SHX Multisensory Room User Guide



Contents

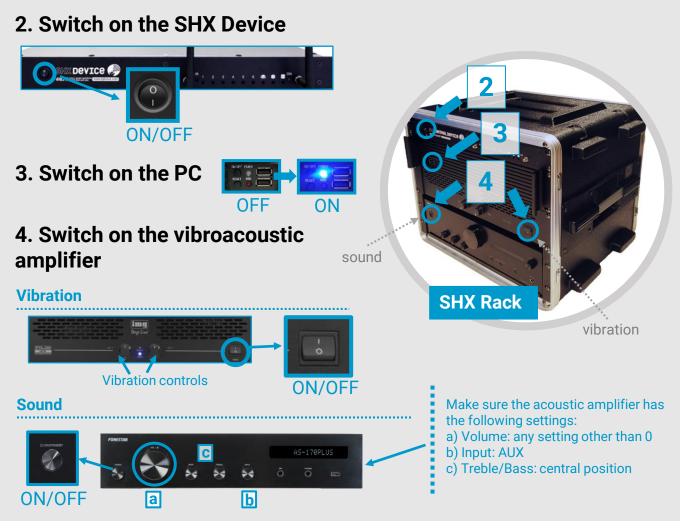
How to launch the SHX system How to control the multisensory room using the SHX app How to control the entire room using the SHX Controller, Die or Mat How to control the room using switches How to access Edit Mode and change the content of a cell How to create a new scene How to edit actions activated by each cell Editing actions: adding multimedia content Editing actions: adding a sound or song Editing actions: controlling devices Editing actions: adding pauses between series of actions Editing actions: controlling luminous elements How to enable audio-activated lighting How to organize content into categories How to open and save SHX configurations How to import a new SHX collection How to use SHX with two screens How to use SHX Proximity in the sensory room How to control the system with a different tablet How to control an SHX Room with Eyetracking How to control an SHX Room with Voice How to control an SHX Room from an external program How to close the SHX System

How to launch the SHX system

Here are the steps for launching the SHX system with an SHX Rack. Follow the same procedure when using the SHX Compact and SHX Device Lite.

1. Switch on the projector, television or monitor





5. Launch the SHX program on the PC

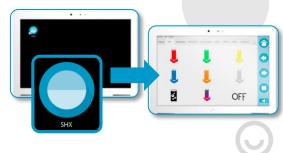
The program should launch automatically when you open Windows. If not, double-click on the program icon on the desktop.



You will need a **keyboard** and **mouse** to access the software.

mouse keyboard

6. Switch on the tablet and open the SHX app



How to control the multisensory room using the SHX app

Once the system is running, you will be able to control the entire room with the tablet.

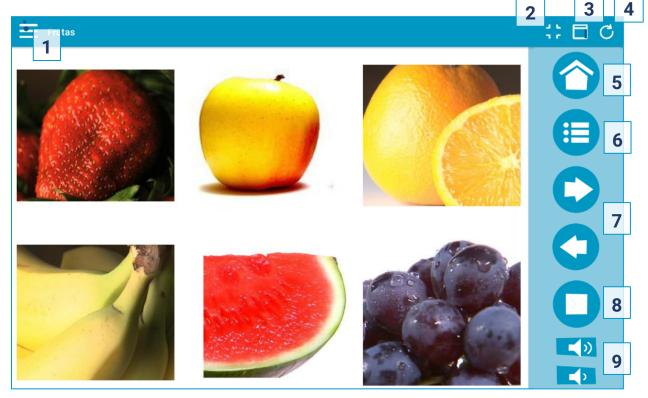
1. Open the SHX app on the tablet



When the SHX app is opened on the tablet, any changes that have been made to the content will be synchronized automatically. If you have purchased an SHX tablet with the SHX system, no adjustments will be necessary as it is ready for use.

If you wish to control the room with a different tablet (Android or iOS), you will need to adjust its settings to allow it to connect to the server.

See info sheet: How to control the system with a different tablet.



