

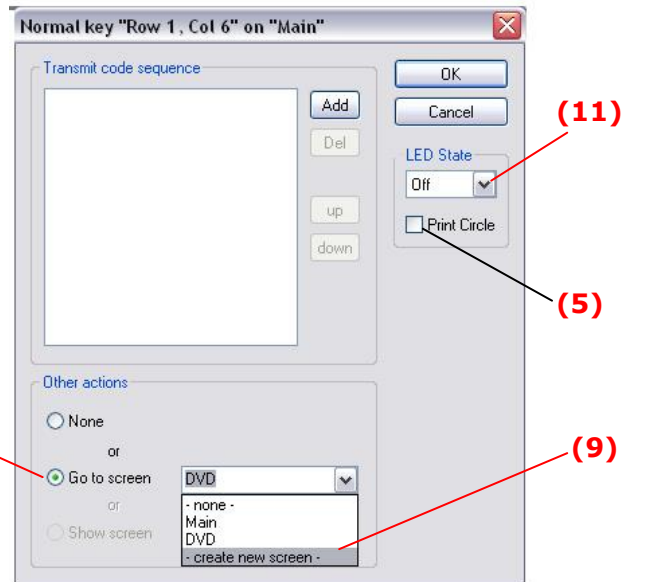
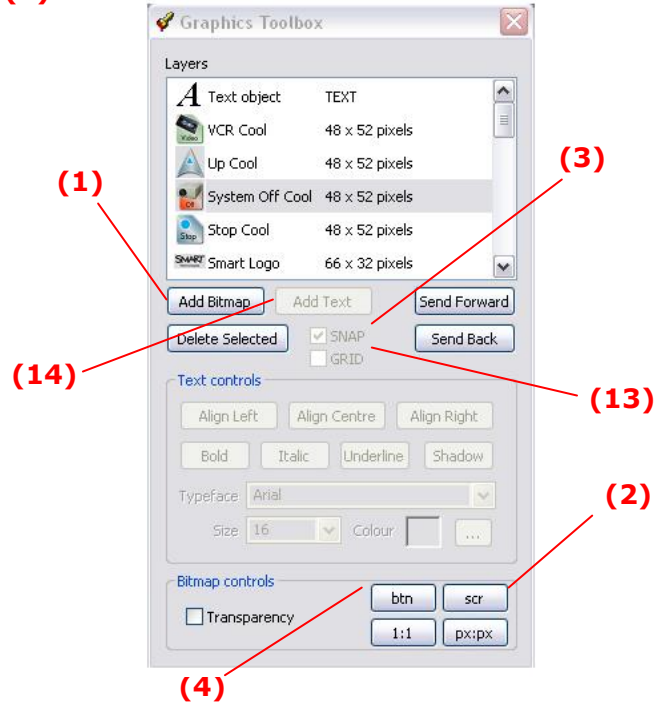
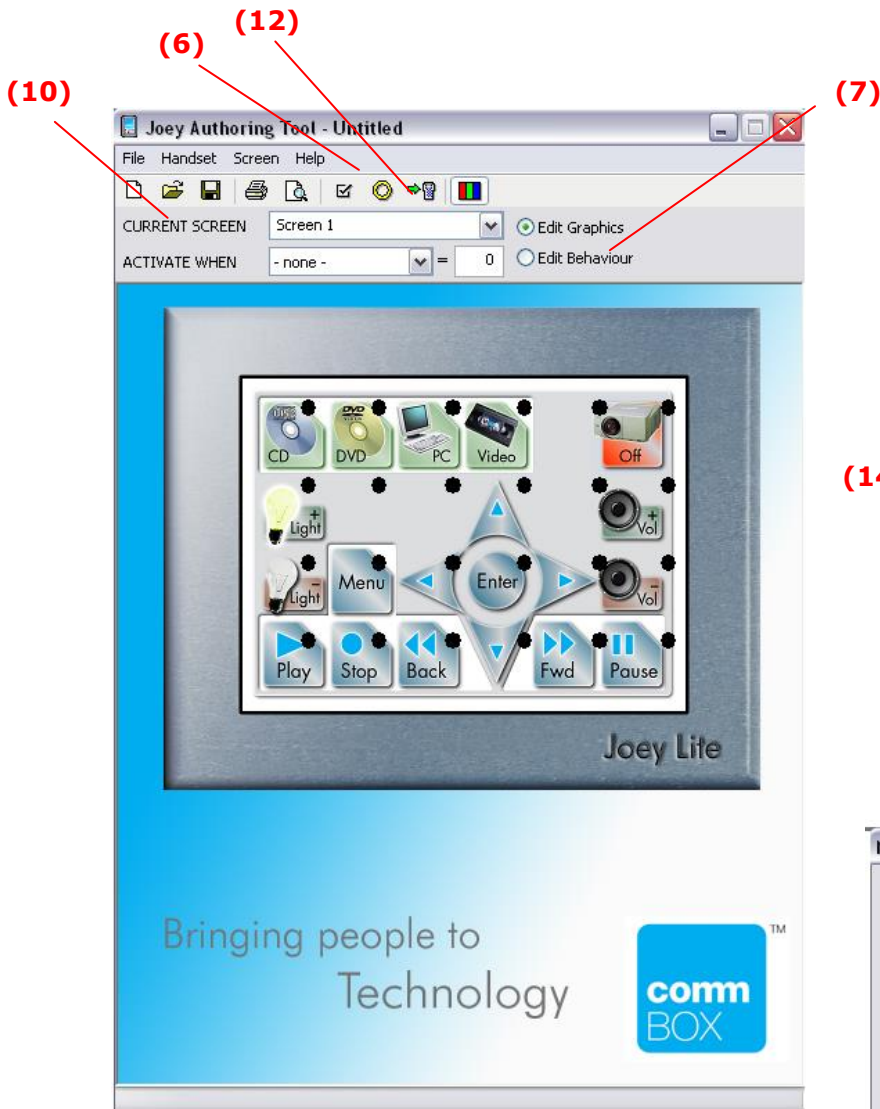


