3Sixty Touch Panel User Guide

The 3Sixty is controlled via a touch panel, situated on the table in the control room, allowing access to controls for all of the equipment that is routinely available within the space from a variety of screens, suited to different complexities of use.

When entering the space, the touch panel may be in power saving mode, which will blank its screen. In order to 'wake it up', either touch the screen or wave your hand in front of it.

1) Start Screen

When the screen wakes up, it should show the Start Screen, shown in figure 1 below:

Figure 1: The Start Screen

If they system is showing a different screen (caused by someone not having turned the system off properly) then pressing the **Back** button on whatever screen appears until the panel returns to the Start Screen.

The **Simple Settings** button turns the system on in a mode which is designed to give easy access to the functionality of the 3Sixty, such as showing PowerPoint or video clips.

The **Advanced Settings** button turns the system on in a mode which gives access to fine-grain control of all aspects of the 3Sixty, allowing a user to configure it to their exact requirements. This makes it more complicated to use, but more flexible.

The **Off** button turns off the system, including the projectors, speakers, the PCs, etc.

2) Simple Settings

Entering the Simple Settings mode will turn on the Projectors, Speakers, Main PC and other ancillary equipment. The touch panel will show a holding screen while they begin to power up, during which the PC will be connected to the Projectors and Speakers. Once the system is ready for use, the touch panel will show the Simple Playback Screen, shown in figure 2 below:
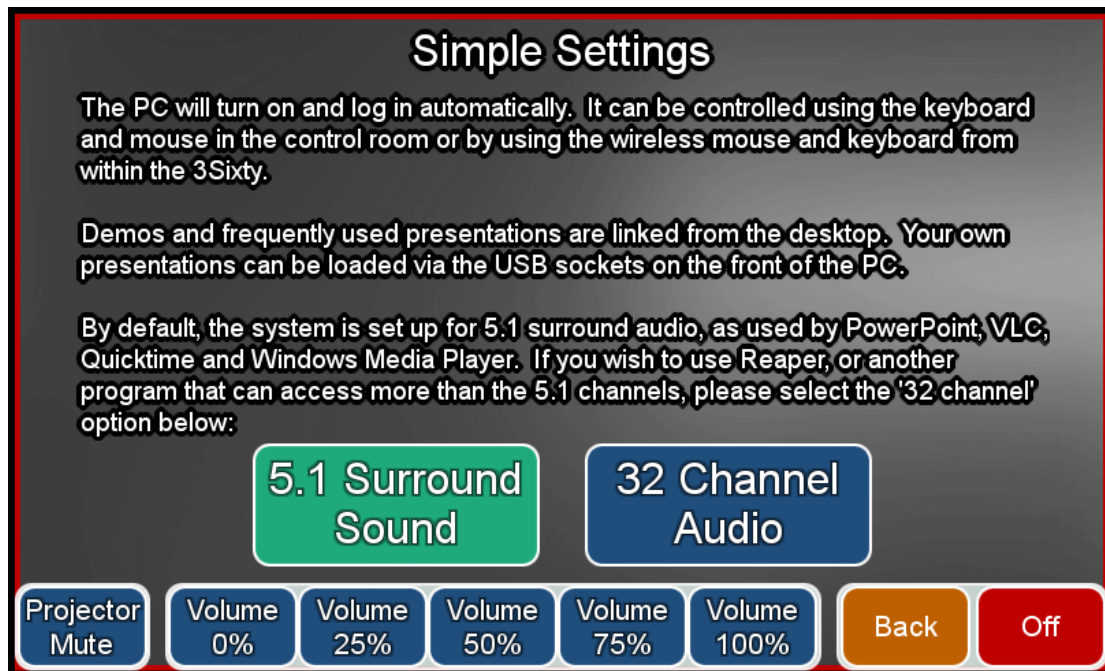
Figure 2: The Simple Playback Screen

When Simple Playback mode is entered, the **5.1 Surround Sound** button will be highlighted (Highlighted buttons show in green). This indicates that the Main PC's surround sound output is routed to the speakers, meaning that the system is in a suitable state for playing back PowerPoint, web pages (eg YouTube), or stand-alone video files.

