



Oak Square TV & Satellite Setup Guide



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For:	Residents of 1-271 Oak Square
Contents:	Instructions on how to use, configure and extend the TV/Satellite system within the apartments at Oak Square
Latest Revision:	www.abledata.co.uk/OakSquare

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1 Introduction

1.1 Purpose of Guide

This guide is written for tenants of the Apartments at 1-271 Oak Square.

The Oak Square apartments are equipped with a general purpose TV and Satellite reception system. Whilst these systems are configured to provide adequate TV services, there may be significant benefits from understanding how to extend and re-configure the systems to provide more flexible options. For example, the TV system as installed will only provide satellite signals to the Lounge. This guide will show you how to re-configure the system to watch and control the Lounge Sky box in the bedroom or use a satellite receiver in the bedroom.



1.2 Using This Guide

For those familiar with connecting TV and satellite to a communal system, the summary schematics in Appendix A will probably provide adequate information. Otherwise, the more detailed information covered in the in the rest of this guide will be required.

1.3 Support & Help

General Help & Advice

For general help contact the Oak Square managing agent, who will do their best to assist.

In Depth Help

For more in depth help, feel free to contact Able Data, who installed and maintain the system. Able Data offer a chargeable consultancy service to residents for the setting up and configuring of Audio Visual and Computer systems.

Able Data Installations
Able House
1 Figtree Hill
Hemel Hempstead
Herts
HP2 5XL
Tel: 01442 219580

Please call during normal working days 8:30 – 17:30.

Download This Guide

For the latest online version of this manual, visit the Able Data website at www.abledata.co.uk/oaksquare

2 System Overview

2.1 Services Provided

Each apartment is provided with signals to allow receiving of any of the following:

- **Standard Analogue Terrestrial TV** (BBC1, BBC2, ITV1, CH4, CH5). These will operate until sometime in 2012 when the Analogue channels are scheduled to be turned off completely. After that date, FreeView or freesat will be the main ways of receiving subscription free TV services. If your TV is not equipped with an integrated digital tuner, you will still be able to receive standard TV by purchasing either a FreeView or Freesat set top box
- **FreeView & FreeView HD**. This provide the same five channels analogue channels plus a large number of other free to view channels, such as BBC3, BBC4, BBC News 24, ITV2, ITV3, ITV4. A small number of FreeView HD channels should also be available in the Oak Square area. 
- **freesat**. freesat is a subscription free satellite service. Very similar to FreeView, freesat provide a large number of subscription free TV and radio channels, including a small number of HD channels. A reason for selecting freesat over FreeView is that the higher bandwidth capacity of satellite means that eventually the freesat service should be able to offer a broader selection of channels and services. Some newer TV's come with an integrated freesat receiver. 
- **Sky Digital**. Sky or Sky+, including Sky+HD & Sky 3D services.
- **Hotbird Satellite**. The Eutelsat Hotbird family of satellites, located at 13° east. These transmit a broad range (over 1,000) of European and Arabic language channels, both free-to-air and subscription.
- **FM and DABS Digital Radio**.

These signals are provided from a centralised reception system in Oak Square and should always be of the highest quality.

2.2 Restriction on Satellite Services

There are two satellite feeds coming into each apartment (the first carrying Astra/Sky, the other also carrying Astra/Sky and Hotbird). This limits use of multiple satellite receivers within an apartment.

The following list shows the possible combinations of satellite receiver which are supported:

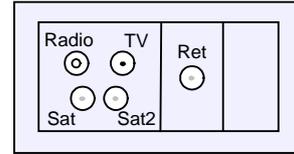
- Sky+ or Sky+HD
- freesat+
- 2 x (Sky or freesat)
- Hotbird and (Sky or freesat)

Note however, that the Sky+HD box can be configured to use a single feed only (See Appendix C for instructions), in which case it becomes equivalent to a standard Sky box for the purpose of these options.

Therefore for example, it is not possible to utilise a Sky+ box in one room and standard Sky box in a separate room, since this would require three satellite feeds.