# Control

Simplifying technology



## ZTT0855 Joey Lite II Instruction Manual



The **CommBox Joey Lite** is the world's most affordable, simple to program and install control system.

**CommBox Joey Lite** is a complete control package, capable of Infra Red and RS232 control including macros and is 100% customisable, both graphically and functionally.

### There are 3 steps to programming CommBox Joey Lite.

- 1) Assemble Graphics
- 2) Add functionality
- 3) Print and download

## Step 1 - Assembling the graphics

*Note that when program opens, the first blank screen is already loaded. It is ready for you to add graphics. You may even rename the first screen - suggestion - 'Main'.*

1) Open the Joey Control System Editor program and choose the model you wish to program, including the device orientation (landscape or portrait).

2) In order to load graphics - Open a Windows Explorer window (right click 'Start' and click 'Explore').



Navigate to your graphics library:

<C:\Program Files\CommBox\Joey\Graphics Library>

You should now have the Joey Editor program and a Windows Explorer window open together.

*You could use the 'Add Bitmap' function (1). The standard Windows Explorer window however, allows drag and drop and multiple selection functionality.*

- 3) Navigate to backgrounds. Choose a suitable background and drag it onto the Joey Lite screen. You may need to scale the image to screen size (2).
- 4) Navigate to the button library. Drag in the desired buttons. You can make multiple selections by using the Ctrl key.
- 5) Buttons will snap into place if the 'Snap' (3) feature has been activated.
- 6) Once in place, highlight each button and click 'Btn' (4). This will automatically scale the button to the correct size.
- 7) If you want your printed image to contain LED indicator circles, go into 'Edit behavior' mode, double click the desired button and select 'Print Circles' (5).

*Normally, you would use a LED to indicate what menu screen or source is selected.*

## Step 2 - Adding functionality

### A) Add Extra screens.

**You need to be in 'Edit Behavior Mode' (7) to assign functionality.**

- i) Double click the first source icon that you wish to use to navigate to a new menu. Select **Go to Screen (8)**.
- ii) Drop down the box and select **Create New Screen (9)**.
- iii) Create a new screen. Rename it to correspond with the source you wish to select. *(Test the screen by clicking the source icon once – Does it work? If yes, the **current screen indicator (10)** will show as your new screen).*
- iv) Double click the source icon again and select its LED to be On **(11)**. **This LED will now indicate the screen you are on.**
- v) Repeat the above steps for the remainder of the screens.

### B) Add IR/RS232 codes

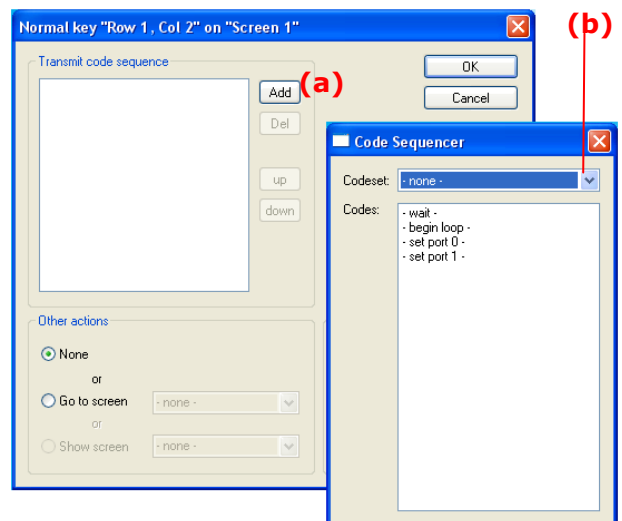
- i) Select the screen and double click the button you wish to program. You can then add the control codes by using the 'Add' **(a)** and 'Load new codeset' **(b)** functions'.

**TIP:** A Macro can be created under any button by adding multiple IR and RS232 codes with time delays in between as needed. **Avoid long time delays** as they will "lock out" the panel for the duration of the delay and may lead the user to believe the panel is not working.

**TIP** If a button will always do the same thing, such as with volume or source selection keys, it's a good idea to turn it into a 'Hot Key' **(6)**. By doing this, you only need to program the button once. This button will now have the same function without having to reprogram no matter what menu you are on.

