

# **SUGDEN** AUDIO

## **A21SE** Signature

### **INSTRUCTION MANUAL**

**MAY 2024**

Designed and manufactured in England by  
J E Sugden & Co Ltd  
Valley Works  
Station Lane  
HECKMONDWIKE  
West Yorkshire  
WF16 0NF  
ENGLAND

## **BEFORE USE**

**This section must be read before connecting to the mains supply**

### **MAINS CONNECTION INFORMATION**

Your SUGDEN amplifier has been designed to comply with the domestic power and safety requirements that exist in your area. This amplifier can be powered by AC ONLY.

### **CHOOSE A SAFE AND SUITABLE LOCATION**

Your amplifier is a class A design and therefore requires good ventilation

DO NOT: Expose to direct Sunlight

DO NOT: Position next to a heat source such as a radiator

DO NOT: Use in places with high humidity or poor ventilation

DO NOT: Subject to mechanical vibration

DO NOT: Place on an unstable or inclined surface

DO NOT: Stand other equipment on top of the amplifier

Never block the ventilation holes or stand directly on a carpet

### **GUARANTEE**

To **activate your guarantee**, please complete the owner registration form on our website [www.sugdenaudio.com/warranty](http://www.sugdenaudio.com/warranty)- registration within 60 days of purchase. It is in your best interests to register your ownership to ensure you benefit fully from our warranty. Your details are not shared with any other company.



The A21SE is in conformity with the EMC directive and low-voltage directive.



### **UNPACKING**

Your amplifier should reach you in a substantial protective carton. On unpacking please examine the unit for signs of prior use or damage. Check that all the front panel controls function mechanically. The following items should also be in the carton:-

- (1) AC power lead with pre-molded IEC straight connector and plug..
- (2) Remote Control

### **RECYCLING**

This products packaging materials are recyclable and can be reused. The product and the accessories packed together are the applicable product to the WEEE directive except batteries. Please dispose of any material in accordance with your local recycling regulations. When discarding the unit, comply with your local rules and regulations. Batteries should never be thrown away or incinerated but disposed of in accordance with your local regulation concerning chemical waste.

### **INSTALLATION - IMPORTANT**

There are two points that must be considered carefully when installing your amplifier.

- 1) Adequate ventilation.
- 2) Proximity to low level gain stages and magnetic tape recorders.

Because the A21SE is a pure class 'A' design a large amount of heat will be generated from the amplifiers heatsinks, this is normal. It is VERY IMPORTANT that the amplifier must not be confined in a space that will produce a build up or re-circulation of heated air. We recommend a clearance of 10cm (four inches) either side and above the unit. This will allow a free circulation of air when situated in an open-back cabinet. Never stand equipment on top of the amplifier. The amplifier should be kept away from any heat sources such as direct sunlight or radiators.

The amplifier should be switched off when not in use.

### **SWITCHING ON - IMPORTANT**

**Set the VOLUME CONTROL to the minimum position and then switch on the amplifier. As your A21SE Signature is a pure class A design it is important to wait 30 Seconds before operating any controls to let the quiescent current reach its correct operating level. Select the input and slowly adjust the volume control to the desired level as the source component begins to play. If switching the unit off, leave for at least 5 seconds to allow the circuit to discharge before switching on again.**

### **CONNECTING TO A MAINS SUPPLY**

Before connecting your amplifier to a mains supply ensure that the mains voltage rating on the inspection ticket and packing carton is the same as your countries supply. Connection to the mains is via the AC cable supplied with your amplifier and connects to the mains input socket at the back of the amplifier.

### **MAINS CABLES AND POWER SUPPLIES**

We do not recommend the use of specialist mains blocks or power supplies as this can degrade the sound quality and reduce the dynamic range of your amplifier.

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[www.sugdenaudio.com](http://www.sugdenaudio.com)

## SIGNAL CONNECTIONS

Always ensure that your amplifier is switched off before any connections are made to associated equipment. We recommend that good quality cables and plugs are used with your Sugden amplifier. Your retailer or Sugden Audio can advise you on cables that offer good performance and match Sugden products.

### Loudspeakers

Loudspeaker connections are made via the gold plated multi-way binding posts at the rear of the amplifier these are marked R(right) and L(left) for identical connection to your loudspeakers. Both left and right speakers have a positive (+) and negative (-) connection which are also for identical connection to your loudspeakers. We recommend that loudspeakers of 4 -16ohms impedance should be used with your amplifier.

If bi-wiring please follow the instructions supplied by the manufacturer of your loudspeaker carefully, incorrect wiring can damage your amplifier or blow channel fuses.

### Input Signals

All input connections are via standard RCA type gold-plated phono sockets. The top socket is right channel and the bottom socket is left channel for identical connection to your source components. The input sensitivity of your amplifier makes it suitable for connection to any line-level component. These include CD Player, Tuner, SACD/DVD-A player.

### Output Signals

There are two stereo outputs on your amplifier, one fixed and one variable.

- 1) Tape Output - This is a fixed output and is live at all times supplying an output suitable for the tape-In of a tape recorder. This allows a tape recording to be made of the input you have selected from the input selector switch on the front of your amplifier. Other uses include connection to an external headphone amplifier like the Sugden HA-4.
- 2) Pre-amp Output – This is a variable output and is supplied from the A21SE pre-amplifier circuit. As the output is the same level as the signal supplied the power amplifier stages of the A21SE, it is possible to drive an additional stereo power amplifier in a bi-amplified system. Other uses include connection to an external slave amplifier for additional loudspeakers.