2. Controlling the room with the tablet

Using the SHX app:

- 1. Scene selection menu.
- 2. Full screen mode.
- 3. Hide/Show the navigation bar (in iOS, this option can be accessed from the Menu).
- 4. Refresh edited content (in iOS, this option can be accessed from the Menu).
- 5. Go to the home screen.
- 6. Change category.
- 7. Buttons for moving to the previous or next scene.
- 8. Room STOP button: switches off lights and devices.
- 9. Volume control buttons.

How to control the entire room using the SHX Controller, Die or Mat

Different controllers, such as the SHX Controller, Die or Mat, can be used to interact with the SHX room.

1. Select a scene

In the Options menu in the SHX app, select "Set scene on the server". Then, search for the scene you wish to work with in the tablet. Any system controller can now be used to activate the cells displayed on the screen.



2. Use the SHX Controller

Every button on the SHX Controller corresponds to a cell in the selected scene, in the same order.

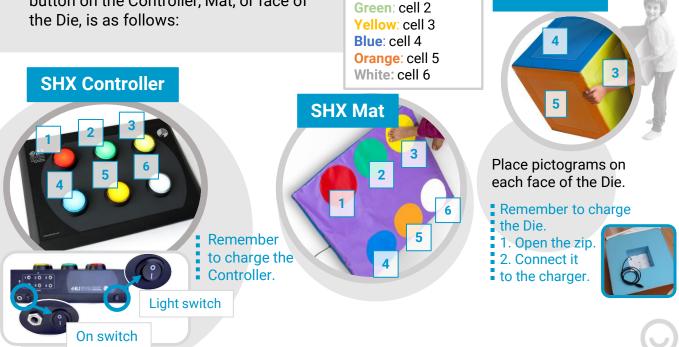
- The system recognizes the order of the elements in use, not the color of
- the controls.

\bigcirc

SHX Die

Button/cell equivalencies:

The SHX software cell activated by each button on the Controller, Mat, or face of



Red: cell 1

How to control the room using switches

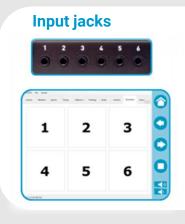
The SHX room can also be controlled using switches.

1. Connect

Connect a switch to one of the 9 control inputs depending on the desired function.

- The first **6 jack plugs** activate the first 6 cells in in every scene tab.
- The next 3 activate special functions.





Special function input jacks

Scanning: this input system allows the different cells on the active scene tab to be activated by scanning. A second activation of the switch will launch the content associated with the selected cell.

Random: every activation launches the content of a random cell on the active scene tab.

Sequential: every activation launches the content of each cell on the active tab in order.

2. Select a scene

In the Options menu in the SHX app, select "Set scene on the server". Then, search for the scene you wish to work with in the tablet. The switch activates the cells on the screen.

			*
Settings		Settings	
Set scene on the server		Application	
① About SHX		Apply scene in server	
Scenes	CANCEL OK	Show navigation bar	

Android

iOS

3. Press the switch

When using wireless switches, remember
that both the controllers and the
receivers require batteries.

How to access Edit Mode and change the content of a cell

You will need to connect a mouse and a keyboard to the PC. The TV set or area you are projecting onto, such as the wall, will act as a screen.

2

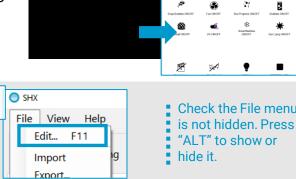
1. Exit Reproduction Mode

If you have been displaying content in the room, you will need to exit Display Mode. To do so, move the mouse until a cross appears on the screen. Click it to close and you will return to the main menu.



2. Select Edit Mode

Press F11 or select File -> Edit in the menu.



3. Edit the cells

Double-click on a cell to begin changing its functions.

See info sheet: How to edit cell actions



4. Appearance

Use the menu on the left to change the name of the scene tab, alter the number of rows and columns of cells, display or hide the cell and frame, or edit the image and text in the cell.

5. Confirm changes

6. Refresh the content in the tablet

See info sheet: How to control the entire room using the SHX app.

How to create a new scene

The SHX content is organized in scenes or tabs, in which each a series of cells are displayed. The software can be used to create as many scenes as desired.

1. Select Edit Mode

See info sheet: How to access Edit Mode and change the content of a cell.

