SPECIFICATIONS

Transmitter :

Remote Relay Receiver	433.92MHz	
Audio/Video Frequency	2.4000GHz ~ 2.4835GHz	
Channel Frequency	Channel 1	2.414GHz
	Channel 2	2.432GHz
	Channel 3	2.450GHz
	Channel 4	2.468GHz
Modulation	FM	
Video Input Level	1V PP/75Ω	
Colour Video Input	Phase Alternate Line (PAL)	
Audio Input Level	1.0v PP (Mod 1KHz, Dev 15KHz)	
Audio Bandwidth	10Hz - 22KHz (-1dB)	
Input Connectors	DigiConnector Euro SCART x2, RCA Phono x2	
Power Source	DC	

Receiver :

Remote Relay Transmitter	433.92MHz
Audio/Video Frequency	2.4000GHz ~ 2.4835GHz
Modulation	FM
Video Output Level	1V PP/75Ω
Sensitivity	-80dBm
Audio Output Level	1.0V PP (Mod 1KHz, Dev 15KHz)
Audio Bandwidth	10Hz - 22KHz (-1dB)
Output Connectors	Euro SCART
Power Source	DC
Approvals	See Decleration of Conformity
Antenna System	Internal Omni-directional dipole (2.4GHz)
	Omni-directional dipole (433.92MHz)
System Range	≤ 200metres free air space
	≈ 40 metres in-building (through walls)
Remote Relay Protocol Coding	RC5, RC6, Active Digital
	IrDA 16 Channel

MODEL: DG440
DigiSender™ X7

Wireless Video Sender System

INSTALLATION
VIDEO GUIDE
available at:
www.aei.eu/video

IMPORTANT: ALWAYS KEEP THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE

Functions of this product are covered by one or more patents.

Table of Contents

WARNING
To prevent damage do not expose this unit to rain or moisture.

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local Authority or retailer for recycling waste

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DECLARATON OF CONFORMITY
01022007/01/DX-DG-DV

We,

AEI Security & Communications Ltd
Weslake Industrial Park, Harbour Road, Rye, East Sussex TN31 7TE, United Kingdom.

declare under our sole responsibility that the products referred to as DigiSender, XSender and PlugSender bearing the series codes prefixed:

DXx**, DG**x**, DV**x *(x refers to the specific model number)*

are in conformity with the essential requirements of Directive 1995/5/EC. These products have been tested against the following standards and specifications:

Low Voltage Directive
EN60950:2000   *Safety of information technology equipment*

Electromagnetic Compatibility Directive
EN 301 489-3 V1.3.1: 11-2001   *Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz*
EN 301 489-1 V1.3.1: 09-2001   *Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements*

Radio spectrum
EN 300 440-1 V1.1.1: 09-2001   *Electromagnetic compatibility and Radio spectrum Matters (ERM); Short range devices; Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 1: Technical characteristics and test methods*

Power Supply
EN55022: 2003   *Information technology equipment. Radio disturbance characteristics. Limits and methods of measurement*
EN55024: 2003   *Information technology equipment. Immunity characteristics. Limits and methods of measurement*
IEC 61000-3-2: 2001   *Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current <= 16 A per phase)*
IEC 61000-3-3:2001   *Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current <= 16 A per phase and not subject to conditional connection*

The product is marked with the CE marking and Notified Body Number according to directive 1999/5/EC

RoHS COMPLIANT   Pb Lead Free

A/V Channel 4 not licensed for use in the following countries: FR, ES

CE 0560 ⚠

LOW POWER WIRELESS A/V PRODUCT OPERATING ON 2.4GHz

NOTE: Original DoC has been signed

Upgrades & Accessories

DigiSender™ Receiver - Part DG44RX

• Add as many receivers as you require to your DigiSender™ system
• Connect to any SCART enabled television or use with the MOD01PIS Aerial Converter
• Supplied with PSU
• Requires DigiSender™, PCSender™, or Baby Monitor transmitter

Aerial Convertor - Part MOD01PIS

• Connect a DigiSender™ receiver to an aerial socket on your T.V.
• Shares the power supply with your DigiSender
• Test Card signal for easy set up
• Compatible with every UK television
• Adds the DigiSender™ signal to your existing aerial signal

http://www.**digisender**.net

for the latest info, upgrades and technical support

INTRODUCTION
DigiSender™X7 - Advanced Wireless Video Sender

Congratulations on purchasing the **DigiSender™ X7**. This product represents state of the art wireless video and infra red technology at exceptional value for money.