Pressing the **32 Channel Audio** button will disable the PC's surround output, instead enabling its 32 channel professional audio. The 32 channel audi is generally not suitable for use with consumer applications, but provides access to all of the 3Sixty's speakers for use with audio sequencers, such as Reaper.

A useful guideline as to which of the two audio settings is appropriate is: If you use the software at home or on your desktop at work the **5.1 Surround Sound** setting is most likely to be suitable for using it in the 3Sixty. If you use the software with professional audio equipment, such as in a studio or at an audio workstation then the **32 Channel Audio** settings may be more appropriate. If you are still not sure which option to choose, try them both.

3) The Quick Bar
The Quick Bar, shown in figure 3 below, is available in both the Simple and Advanced modes. It gives rapid access to some of the most useful settings of the system:
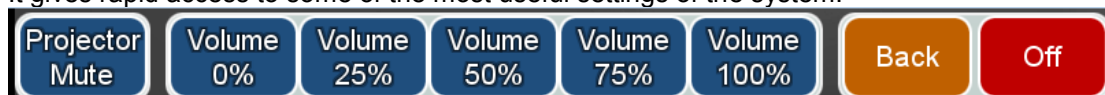

Figure 3: The Quick Bar

The **Projector Mute** button will mute all of the projectors. This is useful if you need to, for example, swap between two presentations and do not want the audience to see you doing so. It works particularly well if the start and end of presentations is a black screen, as then the audience is unaware that the signal has been interrupted.

The **Volume** buttons are a broad master level control; they are intended to allow quick changes in volume, for example if something is much too loud. Their exact functions are:
        0% = Mute
        25% = 30dB attenuation
        50% = 20dB attenuation

75% = 10dB attenuation

100% = 0dB attenuation

For fine tuning of volume, the controls on the audio source (e.g. Windows volume on the PC) should be used.

The **Back** button will return the panel to the Start Screen, without turning off any equipment or changing any settings. It is particularly useful for changing from the simple mode to the advanced mode in the event that greater control of the system is required.

4) Advanced Settings

The Advanced Settings Screen, as shown in figure 3 below, is more complex than the Simple Settings Screen, giving greater control over the hardware that drives the 3Sixty. It also allows the saving of the 3Sixty's state; so that once the space is properly configured that configuration can be recalled easily.
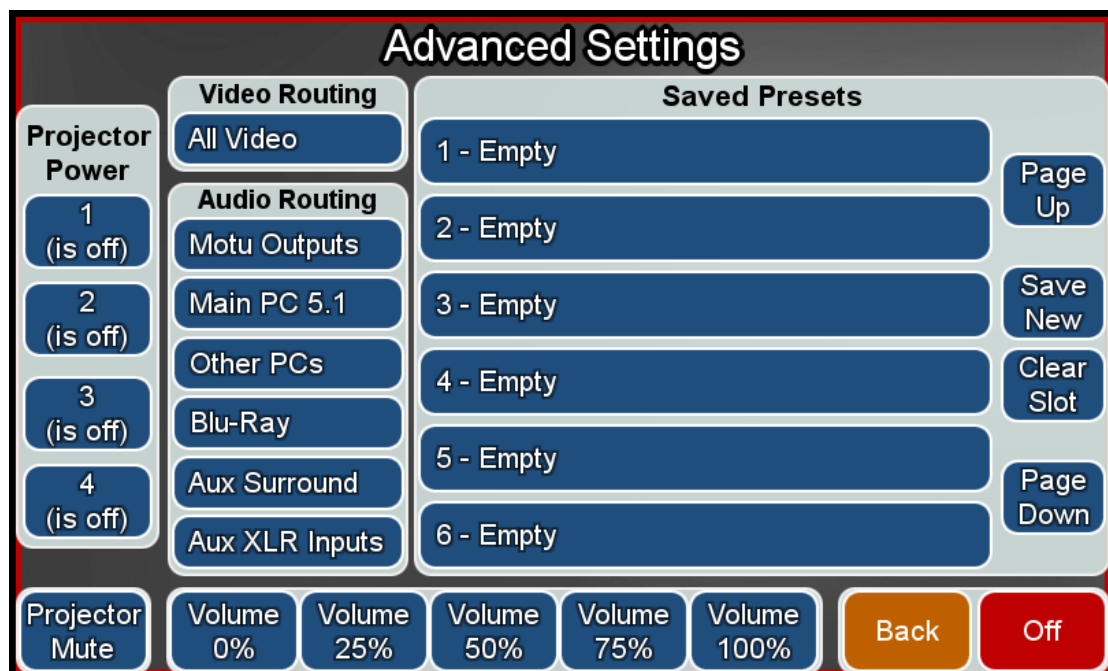