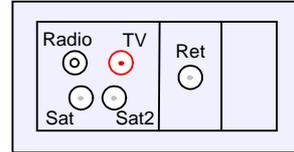
3 Lounge TV

A TV plate will be found in the lounge. This plate provides facilities for receiving any of the available signals. An approximate plate layout is shown in the schematic.



Terrestrial TV

A TV plugs into the outlet marked TV (marked in red in the picture) using a standard TV aerial lead. This outlet is the equivalent of the standard TV aerial socket to be found in a typical house.



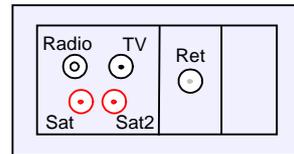
Either standard analogue TV or FreeView Digital TV may be received. Hence for example, a FreeView box may be connected to the TV socket as described in the instructions that come with the FreeView equipment. FreeView HD may also be received.

Sky Satellite

Anyone with a Sky subscription and a Sky Box will be able to receive Sky TV. To do this connect the Sky Box to either one or both of the outlets Sat and Sat 2 (marked in red in the picture below) using standard satellite leads. A standard Sky Box requires one connection, whilst a Sky+/Sky+HD box requires two connections.

1. Connect the Sky Box Dish Input 1 input to the Sat 1 outlet using a satellite lead. If you have transferred the Sky Box from a home with its own Sky dish, it will not come with a satellite lead, so you will need to obtain one.

If the Sky Box is Sky+ or Sky+HD, you will also need to connect the Sky Box Dish Input 2 to Sat 2, also shown in red, using a second satellite lead.

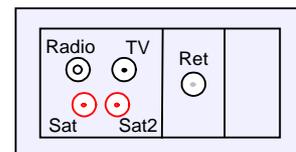


2. Connect the Telephone Line socket of the Sky box into a telephone extension. Although this is only required for online services, it is often a contractual obligation from Sky.
3. Connect your TV or display into the Sky Box using a standard TV lead, SCART cable or HDMI lead.
4. Connect the Sky Box Aerial In to the TV outlet using a standard TV lead. Note that this connection is only necessary if you are either:
 - Connecting your TV to the Sky Box via a TV aerial lead (see previous step) **and** intend to use the analogue tuner in the TV to watch terrestrial TV.
 - Using the Sky Box RF2 output to feed TV signals to a bedroom (see section 4).

freesat

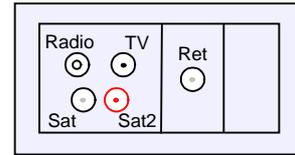
It is possible to receive freesat from the Sat 1 or Sat 2 outlets. The method of connecting will be the same as Sky Satellite above.

For a freesat+ receiver with two satellite inputs a connection to both Sat 1 & Sat 2 will be required.



Hotbird Satellite

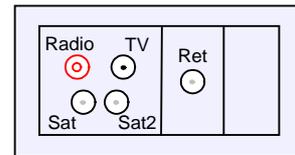
Hotbird satellite 13° East can be received from the Sat 2 socket. Sat 2 will output either Astra/Sky or Hotbird satellite signals, selectable via a standard DiSEqC controller. By default the output is set to Astra/Sky (DiSEqC source A). However, by connecting a satellite receiver with a DiSEqC controller (a Sky Box cannot do this), Hotbird may be received by selecting DiSEqC source B.



Note that when the satellite receiver is disconnected, the source defaults back to A (Astra/Sky), so that when a Sky Box is connected the source will always be the correct one.

Radio

With an FM or DABS tuner, it is possible to receive high quality signals by plugging the tuner into the FM outlet (shown in red).



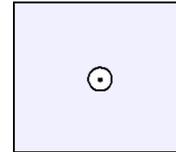
4 Bedroom TV

A conventional TV socket will be found in the main bedroom. This is cabled to the TV return outlet in the lounge.

Note that for the bedroom outlet to work at all, the Lounge TV Return outlet must be connected to a TV signal. The easiest way to do this is to connect it to Sat 2 using a satellite cable as shown in Figure 1. A suitable satellite cable has been provided with the first edition of this guide – see Appendix D for more details.

