Model: DGXDSDV111SMA-2KM

DigiSender® XDSMA-2KM
Wirefree TV for your home

2000m Long Range Digital AV Sender System

Contents

For indoor use only. Do not expose the transmitter or receiver units to moisture as this may lead to faulty operation and risk of electric shock.

Risk of electric shock, do not open. None of the contents of this DigiSender® pack contain user-serviceable parts.

Avoid dripping or splashing liquids on the transmitter or reciever and do not place objects filled with liquid on them.

The transmitter and receiver rating labels are located on the base of the units.

All stated ranges of up to 2000 metres are with clear line of sight and subject to site survey.

Introduction

Congratulations on purchasing the new DigiSender® XDSMA-2KM from AEI Security & Communications Ltd. This product represents the absolute pinnacle of state-of-the-art wireless audio video distribution technology, at exceptional value for money.

You can now enjoy DVD quality video and Hi-Fi stereo sound from your satellite, cable, DTV, DVD, DVR or VCR on another TV up to 2000 metres away!

Its use of spread spectrum digital technology means that signals will not only pass through walls and ceilings effortlessly, but that the signal will not degrade or be affected by interference from similar wireless devices. In fact, this technology coexists so seamlessly with other wireless technologies, that it can be set up and run right next to a wireless router, something that has never before been possible.

With innovative features like the DigiConnector™, IR Systeme Technik™ Remote Relay Kit and a Test Mode you can rest assured that you have purchased one of the most advanced video sender systems available on the market today.
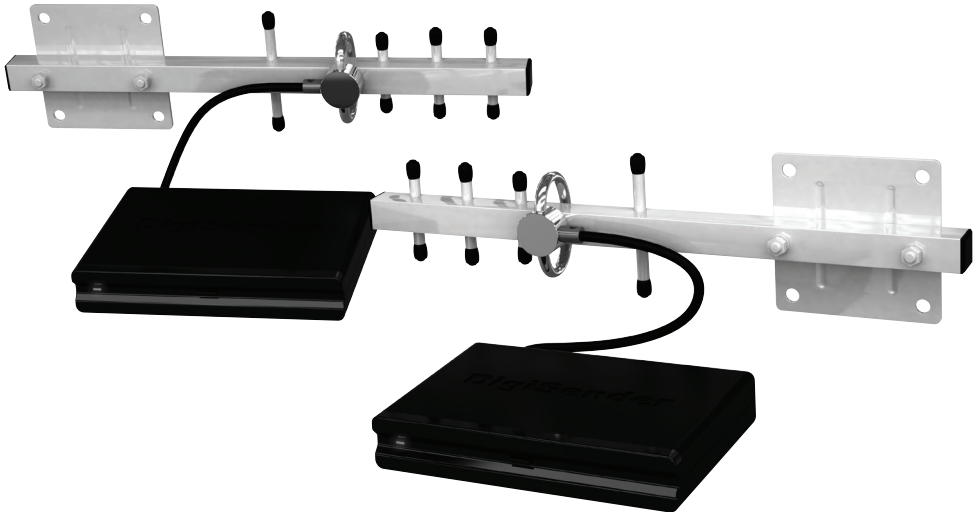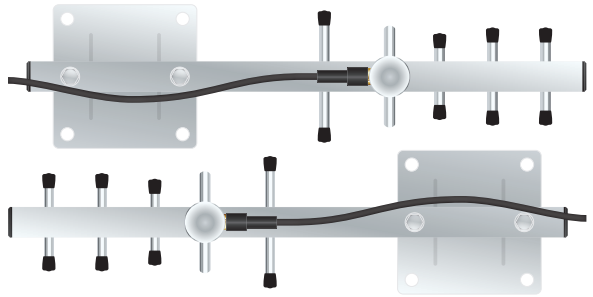
Installing your DigiSender® XDSMA-2KM
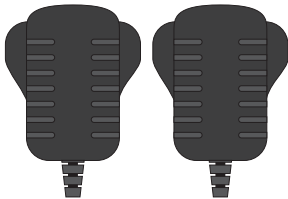## Step 1 - Unpack your DigiSender®

All DigiSender® orders are computer weight checked when packed. However, it is a good idea to check all kit contents are present before proceeding with the installation.
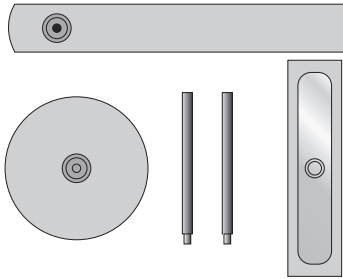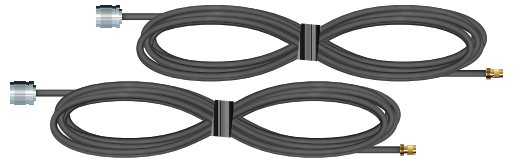
IR Systeme Technik™ Kit