### Why add extra screens?

The purpose of multiple screens is to allow you to change the functions of the buttons depending on what device is being used at the time. For example, pressing the DVD button would select the video input on the projector and go to a new screen. On this screen (call it "DVD"), program the DVD led to light and the buttons to operate the DVD player.



### About IR and RS232 codes and codeset files....

IR and RS232 control codes for controlling projectors and other devices are transmitted from the Joey Lite by loading **codesets** as required from the library on the Command Systems website. Each codeset contains a set of commands. A codeset for, say, a Sony VCR will usually work with most models from that manufacturer.

If you find that the device you wish to control is not in the library, you can use **CommBox Code Manager** to sample the original remote (for IR codes) or enter the control data from the device's manual for RS232 devices. Code Organizer can even be used to test your RS232 codeset by connecting directly to the device and can import IR code data from other manufacturers' formats.

### C) Add "Automatic shutdown" macro

i) Select **Handset** -> **Device Options**

ii) In the **Timeout (minutes)** drop down list select the time after which Joey Lite will send "shutdown macro" commands. You can also type in the window a number from 1-240 minutes as a timeout. For schools, we suggest you use the time of a double period plus 10-15 minutes extra.

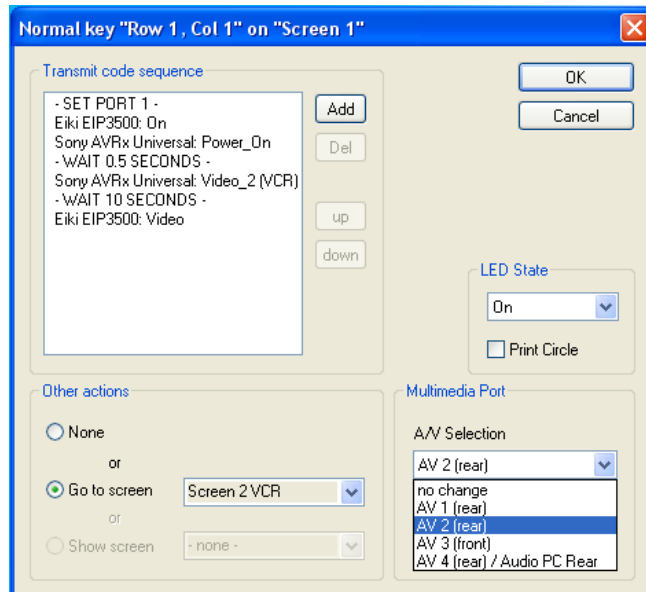
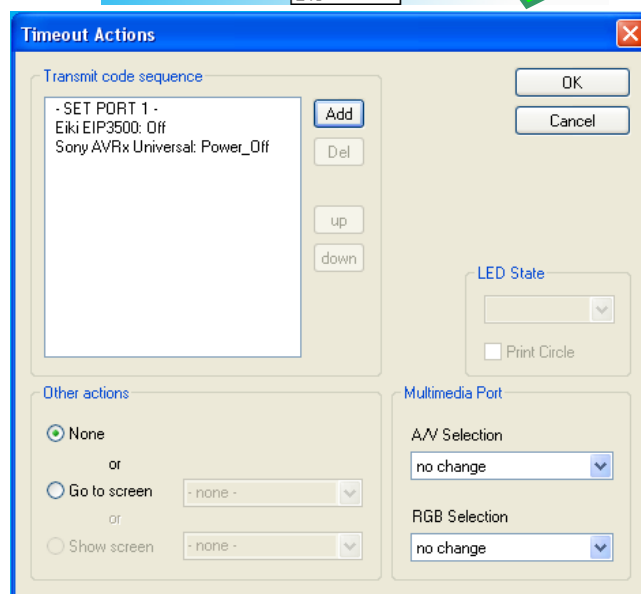
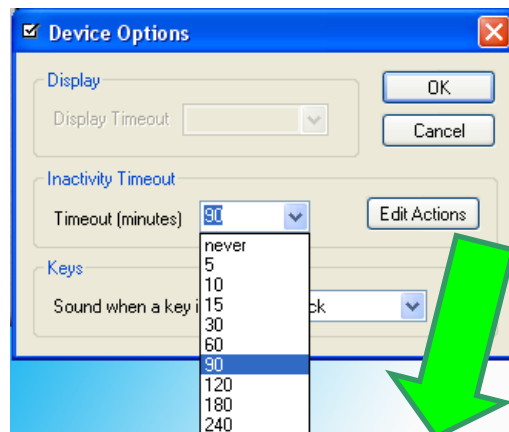
This time is measured from the last keypress or PIR movement detection, so that pressing a key or triggering a movement detector will reset the time to shutdown to the value you choose.

iii) Select **Edit Actions** and add IR/RS232 codes to be executed to shutdown the system as per the example shown here.

### D) Multimedia Port control

i) If your Joey Lite is connected to a CommBox Multimedia Port, select AV 1, 2, 3 or 4 in "A/V Selection" dropdown menu to switch the corresponding AV input to the projector or other display device. If switching of RGB inputs is required select "RGB front" or "RGB back" in "RGB Selection" dropdown menu and then select which audio should be selected by selecting appropriate AV input in "A/V Selection" dropdown menu.