4.1 Terrestrial TV

A TV plugs into the outlet marked TV using a standard TV aerial lead. This outlet is the equivalent of the TV aerial socket to be found in a typical house.



Either standard analogue TV or FreeView Digital TV may be received. Hence for example, a FreeView box may be connected to the TV socket as described in the instructions that come with the FreeView equipment. FreeView HD may also be received.

FM or DABS Radio signals may also be received from this socket. If both Radio and TV are required, a standard TV or TV/Radio splitter may be used.

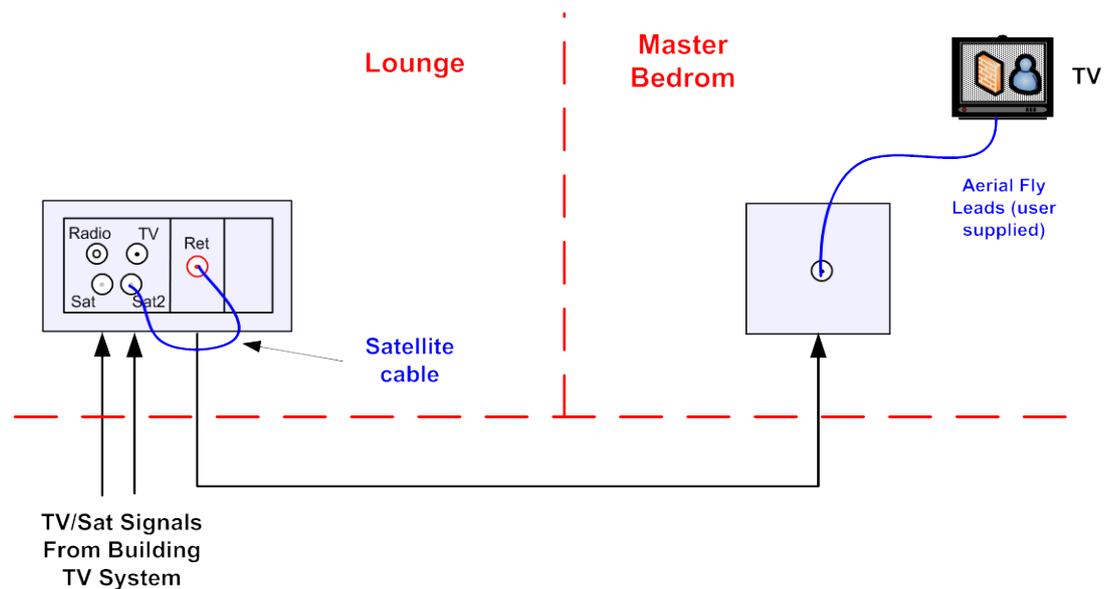


Figure 1

4.2 Connecting to a Sky Box in the Lounge

A Sky Box has the facility for the Sky to be controlled and viewed on a one or more further TV's in other rooms as an additional analogue channel. Being an analogue modulated signal, the quality of picture in the bedrooms is not typically good enough for displaying on large flat panel displays. However, for small TV sets, this is an ideal way to watch & control the Sky box from the bedroom (as long as the viewer in the lounge wants to watch the same program).

Figure 2 shows how this can be setup for a Sky+ / Sky+HD box. The method is the same for a standard Sky box, except the Sat 2 connection is not required.