2x Yagi™ 2km Antennas

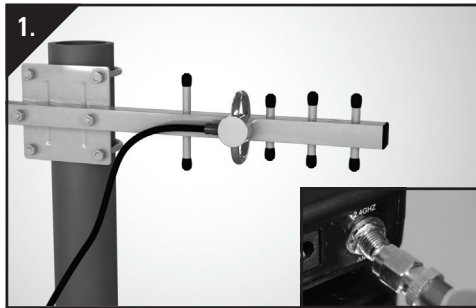2x Power Supply Units

2x 12m Low Loss Cables

Transmitter

Receiver

Installing your DigiSender® XDSMA-2KM
Step 2 - Install the Transmitter

The Transmitter will send the audio and video from a connected source (your Satellite Receiver for example) to the Receiver, located up to 2000 metres away.

1.

Install the Yagi™ 2km Antenna in the desired transmitting location using the supplied pole mounting brackets and connect the large end of the 12m low loss cable. Connect the smaller end to the DigiSender® Transmitter

2.

Connect the DigiConnector™ to your Satellite, Cable or Freeview box. Use the SCART socket labelled 'TV' or 'OUT'. Connect any existing SCART lead into the rear of the DigiConnector™.
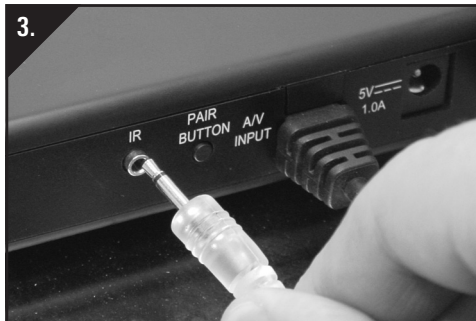
3.

Connect the IR Emitter to the socket labelled 'IR' on the back of the Transmitter. See Page 06 for more information on installing the IR Systeme Technik™ Remote Relay Kit.

4.

Connect the Power Supply Unit (PSU) to the socket labelled '5V ~1.0A' on the rear of the Transmitter and plug it into an available mains socket. The Power LED will light up Red to indicate that the unit is in Standby Mode.

Installing your DigiSender® XDSMA-2KM
Step 3 - Install the IR Systeme Technik™ Remote Relay Kit

The IR Systeme Technik™ Remote Relay Kit includes various accessories that will help you in setting it up the Remote Relay system correctly.

Once set up, this Remote Relay system will enable you to control your source equipment (your satellite receiver for example), with its remote control, from the receiving location.

Accessory #1

Extension Pieces

Accessory #2

IR Emitter

I • R
SYSTEME
TECHNIK
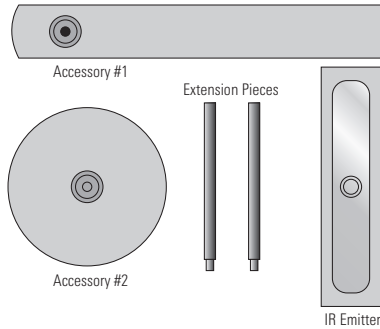
Example 1: Mount the IR Emitter vertically using accessories 1 and 2. Ensure the LED is facing the IR sensor on your source equipment.

Example 2: Mount the IR Emitter horizontally using the supplied sticky pad. Ensure the LED is facing the IR sensor on your source equipment.

Installing your DigiSender® XDSMA-2KM
Step 4 - Install the Receiver

The Receiver will pick up the signals being sent by your Transmitter and output them to a connected TV.

1.

Install the Yagi™ 2km Antenna in the desired receiving location using the supplied pole mounting brackets and connect the large end of the 12m low loss cable. Connect the smaller end to the DigiSender® Receiver.

2.

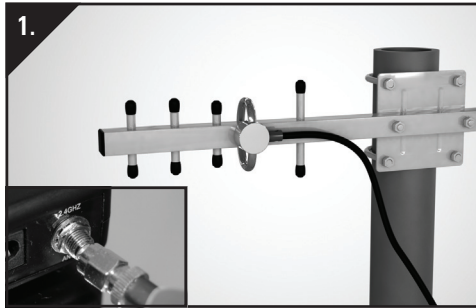Locate a vacant SCART socket on the back of your receiving TV and connect the Receiver SCART plug.

3.