**TIP:** If you are sending RS232 codes, you can choose to send them from either the programming port (port 0) or the auxiliary port (port 1) An option to do this displays in the codeset drop-down list. The result is as shown in the examples on this page. This allows you to control 2 independent RS232 devices.

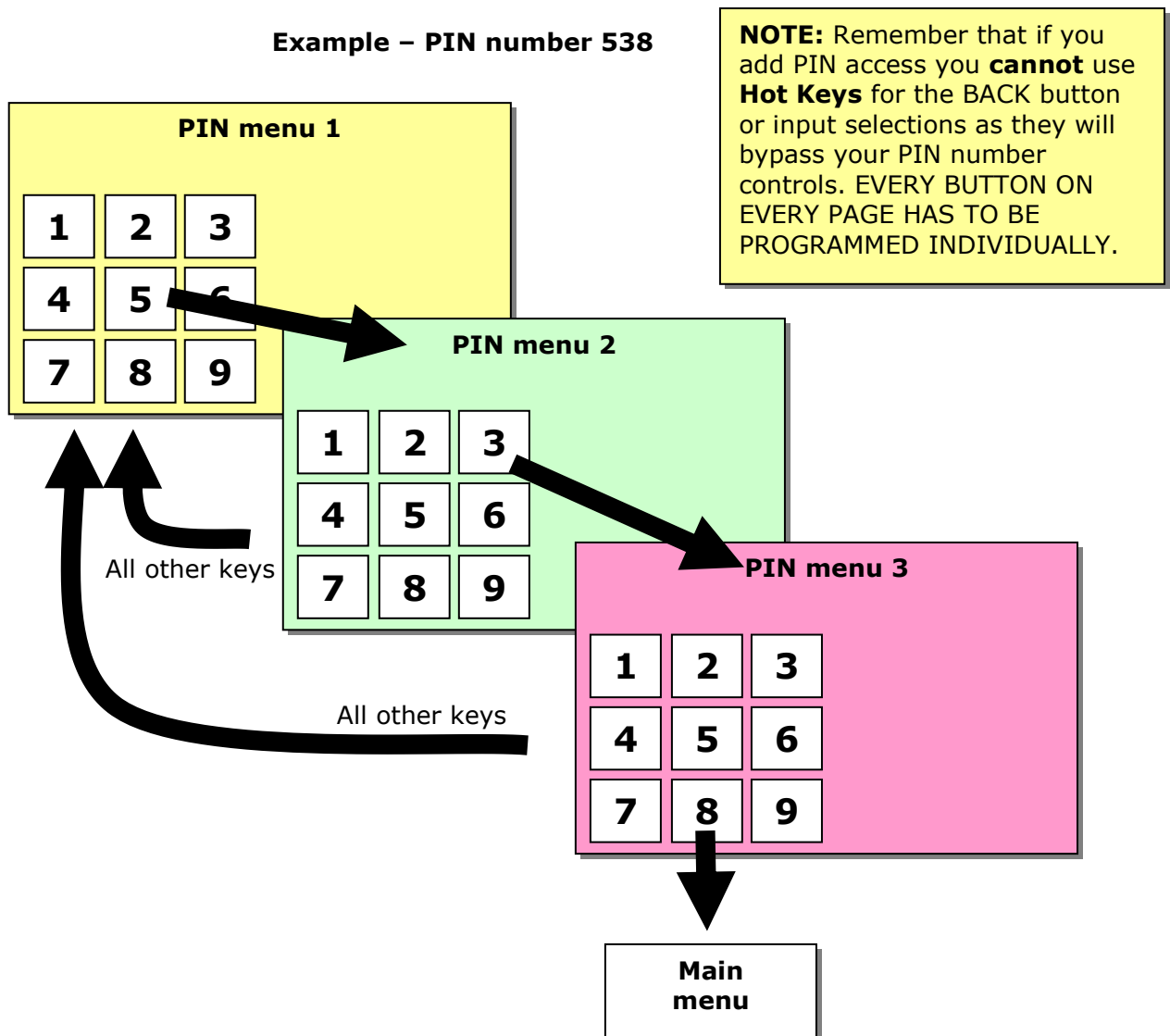


## E) Adding PIN access to your system

You can protect your projector from unauthorised use by requiring that a number is keyed in to the panel before the controls are activated.

PIN access is easily achieved by firstly setting up a screen for each number of your PIN.

Next, arrange all "wrong" button presses to go back to the first screen. A "right" button press takes you to the next PIN number screen.