2. Create a new scene

Go to the last scene tab and press "Add scene".

3. Select the scene format

- <u>Blank</u>: this creates a new scene with 6 default blank cells. The number of cells, their position on the tab and their appearance can be changed with the Scene and Cell menus.
- <u>Copy existing scene</u>: this duplicates an existing scene and all its settings.
- <u>From image or video file</u>: this allows you to select several multimedia files and create a cell for each one.

Add scene New scene Empty Copy an existing scene C-Control Using video or picture files Browse... OK Cancel

4. Name the scene

5. Change the number of cells

6. Edit every cell

See info sheets: Editing actions...

7. Confirm changes

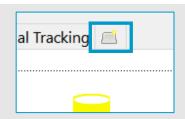
8. Refresh the content in the tablet

See info sheet: How to control the entire room using the SHX app.

The **settings** group together the number of scenes, appearance and combination of actions that are defined in each cell. Every setting is saved in a file with the .bjx extension. You can name each file as you wish. You can create as many settings profiles as you wish, each with its own personalized content to suit the needs of different users or purposes.

See info sheet: How to import and export SHX settings.

Scene		D))))
Name:		
Columns:	- +	
Rows:	- +	



How to edit actions activated by each cell

You can decide how and when the different elements in the sensory room behave by selecting a series of **actions**.

Actions allow you to program special effects adding devices, lighting and multimedia files, for example, into any scene.

See info sheet: How to access Edit Mode and change the content of a cell.

1. Double-click on a cell to go to the "Add an action" menu

2. Select the desired action by clicking on the cell

The icons on the left (actions) will allow you to achieve the desired effect in the room. They will appear in selection order in the panel on the right, from top to bottom. You can use the side bar to navigate between them.

SHX - Actions Add an action 2 Device Device Wait Sound Infrared	Multimedia Wait Wait Wait Wait Multimedia Multimedia Sound	× a b c
4 Test Stop	5 ОК Сан	cel

See info sheets: Editing actions: adding multimedia content, Editing actions: adding a sound or song, Editing actions: controlling devices, Editing actions: controlling luminous elements and Editing actions: adding pauses between series of actions.

3. Edit actions and change launching order

Use the side buttons with the list of actions to (a) change the order they are launched in, (b) delete them or (c) edit them.

4. Test

You can preview the changes you make with the "Test" button. Use the "Stop" button to stop the actions.

5. Confirm changes

Editing actions: adding multimedia content

Images, video, webpage or YouTube files can be used in the room by selecting the Video/ Image function.

See info sheet: How to access Edit Mode and change the content of a cell.

1. Double-click on a cell to go to the "Add an action" menu

2. Select Video/Image by clicking on the cell

3. Select the file type

- <u>Pause:</u> turns the screen black and silences the sound of the previous action.
- <u>Type</u>: image, video file, slideshow, YouTube video or webpage.

((t+	Ŷ	
Device	Lighting	Video / Image
6		•1
Wait	Sound	Infrared
	Jump	

Action:	Video / Image
mage / Video	
○ Stop	
• Туре:	Image ~
	Image
	Video file
	Slideshow
	YouTube video
	Web page

If you choose to use images or video files, we recommend you save them all in the same location on your PC.

- If you wish to generate **new content**, we recommend creating a file with the scene name in
- C:\BJCSHX\ and saving all the audio, video or image files used there. This will make it easier for you to find your content and manage your settings.

You can <u>adjust the image</u> to fit screen: maintain appearance, e zoom to fill the screen.			Default (keep aspect ratio) Default (keep aspect ratio) Stretch to fill the screen Zoom to fill the screen	~
You can also decide to silence the sound on a video file (Mute) or select Repeat mode to play it on loop.	Adjust: Mute Repeat	Default	Stretch	Zoom
If the images are part of a slide	e presentation, s	such as a	Slide Duration:	8 🛉 00:00:00

If the images are part of a slide presentation, such as a series of photographs, you can choose how long each image is projected before the presentation continues. You can also repeat the sequence if you wish.

Slide Duration:	8 🗘 00:00:00
🗆 Repeat	

Remember that some YouTube videos may be subject to broadcasting and **copyright restrictions**.

