The TSL Tally and UMD Configuring Program

Infra-Red Control of STB/VCR using the LWB-2

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1.0 Introduction

Infra red control of all normal functions of Set Top Boxes (STBs) or other IR-controlled devices is possible using LWB-2 boxes. These boxes have two IR tails, LED A and LED B, connected by a D9 connector. The boxes may be connected to any of the RJ45 UMD ports on the TM1/TM2. Note that power will be provided to the LWB-2 via the RJ45 connector.

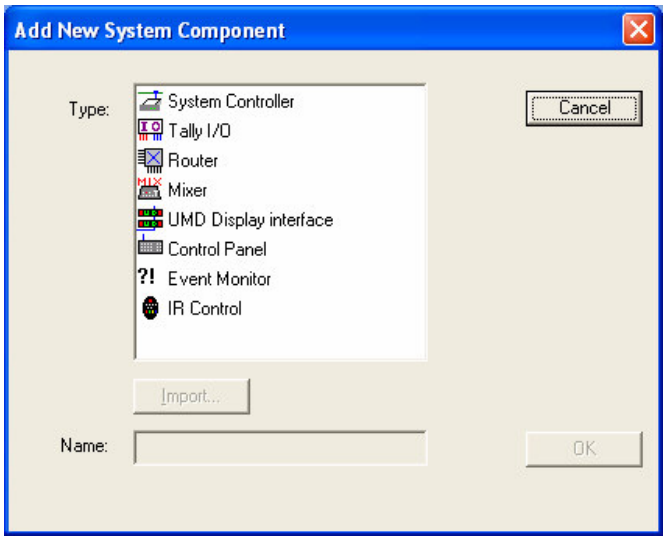
Note: Currently no TSL hardware panels can be used for control.

It is important that the IR transmitter is placed exactly over the IR receiver on the device being controlled as the power from the IR transmitter is intentionally very low.

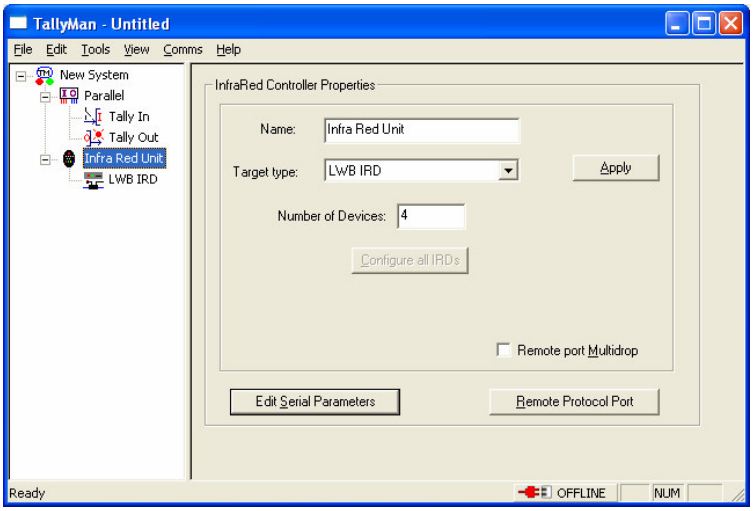
When the LWB-2 tail (transmitter) has been assigned to a graphical icon (representing a STB) which has been entered onto the desktop (User view) , a click on the icon will show a virtual panel on the desktop. All the usual functions will be available as though the usual handset were used.

2.0 Adding LWB-2 boxes to the System

To add a LWB-2 to the system, go Offline and to the **New System Icon** and click on **Add New Component**. Select **IR Control.**