This system is fully upgradable. You can add additional receivers, aerial convertors, wireless baby monitor cameras and countless other upgrades.

What makes the **DigiSender™ X7** so different is that it provides compatibility with virtually any make of **Satellite** receiver, **Cable** receiver, **VCR**, **DVD** and **Freeview** in the market today.

You also have the ability to select which video source you want to watch whilst you comfortably rest in bed. You can select between VCR, DVD and Satellite/Cable without interfering with the channel being viewed on your main TV.

Benefit from 4 video channels, stunning hi-fi quality stereo sound and digital communication providing an astounding degree of flexibility.

Your purchase of this DigiSender™ system represents an investment in the very latest wireless communication technology for the home.
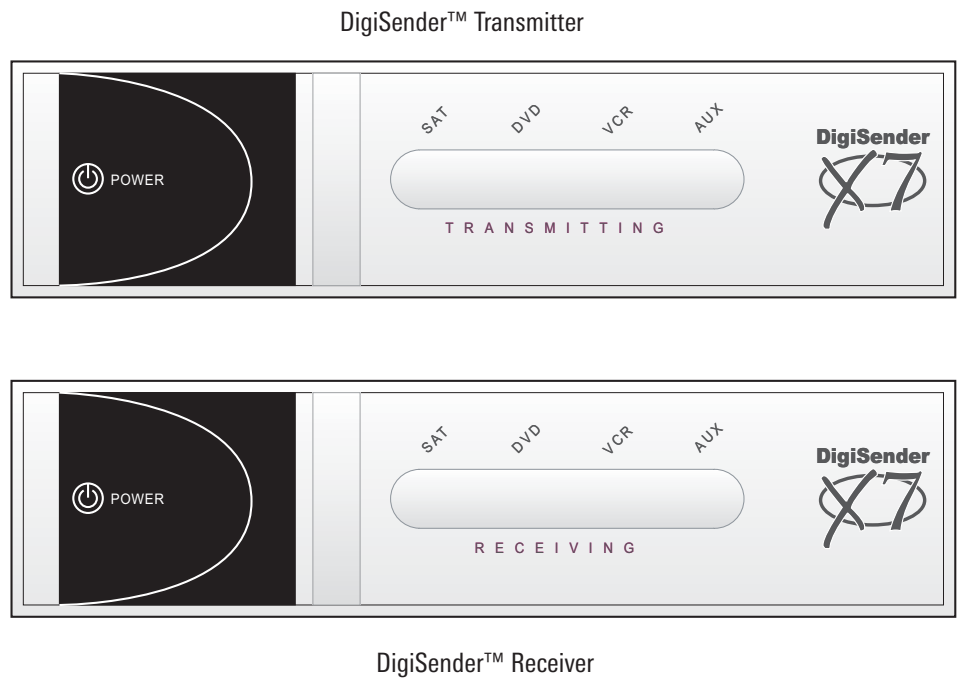
CUSTOMER CARE
Telephone: 0845 1667940
E-mail: advice@digisender.net
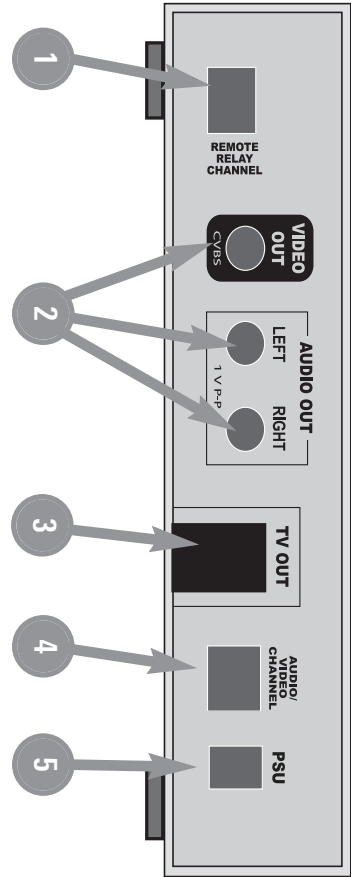

STEP 1
Unpacking your DigiSender™ X7

All packs are computer weigh checked when packed. However, it is a good idea to check all kit contents are present before proceeding with the installation.