Connect the Power Supply Unit (PSU) to the socket labelled '5V ~1.0A' on the rear of the Receiver and plug it into an available mains socket. The Power LED will light up Red to indicate that the unit is in Standby Mode.

Please Note: It is important that both Antennas are pointed towards each other and installed in the same plane. i.e. Both vertically or both horizontally.

Installing your DigiSender® XDSMA-2KM
Step 5 - Test your Setup Using the Test Mode

Your DigiSender® XDSMA-2KM is set to Test Mode by default and will aid you in getting the best possible picture and help identify any problems that may arise during installation.

1.

Switch on the source equipment (Satellite, Freeview, DVD, VCR, etc.).

2.

Turn on the Transmitter by pushing the Power button on the front of the unit. *The Power LED will change from Red to Green to indicate that the unit is switched on.*

3.

Turn on the receiving TV, and select the SCART channel assigned to the SCART socket that you plugged the Receiver in to. *This may be labelled as SCART, AUX, AV, VIDEO, VCR or* ⬅.

4.

Turn on the Receiver by pushing the Power button on the front of the unit. *The Power LED will change from Red to Green to indicate that the unit is switched on*

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5.

The DigiSender® XDSMA-2KM Boot Screen will be displayed whilst the Receiver locks on to the Transmitters signal.

6.

After approximately 5 seconds the picture will change to whatever you are transmitting. *If the picture does not change, you may need to re-sync the Transmitter and Receiver. See page 12 for more details.*

7.
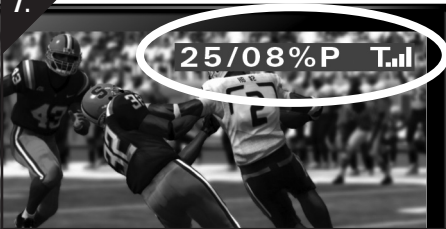
You will notice that at the top right corner of the screen is a blue Diagnostics Bar with some information on it. *If the Diagnostics Bar is not present, then your Receiver may not be in Test Mode. Flick the Mode Switch on the back from Normal to Test and turn the receiver off and then back on again.*

8.
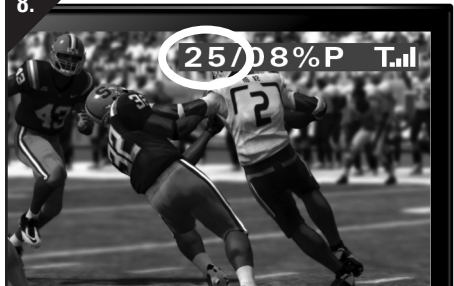
The first number indicates the Frame Rate that the Receiver is picking up from the Transmitter and outputting to your TV.

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Note: When switching from Test Mode to Normal mode, or vice versa, it will be necessary to turn the unit off and then back on again.

9.

The second number indicates the Packet Rate. This is the percentage of data packets sent from the Transmitter that are having to be reconstructed by the Receiver.

10.
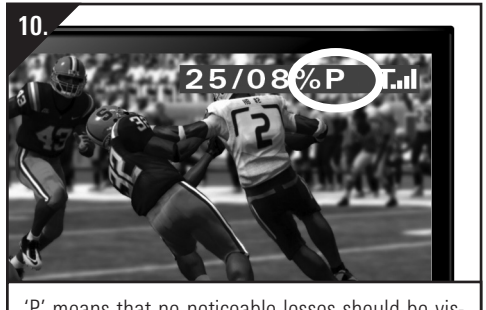
'P' means that no noticeable losses should be visible in the picture quality and the frame rate should remain steady at around 25. 'F' means that you may notice subtle losses in the picture quality. As the Packet Rate increases, the Frame Rate will also reduce.

11.
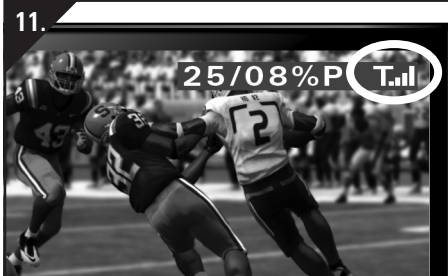
The last icon indicates Signal Level. This is key to a good Frame Rate and Packet Rate. Endeavour to keep this as high as possible. *If you are getting a low Frame Rate, Packet Rate or Signal Level, you may need to adjust the positioning of the units and/ or aerials.*

12.

Having made any necessary adjustments, flick the Mode Switch from Test to Normal and turn the unit off. *Installation is now complete and you can enjoy your satellite channels on another TV in your home!*

Using your DigiSender® XDSMA-2KM
Standard Operation

1.

Switch on the source equipment (Satellite, Free-view, DVD, VCR, etc.).

2.

