

London, July 2020

bCUBE 2.0 Quick Start Guide

Hyris Platform guide

Version 1.2.7



Hyris Ltd

Hyris Headquarters Lower Ground Floor, One George Yard, EC3V 9DF, London UK Phone: +44. 2039361227 Mail: office.uk@hyris.net

Hyris Research Center Corso Garibaldi, 60 20121 Milano, Italy Phone: +39. 02.82951302 Mail: office@hyris.net

Hyris Asia Pa: 38 Ang Mo Kio Industrial Park 2 #02-07A 569511 Singapore Phone: +65. 81607207 Mail: office.uk@hyris.net

US West Coast Sales Inquiries Los Gatos Mail: office.us@hyris.net

www.hyris.net





Copyright ©2020 Hyris Ltd. All rights reserved.

Reproduction of this document, either in printed or electronics form, is prohibited without the permission of Hyris Ltd.

Information in this document is subject to change without notice. Hyris Ltd assumes no responsibility for any incorrect information that may appear in this document.

Notice:

Hyris Ltd disclaims all warranties with respect to this document, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose. In no event shall Hyris Ltd be liable, whether in contract, tort, warranty, or under any statute or on any other basis for special, incidental, indirect, punitive, multiple or consequential damages in connection with or arising from this document, including but not limited to the use thereof.

Trademarks:

bCUBE and bDATA are registered trademarks of Hyris Ltd.

Microsoft[®] and Windows[®] are registered trademarks of Microsoft Corporation. FAM[™], HEX[™] and ROX[™] are a trademark of Thermo Fisher Scientific or its subsidiaries in the U.S. and certain other countries.

Technical Support Contacts: Hyris Ltd – Italian Branch Corso Garibaldi 60, 20121 Milano (MI) – ITALY Phone: +39 02 82951302 Mail: support@hyris.net Website: https://www.hyris.net/



Index

Hyris bCUBE 2.0	4
Box Opening	4
Device Overview	5
Status LEDs	6
First set up	8
PC settings	8
bCUBE 2.0 Connection	8
Interacting bCUBE 2.0: bAPP and bPANEL	10
bAPP interface	10
Access the bAPP	10
Create a New Analysis: general information	11
Create a new analysis: the cartridge	13
Analysis details	15
bPANEL 2.0 interface	18
Installation	18
Main view	18
Settings: Log in/Sync and bCUBE 2.0 connection	19
New analysis creation	20
Run the analysis	21
Old analyses view	21
Flow Chart	23
Appendix-1: Set bCUBE 2.0 Wi-Fi from bCUBEs menu	24
Appendix-2: Custom Recipe	25
Appendix-3: Cartridge Preparation	26
Load samples	26
Load/Unload the cartridge to/from bCUBE 2.0	26



Hyris bCUBE 2.0

Box Opening

The following items will be found in the provided box:

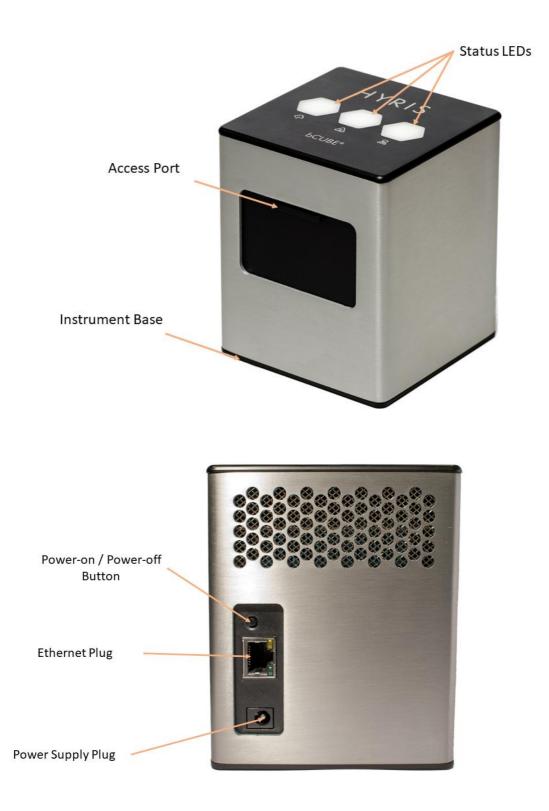
- o **bCUBE 2.0** (Figure 1a)
- Ethernet cable (Figure 1b)
- Power Supply including European and North American power cords (Figure 1c). Characteristics:
 - Input: 100 ~ 240 V c.a. 1.4A 50/60Hz
 - Output: 12V DC 5A
 - **Power**: 60W
- **USB** stick with Hyris bPANEL software installer and User Manuals (Figure 1d)