DigiSender™ Transmitter

SAT   DVD   VCR   AUX

POWER

DigiSender
X7

T R A N S M I T T I N G

SAT   DVD   VCR   AUX

POWER

DigiSender
X7

R E C E I V I N G

DigiSender™ Receiver

Rear Panel Descriptions
RECEIVER

1. Remote Extender Channel
Default: Channel 1
See Advanced Section for details.

2. Audio/Video Output
Use these jacks for connection to a RCA input on your video or Hi-Fi

3. Audio/Video Out (SCART)
Use this lead to connect to an available SCART input on your remote television.

4. Audio/Video Channel
Default: Channel 1
See Advanced Section for details.

5. Power Supply
Connect one of the supplied power supply adaptors here.

REMOTE RELAY CHANNEL

VIDEO OUT
CVBS

AUDIO OUT
LEFT
RIGHT
1 V P-P

TV OUT

AUDIO/VIDEO CHANNEL

PSU

continued...

2 x RCA Phono - 4.5mm Jack Leads

POWER

SAT
DigiConnector 1

DVD
DigiConnector 2

VCR
Aux. Input 3

AUX
Aux. Input 4

SOURCE
DEVICE

the wirefree video system
DigiSender

Remote Control

1x IR Systeme Technik IR Emitter

2 x Power Supply Unit

Please read this instruction manual carefully prior to installation

---

Rear Panel Descriptions
TRANSMITTER

DigiConnectors

REMOTE RELAY CHANNEL

IR

SAT

DVD

VCR   AUX

AUDIO/ VIDEO CHANNEL

PSU

1 2 3 4 5 6 7 8

1. Remote Extender Channel
Default: Channel 1
See Advanced Section for details.

2. IR Emitter Output
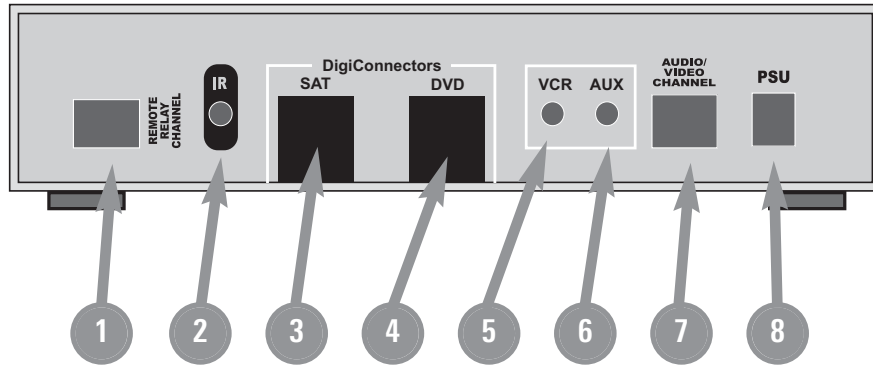Connect the supplied IR Emitter
remote extender here.

3. DigiConnector™ 1
Use this to connect to your satellite,
cable or terrestrial decoder

4. DigiConnector™ 2
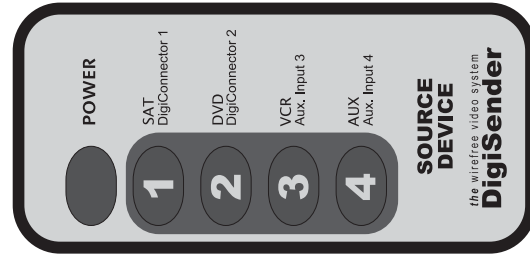Use this to connect to your DVD player
or VCR

5 & 6. RCA Input 3 & 4
Use these to connect to a RCA phono
device such as a CCTV camera