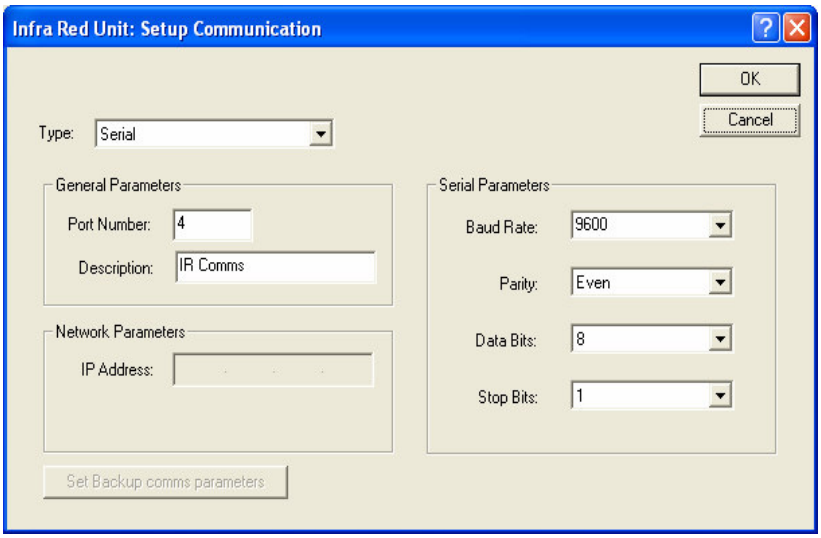


Give the Object a Name and click **OK.**



Set the number of devices (IR tails) on the system. Press **Apply.**

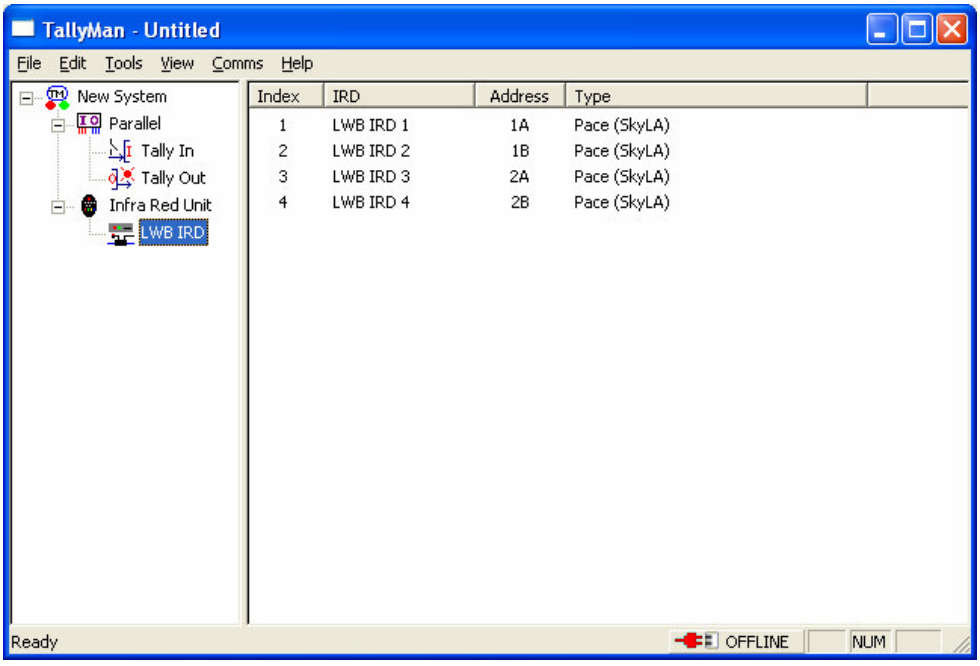
Edit Serial Parameters will allow the Serial Port to be set up. Select Serial.



The **Remote Protocol Port** is for connection of third party panels or commands.

- **Write** this file to the TMx
- Then go On-line – **Connect to System**.

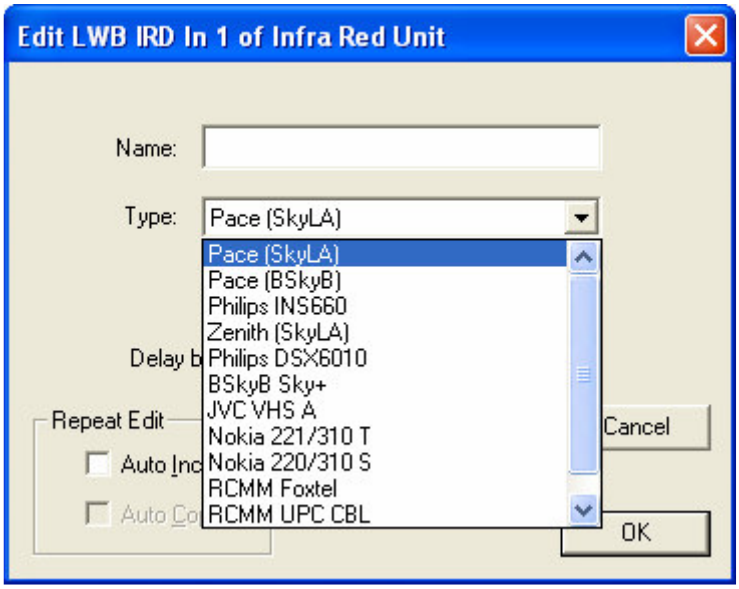
Click on the LWB-2 object in the main tree.