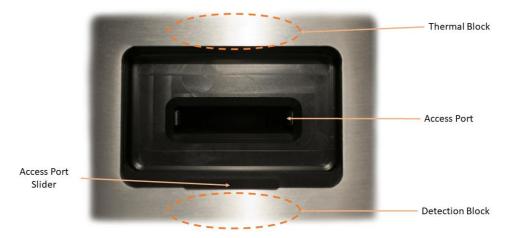
Note: Please check the presence of all these items. Remove the items carefully from the shipping box and inspect them for any external damage. If any of the parts is missing or damaged, contact the manufacturer prior to installation.



Device Overview







Description of the features highlighted in the pictures above:

- Access Port Slider: opened to insert/remove the cartridge inside bCUBE 2.0. To be kept closed during operations.
- Access port: insert the cartridge here. Always push the cartridge up to the end of the port.
- **Thermal Block:** precisely controls the temperature of the cartridge and contained samples. Heating/Cooling is obtained with a Peltier element.
- Detection block: features high brightness LEDs with dichroic filters for fluorophores excitation. Detection is obtained thanks to a CMOS sensor with dichroic filters matched to fluorophores emission wavelengths.
- **Top venting holes:** allows air exchange between the inside of the **Instrument** and the ambient
- Power supply Plug: insert here the 12 VDC adapter jack
- **Power-on/Power-off button:** press shortly to wake up the instrument from Stand-By. When the machine is running, long press (about 5 seconds) to safely power down the bCUBE
- Ethernet Plug: insert here the Ethernet cable for Windows PC / Network communication
- Status LEDs: Give information about the status of the instrument

Status LEDs

The status of the bCUBE and its functioning are communicated to the user by the different colour combinations of the status LEDs on the top of the device.

• **bDATA LED**: corresponding to the symbol, it indicates the connection status to Hyris server.

Ready colour: green

When Ready colour is on, bCUBE 2.0 is connected to bDATA

Thermal LED: corresponding to the symbol, it indicates if the cartridge is hot or not.
 Ready colour: orange

When Ready colour is on, the internal temperature of the bCUBE 2.0 is not hot. If

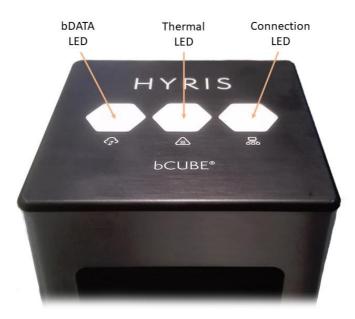


cartridge is inserted, it can be safely handled

• **Connection LED**: corresponding to the B symbol, it indicates the internet connection state of the bCUBE 2.0

Ready colour: blue

When ready colour is on, bCUBE 2.0 is connected to a network



For a graphical representation, the symbol (from left to right: bDATA, Thermal and Connection LEDs) will be displayed in this document when colour code explanation is required.