**The following page has a step-by-step description of how to set this up.**

## How to set up a PIN number

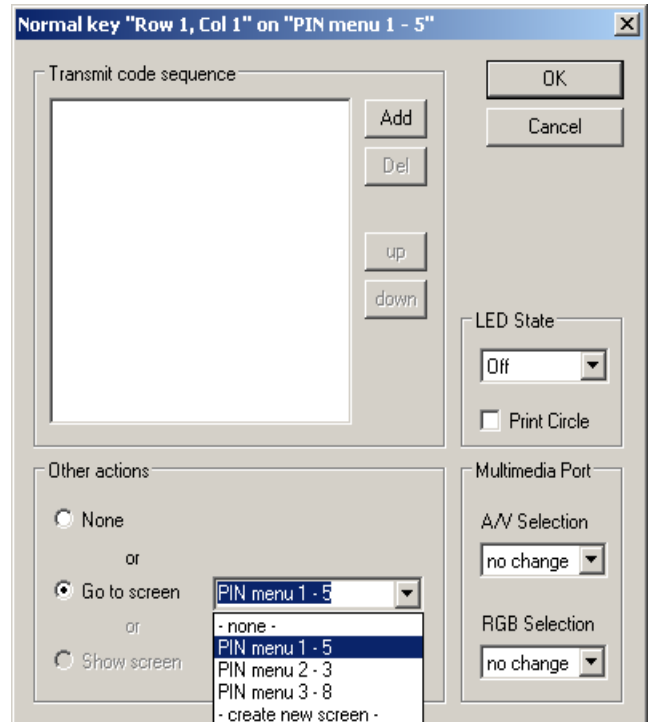
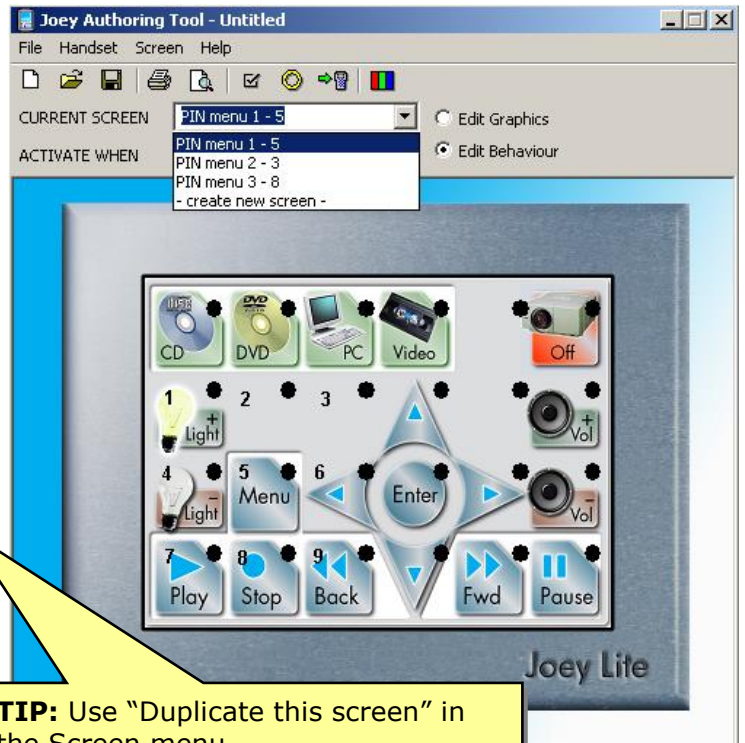
**Our example PIN number will be 5 3 8.**

- i) Create graphics part of your configuration. Add numbers to the keys as shown.
- ii) To help you remember the PIN number within your program, name your first screen **PIN menu 1 - 5**.
- iii) Using **CURRENT SCREEN** dropdown list (shown on the right) select **-create new screen-**. Create screen **PIN menu 2 - 3**. Repeat the process and create **PIN menu 3 - 8** screen.

You should now have three uniquely named PIN number screens.

- iv) Change to **Edit Behaviour** mode.
- v) Select **PIN menu 1 - 5** screen.
- vi) Program ALL buttons to **Go to screen PIN menu 1 - 5**.
- vii) Change **5** button to go to **PIN menu 2 - 3** screen.
- viii) Select **PIN menu 2 - 3** screen.
- ix) Program ALL buttons to **Go to screen PIN menu 1 - 5**.
- x) Change **3** button to go to **PIN menu 3 - 8** screen.
- xi) Select **PIN menu 3 - 8** screen.
- xii) Program ALL buttons to **Go to screen PIN menu 1 - 5**.
- xiii) Change **8** button to **Go to screen -> create new screen**. Rename that screen to **MAIN**.

To test, select **PIN menu 1 - 5** screen.  
Click once on buttons 5, 3, 8.  
Check that **Current screen** is now **MAIN**.  
Start programming the remainder of your configuration.



## Step 3 - Print and Download

### i) Print

- 1) Choose **File > Print Setup** and select desired printer, paper size and layout.
- 2) Click **Print**. You may wish to preview prior to printing.
- 3) Note that more than one copy can be printed per page. Simply select "many per page" under Print Settings.

### ii) Download

- 1) First go to **File > Preferences** and ensure you have the correct Com Port selected.
- 2) Plug programming cable into PC and choose **Handset > Download** or click the shortcut download button. (The Joey Lite must be powered to accept a download.)
- 3) Click download **(12)** to begin.

## Other features to note

### 1) Codeset find and replace.

This feature highlights the power of templates. Using this function, you can quickly and easily change an existing program to suit a different brand of DVD player, for example, by globally replacing all occurrences of its codeset with another. Create a new program in under a minute!