Figure 4: The Advanced Settings Screen

4.1) Projector Power Controls

The **Projector Power** buttons indicate whether each projector is turned on or off. Pressing one of them will toggle the power, so a powered down projector will be turned on or a projector which is turned on will be turned off.

When turning a projector on or off, there is a delay as the lamps warm up and cool down. This means that when a projector's power state is altered there will be a lag of several minutes until it is ready for use. If a projector is in this waiting state and one of the power buttons is pressed, the system will send the appropriate command once the projector is ready to receive it. Eg, if a projector is currently cooling down, having been recently turned off, the button will show that it is turned off. Pressing the button will cause it to turn back on once it has finished cooling down. In this case, the button will alter to display that the projector is on, as that is the state that the projector will now return to.

4.2) Video Routing

The video routing screen (shown in figure 5, below), accessed by pressing the **All Video** button, allows a choice of which source to send to which projector. If one group of sources, such as the main PC outputs, is to be shown on all of the projectors, the **1:1 Routing** buttons allow this to be achieved with one press. Alternatively, a mixture of individual sources (e.g. screen 1 of the Main PC, Screen 2 of the Backup PC, etc) may be routed to the screens or,

when using digital inputs (those on the left of the screen), one source (e.g. Aux Digital input 1) may be routed to multiple screens, causing the same image to appear on each of those selected.
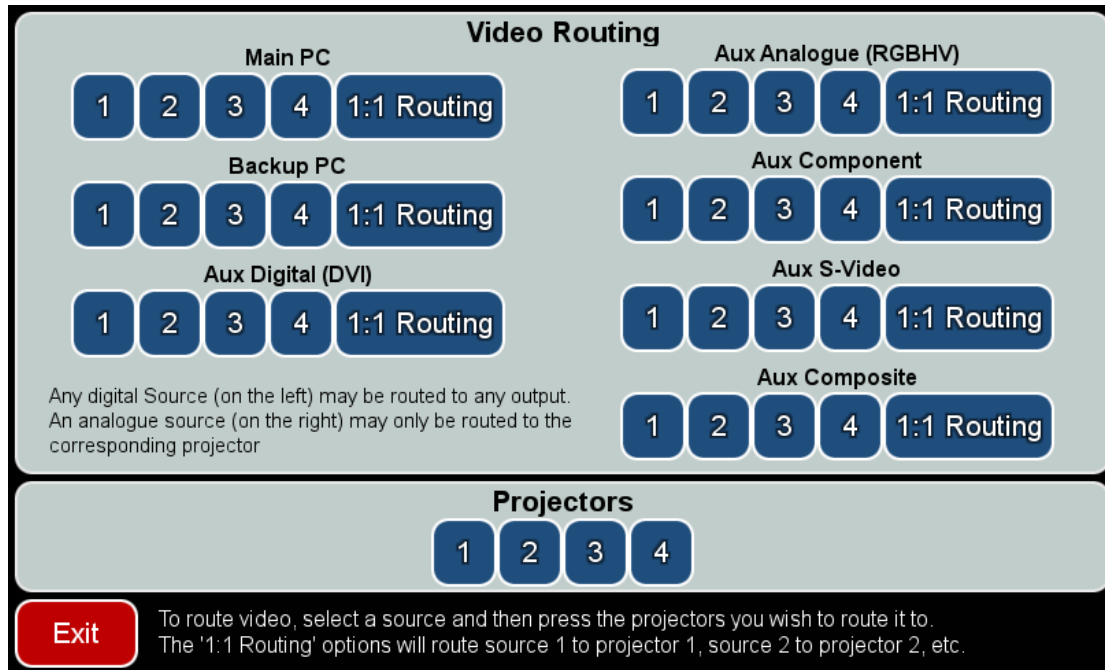