Some examples are reported in the following table:

LEDs Colours	DESCRIPTION	INTERPRETATION
	 bDATA LED steady green Thermal LED steady orange: Connection LED steady blue: 	 bDATA connection OK Cartridge not hot Network connection OK
	 bDATA LED steady green Thermal LED blinking orange and red Connection LED steady blue 	 bDATA connection OK WARNING: Cartridge hot Network connection OK
	 bDATA LED blinking green and yellow Thermal LED steady orange 	 Missing bDATA connection Cartridge not hot Missing network connection



	 Connection LED blinking 	
	red and yellow	
	 bDATA LED blinking green 	 Missing bDATA
	and yellow	connection
	- Thermal LED steady	 Cartridge not hot
	orange	- Network connection
	- Connection LED steady	OK. bCUBE 2.0 can be
	blue	used locally
	- bDATA LED multicolour	
	- Thermal LED multicolour	- Experiment is running
***	- Connection LED	on bCUBE 2.0
	multicolour	
	- bDATA LED off	
	- Thermal LED off	- bCUBE 2.0 off
	- Connection LED off	

Note: not all the Status LEDs colour combinations are shown. For further information, please read the Owner's Manual.

First set up

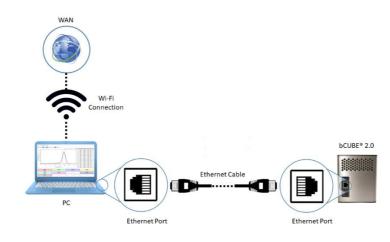
PC settings

PC has to be connected to a stable internet connection.

bCUBE 2.0 Connection

In order to properly work, the following steps have to be respected:

- 1. Make sure the bCUBE 2.0 is set on a flat and stable surface
- 2. Make sure to have correctly provided the condition explained in the PC Set-up section
- 3. Connect one end of the Ethernet cable to the bCUBE 2.0 and the other to the PC according the following configuration





- 4. Power on the PC. Wait until PC is ready
- 5. Connect the PC to internet. Make sure internet connection is stable
- 6. Power on the bCUBE 2.0. Status LEDs colours: 💛 💛 💛
- 7. bCUBE will start booting. Status LEDs colours: 🗸 🗸 🥠
- Wait until Connection Status LED colour is steady blue:
 or
 <lior
 or
 <lior
 or
- 9. Access the bAPP (see the <u>Access the bAPP</u> section) and go to the **bCUBEs** section. Select the desired bCUBE by checking the Serial number of the machine (see the Owner's manual). The "Connected" flag should be a green icon, indicating that the bCUBE is connected to a network. An action menu should be show

1 item selected. CLEAR	A,	C	÷	•	0	Ŧ	

10. Click in the solution to access the "Local settings page", then go to the "Network" section. Select one of the "Available WIFI Networks" and enter the related password, then click on

^{OK} . See the Owner's manual to perform **WPS** connection to the router or to manually add a network. The saved Wi-Fi should immediately appear in the "**Saved WIFI Networks**" column.

Network Status	Saved WiFi Networks		Available WiFi Networks
Current network WiFi[Example - Wifi]	🔶 Example - Wifi	Î	🔶 Example - Wifi - 3 +
IP address XXX.XXX.XXX.XXX	ᅙ Example - Wifi - 2	Ĩ	奈 Example - Wifi - 4 +
Hostname XX-XXXXXXXXXXXX			ᅙ Example - Wifi - 5 +
			ᅙ Example - Wifi - 6 +
			ADD MANUALLY WPS

11. When all the desired Wi-Fi networks are saved, go back to the bAPP and unplug the Ethernet cable from the bCUBE. After some seconds, the Status LEDs should show the Hyris Ready colours
If not, check the troubleshooting section on the Owner's manual.

Note: Status LEDs may display different colours while bCUBE 2.0 is looking for network connection. If no connection is detected, the following LEDs colours may be displayed after a minute of waiting time: ✓ ✓ ✓. If the problem persists, see the Owner's Manual.



Interacting bCUBE 2.0: bAPP and bPANEL

bCUBE 2.0 can be controlled and monitored with two Hyris tools: bAPP and bPANEL.

- bAPP: it's a web app software and there's no need to install it on the PC. Ready-to-use recipes or custom recipes (see dedicated section) can be used to create and run analyses on the available devices according to the account permissions. Account and devices management are possible by this application. It can be run on PC or Smartphone. Internet connection is mandatory.
- bPANEL: this software interface is designed for offline usage of the bCUBE device, while also providing internet data sharing when connection is available. bPANEL 2.0 can start new analyses by using the already existing recipes (created on bAPP).

bAPP interface

Access the bAPP

 Make sure to have properly followed the instruction described in the <u>bCUBE 2.0 Connection</u> section.