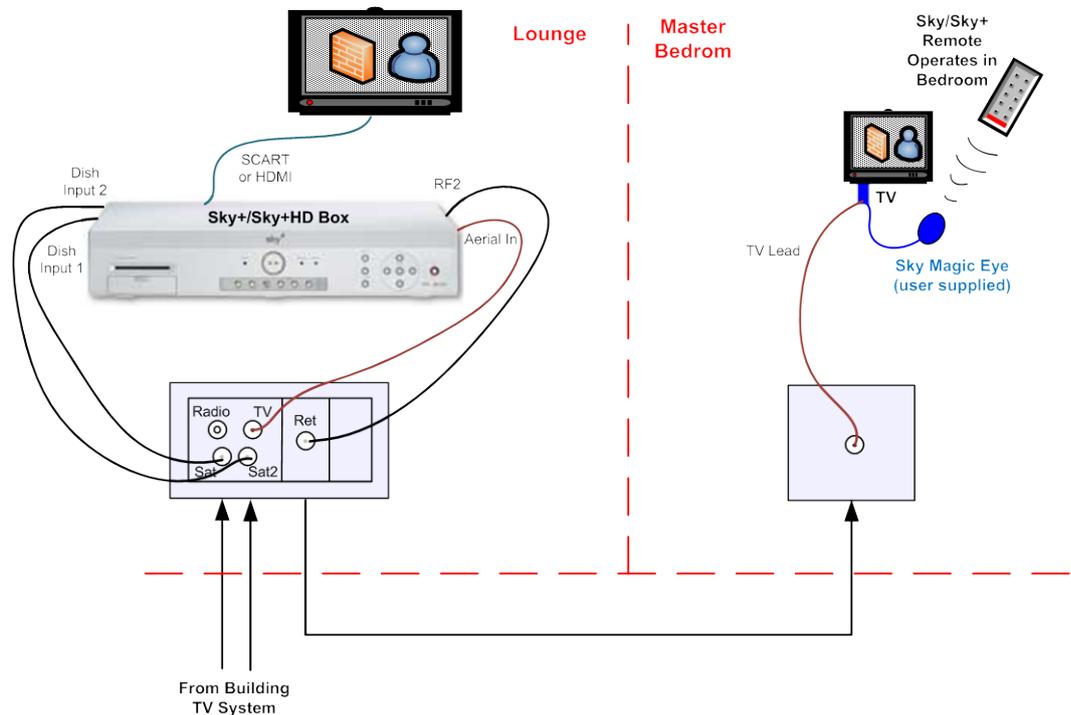


Figure 2

Note the following:

- A suitable adaptor was supplied with the first edition of this User Guide to allow connection of the RF2 of the Sky Box to the return. See Appendix D for more details of how to fit this.
- To watch Sky on a Bedroom TV, the TV must be in analogue mode and must be tuned into the Sky channel. Note that some new TV's may not have an analogue tuner, in which case it will not be possible to view the Sky box on these sets.
- In order to control the Sky box from a bedroom:
 - A tvLINK (often know as Magic eye) infrared repeater and second Sky remote will be required. These are available from TV stores.
 - The Sky Box will require setting up through the Installer Menu. The tvlink should come with instructions on how to do this. Alternatively, follow the instructions in Appendix C.
- The Sky box does not pass Radio signals. Therefore, when using the RF2 output to feed the bedroom, it is not possible to receive FM/DABS radio signals in the bedroom.

4.3 Satellite in the Bedroom

It is also possible to use a Sky box or Hotbird satellite receiver in the bedroom. Note however, that the restrictions outlined in Section 2.2 apply.

Since the originally fitted plate is only designed to pass TV and Radio signals, it is recommended that the TV plate be replaced with a satellite

one. Able Data will be able to quote for doing this (see Section 1 for contact details).

If Hotbird is being used in the lounge (and therefore connected to Lounge Sat 2) the Lounge TV Return can be connected to Lounge Sat 1. This means however that Terrestrial TV or Radio signals will not be available in the bedroom.

4.4 Apartments with Multiple Bedroom TV Sockets

Some apartments, designed for disabled use, have TV outlets in more than one bedroom. If this is the case, rather than being directly connected to the lounge return, these sockets will be connected through a TV amplifier as shown in Appendix A.

