

2021

Setup and Configuration Guide **for IT**

Version 1.9.0



newline
 REACTIV SUITE

1.0 Introduction

Reactiv SUITE IFP is an application framework that is installed on a Microsoft Windows 10 PC. This comprehensive guide will allow IT and Admin personnel to configure and deploy Reactiv on corporate PC and associated networks.

Reactiv SUITE IFP is a stand-alone compiled application (EXE) that requires the following:

- Windows 10 operating system
- 1GB HD space
- 16MB RAM
- Strong GPU (Nvidia Quadro P620 or equivalent) highly recommended)
- Touch screen with automatic pen \ eraser detection

Reactiv SUITE does not depend on any servers or external applications. As such it can be installed using our one click installer that can be downloaded from our website. In addition, the software works with your existing network architecture, mapped drives, local drives, user authentication methodology and policies just like any other application on the computer.

2.0 Network Configuration

To ensure that all the features of Reactiv SUITE work without issue, be sure to review and ensure that these ports are open on your network.

2.1 Keyboard\File Drop Service:

Reactiv SUITE integrates a web server that allows users on premises to connect with the IFP for remote control and file drop. Local users that are on the same network, can connect from any device using any standard web browser, to the IFP and drop documents and send keyboard commands. The following ports are required for this service to operate correctly.

Port #	TCP or UDP	Protocol Name
80	TCP	Hypertext Transfer Protocol (HTTP)

2.2 Airplay:

Airplay allows users to mirror their Apple mobile, tablet and laptop devices onto the IFP. Any Apple device that supports screen mirroring is supported natively without the need to install any additional applications. The following ports are required for this service to operate correctly.

Port #	TCP or UDP	Protocol Name
5353	UDP	Multicast DNS (MDNS)
7000	TCP	Server Port
29053	TCP	Event Port
7100 - ...	TCP	Data Port
2001 - ...	UDP	Timing Port
61875	UDP	Audio Data Port

2.3 Miracast:

Miracast allows users to mirror their Windows 10 devices onto the IFP. Any Windows 10 laptop or tablet can be mirrored onto the IFP without the need to install any additional applications. The following ports are required for this service to operate correctly.

7250	TCP	Server Port
7236	TCP	Control Port
51566 - ...	UDP	
5353	UDP	mDNS Port

2.4 Chromecast:

Chromecast allows users to mirror their Android and Chromebook devices onto the IFP. Most Android mobile and laptops, in addition to Google Chromebooks, can be mirrored onto the IFP without the need to install any additional applications. The following ports are required for this service to operate correctly.

Port #	TCP or UDP	Protocol Name
443	TCP	Secure Sockets Layer (SSL or HTTPS)
1900	UDP	Simple Service Discovery Protocol (SSDP)
5353	UDP	Multicast DNS (mDNS)
8009	TCP	Server Port
56086 - ...	UDP	Data Port

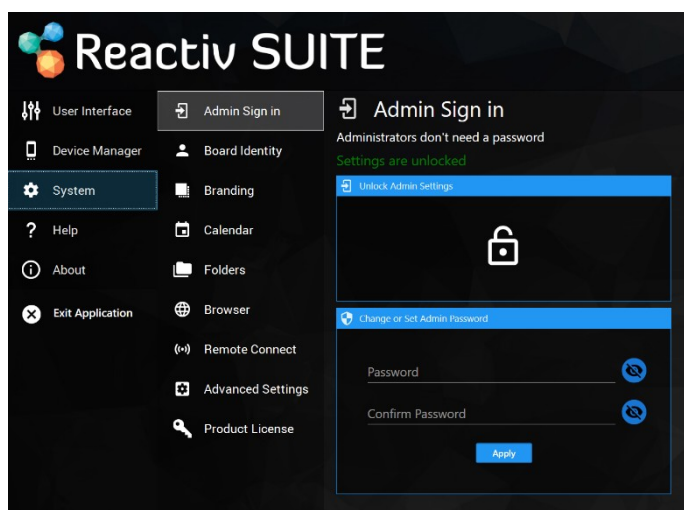
3.0 System Settings

Reactiv SUITE allows Administrators to configure and lock down settings that control user experience and data access. Some of these features are only available in the IFP version of the product.

3.1 Admin Login (IFP version)

For security purposes, administrator password can be used to lock the system settings. This restricts normal users from changing pre-established settings.