If bCUBE 2.0 is ready for operations, open the internet browser (Google Chrome Obrowser recommended) on the PC and type https://bapp.hyris.net in the address bar. Then press enter to access the bAPP.

- 2. The Home window will be shown. The screen is mainly divided in two sections:
 - Main Menu: list of available bAPP sections:
 - **Home**: Welcome Window. Log-in credentials required when starting a new session on bAPP
 - Analyses: all the available analyses are listed in this section. New analyses can be created
 - **bKITs**: bKITs are reagent sets used to analyse a specific genetic sequence. The bKITs developed and sold by Hyris Ltd are listed in this section
 - Recipes: a "Recipe" is a detailed list of steps and settings that the bCUBE has to execute while performing an analysis. New recipes can be customized from this menu (see <u>Appendix-2: Custom Recipe</u>). All the available recipes are listed here
 - **Swarms**: "Swarm" is used to define a collector of analyses and recipes. User can have access to multiple swarms according to his permissions. Visible Swarms are listed in this section
 - **Users**: list of available users and relative permissions (see Owner's Guide for further information)
 - **bCUBEs**: list of available bCUBEs with relative extra information (see Owner's Guide for further information)
 - **Certificates**: list of requested certificates.



• **Tab View Area**: content is related to the selected Main Menu section

Main Menu	Tab View Area
Hyris bApp ^{v1.50} Login	
a Login	Emai
HYRIS	Password Remember me
	LOGIN SIGN UP FORGOT PASSWORD?

3. After the Main Window is displayed, **Login** is required.

Insert your email and password, which are corresponding to the **credentials** used to register the user to the Hyris Ltd web site or the bAPP. Enable the "*Remember me*" option to keep the user logged in.

In order to sign up, push the SIGN UP button and follow the steps.

In case of forgotten password, press on FORGOT PASSWORD? and insert the user mail. Then check your mail box for further instructions.

Create a New Analysis: general information

Go to the "Analyses" section from the Main Menu. The already existing analyses will be listed in a table.

In order to create a new analysis, click on the + button.

The user will be guided through few steps to correctly fill all the requested information. The first step refers to the general information of the analysis:

- Name: name of the analysis
- **Description** (Optional): brief description of the experiment
- Swarm: select the Swarm to which the analysis will be linked to
- **Recipe**: choose a recipe among the ones related to the selected Swarm.
- bKITs: show available bKITs (associated to the relative global recipe) instead of Swarm recipes

Click on to proceed to the following step



1	General Informations	
	Name	Swarm
	Description	- bKITs
		Recipe
	CONTINUE	

Custom recipe choice

In case of disabled "bKITs" option:

- 1. Select the desired **Swarm** among the list. In case only one available swarm for the user, it will be automatically selected. After the selection, the relative swarm recipes are loaded.
- 2. Select the desired **Recipe** among the list. Click on the **b** button to see the recap of the thermal protocol relative to the selected recipe.

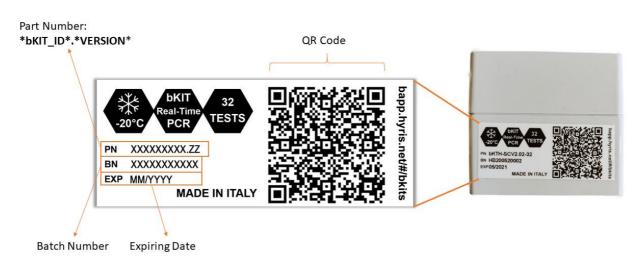
bKIT choice

In the new/edit analysis page, after enabling bKITs [A], the following parts have to be filled:

1	General Informations	
	Name	Swarm
	Description	• bkits A
		bKiTs • B
		C • 🗰 D
		Global recipe

- A. **bKITs Flag**: if bKITs are enabled, fields **[B]**, **[C]**, **[E]** and **[F]** are shown
- B. **bKITs** categories (mandatory): the available bKITs depend on the selected category (examples: **Probiotics, Plant Health, Botanicals ...**)
- C. **bKIT part number** (mandatory): list of available bKITs according to the selected category. The bKIT part number is reported on the bKIT package as shown below.