Turn on the Transmitter by pushing the Power button on the front of the unit. *The Power LED will change from Red to Green to indicate that the unit is switched on.*

3.

Turn on the receiving TV, and select the SCART channel assigned to the SCART socket that you plugged the Receiver in to. *This may be labelled as SCART, AUX, AV, VIDEO, VCR or* ⬅.

4.

Turn on the Receiver by pushing the Power button on the front of the unit. *The Power LED will change from Red to Green to indicate that the unit is switched on*

Using your DigiSender® XDSMA-2KM
Re-syncing the Transmitter and Receiver

Should you need to re-sync the Transmitter and Receiver at any point, this can be achieved by following the instructions below.

1.

Turn on both the Transmitter and the Receiver.

2.
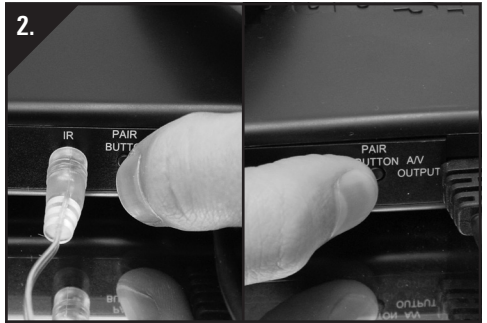
Press and hold the Pair Button on the back of the Transmitter and Receiver, simultaneously, for 5 seconds and then release.

Please note that because you need to hold the Pair Button on both the Transmitter and Receiver simultaneously, you will need to have the Transmitter and Receiver in the same room as each other and within reach. Alternatively, if you have someone that can help, they can hold the Transmitters Pair Button in the lounge while you hold the Receivers Pair Button in the bedroom.

Troubleshooting
Frequently Asked Questions

Q. My picture is jerky, how can I solve this?
A. A jerky picture is an indication of poor Frame Rate. Put the system into Test Mode (see page 08 - 10) and check the Signal Level. Try adjusting the position of the antenna on both the Transmitter and Receiver whilst another person monitors the Signal Level.

Q. How can I improve the Frame rate?
A. Poor Frame Rate is the result of a significant loss of data packets (a poor Packet Rate) from the Transmitter. The Receiver is able to reconstruct the lost data packets but it has to make an intelligent guess as to their value. Try adjusting the position of the antenna on both the Transmitter and Receiver until the problem is resolved.

Q. I can never acheive a good Packet Rate, can I just leave it as is?
A. Sure. The Receiver has been designed to work with significant packet data loss without any serious degradation to picture quality and never a loss of sound quality.

Q. Do the antennas need to point directly at each other?
A. Yes. The antennas must be pointed at each other. They must also be in the same plane, so for example, if the Transmitter Antenna is mounted vertically, the Receiver Antenna must also be mounted vertically.

Q. Will trees and buildings reduce the range of the DigiSender® XDSMA-2KM?
A. Yes, trees, buildings and any other objects that are inbetween the Transmitter Antenna and Receiver Antenna will affect range. Ranges are typically between 200m and in excess of 2000m.

Troubleshooting
Technical Support

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

1. Website
Free technical advice is available online 24/7 at our dedicated support web site: **www.aei.eu**

2. Online Videos
Watch online Installation and Troubleshooting Video Guides at: **www.aei.eu/video**

3. Email
Email our technical department directly at: **support@aei.eu**

4. Live Chat
Chat to one of our technical advisors live. See website for details.

5. Telephone
We have a dedicated helpline, open Monday to Friday, 8.30am - 4pm. **Call 02071 931 413**

WATCH A VIDEO INSTALLATION & TROUBLESHOOTING GUIDE
Available online at: www.aei.eu/video

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 bearing the series code prefixed:

DGx, DVx, DXx *(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 V1.3.1: 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 - Limitations of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, 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   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 advice.

CE 0359   **AEI** SECURITY & COMMUNICATIONS

Original Document of Conformity has been signed.

SPECIFICATIONS

Transmitter Inputs	1x DigiConnector™ SCART
Receiver Outputs	1x SCART
Operating Frequency	2.4GHz Digital
Remote Control Compatiblity	RC5, RC6
Video Input Level	1V Peak-Peak 75Ω
Video Input Colour	PAL (Phase Alternate Line)
Audio Input Level	1.0v PP (Mod 1KHz, Dev 15KHz)
Audio Bandwidth	20Hz - 22KHz (-3dB)
Range	2000m (clear line of sight and subject to site survey)
Power	5V DC, 1.0A
Dimensions	L: 90mm, W: 140mm, H: 25mm
Weight	0.23kg

CW310811-1

Registered in England: 02831823