Editing actions: adding a sound or song

In addition to introducing sounds and songs with the Video/Image action cell, a single sound can also be added to the scene with the Sound cell.

See info sheet: How to access Edit Mode and change the content of a cell.

- 1. Double-click on a cell to go to the "Add an action" menu
- 2. Select Sound by clicking on the cell



3. Select the desired file

We recommend that all the sound files used in the scene are saved in the same location on your PC.

Action: Sound		
Sound		
		Browse
		Remove
	OK	Cancel

If you wish to generate **new content**, we recommend creating a file with the scene name in

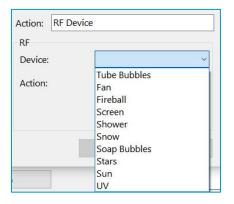
- C:\BJCSHX\ and saving all the audio, video or image files used there. This will make it easier for
- you to find your content and manage your settings.

Editing actions: controlling devices

Set the cells to create special effects in the room with a fan, a bubble machine, star projector, UV light or other items using the Device cell.

See info sheet: How to access Edit Mode and change the content of a cell.

- 1. Double-click on a cell to go to the "Add an action" menu
- 2. Select Device by clicking on the cell





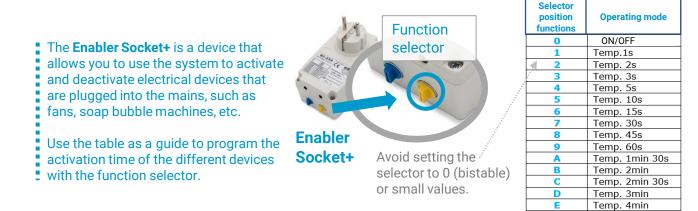
3. Select the device you wish to control from the list

4. Select the desired action

- **ON:** the device will switch on.
- OFF: the device will switch off completely.
- **Change state:** The device will work for the length of time assigned in the RF receptor (yellow selector on the Enabler Socket+).

SHX - Action		×
Action: RF Dev	vice	
Device:	Fan	~
Action:	OFF Engage ON	
	ОК	Cancel

Temp. 5min



Editing actions: adding pauses between series of actions

Sequences of actions can be created and programmed to launch at a different time with the Wait function.

See info sheet: How to access Edit Mode and change the content of a cell.

1. Double-click on a cell to go to the "Add an action" menu

2. Select Wait by clicking on the cell

The Wait function can be used to add pauses between one action and the next or program actions to occur at a specific time, such as special effects during a video projection.



SHX - Action X	Multimedia	
Action: Wait	V Lighting	-
1,0 seconds	Tube Bubbles OFF	_
OK Cancel	Wait	
	Fan Engage	

Use the **buttons at the side** to change the order of the actions, delete or edit them.

Editing actions: controlling luminous elements

Control the color and intensity of the room lighting and luminous devices with the Lighting function.

See info sheet: How to access Edit Mode and change the content of a cell.

1. Double-click on a cell to go to the "Add an action" menu

2. Select Lighting by clicking on the cell



-	
DMX	
Device(s):	General (default)
	All
	General (default)
	Bubble Tube
Colour	Fibre Optics
Manual	Fibre Shower
	Star Ceiling
	Ball Pool
	Lamp
	Courtain
○ From image	Planet
	UV

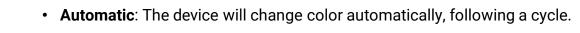
3. Select the device you wish to control from the list

The "All" option controls the ambient lighting in the room (LED strips, LED light bars/panels, etc.) and all of the luminous devices (bubble tubes, fiber optic elements, etc.); the "General" option only controls the ambient lighting.

4. Select 1 of the 4 lighting modes

- Manual: Select a color. Adjust the transition time for a gradual color change.
- Image activated: The device will light up in the average color of the image being projected.
- Audio activated: The device will change color depending on the volume of the noise. There are four different lighting modes:
 - <u>White</u>: the device lights up in varying intensities of white depending on the volume of the noise.
 - <u>VU Meter</u>: the color will change from green to red depending on the volume of the noise.
 - <u>Peaks</u>: the light shines white when the noise goes above a certain level.
 - Random: the color exceeds a certain
 - Select the sound source in the SHX Program
 - Options menu: microphone or PC output (stereo mixer).
 - See info sheet: How to configure the sound source for the Audio-activated lighting function

r changes randomly when the noise	
volume.	