- Settings > System > Admin Sign In
- Type and confirm password. Click “Apply”
- The next time the Setting menu is opened, it will be locked for changes until the correct password is entered

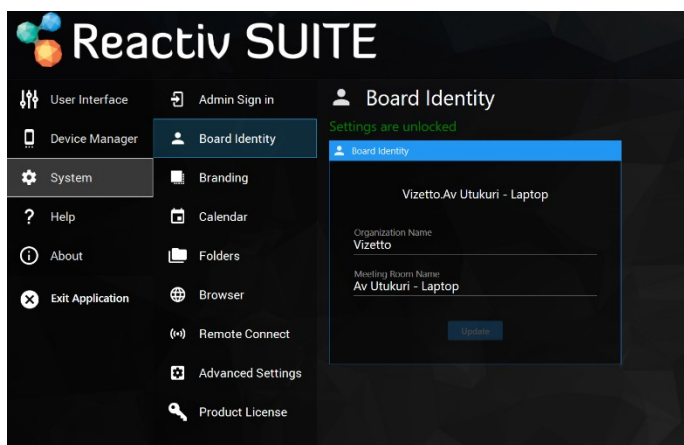


3.2 Board Identity

The Board Identity is used by Reactiv SUITE to identify the board. This identity is used to generate Airplay, Miracast, and Chromecast servers. In addition, this identity will allow the board to access online calendars and manage resources in the future.

- Settings > System > Board Identity
- Set Company Name and Meeting Room Name for the IFP

TIP: Name your IFP in a manner that will help you easily identify and locate your device. For example, set the company name and meeting room name where it will be located.

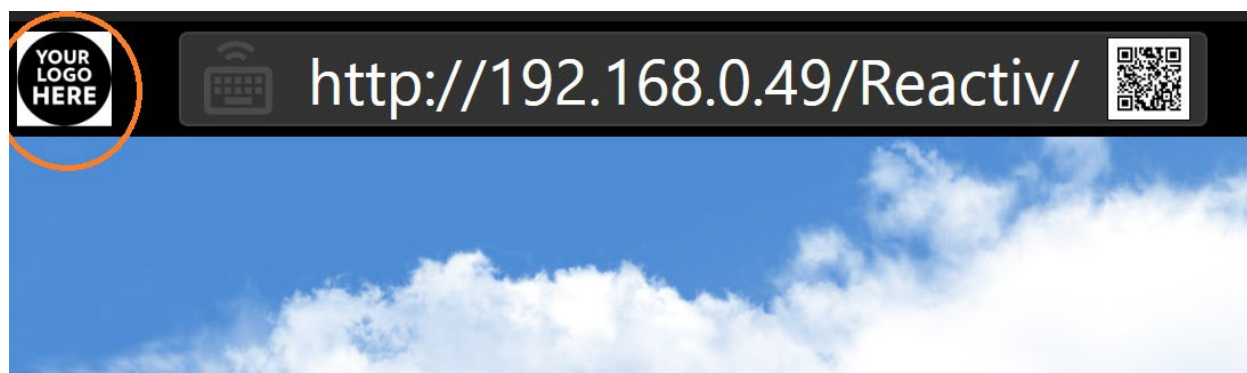
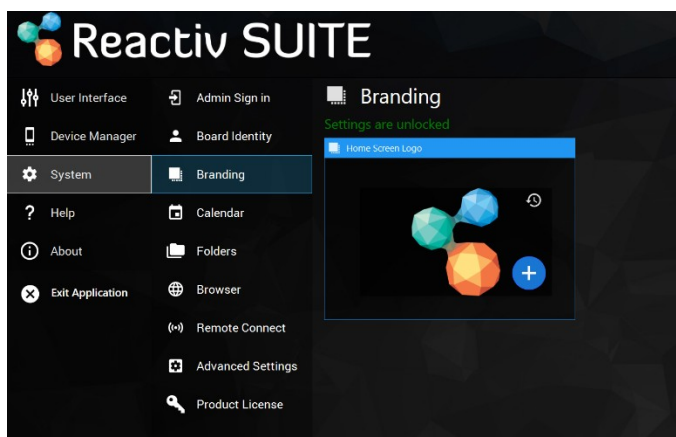


3.3 Brand Identity (IFP version)

Brand Identity can be used to customize the Home Screen and Setting Screen logo to match your corporate branding.