Can be found under:

### Handset>Advanced Functions>Replace Codeset

**2) A Grid (13)** can be turned on to help graphic placement.

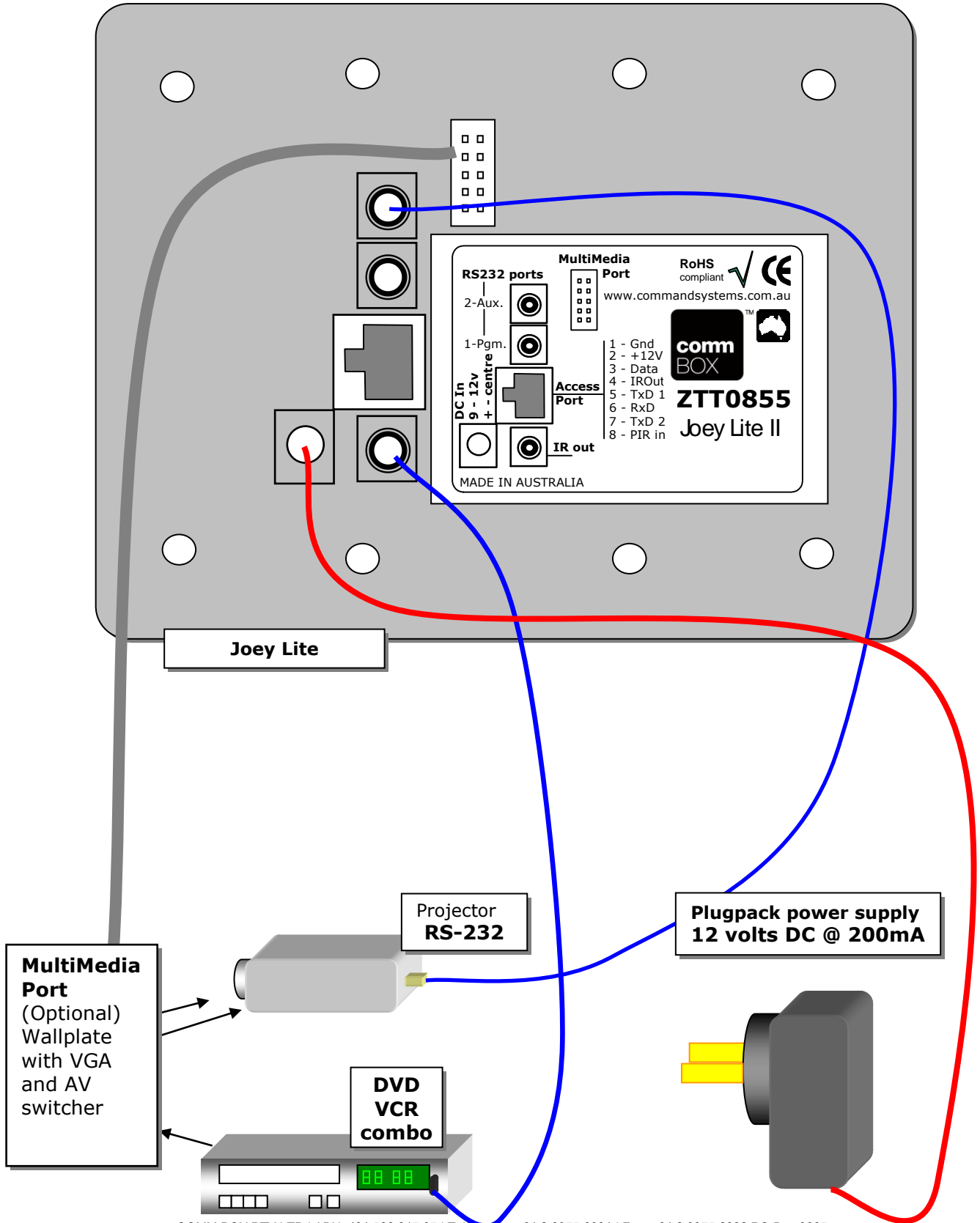
**3) Text (14)** can be added directly to graphics