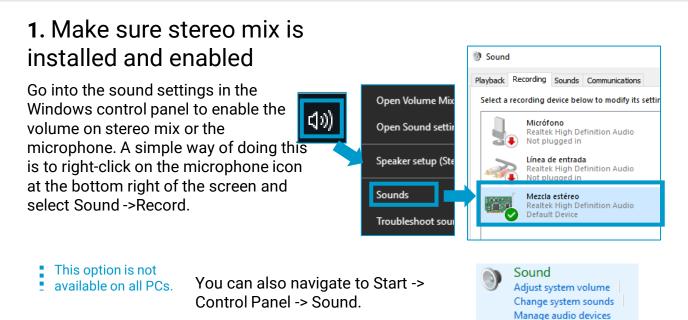


Colour	
Manual	Change
	transition time 0 🚊 sec.
○ From image	☑ Increase saturation
	Temporal smoothing
	Screen:
	Default ~
\bigcirc From audio	~
○ Automatic	

How to enable audio-activated lighting

You can select the microphone or your PC (stereo mix) as the sound source to launch lighting effects in the room.

See info sheet: Editing actions: controlling luminous elements.

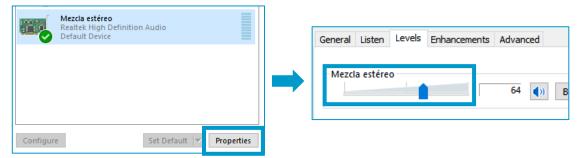


2. Select the sound source in the SHX Program Settings menu

In the SHX program in the PC, access the sound source options by navigating to File -> Settings -> Recording device. Select the desired source in the drop-down menu: microphone or PC output (stereo mixer).



3. Adjust the sound levels



You can use the sound settings on your PC to adjust the audio levels to modify the sensitivity of the lighting effects in the room.

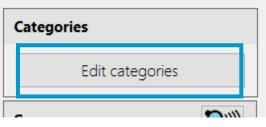
How to organize content into categories

Scenes can be organized into categories. A category can contain scenes from the same topic, scenes from a specific user, etc.

1. Select "Edit Mode"

In the SHX program in the PC, access this menu by selecting File -> Options -> Edit

See info sheet: How to access Edit Mode



2. Select "Edit categories" in the left side menu

Choose between the category editing options:

- Add: Create a new category and add all the scenes you want to it.
- Edit: Make changes to the categories already created.
- Move up/Move down: Use the arrows to move the category in the list.
- <u>Remove</u>: Delete a category.
- Merge: Select two or more categories and combine them into a new category.

Categories	Category Environments
All	Scenes
Devices Environments Concepts Activities	 Piano Earth Seasons Travel Landscape Fluffy Family Petrus
	 Undersea Sequential: Plane Sequential: Train Find

3. Access your categories using the button in the navigation bar (Android, iOS & Windows)

By default the "All" category contains all the scenes available in any category.



How to open and save SHX configurations

You can create as many configuration profiles (bix) as you wish, each with personalized content to suit different purposes and user needs. It is also possible to export or save series of scenes and import them at any moment.

The configurations include all the scenes with a specific profile, actions associated with each cell and categories. Every setting is saved in a file with the .bjx extension. You can name each file as you wish.

To save configurations:

1. Use the Save as option in the File menu

In the SHX program in the PC, access this menu by selecting File -> Save as...

2. Name and save the setting on your PC

Select the desired folder and save the file. The configuration will be saved automatically as a file with a ".bjx" extension.

To open a new configuration:

1. Use the Open option in the File menu

In the SHX program in the PC, access the menu by selecting File -> Open

2. Select the .bjx file you wish to import

You will import the full configuration profile. The new layout will replace the current layout.