### Volume control

The volume control adjusts the power delivered to the loudspeakers and hence controls listening level. Zero volume is at fully anti-clockwise position or 'six 'o' clock'. A high quality motorised volume control has been selected for your amplifier and this can be operated from a Sugden RC5 System control.

### Input Selector

The input selector switch is located at the far right of the amplifier when viewed from the front. There are five inputs, with the selector switch turned anti-clockwise you are at input one. Fully clock wise is input five. The switch requires a minimum amount of effort to rotate and should not be forced. The switch will rotate 45 degrees either side of its central detent at '12 o'clock'.

### Additional information

#### FUSES-Replacement should be carried out by a suitable technician

Should a fuse blow this is usually an indication that a fault exists. It is important that the cause of the fault is determined and rectified before replacing a fuse. If in doubt consult your local dealer or our distributor for assistance. All fuses used in Sugden equipment have the specification on them. NEVER bypass any fuse in your amplifier. NEVER replace a fuse with one of a different specification or value.

### HT FUSES

There are two fast blow 2.5AMP fuses located on each of the power board modules. These protect the amplifier from a short circuit on the loudspeaker outputs or over load.

### MAINS FUSE

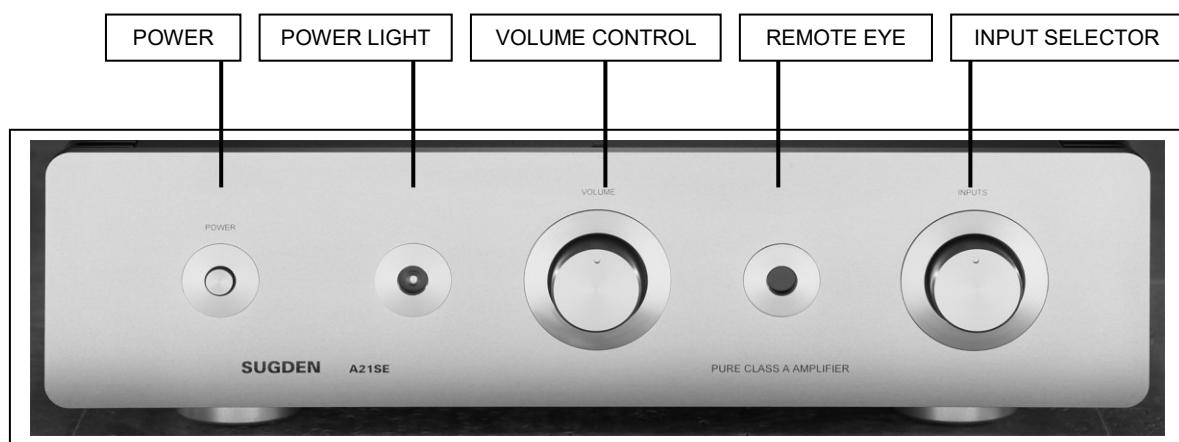
The mains Fuse is located at the rear of the amplifier and is externally accessible. It is combined in the mains input socket together with a spare fuse of the correct value.

## A21SE Signature Specification @ 220Volts setup.

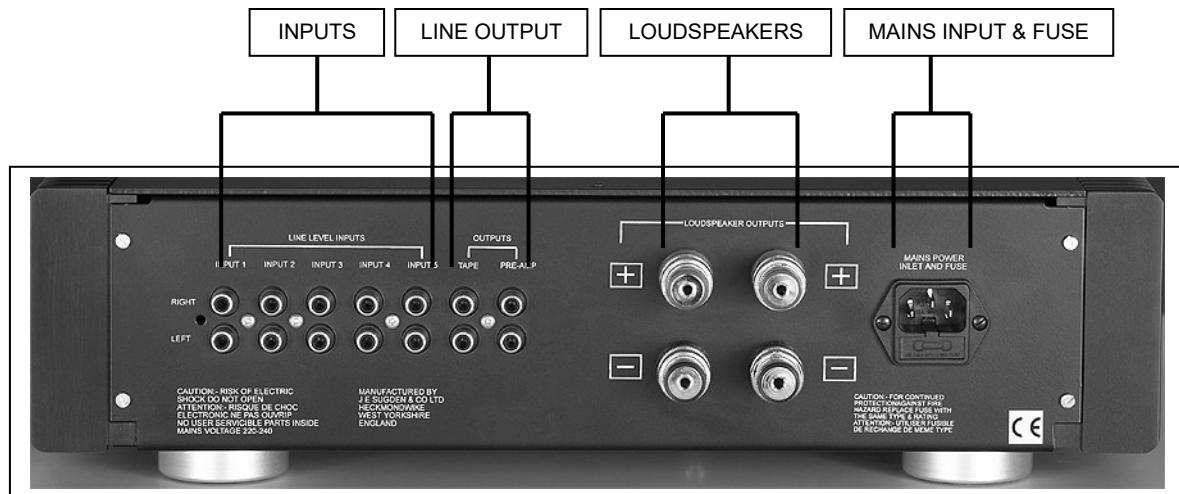
Specification	
Max Power Consumption	300 Watts
Power Output	40 Watts Pure Class A (4 Ohms)
	30 Watts Pure Class A (8 Ohms)
Frequency Response	12Hz to 141kHz
Bandwidth (wide)	6Hz-280kHz
Signal to Noise Ratio	>90dB
Input Sensitivity	110mV @ Zero Attenuation For
	Full Output
Input Impedance	50K

The manufacturer reserves the right to alter specification without notice

### A21SE Integrated Amplifier Front Panel Controls



### A21SE Integrated Amplifier Back Panel and Controls



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