**4) Holding Ctrl key down shows control codes.**

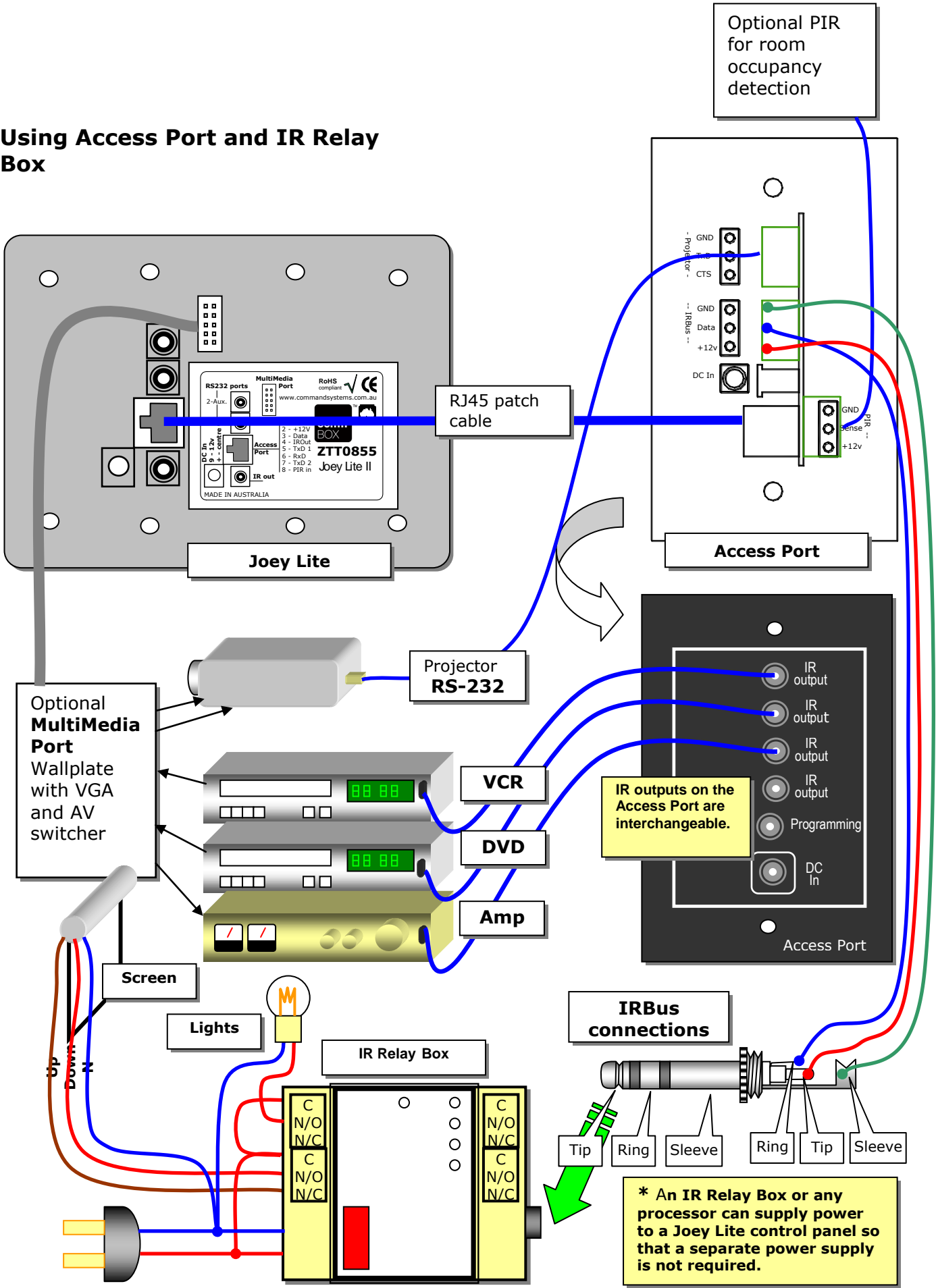
- **Yellow circle** indicates hot keys.
- **Green circle** indicates a normal control code or screen swap.
- **Grey Circle** indicates no action is associated with this key.

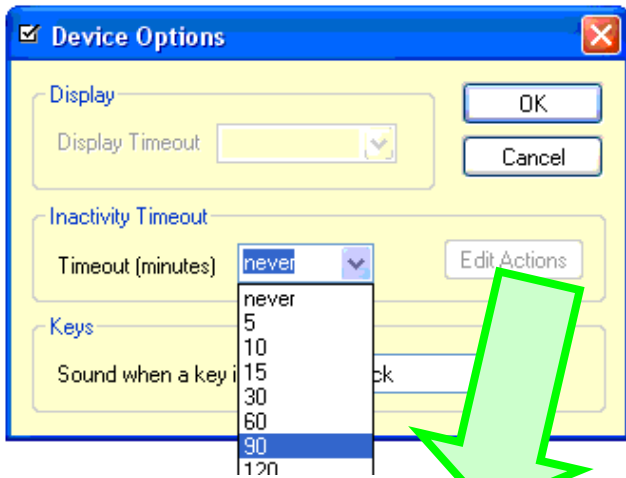


## Connecting Joey Lite



# Using Access Port and IR Relay Box

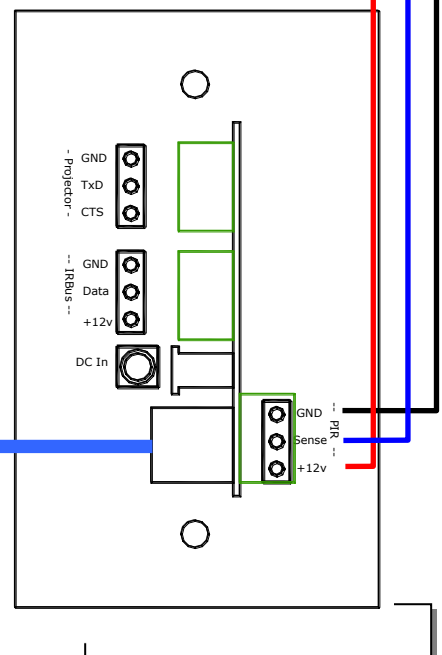
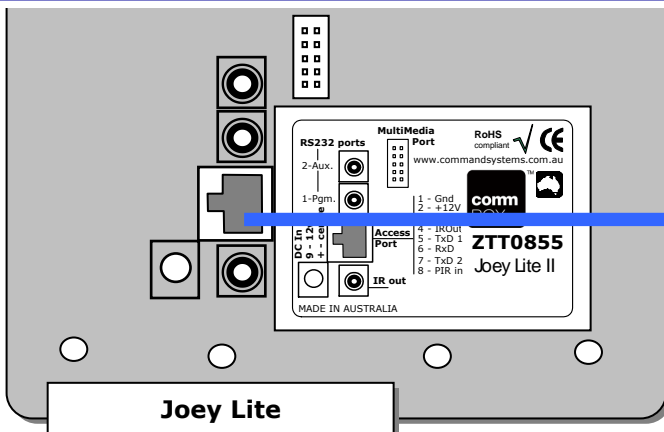
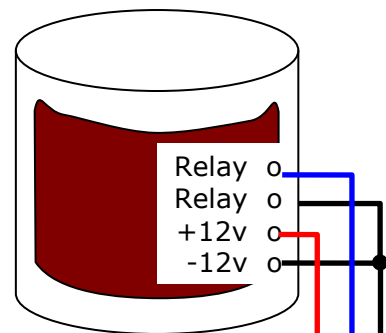