To add certain scenes to the current layout:

1. Use the Open option in the File menu

In the SHX program in the PC, access the menu by selecting File -> Add scenes

2. Select the .bjx file that contains the scenes you wish to import

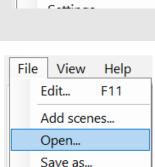
3. Select the desired option

The scenes you choose will be added to the current layout.

- REMEMBER: multimedia files are not stored in the .bjx file. If you wish to export the settings to another computer, you will need to
- copy and store the multimedia files in the same location.

Scene

⊠ UV



View

Add scenes...

Edit...

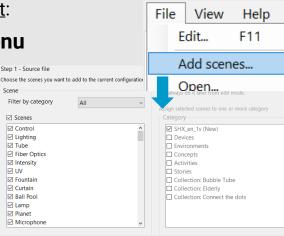
Open...

Save as...

File

Help

F11



P

How to import a new SHX collection

The SHX system comes with a variety of software content which includes images, videos, sound, lighting and special effects to create immersive environments with specific themes. This software content, or "scenes" as we call it, can be used to do a variety of activities. These activities will depend on the therapeutic objectives of each user and adaptable to their specific needs.

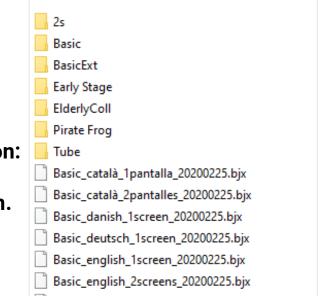
While the SHX system comes configured with a default collection of content, there are additional collections which can be added:

1. Use the "Open" option in the "File" feature.

In the SHX software, select from the "File" drop down menu: File – Open

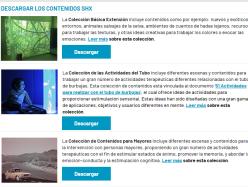
2. Select the collection you want to add by going to the following location: C:\BJCSHX\folder name and select the desired file with a "bjx" extension.

Select the file based on the desired language – Accept and there you have it.



3. Now refresh the Tablet and the new content will be available.

Note: Before this final step, to avoid losing previous content or personalized changes, save your content by selecting **File > Save as**.



Rena Pirata es un cuento infantil interactivo con pictogramas sobre una rana que via rel espacio. En su adoptanto para salas multisensoriales SIX el cuento incluye ectos especiliaes y de luz, zonidos, animación de los personajes, narracion, y otros amentos que permiten al usuario interactuar con la historia. Este contenido es ideal ra estímular los estudios y la participación, especialmente enfocado para: atención mprana. discapacidad intelectual, dificultades de aprendizaje, etc. <u>Leer más</u> sobre ta colección. Find in our **SHX Content Library** the downloadable collections that will be updated regularly: <u>https://qinera.com/en/376-shxcontents</u>

How to use SHX with two screens

The SHX System allows multimedia content to be projected with two screens or projectors in order to create more immersive sensory environments.

1. Adjust the number of available screens and define the default screen

Access File->Settings->Video/Image to select one or two screens for projecting the multimedia content Check the File menu is (images and videos).

not hidden. Press "ALT" to show or hide it.

If two screens or projectors are connected to the SHX System, select which will be the main screen. From now on, content will be projected there by default, and you will use it to access the Edit Mode.

Click on "Open Display settings" to see the screen order and which is the default and secondary screen on your computer.

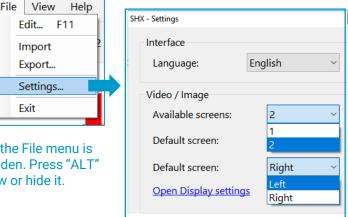
- You can select and organize your screens in the Windows
- screen settings menu. Click on "Identify" to find out which
- is nº1 and which is nº2. Then, change the screen order by
- dragging them with the mouse.

2. Select where you want to

every multimedia action

See info sheet: Editing actions: adding

multimedia content

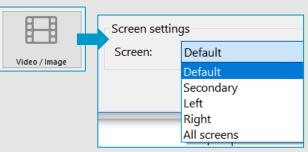


Display			
Select and rea	arrange displays		
Select a display b	elow to change its sett	ings. Some settings are applied	to all displa
			_
	\sim	4	
	2		
	-	•	
			-
		Identify	De

project your images and videos in Screen settings Default Screen: Video / Image Default Secondary Left Right All screens

Once you have adjusted the number of screens, you will be able to define how your content is projected when you edit it.