7. Audio/Video Channel
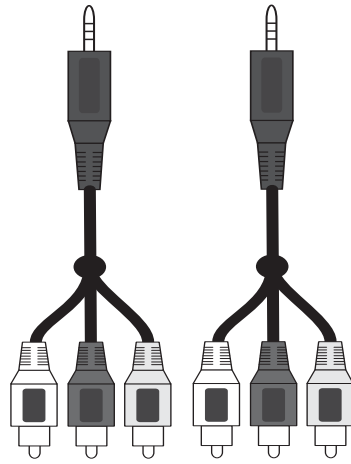Default: Channel 1
See Advanced Section for details.

8. Power Supply
Connect one of the supplied power
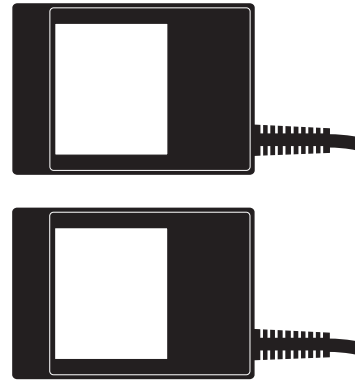supply adaptors here

Online Support at **www.digisender.net**

STEP 2
Install the *DigiSender™ X7* Transmitter Unit

The transmitter unit is designed to send video and sound from one of up to 4 connected sources to a receiver somewhere else in your home.

STEP 1 — LIVING ROOM

Place the DigiSender™ **transmitter** on a flat surface near to your source equipment. *Avoid placing the transmitter directly on top of other electrical devices (see troubleshooting guide)*
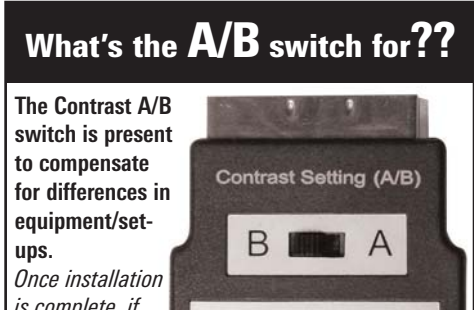
STEP 2 — LIVING ROOM

Connect DigiConnector™ 1 into your satellite or cable receiver. Use the SCART socket labelled 'TV' and *connect any existing SCART lead (if present) into the rear (socket) of the DigiConnector™.*

STEP 3 — LIVING ROOM

Connect DigiConnector™ 2 into your VCR or DVD. Where available, use SCART sockets labelled OUT or TV. *Connect any existing SCART lead in to the rear socket of the DigiConnector™*

What's the A/B switch for??

The Contrast A/B switch is present to compensate for differences in equipment/set-ups.
Once installation is complete, if you experience a poor picture then adjust the A/B setting.

Contrast Setting (A/B)
B A

Audio/Video Channel
Remote Relay Channel

The DigiSender™ X7 features 4 *audio/video channels* and 4 primary *remote relay channels*. For the unit to function correctly the *audio/video channel* must be set the same on both the transmitter and receiver. Also, the *remote relay channel* must be the same on both the transmitter and receiver.

Receiver Channel Settings

Transmitter Channel Settings

	Channel 1	Channel 2	Channel 3	Channel 4
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	OFF	OFF	ON	OFF
4	OFF	OFF	OFF	ON

Frequently Asked Questions (FAQ) & Technical Support

continued...

Q: My DigiSender™ remote control has stopped working

A: You need to replace the remote control batteries. It takes a CR2025 battery, available from most electrical outlets. Some electrical equipment may interfere with the remote controls operation. Move the DigiSender™ transmitter and receiver away from other electrical devices and keep cables neat and tidy.

Q: My DigiSender™ remote control won't change my Satellite/Cable channel!

A: The DigiSender™ Remote Control is designed for changing the input device and/or Audio/Video channel. It will not operate any satellite or cable systems. You need to use your original satellite/cable remote control.