Figure 5: The Video Routing Screen

To route an input to a screen, press a **source button** (it will highlight) and then press the **projector button** that the source is to be shown on. If a source is to be shown on multiple screens, select the source and then press each of the projectors it should be routed to – the source will stay highlighted until another is chosen.

4.3) Audio Routing
Each audio routing screen - such as the Motu Outputs screen, show in figure 6 below – allows the routing of audio from a particular source, or group of sources, to the speakers. It also allows the audio to be routed to 16 of the Main PC's Motu inputs, hence enabling the capture of any performances in the space.
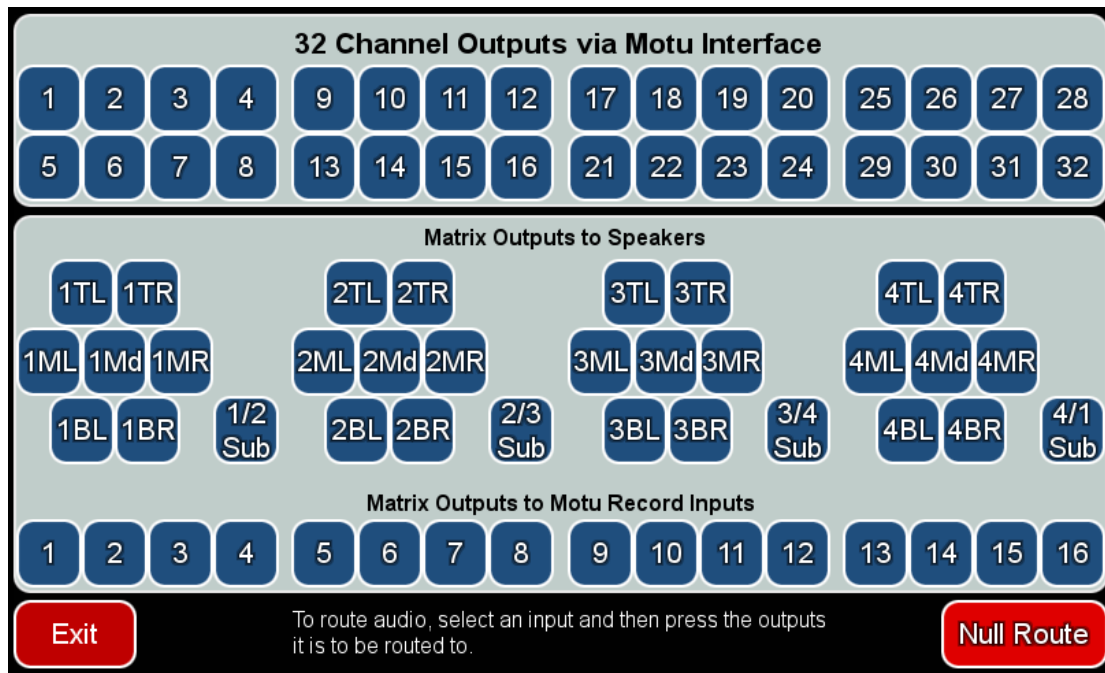
Figure 6: The Motu Outputs Routing Screen

To route audio from a source, such as one of the Motu outputs, press the **source button**; this will cause the button to highlight. Any outputs that the source is routed to will also highlight. Once a source is highlighted, it can be routed to any speaker or record input by pressing the **speaker button** or **record input button**. If the source is already routed to a destination, and that destination's button is pressed, the routing to that destination will be removed (and the destination's button will lose its highlight).