Note that the program has assigned the addresses.

Double click on one Index line

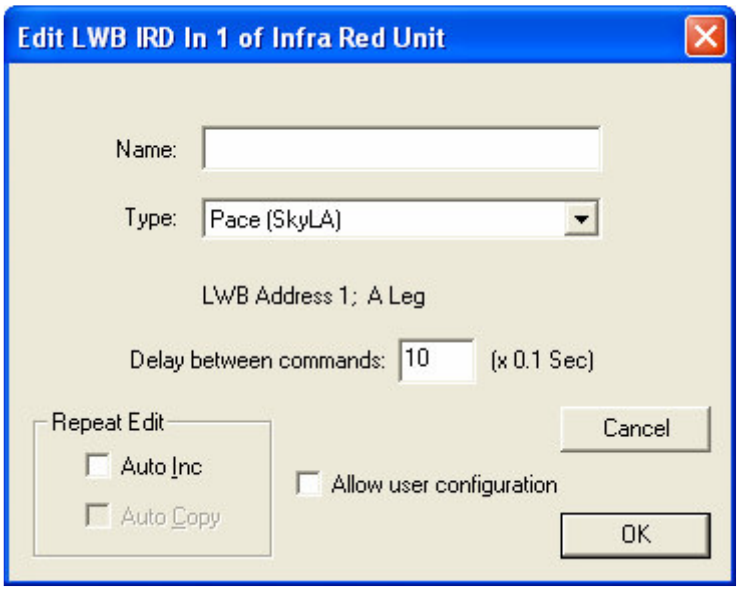
Select the **Type.**



Choose the device type to be controlled.

Note the two IR hardwired tails on the LWB-2 may be set to dissimilar types.

The **Name** is optional but will help to identify units in a large system.

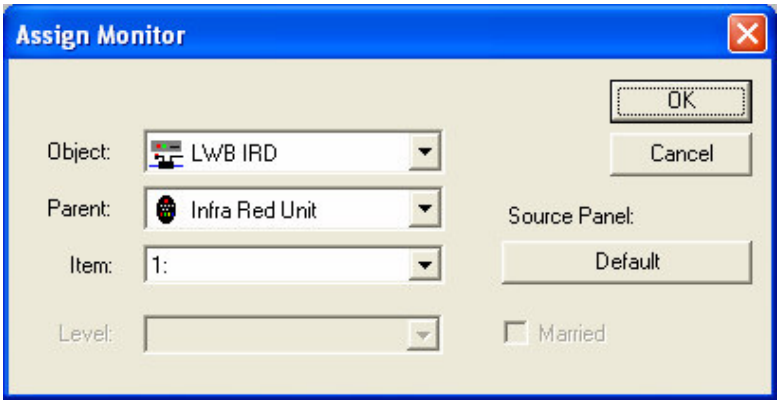


Initially, leave the **Delay between commands** set to 10.

Go to the **User** view and using the RH mouse button enter a monitor, VTR or IRD unit.

Right click on the graphic and select **Assign**.

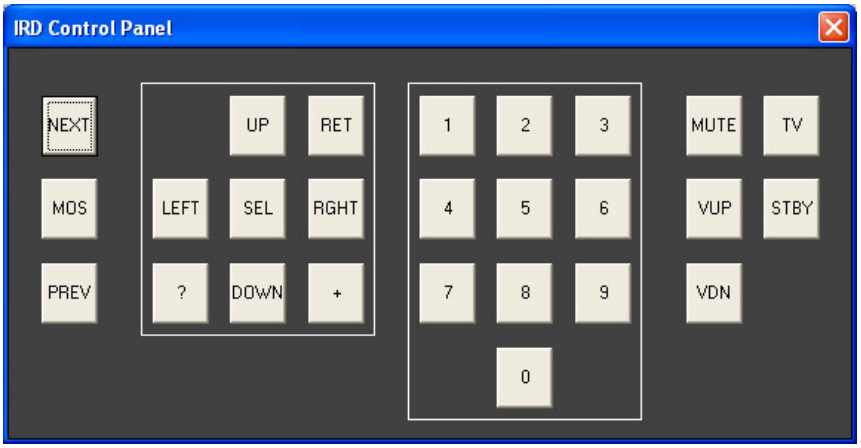
A quad split may be made and each monitor quadrant may be separately controlled, if required.



