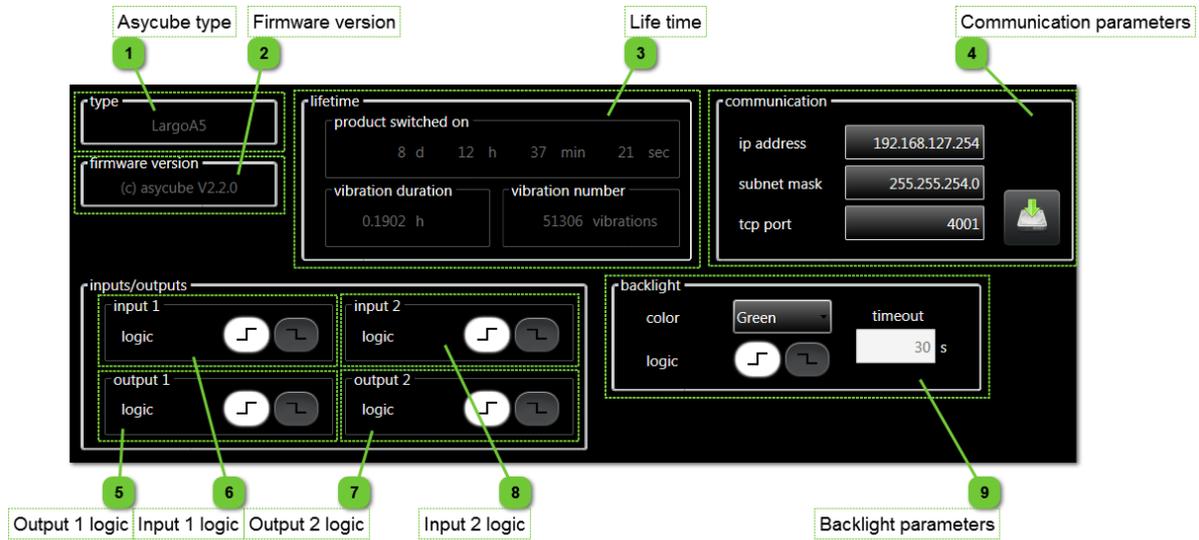
6 Responses display



This group displays the responses to the previous commands.

Configuration

This page gives access to the configuration of the Asycube. All these parameters are saved in the Asycube Firmware but in none of the configuration file on your computer.



1 Asycube type



In this group, you can find the type of Asycube. The value is read in the Asycube firmware.

2 Firmware version



In this group, you can find the firmware version.

3 Life time

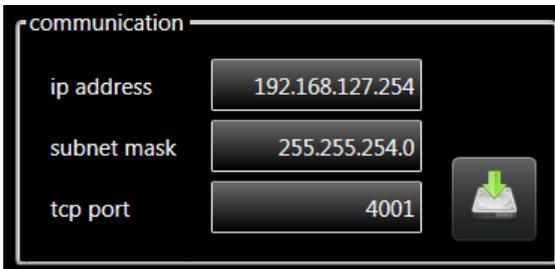


In this group, you can find some informations about life time of Asycube.

Info	Description
product switched on	Indicates the time of activity of the Asycube (power on time).
vibration duration	Indicates the total vibration time of the Asycube platform.  NOTE: <i>This value is visible only for Asycube Largo_A5.</i>
vibration number	Indicates the total number of vibration executed on the Asycube platform.  NOTE: <i>This value is visible only for Asycube Largo_A5.</i>

4

Communication parameters



In this group, you can change IP address, subnet mask and tcpport of Asycube electronic. Click on the button to apply the modifications.



NOTE:

This parameter is visible only for Asycube Largo_A5.

If Asycube is not in default parameters mode (switch 1 in OFF position) : the parameters are applied in the firmware, the HMI will reconnect automatically and the configuration of HMI is modified. The ethernet interface of the computer is not modified. Do it manually if needed (if the new subnet is different than actual one).