Q: My neighbour is changing my Satellite/Cable channel!

A: You need to change the Remote Control Extender channel of your DigiSender™. See page 19 for details.

Q: Why can I see my neighbours satellite/cable channels on my TV!

A: You need to change the audio/video channel of your DigiSender™. See page 19 for details.

AEI Security & Communications Ltd is dedicated to providing our customers with first class customer care and technical support.

We have provided you with 2 methods of obtaining technical advice on this product.

During busy periods we would suggest using the web option to obtain support.

1. On the web...

Free technical advice is available online 24/7 at our dedicated support web site:

http://www.aei.eu

2. By telephone...

We have a dedicated helpline, Monday to Friday, 9AM - 5PM.

Please note that calls are charged at the local rate and your call may be recorded for training purposes.

**UK Customers only:
0845 166 7940**

**Overseas Customers:
+44 (0) 1797 226123**

Avoid positioning the transmitter near to 2.4GHz wireless enabled devices such as modern games consoles, wireless controllers, laptops, DECT phones or wireless networking equipment.

STEP 4

Ensure that both the A/V Channel and IR Channel are set to 1.
See the trouble shooting sections for further information on the channel selection process.

STEP 5

Connect the **IR Systeme Technik™** IR Emitter to the socket labelled **IR** on the rear of the transmitter. Follow the steps overleaf to install the IR Systeme Technik™ IR Emitter.

STEP 6

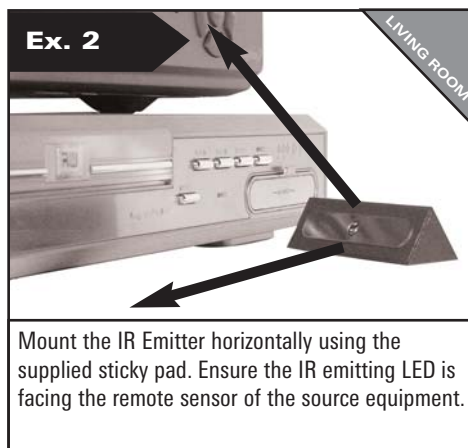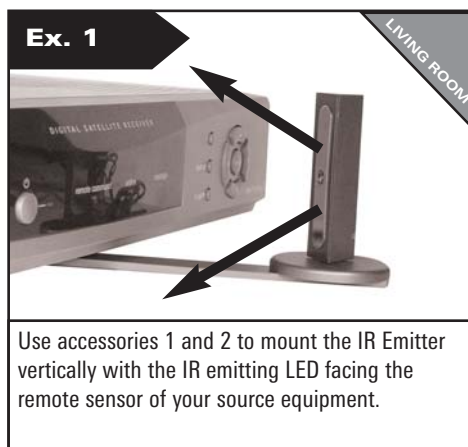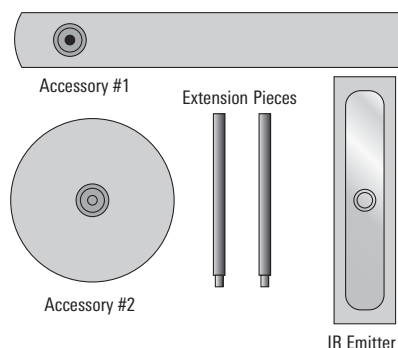Connect the power supply unit to the socket labelled **PSU**.

STEP 7

Connect the power supply unit (PSU) into an available wall socket.Press the POWER button on your DigiSender remote control to switch the transmitter on.

STEP 3
Install the *IR Systeme Technik™* remote extender

Once set up correctly, the remote extender will enable you to utilise your remote control in the remote location in your home.

Because everyone's set up is different there are many ways you can install the remote extender system.

Accessory #1

Extension Pieces

Accessory #2

IR Emitter

Ex. 1

LIVING ROOM

Use accessories 1 and 2 to mount the IR Emitter vertically with the IR emitting LED facing the remote sensor of your source equipment.