- D. **QR Code Scanner**: if the desired bKIT is provided with dedicated QR code, click on this button and scan it. The QR code could be placed on the bKIT box and / or in the provided datasheet. In this case, the fields **[B]** and **[C]** are automatically set.
- E. **Global Recipe**: this is a read only field, which shows the name of the Global Recipe associated to the selected bKIT. It's automatically filled once **[C]** is selected
- F. Datasheet/DNA extraction method download buttons: click on the desired button to download a .pdf file of the desired document

Note: Each **VERSION** of the bKIT is associated with a specific **Global Recipe**. Verify that the selected **bKIT** and its **Version** match the part number and version reported on the package.

Create a new analysis: the cartridge

Select the desired cartridge among the available ones (for example: "4x4 samples").

1. The wells information is filled while compiling the selected recipe.

Sample Sample ♥	•	•	÷
•	•	÷	÷
Đ	•	ŧ	÷
Đ	÷	÷	Đ

2. Wells can be deleted (press the ^{III} linked to the desired well), modified or added. In this last case:



- a) Click on the desired well on the cartridge model on the right, according to the loaded sample
- b) A dedicated window will appear
- c) Select the Sample Type from the drop-down menu (Mandatory)
- d) Enter the Sample Name (Mandatory)
- e) Choose the Well Colour
- f) Click on save button

Define well nr. 2		
Select well type		•
Name		
	CANCEL	SAVE

Other selection modalities are available for desktop mode:

window.

• **Multiple selection of contiguous wells**: hold down the left button of the mouse. A cross cursor will appear. Holding down the button, drag the mouse on the cartridge to select

many contiguous wells. Click on the 🖍 button to open the "edit well" window.

Multiple selection of non-contiguous wells: hold down the ctrl button (a pointer cursor will appear) and click on the desired wells. Click on the
 button to open the "edit well"

You can then add a new well by repeating this procedure or click on **FINISH**.

If the "Launch now" option is selected, a new window will open. Select the desired bCUBE among the available devices. The selected bCUBE status LEDs will blink. You can make the Status LEDs blinking again by clicking on the selected bCUBE status LEDs of the thermal protocol that will be executed is visible by clicking the button. *Cartridge Loading Wizard* can also be shown, and cartridge .PDF file can be downloaded. Click on select to immediately launch the analysis. The live analysis view page will be shown.



Run Analysis 🏾	PDF	 ×
Select bCube		•
SEND CANCEL		

The status LEDs of the device will start to show multiple and changing colours 🔽 🛣 🛣. Otherwise, check the Owner's manual for further information.

If the "Save for later" option is selected, the user will be brought back to the Analyses list view.

Analysis details

GENERAL tab

This section shows the cartridge temperature measured by the instrument during the experiment and some information about the operating bCUBE 2.0 (for example, its name and software version) or the analysis.

Each of these parameters are updated in real time while analysis is running and bCUBE 2.0 is connected to the internet.

If the analysis state is "Running", the user can send commands to the operating bCUBE 2.0:

- BORT : the running analysis will be immediately stopped
- EXTEND (5 •••) : the extend button will add 5 cycles/minutes to the current step. This operation is not allowed when the "Melting Curve VAL" step is running.
- **SKIP** : this command instantly ends the current step in order to start with the following one.

Each of the previous actions will be tracked both in the analysis report and in the step preview on the **Tab View Area**.



WARNING

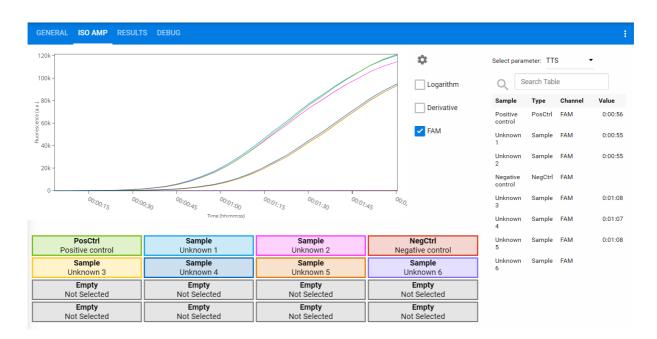
Make sure the previews command has been executed by bCUBE 2.0 before sending a new command.