If you only wish to project on one screen, select "Default" on the Display Settings menu. If you are using two screens, you can select all screens, the secondary screen, the left or the right.



How to use SHX Proximity in the sensory room

SHX Proximity allows you to interact with the elements in the sensory room using real, physical objects. Activate the desired content and effects by moving the cards or stickers close to the SHX Proximity device.

1. Connect the SHX Proximity Device to a USB port on the PC



2. Open the SHX program in the PC and access Edit Mode



See info sheet: How to access Edit Mode ...

3. Select the scene or cell that you wish to link with the card or sticker

Remember that, in order to create effects, you need to assign actions to cells beforehand.

See info sheet: Editing actions...

4. Click on the SHX Proximity icon and move the card or sticker close to the SHX Device

The *will* icon will allow you to link individual scenes and cells to SHX cards or stickers.

Use a **scene** change to adjust the actions of the controllers (remote control, etc.).

Use a **cell** change to enable or launch the effects of different elements in the room.

Click on the SHX Proximity icon and place the card or sticker on the SHX Device. Wait for a few seconds, and when the recording process has finished, remove the object and click on OK to confirm the setting.

If an error message appears, there is a problem with the connection. Make sure the reader is correctly connected and bring the reader and receiver closer together.

5. Use the card or sticker to control the room

Move the card or object that has the sticker on it towards the SHX Device to launch the effects in the room.

Place a sticker on any objectto make it a controller.



Scene		
Name:	Space	
Columns:	- +	
Rows:	- +	
Cell		



Use the same procedure to **reprogram a card or sticker** as often as you wish. The special function cards that come SHX Proximity are protected and cannot be reprogrammed.

How to control the system with a different tablet

Both Android and iOS tablets can be connected to the SHX system.

1. Use the tablet to download and install the SHX app

To find it, simply type SHX BJLive! into Google Play or the App Store.



2. Adjust the WiFi settings on the tablet or PC

The tablet and PC (SHX server) must be connected to the same wireless network in order for the system to work correctly.

The SHX System is programmed to create an internal wireless network (without internet connection). To do so, enter the SSID (the default is MultisensorialSHX) and the password provided.

We recommend deleting other wireless networks from the device to avoid it connecting to them automatically.

Help

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Devices DMX...

Recording device

te app Configure

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111.111.0.15 - Ethernet

Edit... F11

Import

Export...

Settings..

Exit

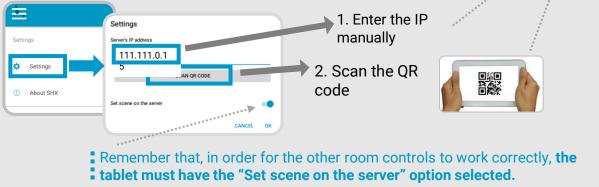
3. Find the SHX server's IP address on the PC

File View In the SHX program in the PC, access the server application menu by selecting File -> Settings, Remote app -> Settings...

- Check the File menu is not hidden.
- Press "ALT" to show or hide it.

4. Enter the tablet IP address

This can be done in 2 different ways from the Settings menu in the SHX app:



How to control an SHX Room with Eyetracking

Using SHX App for Windows. Same for other access methods. Compatible with SHX Server 1.6 or superior.

- 1. Use a computer with an installed eye-tracker device
- 2. Install in this computer the SHX App for Windows from the Microsoft Store

Type "SHX" in the store or use this link https://www.microsoft.com/en-us/p/shx/9nwhx2znqlrf

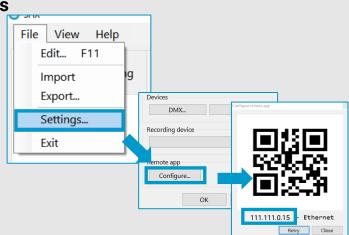
3. The computer with the eye-tracker and the SHX App for Windows must be on the same network as the computer with the SHX Server

4. Configure the Eye-tracker as a mouse

5. Find the SHX Server's IP address

In the SHX Server, access the server application menu by selecting File -Settings, Remote app - Settings...