- Settings > System > Brand Identity
- Select the logo of your choice

TIP: Select a square logo with simple colours for optimal effect.

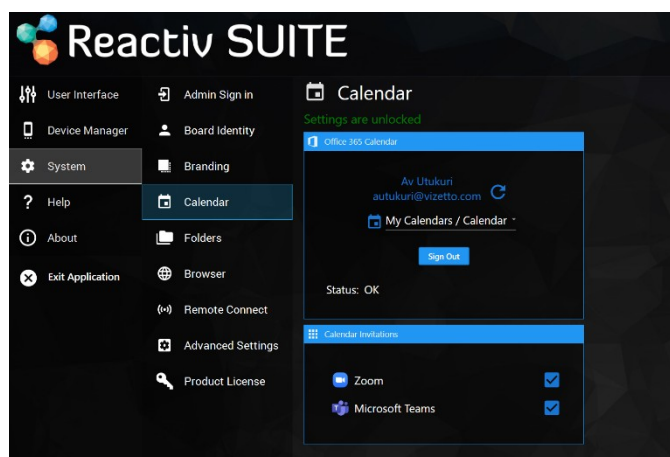


3.4 Calendar Integration (IFP version)

If you assign a dedicated calendar account to Reactiv SUITE, anyone in the organization can simply invite the IFP to a meeting and join using a single click.

Only O365 calendars are currently supported.

- Settings > System > Calendar
- Login to a dedicated O365 calendar account
- Use the dropdown to select a specific calendar or resource
- Enable/Disable the type of meeting that can be joined



3.5 Folder Settings (IFP version)

Reactiv SUITE allows IT to configure where your users can store and access data from. It offers two different options. Public and Private folders.

Public folders and public workspaces are data that is visible to any user using Reactiv SUITE, even if they did not login to Active Directory. These are unauthenticated data folders. This menu will

allow Administrators to lock down what folders are visible to the end users. It is not always ideal to allow the users to save corporate data onto local IFP folders, allow USB keys or use folders such as Desktop or Windows system folders. As such an Administrator can define specific drives or even very specific root folders that will be visible to the end users.

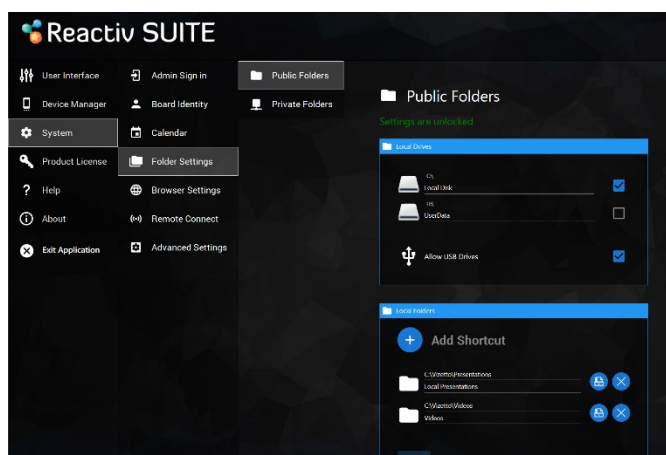
Private folders are restricted to users, unless they login as a user. This allows the IFP to be deployed in a public environment, like a boardroom, and restrict network access only to authenticated individuals.

3.5.1 Public Folders

This menu allows Administrators to curate and restrict what root drives are visible to the end user. Any drive that is mapped in Windows (visible in File Explorer) can be controlled through this menu. Simply enable or disable the drive to restrict end user's access.

Content can be shared on LOCAL DRIVES when:

- Users are working locally and do not need to share content across multiple IFPs
- Users are working with generic content that is used regularly (generic company, sales, and product presentations)
- Users are working in an environment where network connectivity is not guaranteed (on the road, mobile IFP devices that are being moved)



NETWORK DRIVES should be used when:

- Users need to be able to access their private content that is stored on the network
- Users want to move and work from any IFP in the organization. They want to pick up a meeting in any room without restrictions

USB DRIVES can be used when:

- Users are in a public environment and data can be shared using USB drives. Schools are a great example where a large number of students can interface with an IFP in a classroom and individual presentations can be given by simply using a USB drive

TIP: In general, it is not recommended that root level access be given to all drives. Drives, such as the local C:\, should be restricted such that users don't navigate operating system folders, program file folders and other restricted locations. Administrators should restrict and guide users to where content should be stored. In the case of some network drives, such as home directory H:\, root level access can be given. This will allow users to navigate freely without restrictions when appropriate.