STEPS tab

All analysis steps are listed in this tab.

Each step data can be consulted individually by clicking on the correspondent name on the list. The step view will be expanded, showing extra data, such as the fluorescence/time graphic, which is updated in real time while the analysis is "Running" and bCUBE 2.0 is connected to the internet.





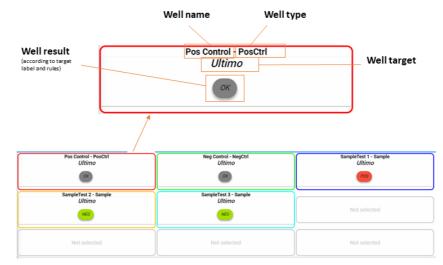
If the analysis is completed, a computed parameter table will be added next to the graphic (if specified in the recipe).

Select parar	neter: TTS	6	•
QS	earch Tabl	e	
Sample	Туре	Channel	Value
Positive control	PosCtrl	FAM	0:00:56
Unknown 1	Sample	FAM	0:00:55
Unknown 2	Sample	FAM	0:00:55
Negative control	NegCtrl	FAM	
Unknown 3	Sample	FAM	0:01:08
Unknown 4	Sample	FAM	0:01:07
Unknown 5	Sample	FAM	0:01:08
Unknown 6	Sample	FAM	



RESULTS Tab

In this tab a graphic representation of the selected cartridge is shown. After the analysis is completed, each sample is marked with a label indicating the result of the experiment (if specified in the recipe).



Action button

Click on the **i** button in the tab section to open the action menu.

Different actions are available depending on the analysis status:

PDF

 Generate PDF button will immediately start the download of the report (.pdf file) of the current analysis

Ĩ

- Generate .XLSX button will download an Excel readable file with all the analysis information and results.
- Edit Samples button allows the user to change some wells information, such as the wells names or types.

Ŧ,

- Recalculate results allows the user to change some settings of each step and to recompute the analysis results accordingly.
 - <>
- EXTEND the extend button will add 5 cycles/minutes to the current step. This operation is not allowed when the "Melting Curve VAL" step is running.

×

ABORT button: the running analysis will be immediately stopped

ÞI

• SKIP button: this command instantly ends the current step in order to start with the following one.



bPANEL 2.0 interface

Installation

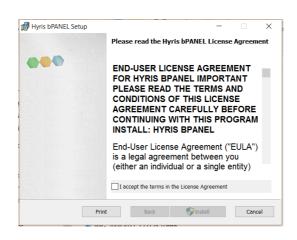
Open the bPANEL 2.0 installer located in the provided USB.

- 1) Insert into an available USB port the Hyris USB Stick containing bPANEL installer.
- 2) Launch the file Setup.msi, located inside bPANEL folder.
- 3) On the welcome screen, click on Next.

🕼 Hyris bPANEL Setup	- 🗆 X
Ð	Welcome to the Hyris bPANEL Setup Wizard
	The Setup Wizard allows you to change the way Hyris bPANEL features are installed on your computer or to remove it from your computer. Click Next to continue or Cancel to exit the Setup Wizard.

Figure 1: bPANEL installation - Welcome screen

- 4) On the next page, carefully read the licence agreement. Tick the check-box and click **Install** to continue.
- 5)



6) Wait for the installation process to end. Click on **Finish** on the last page to complete the installation.

No driver installation is required for using bCUBE 2.0.