- Check the File menu is not hidden.
- Press "ALT" to show or hide it.



Server IP	
192.168.11.11	
Scan QR code 🚺	
Access	
_	

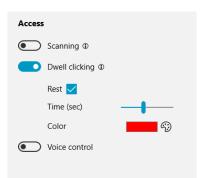
6. Enter the SHX Server's IP address in the SHX App for Windows (ie, the computer with the eye-tracker) Go to Settings – Server IP

7. Activate Dwell clicking

Go to Settings - Access.

8. Choose your preferences.

- Activate or deactivate the rest option.
- · Choose the dwell time to select the item.
- Select the **color** of the countdown indicator.



How to control an SHX Room with Voice

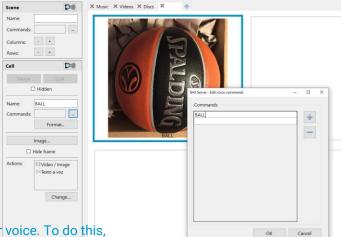
Use customised voice commands with the Windows voice recognition engine.



2. Select the cells that you want to control and add a name and/ or voice command

Go to File – Edit, select the cell and click Commands . Then add the word(s) that when pronounced aloud in the room will activate the cell.

Each button can have severalvoice commands



- You can also change scenes with your voice. To do this,
- go to the scene, click Scene Commands and add
- the word(s) that will allow you to activate the scene.

3. Set the Voice Options

Select File - Settings – Access and configure the options:

- Status: ON/OFF/Sleep
- Dictionary: choose language
- Threshold: set the level of accuracy
- **General commands**: customised the commands by default volume up, volume down, stop, wake up and sleep

4. Use it!

- Say a voice command to launch a specific SHX content.
- Say the name of a tab to change from one scene or tab to another.
- If there's a duplicated voice command, the buttons of the open scene have priority.
- In General commands, "Sleep" switches off the voice recognition, "Wake up" starts it again.

Server - Settings				
General /ideo & Sound	Recording device			~
Access				
Devices	Scanning Time: 2.0	a v	🗆 Enable	ed
	Voice Commands			
	Status:		OFF	~
	Dictionary:	Spanish	(Spain)	~
	Threshold:		60	•
	General commands	5:	Customise	·
		ОК	Ca	incel

How to control an SHX Room from an external program

Using SHXRemote, you can launch contents from Grid3. This process is similar to other programs. Compatible with SHX Server 1.6 or superior.

1. Install SHXRemote in the computer where Grid3 is installed

Download it from: https://update.ginera.com/SHX/SHXRemoteSetup.exe

2. The computer where Grid3 is installed must be on the same network as the SHX Server

3. On the SHX server, go to edit mode and add a voice command to the cells you want to control

See info sheet: How to control an SHX Room with Voice



4. Edit Grid 3

- a) Create a new cell and add a "Start Program" command.
- b) Browse in C:\Program Files (x86)\BJLive!\SHXRemote and select SHXRemote.exe
- c) In the field "Arguments" of the Start Program command in Grid 3, add the name of the voice command of the selected cell in SHX.

Commands 💿 Start program

Start a program SHXRemote Arguments BALU

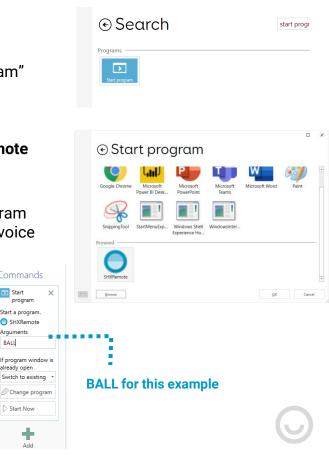
eady open Switch to existing

Change program Start Nov

> ÷ Add

5. Use it!

Every time you press the cell the SHX content will be launched.



How to close the SHX System

When the activity has finished, follow these steps to switch off the devices and close the SHX system in the room.



Immerse yourself in the world of SHX!

If your require any additional information, please contact us at

hello@qinera.com



Consult the manuals of the products in your sensory room on the Qinera support website

https://support.qinera.com