In addition, the Administrator can also create custom shortcuts and force users to use specific folders on specific drives using the Local Folders shortcuts.

- Add Shortcut
- Click on File Explorer Button, OR manually enter the directory path

- UNC network paths can also be directly typed into the path field
- An alias can be given to each directory path
- Click Save Button

TIP: Folder shortcuts are ideal for guiding end users directly to content and project locations. For example, local directories on the IFP can be used for generic non-confidential presentations. In this case, a specific folder C:\ReactivPresentations could be created as a shortcut that forces users to only use this folder for locally hosted content. Similarly, various network folders can be setup for “Design Presentations” and “Customer Projects” which are accessible from any IFP and allow users the freedom to move from room to room.

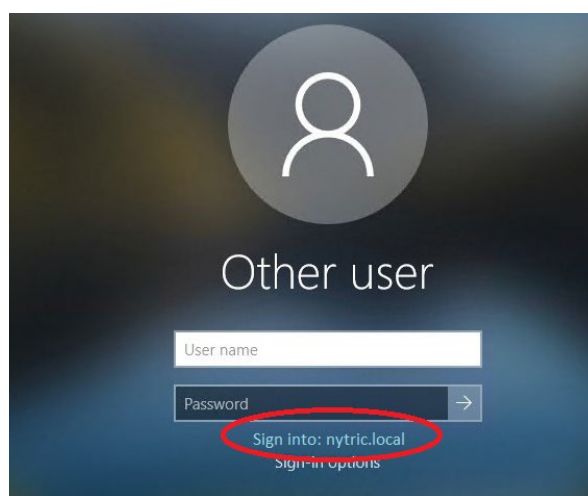
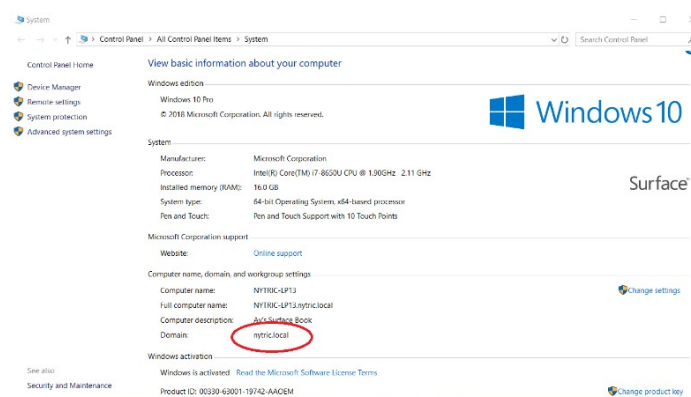
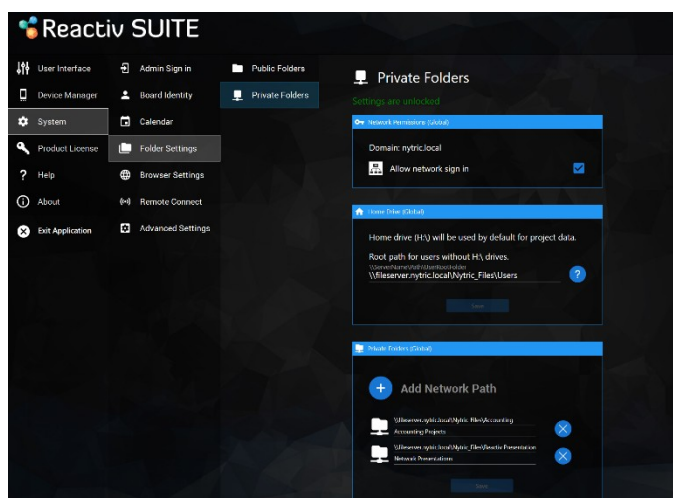
3.5.2 Private Folders

Reactiv SUITE allows Administrators to configure user authentication using existing Active Directory implementation, such that any individual in the organization can login, navigate the network, and access their private data using their login privileges.