The **Exit** button will cause the panel to return to the Advanced Settings Screen.

The **Null Route** button will disable all audio routing. This button should be used with care (a confirmation popup means that it is difficult to activate by accident) but can be useful if a completely different audio configuration is required to that which is currently in place.

Some audio sources, such as the Main PC's 5.1 surround output (controls for which are shown in figure 7, below) or the Blu-Ray player, need to be activated before they can be routed to the speakers. To do this, press either the **Activate** button or the button with the source's name on at the top of the screen.
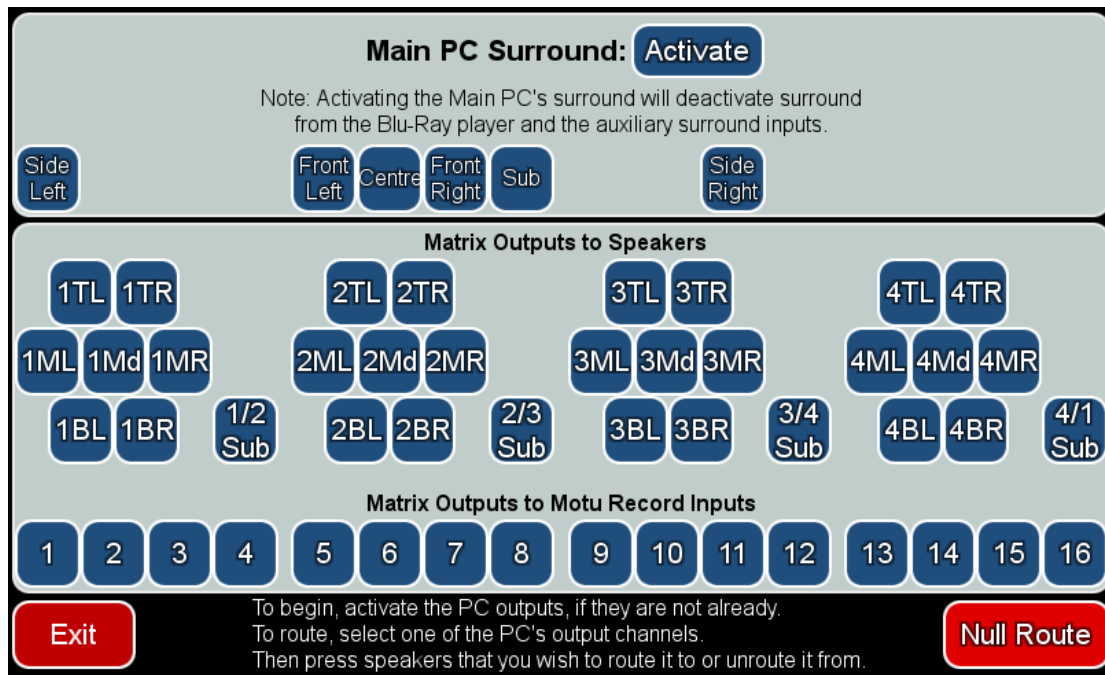
Figure 7: Controls for the Main PC's 5.1 surround output

For 5.1 surround sources, such as the Main PC's surround sound, the outputs are laid out so that they are above the speaker that they are normally routed to. E.g. in figure 7 the **Front Left** surround output is above the **2ML** speaker button and the **Side Right** output is above the **3MR** speaker button as that's where they would ordinarily be routed.

4.4) Saving and Recalling Presets

To save the system's current configuration, press the **Save New** button, so that it highlights, and then select a **save slot**. A keyboard will be displayed, so that the slot can be named – names should include a suitable description and a way of identifying who has created the saved preset. Saved presets may be overwritten with updated ones as required - however, it is suggested that other people's saved presets are not overwritten. More save slots can be accessed using the **Page Up** and **Page Down** buttons as required.

Saved presets can be recalled by pressing the appropriate **save slot**.

Saved presets will be automatically cleared if they are not used for a month.