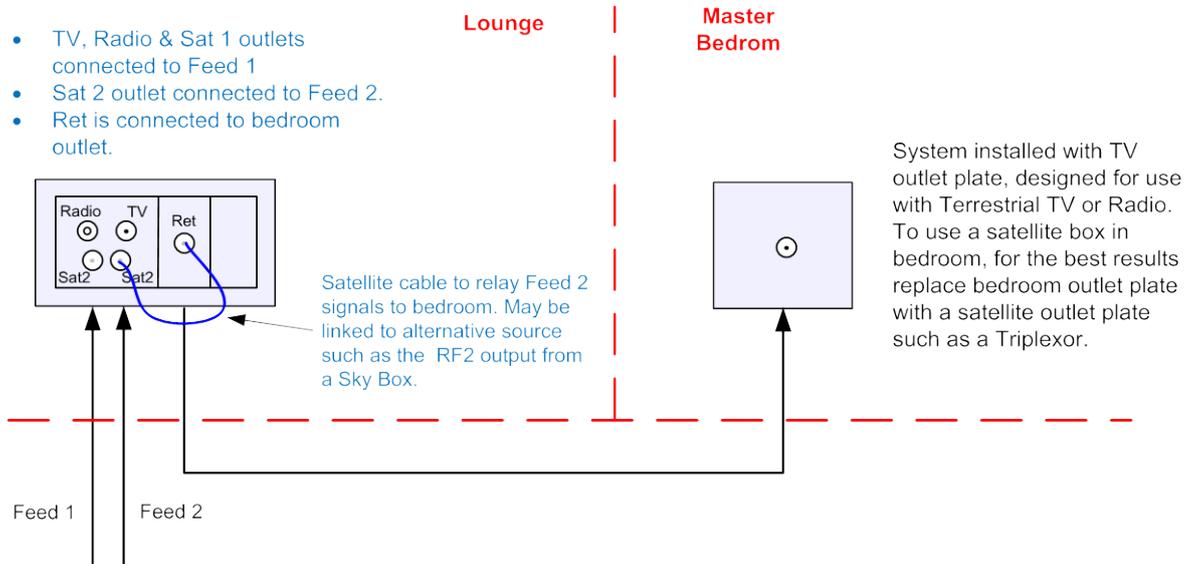
All of the facilities described in sections 4.1 (Terrestrial TV) and 4.2 (Connecting to a Sky Box in the lounge) will apply to all of the bedroom TV sockets. However, since the TV amplifier does not pass satellite signals, the facilities described in section 4.3 (Satellite in the Bedroom) will not. It is possible to get round this restriction by 'splitting off' the TV/Sat signal at the input of amplifier in the utility cupboard and connecting it to the cable connected to the relevant bedroom. This should only be attempted by someone with experience of terminating TV cables. Able Data will be able to quote for doing this (see Section 1 for contact details).

If the bedroom outlets in a multiple bedroom TV Socket installation do not appear to be providing signals, despite the Lounge TV return being correctly connected, the most likely explanation will be that power to the amplifier has been disconnected or switched off. This can be checked by inspection of the power to the amplifier in the utility cupboard.

Appendix A Apartment TV Cabling Summary

Standard Apartment

- TV, Radio & Sat 1 outlets connected to Feed 1
- Sat 2 outlet connected to Feed 2.
- Ret is connected to bedroom outlet.