Enable Network Access

This menu allows Administrators to configure access and create policies to manage this feature. The first part of the menu allows this feature to be enabled or disabled. If the feature is disabled, the Network Sign-In icon will disappear on the home screen of Reactiv SUITE. In addition to enabling this feature in the menu, Administrators must ensure that two other things are done.

First, the computer must be joined to the domain. In addition, Windows must be signed in using a valid domain user account. If these two steps are not taken Reactiv SUITE will not be able to authenticate users against your domain policies.

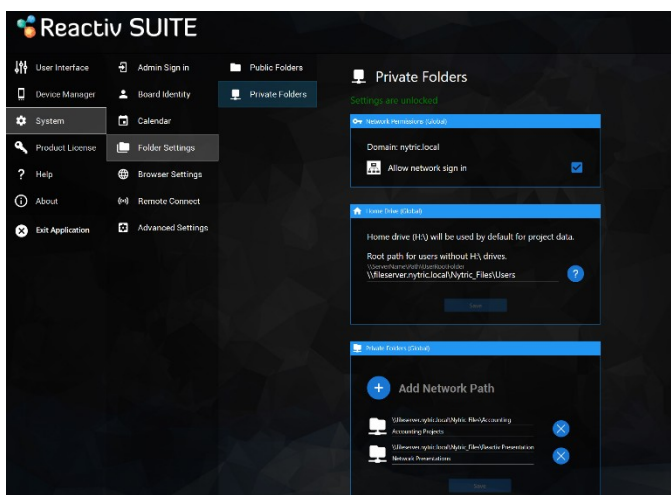


TIP: In order to ensure network security, login to Windows using a very basic, generic Active Directory account that has minimal rights on the network. This will allow Reactive SUITE to be deployed into a public conference room environment without compromising security and allows Reactive SUITE to validate other users as they login to the application.

When a domain user authenticates themselves in Reactive SUITE and creates workspaces, the data related to these workspaces is stored in their default HOME DIRECTORY (H:\). If your organization does not offer a default home directory for every user, a secondary network folder can also be used.

The 'Home Drive' section of this menu allows a root path to be defined. A standard UNC network path can be defined here for any user that requires it.

It should be noted that only data related to workspaces, such as path names, user configuration data, is stored here. Sensitive data, documents or files are never stored as part of a workspace.



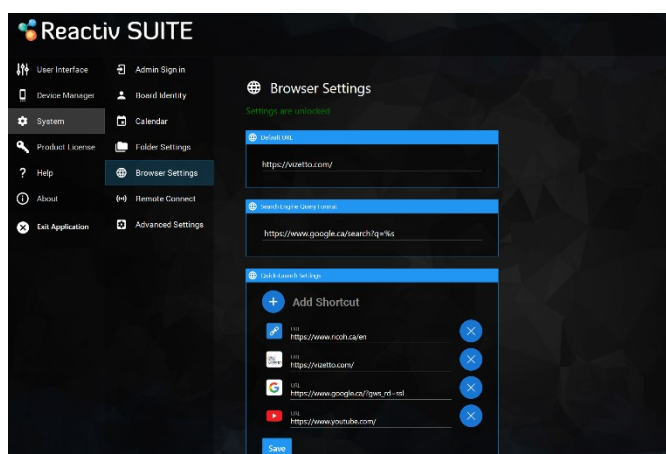
Custom Network Directories

Instead of navigating the entire network in a given organization, it is ideal if users could quickly access commonly used folders and drives to create workspaces. This menu allows the Administrator to create custom shortcuts and force users to use specific folders on specific drives. Simply type the UNC network path that points to the folder on the network. Reactive SUITE will check these network paths against the read/write privileges of a given user that logs in and automatically restrict access.

3.6 Browser Settings & Launcher Shortcuts

This menu can configure the home page for the Reactive embedded browser and configure the links that are displayed on the home screen.