If Asycube is in default parameters mode (switch 1 in ON position) : the parameters are applied in the firmware but the HMI keep connected on default parameters and the configuration of HMI is not modified. The ethernet interface configuration of the computer is not modified. When you will restart the Asycube not in default parameters mode (switch 1 in OFF position), you will have to configure the HMI and if needed to modify the ethernet interface configuration of the computer.

See more explanations in Operating Manual of the Asycube.

5

Output 1 logic



In this group, you can select the logic of the digital output 1.



Icon	Description
	Logic positive, the output change from 0V to 24V when activated.
	Logic negative, the output change from 24V to 0V when activated.



NOTE:

This parameter is visible only for Asycube Largo_A5.

6 Input 1 logic



In this group, you can select the logic of the digital input 1. This parameter is visible only for Asycube Largo_A5.



Icon	Description
	Logic positive, the input change from 0V to 24V has to be detected.
	Logic negative, the input change from 24V to 0V has to be detected.

When a signal on this input is detected, a message is displayed on the alarm screen.



NOTE:
This parameter is visible only for Asycube Largo_A5.

7 Output 2 logic



In this group, you can select the logic of the digital output 2. This parameter is visible only for Asycube Largo_A5.



Icon	Description
	Logic positive, the output change from 0V to 24V when activated.
	Logic negative, the output change from 24V to 0V when activated.



NOTE:
This parameter is visible only for Asycube Largo_A5.

8 Input 2 logic



In this group, you can select the logic of the digital input 2. This parameter is visible only for Asycube Largo_A5.



Icon	Description
	Logic positive, the input change from 0V to 24V has to be detected.
	Logic negative, the input change from 24V to 0V has to be detected.

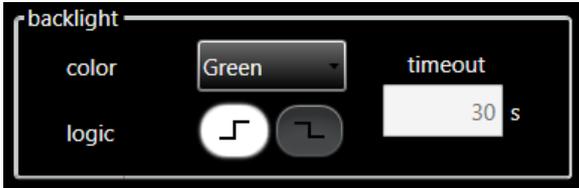
When a signal on this input is detected, a message is displayed on the alarm screen.



NOTE:

This parameter is visible only for Asycube Largo_A5.

9 Backlight parameters



In this group, you can change parameters for backlight.



Parameter	Description
color	<p>Change this parameter allows to save in the firmware the backlight color used in the Asycube. This value is used to auto adapt HMI display.</p> <p>i NOTE: <i>If none color is selected, switch buttons in many pages and backlight page disappears.</i></p>
logic	<p>This parameter allows to select the logic of the backlight synchronization input.</p> <p>i NOTE: <i>Positive : 24V on input switch on the backlight. Negative : 0V on input switch on the backlight.</i></p>
timeout	<p>This value is the timeout of the backlight. After this duration with backlight at 100%, the backlight switch automatically off. With backlight at 50%, the timeout is the double of the parameter value.</p> <p>IMPORTANT! <i>The timeout of the backlight is used to protect the backlight against the overheating. If the timeout is reached, don't restart it directly, let the system cool down.</i></p> <p> <i>The system is not intended to be switched on permanently. Switch on the backlight on only when picture is needed and switch it off directly when picture is acquired.</i> <i>This protection is disable (timeout set to 0) for Largo_A5 because its backlight cannot be damaged in case of backlight switched on permanently.</i></p> <p>i NOTE: <i>This parameter is only indicative and can only be modified by Asyri.</i></p>

Troubleshooting

Ref.	Problem	Solution
1	<i>HMI crashes on starting</i>	Try to start HMI with administrator access (right-click on shortcut, Properties/Compatibility, select "Run this program as an administrator").
2	<i>HMI starts but no button are displayed</i>	The SurfaceToolKit is missing or improperly installed.

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Technical support	Document version : v1.0	

Technical support

For a better service...

Before contacting us, please note down the following information concerning your product:

- Serial number and product key for your equipment
- Software version(s) used
- Error message, alarm, or visual signals displayed by the interface.

Contact

You can find extensive information on our website: www.asyril.ch

You can also contact our Customer Service department:

support@asyril.ch
+41 26 653 7190

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