Ex. 2

LIVING ROOM

Mount the IR Emitter horizontally using the supplied sticky pad. Ensure the IR emitting LED is facing the remote sensor of the source equipment.

TROUBLESHOOTING
Remote Control Extender

If you have any difficulty operating your source equipment remote control in your second room please follow the advice below below:

1) Ensure the IR Systeme Technik™ IR Emitter is connected to the DigiSender™ transmitter.

2) Ensure you are using the correct remote control in the second room. For instance, if you are trying to control your satellite channel you will need to use the satellite remote control.

3) Ensure the IR Systeme Technik™ IR Emitter is facing the remote sensor on your source equipment.

4) Move the IR Emitter further away from the source equipment using the supplied extension accessory.

5) Move the transmitter AND receiver further away from other electrical devices.

6) Choose a new remote relay channel taking care that the same channel is selected on both transmitter and receiver.

7) Operate the remote control closer to the DigiSender™ receiver.

8) Replace the batteries in the source remote control.

DigiSender®

TROUBLESHOOTING
VIDEO GUIDE
available at:
www.aei.eu/video

TROUBLESHOOTING
Sound Problems

Please follow the guide below if you experience any trouble with the picture and sound. If this guide does not solve your problem please call our customer care line on 0845 1667940 for further assistance or email advice@digisender.net.

START HERE

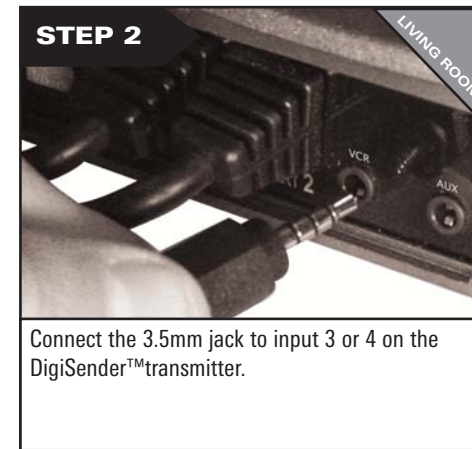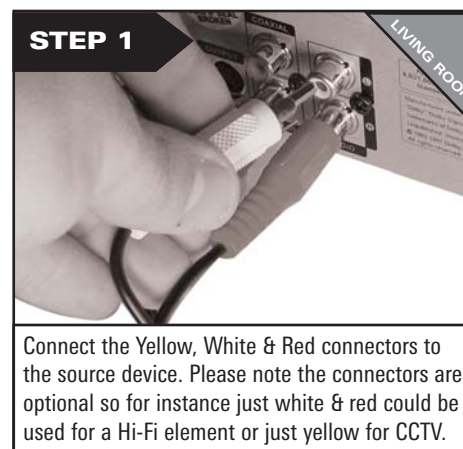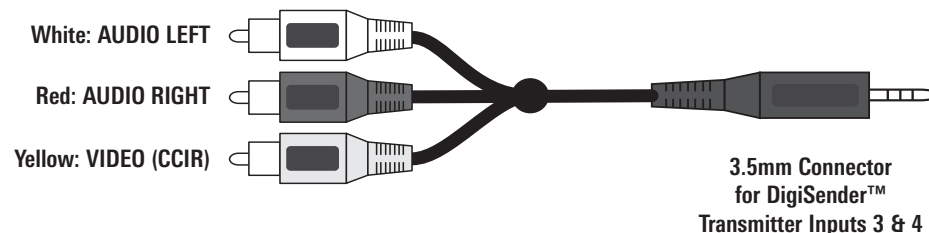**Q: What seems to be the problem with the sound?**

I can see the picture but can't hear anything.

**1. Disconnect both the transmitter AND receiver SCART's. Reconnect the leads ensuring they are pushed into the sockets firmly.
2. If you are using a home cinema DVD player with surround sound, please ensure the analogue audio output on SCART is switched on.**

The sound is distorted.

Turn down the volume on the source device such as your satellite/cable receiver or DVD player.

There is a buzzing sound present. It seems to get worse during on-screen menus or bright pictures.

Change the Contrast A/B setting on the transmitter DigiConnector™ connected to the offending equipment.