- Settings > System > Browser Settings
- Multiple web shortcuts can be added by clicking the Add Shortcut button
- Icons can also be defined for these various shortcuts
- Custom search engine query can also be configured. Change the preference of the default search by configuring this text field

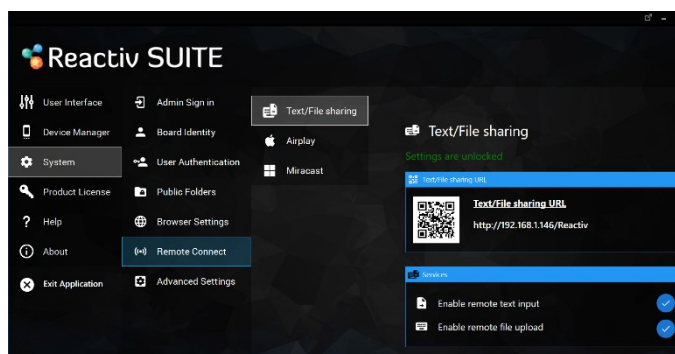


3.7 Remote Connect

Remote Connect features allow colleagues and attendees to interact with the IFP using their personal devices. In room users, that are on the same network, can drop files and send text to the IFP using these remote services. In addition, laptops and mobile devices can also be paired to the IFP to mirror their screens.

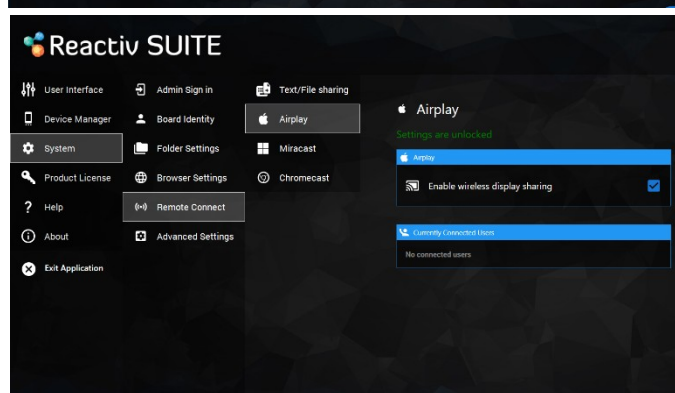
3.7.1 Remote Connect Services (IFP version)

Enable/disable remote text input and file upload. This feature allows users to enter text and share files with IFP through the URL that is located on the top bar.



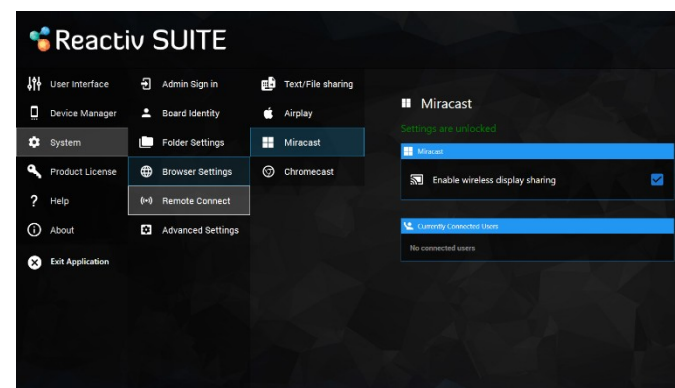
3.7.2 Airplay

Enable/disable wireless display sharing by users through Airplay. This functionality allows any Apple device in the room to cast its screen directly into Reactiv SUITE.



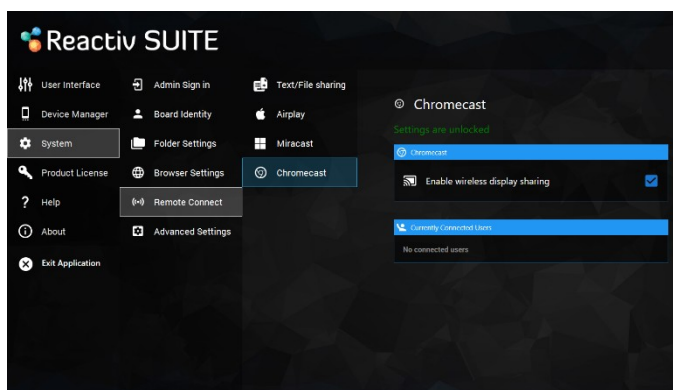
3.7.3 Miracast

Enable/disable wireless display sharing by users through Miracast. This functionality allows any device that supports Miracast (Windows 10 and specific Android devices) to cast its screen directly into Reactiv SUITE.



3.7.4 Chromecast

Enable/disable wireless display sharing by users through Chromecast. This functionality allows any device that supports Chromecast (Chromebook and specific Android devices) to cast its screen directly into Reactive SUITE.