**Joey Lite Inactivity Timeout feature, using a PIR.**

The Joey Lite can sense the change of state of an external device such as a PIR. You can program this from the Handset Device Options menu.

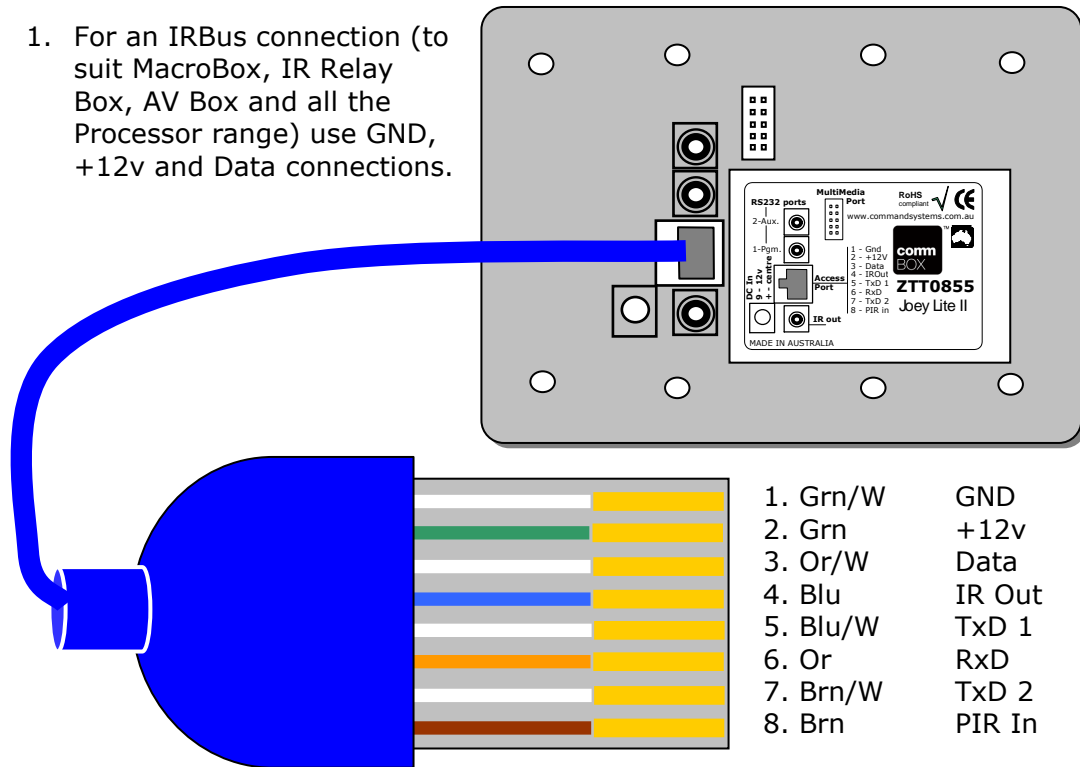
When there has been no change in state of the "I/O" line for the time you have chosen, the actions that you add under Edit Actions will be taken.



## Using the RJ45 connections without an Access Port

You can connect a Joey Lite directly to a wide range of devices using the RJ45 connector.

1. For an IRBus connection (to suit MacroBox, IR Relay Box, AV Box and all the Processor range) use GND, +12v and Data connections.



2. The IR Out connection will directly drive one or two optical couplers for infra-red control.
3. TxD 1 and TxD 2 can be used to connect to RS232 equipment.
4. You can also wire a PIR movement detector to pin 8 as shown on previous pages.

## RJ45 wiring tips

Before following the colour code shown on this page, check the colours in the RJ45 patch cable you are using. View the plug with the latch facing away from you. Not all patch cables will be wired as shown, but this is the most common colour code. If your plug is different, write down the matching colours and use these instead.

Cat5 cable works in pairs with pair 2 "straddling" pair 1, as follows:

Pair 1	Pins 5 and 4
Pair 2	Pins 3 and 6
Pair 3	Pins 1 and 2
Pair 4	Pins 7 and 8