There is a hissing sound and the volume must be turned up high on the second TV to hear anything.

**1. Turn the output volume UP (if possible) on the source equipment, such as your satellite/cable receiver or DVD player.
2. Ensure the transmitter and receiver are within the usable range (40m avg)
3. Switch off your microwave oven if present.**

OPTIONAL
Connecting inputs 3 & 4

Inputs 3 & 4 can be used with any PAL video device featuring RCA Phono output sockets. Use the supplied 3.5mm to Phono leads to connect the device(s) to the DigiSender™ transmitter.

These inputs are ideal for:

PC with TV Out Card
Laptop
CCTV Camera
Games Console
etc.

White: **AUDIO LEFT**

Red: **AUDIO RIGHT**

Yellow: **VIDEO (CCIR)**

3.5mm Connector for DigiSender™ Transmitter Inputs 3 & 4

STEP 1   LIVING ROOM

Connect the Yellow, White & Red connectors to the source device. Please note the connectors are optional so for instance just white & red could be used for a Hi-Fi element or just yellow for CCTV.

STEP 2   LIVING ROOM

Connect the 3.5mm jack to input 3 or 4 on the DigiSender™transmitter.

STEP 4
Install the *DigiSender™ X7* Receiver Unit

The DigiSender™ X7 Receiver will pick up transmitted signals from the transmitter unit and output them to a television. In addition, the receiver detects remote controls being used in the second room and will send those signals to the source equipment in your main lounge.
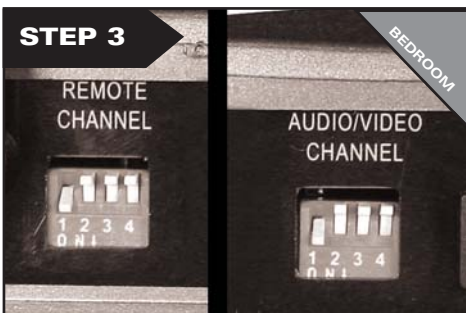
STEP 1
BEDROOM

Place the DigiSender™ receiver on a flat surface near to your second television. Avoid placing the receiver directly on top of other electrical devices such as the television.

STEP 2
BEDROOM

Connect the SCART output to the second television.

STEP 3
BEDROOM

REMOTE CHANNEL

AUDIO/VIDEO CHANNEL

Ensure that both the **A/V Channel** and **IR Channel** are set to 1.
See the trouble shooting sections for further information on the channel selection process.
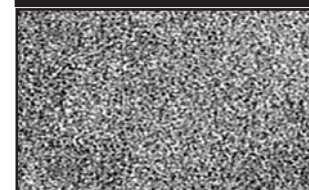
No SCART socket on the TV??

AEI produce an 'Aerial Convertor ' enabling you to connect the receiver to any TV without a SCART socket.
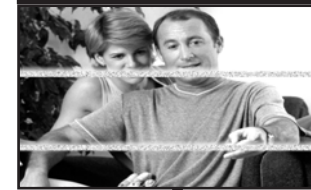
Ask for part number MOD01PIS

Online Support at **www.digisender.net**

TROUBLESHOOTING Picture Problems

Q: What do you see on your second television?

The picture is present but poor quality

I see black or blank screen

POOR RANGE

1. The picture & sound quality is affected by the transmitter and receiver's location. Try positioning them in different locations. The transmitter and receiver must be connected to a mains extension lead that can be moved.
2. Try the 3 other available channels ensuring that the audio/video channel is set to the same on both the transmitter and receiver
3. Ensure the units are within the usable range, normally this would be 40m when passing through 2 average internal walls. Thicker or stone/granite walls may lower the usable range of this device.

Switch OFF your DigiSender® TRANSMITTER
What do you now see at the *second* TV?

I still see a Black Screen...

WRONG AV TV CHANNEL SELECTED

1. Switch the transmitter back on.
2. Ensure the correct SCART channel is selected on your second television. Some televisions feature multiple AV channels for one or more SCART, phono and S-Video inputs.
3. If available try another SCART socket on the remote television

I now see a snowstorm or blue screen...