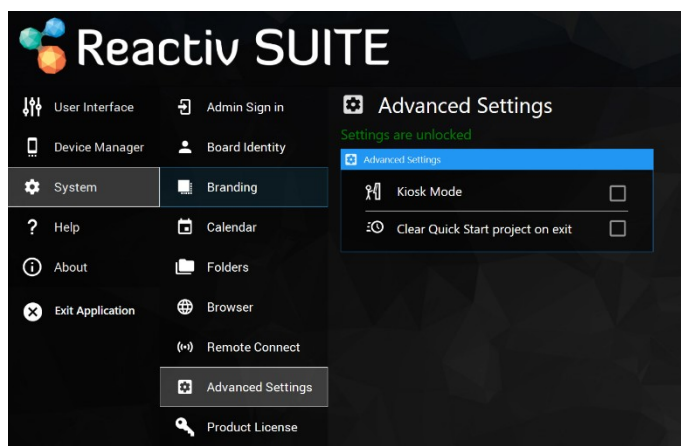


3.8 Advanced Settings

3.8.1 Kiosk Mode

Enable Kiosk Mode to lock down the system such that users are prevented from interacting with the operating system outside of the Reactive SUITE's UI. In public environments, it is ideal to lock down the PC such that users don't have access to Windows.

- Settings > System > Advanced Settings > Kiosk Mode
- Check to enter Kiosk Mode



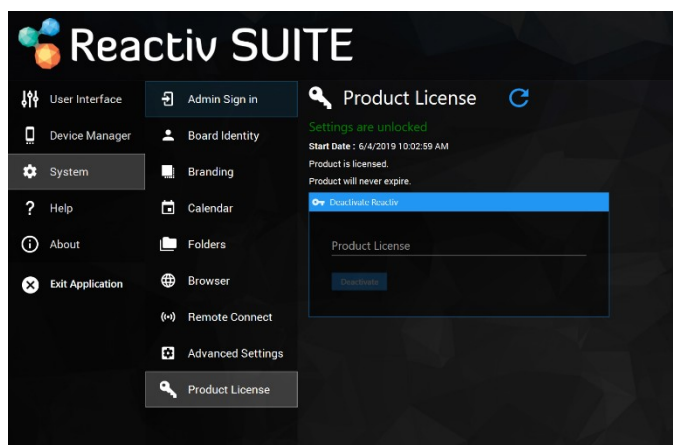
FEATURES:

- “Exit Application” button will be deactivated.
- “Fullscreen Mode” toggle will be deactivated.
- “Auto Boot” – whenever the device enters Sleep Mode through Motion Sensor or is rebooted due to power cut, it will automatically restart and run Reactive SUITE on Kiosk Mode.

3.9 Product License

This menu allows you to check on the status of the license, expiry date and also deactivate the license if it is to be moved to a different PC.

- Settings > System > Product License
- Type in the license key from your records and click 'Deactivate'
- This license key can then be activated on a different PC

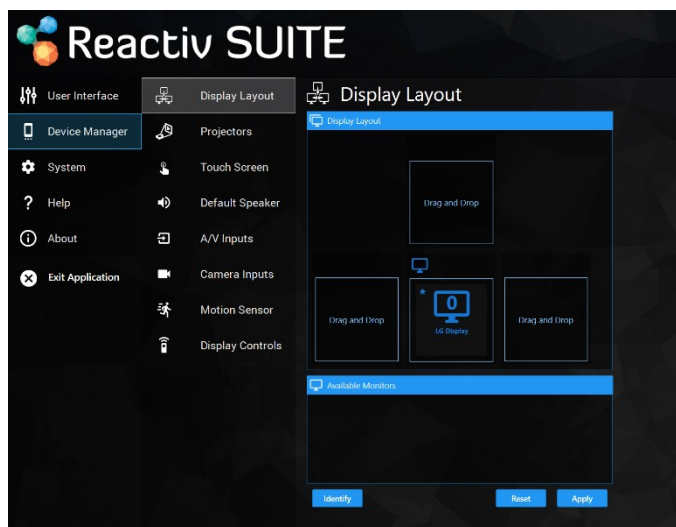


4.0 Device Manager

4.1 Display Settings

Reactiv projector and secondary screen integration will allow you to easily extend or mirror your display to any available monitor or projector with the touch of a button.