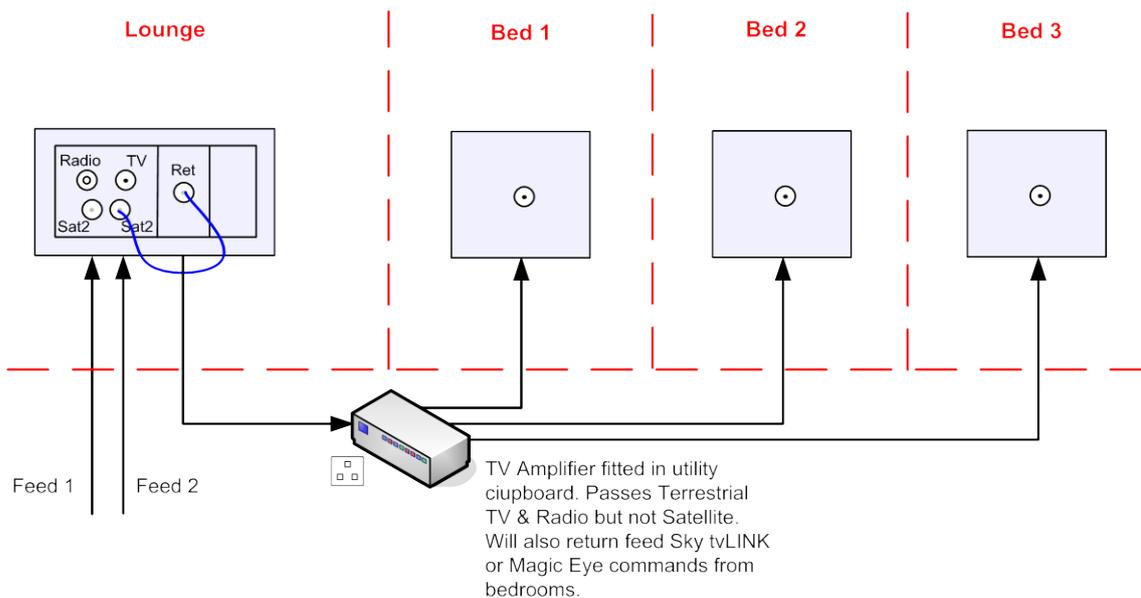


TV/Sat Signals From building TV/Sat System. Both feeds carry:

- Terrestrial TV
- FM & DABS Radio
- Astra/Sky Satellite
- Hotbird (Feed 2 only), selectable via DiSEqC commands from a satellite box. Source defaults to Astra/Sky.

Apartment with Disabled Fittings

Comments for standard apartment in blue also apply to Apartment with disabled fittings.



Appendix B Enabling the Sky RF2 Output

By default, a new Sky Box will output nothing from the RF2 output. However once enabled, RF2 will both output the Sky channel to another TV and accept tvLINK remote commands attached to that TV.

To enable RF2 (old menu system):

1. On the Sky remote, select 'System Setup'.



2. Enter in sequence '0', '1' & 'Select'. This will take you to the Installer Setup Menu.



3. Select Option 4 (RF Outlets), taking you to the RF Outlets menu.



4. Set the RF Outlet Power Supply to ON (default is OFF).
5. [Another handy option here is the one to change the RF Channel Number on which the Sky outputs RF and RF2 outputs are set. This may be necessary in order to not conflict with broadcast channels or other equipment such as a VCR or DVD player. A good default channel for Bermondsey Square is 60, which conflict with no broadcast channels]
6. Save New Settings.

Appendix C **Configuring a Sky+HD Box with a Single Satellite Seed**

The Sky+HD box can be configured to operate with just one satellite input feed. This may be useful if you are using a Sky box in the bedroom, leaving just one feed for the Sky+HD box (or vice versa).

Although it is not possible to watch one channel whilst simultaneously recording another (or simultaneously recording from two different channels), once the box is configured this way, it will function correctly and will always use the first satellite feed.

To configure a Sky+HD box for a single feed (new HD menu system):

1. Make sure the satellite lead is plugged into "Dish Input 1".
2. Press Services on your remote.
3. Press Right-Arrow and highlight "Settings".
4. Press Down-Arrow and highlight "Picture".
5. Press 0, 1, Select. The "Setup" tab will now appear.
6. Scroll down and select the "Single Feed Mode" option. Press the Right-Arrow and change it from 'OFF' to 'ON'.
7. Press the Green Button to Save the settings. A 'Caution' message will appear... press 'Select'.
8. Your system will now switch-off/reboot. Leave it for a couple of minutes & then press the Sky button to bring it back to life.

Appendix D Bedroom Link Cable & Adaptor

Parts Provided

A copy of the first edition of this User Guide has been provided to all tenants, together with:

- **Satellite Cable.** A short satellite cable for linking the Sat 2 in the lounge to the bedroom.
- **Sky Box Adaptor.** An adapter to allow this cable to be connected to the RF2 output of a Sky Box.



Using the Adaptor



To use the adaptor, simply screw it into one end of the satellite cable. You will then have a cable that will connect the RF2 output of the Sky Box to the Return socket in the wall.

If this cable is not long enough, it can be extended either by replacing the lead provided with a longer satellite cable (it is a standard F-plug to F-plug satellite cable) or alternatively by fitting a standard TV aerial cable (IEC male to IEC female).