Main view

Make sure all the steps described in <u>bCUBE 2.0 Connection</u> have been correctly performed. Open the bPANEL 2.0 program. The main view will be shown:

- Command Buttons: list of command to send to the connected bCUBE
- Tab selection: each tab provides different information about the loaded analysis or the user settings. The analysis related tabs are updated in real time while the selected analysis is running and the correspondent bCUBE is connected



o Tab View Area: shows the content of the selected tab

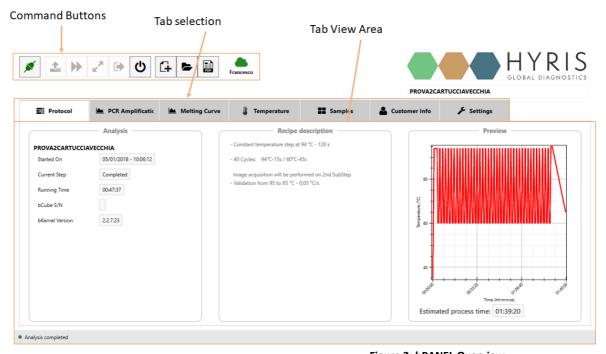


Figure 2: bPANEL Overview

Settings: Log in/Sync and bCUBE 2.0 connection Go to "Settings" tab:

1. Click on Login

Protocol	JE Settings	
bCube IP/Name		▼ Clear/Refresh
bData Username:		
Last Sync:		
Logout	Login Sync	

 Insert your email and password, which are corresponding to the credentials used to register the user to the Hyris Ltd web site (same as used credential to access the bAPP. See <u>Access</u> <u>the bAPP</u> section for further information). Then click "OK"



bData Username:	TestUser@demo.net
bData Password:	*****

3. Click on Search . After the operation completion, the available bCUBEs devices will be listed in the dedicated drop-down menu. Select the desired one

bCube IP/Name	xxx-xxxx-xx-xx	*	Search
bCube Host Name:	XX-XXXXXXXXXXXXXXX		
bData Username:	TestUser@demo.net		
Last Sync:	26/09/2019 11:44:29		

4. Click on the selected device. After connection, the button will turn green

New analysis creation

- 1. Click on the 🕒 button
- 2. Insert the Analysis Name (Mandatory)
- 3. Select the desired Swarm among the available ones (Mandatory)
- 4. Click on Global recipes
- 5. Select the desired Recipe
- 6. Click on ^{Ok} button.

Create new Analysis		×
Analysis name:	DEMO_ANALYSIS	
Select Cartridge type:	16wells -	
Select Swarm:	Test	•
	○ Swarm recipes	
Select Recipe:	Panax spp. 1.1	*
	Ok Ca	ncel

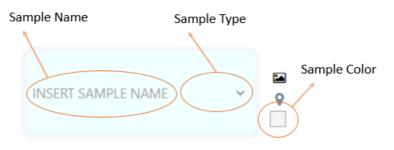


The new analysis will be created and tabs updated accordingly.
 The wells information are filled while compiling the selected recipe downloaded from

bDATA.

Protocol	Samples		ℱ Settings								
_1 Sample	, ,	₽ ₽	INSERT SAMPLE NAME	v	Q	INSERT SAMPLE NAME	Ŷ	Q	INSERT SAMPLE NAME	Ŷ	Q
INSERT SAMPLE NAME	~	8	INSERT SAMPLE NAME	×	Q	INSERT SAMPLE NAME	Ŷ	Q	INSERT SAMPLE NAME	v	9
INSERT SAMPLE NAME	v	8	INSERT SAMPLE NAME	Ÿ	₽	INSERT SAMPLE NAME	Ŷ	₽	INSERT SAMPLE NAME	v	8
INSERT SAMPLE NAME	×	8	INSERT SAMPLE NAME	Ŷ	8	INSERT SAMPLE NAME	Ŷ	8	INSERT SAMPLE NAME	Ý	8

- 8. Wells can be deleted, modified or added. In this last case:
 - a. Click on the desired well on the cartridge model on the right, according to the loaded sample
 - b. Select the Sample Type from the drop-down menu (Mandatory)
 - c. Enter the Sample Name (Mandatory)
 - d. Choose the Sample Colour



Run the analysis

- 1. Load the cartridge to the selected bCUBE 2.0 (see section: <u>Cartridge Preparation</u>).
- 2. Run the analysis by clicking on the command button. The analysis will be uploaded to the selected bCUBE 2.0. If no errors occur, the experiment will immediately start, while the status LEDs of the device will start to show multiple and changing colours.
- 3. The analysis parameters and results will be automatically shown in specific tabs in real time.
- 4. Wait for "Ready Colours"
- 5. Generate a PDF report file by clicking on the **Build/Rebuild PDF Report**".
- 6. Unload the cartridge