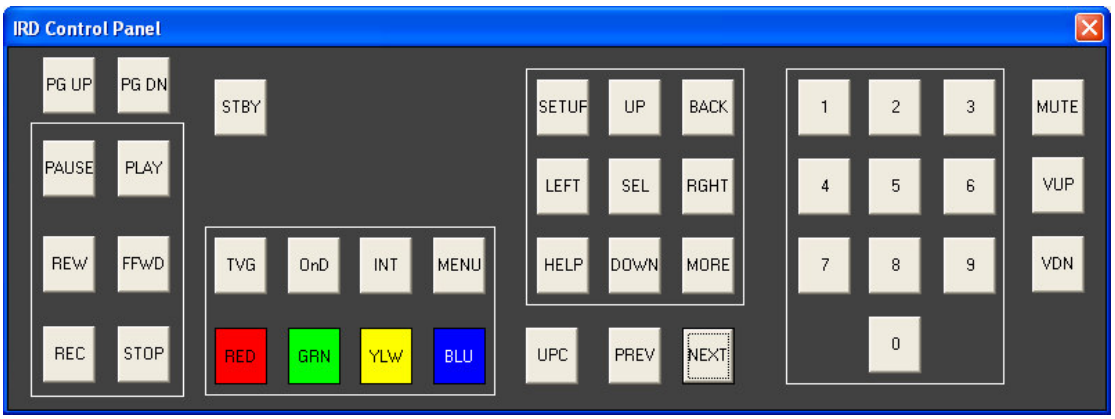
In this instance a LWB-2 o/p has been assigned to a monitor that would be showing the actual STB picture o/p.

- Save the new file

A double click or a selection from the drop down list will show the virtual control panel.



The virtual panel will be different for different STBs.



3.0 The LWB-2 Connections

D9 Connector

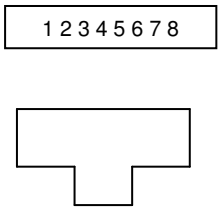
D9 SKT	
PINS	**FUNCTION**
1	Ext LED Common
2	LED A
3	LED B
4	0V
5	+5V
6	RB 6 for programming
7	RB 7 for programming
8	RST for programming
9	RB 5 for programming

A source of +12v to +24v will be required if the TallyMan RJ45 socket is not used..

RJ45 Connector

RJ 45 CONNECTOR	
1	0v
2	0v
3	-
4	RX+
5	RX-
6	-
7	+24v
8	+24v

View from the back.
RJ45 Connector on the cable



D9 Connectors on the TMx hardware.

RS 422 CONNECTORS D9 SOCKETS			
1	0v	6	0v
2	TX-	7	TX+
3	RX+	8	RX-
4	0v	9	0v
5	-		

4.0 Programming the Addresses

The Programme  that can be found on the CD ROM should be copied to a

Lwbaddr.exe

new directory on a Windows PC running Windows XP.

1. Plug the Cat 5 RJ45 connector into any TMx Display Port to pick up volts.
2. Plug the D9 connector into a serial port on the PC.
3. Plug the Cat 5 RJ45 connector into the LWB-2 socket.
4. Double click on **Lwbaddr.exe** to run the program and follow the on-screen instructions.
5. The addressing is Decimal.

Cable for changing the address of the LWB-2.

LWB-2 RJ45	D9F Computer Comms Port	RJ 45 Connector for Power
-	2	-
5 (Rx-)	3	-
1 (0V)	5	1 (0V)
2 (0V)	-	2 (0V)
7 (+24V)	-	7 (+24V)
8 (+24V)	-	8 (+24V)

Power may be taken from any RJ45 display outlet via a Y lead arrangement.