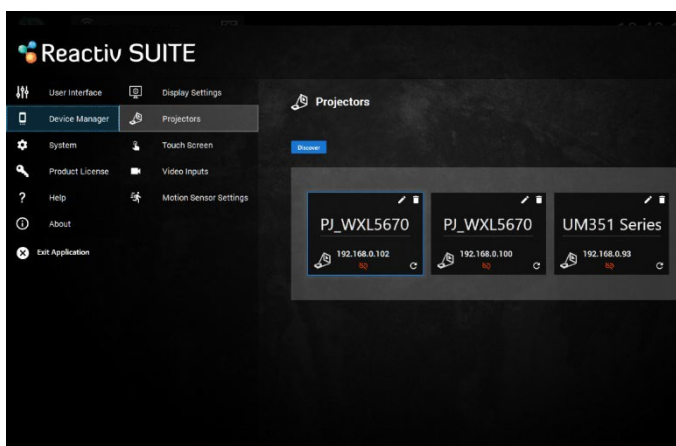
- Settings > Device Manager > Display Settings
- Drag any monitor you'd like from the available Monitor section and drop it into the Display Settings section to determine the Main and Secondary Monitor
- Set up to three screens to cast and extend Reactiv SUITE content



4.2 Projectors

Control and manage projectors that are connected to your local network and supports the PJLink Protocol:

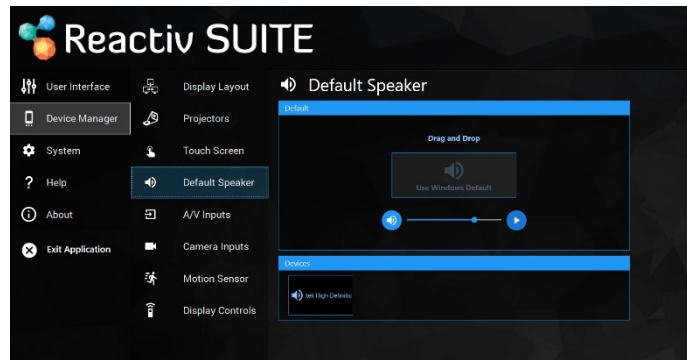
- Settings > Device Manager > Projectors
- “Discover” to find projectors that support PJLink Protocol
- Select projector for connection



4.3 Default Speaker

Reactiv SUITE allows the user to configure which speaker will be used by default. If a specific speaker is selected, Reactiv will monitor and overwrite any Windows selection changes. This is ideal when various devices are being connected and disconnected and Windows is changing the default speaker without the user being informed.

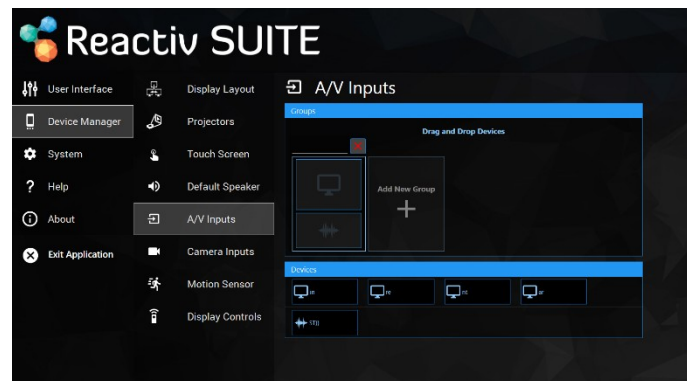
- Settings > Device Manager > Default Speaker
- Drag and drop the speaker from the 'Devices' list to select
- If no device is selected, the Default Windows speaker will be selected



4.4 A/V Inputs

Reactiv SUITE supports most common video capture devices that stream video from external sources. Devices such as: HDMI input capture devices, Document Cameras, Microscopes and many other video devices can be selected, grouped and configured in this menu.

- Settings > Device Manager > A/V Inputs
- Drag Video and Audio Inputs from the available devices list and drop them into the Group section to bind them together and enable them for use.
- Each of the Video Inputs can also be labelled to identify them to the end user.



4.5 Camera Inputs

Reactiv SUITE supports most standard web and conference cameras. These cameras can be used as Picture-In-Picture (PIP) sources in a workspace and as conference call sources as well. This menu allows the user to select, group and configure these devices.

- Settings > Device Manager > Camera Inputs
- Drag Video and Audio Inputs from the available devices list and drop them into the Group section to bind them together and enable them for use.
- Each of the Video Inputs can also be labelled to identify them to the end user.