Old analyses view

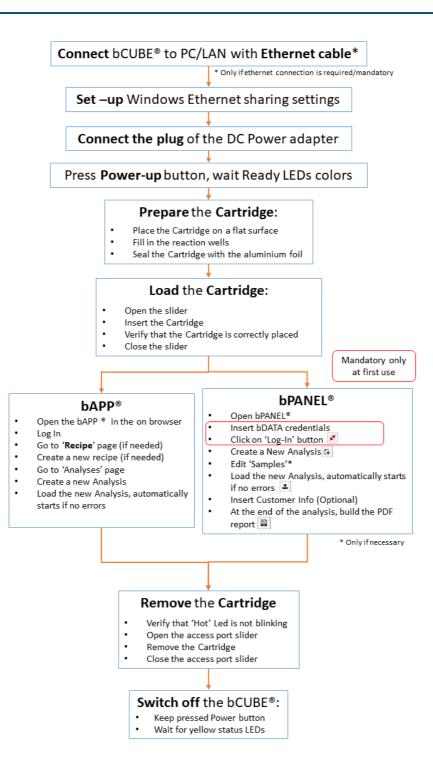
Old analyses can be consulted by opening them from PC, bCUBE or online bDATA folders.



Click on the command button and select the desired folder location among "LOCAL", "bCUBE" and "bDATA". Click on "OK" after the analysis selection. The analysis data will be loaded to bPANEL and results can be consulted. The opened analysis can't be modified.



Flow Chart



23 👌



Appendix-1: Set bCUBE 2.0 Wi-Fi from bCUBEs menu

If the bDATA Status LED is showing steady green colour, bCUBE 2.0 Wi-Fi can also be configured from "**bCUBEs**" section of the bAPP.

- 1. Access the bAPP and Log In as shown in the <u>PC: bAPP Interface</u> section
- 2. Click on **"bCUBEs**" from the main menu: a list of the available devices will appear. The available devices could be different among users of the same company depending on their permissions.
- 3. Select the desired device and press the 🛜 button.
- 4. Select the desired LAN and set the Wi-Fi password, then click on

WiFI Setup WiFi(s) Discovered	
🔶 Example WiFi LAN	^
WiFi Password	



Appendix-2: Custom Recipe

New recipes can be customized on the bAPP according to user's permissions. If recipe customization is not allowed by user's permissions, global recipes provided by Hyris Ltd or already existing company recipes can be used for new analyses.

1. Click on "Recipes" in the left side Main Menu: the list of the available recipes will be shown.

Recip	Des				+	C	Columns 🔻
٩	Search						All Columns 🔻
	↑ Date	t₊ Name	↑, Swarm	↑, Description			
\bigcirc	2019-09-18 15:26	ExampleRecipe	Test				

- Click on the + button to access to the new recipe customization form.
 Remember that **Recipe name** and selected **Swarm** are mandatory.
- 3. Follow the steps and click on FINISH button.
- 4. The new recipe will be added to the recipe list



Appendix-3: Cartridge Preparation

Load samples

In order to load the samples for the experiment:

- 1. Place the cartridge face up on a flat and stable surface
- 2. Put the sample in one or more of the cartridge wells as indicated in the reference Recipe.
- 3. Seal the cartridge with the provided aluminium foils



Load/Unload the cartridge to/from bCUBE 2.0

To load the cartridge to the bCUBE 2.0:

- 1. Open the bCUBE 2.0 Access Port slider
- 2. Insert the cartridge by pushing it through the Access Port by keeping it face up holding it from the handle till it stops
- 3. Close the access port slider

To unload the cartridge:

- 1. Make sure the cartridge is not hot as indicated by the Steady orange colour of the Thermal Status LED.
- 2. Open the access port slider
- 3. Gently pull the cartridge from the handle
- 4. Close the access port slider