RECEIVING BLANK SIGNAL

1. Switch the transmitter on.
2. Ensure the transmitter is connected to your source device.
3. Ensure that the source equipment is switched on (such as your satellite or freeview box)
4. Use the supplied remote control to select the correct input channel. This can be done at either the transmitter or receiver.

---

continued...

Did you know? **The receiver can be connected to a Hi-Fi unit using the Left & Right Audio outputs on the rear of the DigiSender™receiver unit.** *Phono cable may be required.*

Connect the power supply unit to the socket labelled PSU.

Connect the power supply unit (PSU) to an available wall socket.

Press the POWER button on your DigiSender remote control to switch the receiver on. The power LED will be green to indicate the device is switched on.
Switch on the second television and select it's SCART channel. This will be labelled on the remote control as one of the following buttons:
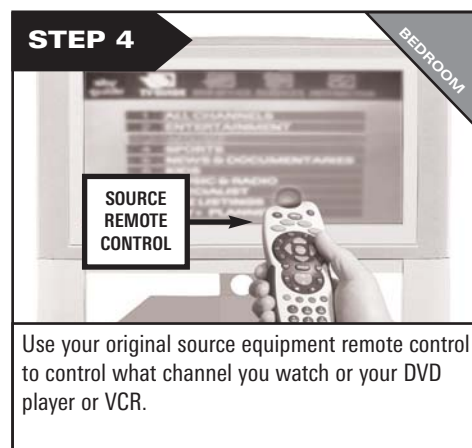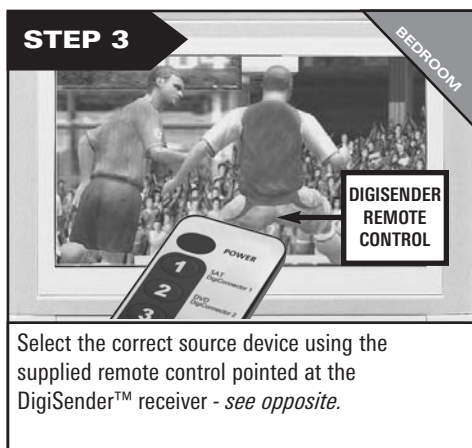
AV, VIDEO, VCR, AUX, SCART, EXT, 0 ⏎

Refer to your tv's manual for further assistance.

STEP 5
Using the DigiSender™ X7

The DigiSender™X7 is designed to be simple to use once set up.

The supplied remote control can be used to switch between sources, such as Satellite/Cable, DVD and VCR.

STEP 1 *LIVING ROOM*

Switch on the source equipment such as your satellite receiver or DVD player.

STEP 2 *BEDROOM*

2nd TV REMOTE CONTROL

Select the SCART channel on the second television using the televisions remote control. Look for a button labelled AUX, AV, VIDEO, VCR or ⬅.

STEP 3 *BEDROOM*

DIGISENDER REMOTE CONTROL

Select the correct source device using the supplied remote control pointed at the DigiSender™ receiver - *see opposite.*

STEP 4 *BEDROOM*

SOURCE REMOTE CONTROL

Use your original source equipment remote control to control what channel you watch or your DVD player or VCR.

continued...

Transmitter Source Select Controls.

The POWER button toggles the DigiSender transmitter and receiver mode between STANDBY and ON. The power LED indicates the current mode - GREEN for ON, RED for STANDBY.

Press 1,2,3 or 4 with the remote pointing at your receiver, to select a device connected to your DigiSender™ transmitter. For example you could switch between your satellite/cable, DVD, VCR and CCTV camera from your bedroom.

1 = DigiConnector 1
2 = DigiConnector 2
3 = RCA Input 3
4 = RCA Input 4

Please use your original or compatible remote controls to control your source equipment. The supplied remote control cannot be used to achieve this.

POWER

1 SAT
DigiConnector 1

2 DVD
DigiConnector 2

3 VCR
Aux. Input 3

4 AUX
Aux. Input 4

SOURCE DEVICE

the wirefree video system
DigiSender