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ODS Classic® Instrument Amplifiers

V 2.1.2

Operations Manual

For ODS Models (head and combo)

ODS-50 ODS-100

Fuchs Audio Technology

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A Note from Andy,

First of all, Thank You for choosing a Fuchs Audio ODS Classic amplifier!

As a guitar player, I designed our ODS series of amplifiers to be sensitive tools for musicians to find their own musical voice and to create beautiful music. Each ODS is precision crafted by me and the team at Fuchs Audio, to extremely high standards, using the highest quality components. With over two decades experience in the service, manufacturing, and design of tube audio/music equipment, we at Fuchs Audio are extremely proud of the quality and tremendous musicality of our ODS amplifiers.

<u>Please read this manual carefully</u>. Doing so will allow you full understanding of your ODS controls and operation, thus quickly providing you the tones & performance you want. <u>Your ODS can only perform to its fullest through your understanding of all its</u> features.

Feel free to call or e-mail us (we love emails!) with comments & questions about your ODS, or just to find out what's new here at Fuchs Audio.

Lastly, I recommend checking out our website: www.fuchsaudio.com, for product/user updates, cool links and other info benefiting our customers.

Welcome to the Fuchs family,

Andy Fuchs
President
Fuchs Audio Technology LLC ®

Fuchs Audio Technology®

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ODS CLASSIC Instrument Amplifier

Table of Contents (by section)

- 1) Introduction to Fuchs Audio Technology Amplifiers
- 2) Please Read before powering up your ODS!
- 3) Diagrams- FRONT/REAR panel controls & Footswitches
- 4) Front panel Controls & their functions
- 5) (A) Rear Panel controls, inputs/outputs, (B) Effects Loop
- 6) Footswitches (standard, Artist, Artist Plus)
- 7) Biasing your ODS power tubes & other technical info.
- 8) Sample tone setting diagrams & notes
- 9) Warranty/repair information & mail-in warranty form

<u>Please note</u>: Many of our ODS amplifiers are custom-made, so not all features appear on all models. This operation manual will indicate features your specific ODS model may or may not have. (such as: 50/100 power switch, Artist footswitch or other options.)

1. Introduction to Fuchs Audio Technology Amplifiers

What makes our products unique?

The recent proliferation of "Boutique" amplifiers, allowed guitarists to experience what audiophiles have known for years: properly designed tube circuits can offer the finest musicality, detail, and sensitivity to playing subtleties of any type of amplifier. Anyone who's enjoyed the sweet, responsive character of a well-built tube amplifier realizes that it is nigh impossible model or simulate the "organic" qualities of a live tube amplifier.

We feel our designs go a few steps beyond those of other manufacturers!

In addition to refining our circuit designs and operating points with computer "Spice" modeling, we also spend countless hours tuning our circuits through careful parts testing and selection and then refining the internal layout of our products. Details like single-point star grounding of all internal circuits, premium audiophile grade power and output transformers, high-speed switching diode power supplies, regulated and buffered DC power supplies for both filaments and high voltage sources, are key elements to producing an amp that has truly unique sonic advantages. All completed amps are compared to reference samples on both test equipment by live players before they may be shipped.

Our attention to the power supply and grounding result in an amp with extremely high gain capability, but with a super low noise floor. This reduction in noise and increases in overall circuit clarity makes the selection of components an even more critical element to achieving good tone. While we use many time-honored component brands and features like "Orange Drop" Capacitors and/or carbon/metal film resistors, we also use Audiophile grade "Wonder Caps" and unique circuit refinements in many parts of our amplifiers as well.

It's a well-known fact that chassis materials can change the tone of the circuits built into them. We use an aircraft grade T-6 aluminum chassis, which is 1/6" thick, bent at its edges for strength, and when the front and rear panels are attached, forms a strong yet lightweight chassis. Aluminum also provides an excellent heat sink for excess tube, transformer, or regulator heat. Although we install fans in all models, our amps would dissipate plenty of heat even without a fan. The front and rear panels are attached to the chassis pan with pem-nuts, a 1/8 thick assembly formed at both the front and rear of the chassis for rigidity.

A combination of modern and traditional wiring methods

Internal construction in all models is based around a central circuit board, which supports most of the power supply and the amplifiers FX loop, driver and bias circuitry. The balance of the amp is hand wired, with particular attention paid to the preamp section and low-level circuits. All tube sockets are chassis mounted for strength and ease of replacement in the unlikely event a socket fails. This also keeps tube heat away from the other internal components in the amps.

Our amplifier power supply starts with a high voltage supply, which is rectified using high-speed switching diodes, combining the sonic attributes of a tube rectifier, with the efficiency of solid-state diodes. These produce greater voltages, a more rigid supply that doesn't 'bend' under the stress of loud playing, and they also produce zero heat. This DC supply is highly filtered, using over 200 ufd of power supply filtering, contributing to an amplifier that has a strong voice yet remains loud & clear up to it's limits.

Our output stage(s) feature separate bias for each power tube. Although we use premium "matched set" tubes as standard equipment, by individually setting bias, we can obtain maximum power before clipping, extending tube life with better tone. Our power amp driver circuit uses an AC balance trim control, which adjusts the signal balance to the power stage, keeping it linear, producing a clean, strong tone. When driven to clipping, overloading is ultra- smooth, compressing in a sweet way, not at all aggressive or harsh.

Our power transformers are designed for highest self-regulation as well as conservative operation, assuring lowest heat and highest reliability. Our output transformers (depending on the model) are premium grade audiophile quality. We use custom built power and output transformers, as well as custom wound chokes. All amplifiers feature 4, 8 and 16 ohm outputs, grain oriented steel cores, with heavy-duty mounting bells and hardware for maximum roadworthiness.

Buffered FX Loop

Our buffered FX loop features both series and parallel operation. It uses a conventional high-current biased cathode follower, which provides a low-impedance signal source, which is level adjustable and can drive from a pedal level to a rack mount unit cleanly. Two simple switches set series/parallel operation, signal levels from 0db to –20db, easily matching any and all effects, tube or solid state.

Studio Grade Reverb

Our reverb section features a digital engine designed by the late Keith Barr a founder of Alesis. The reverb is a 16 bit digital reverb interfaced via a unique tube mixer stage which is part of our effects loop insuring a musical warm non-digital sound. We feel have produced a quiet, dynamic reverb that sounds as warm and detailed as a tank and/or tube unit, plus the reliability of solid-state circuitry. This saves on both space, and heat generation within the amp. Our reverb is interfaced through the FX loop, adding warmth to the overall sound. Additional signal clarity is achieved by eliminating the common reverb mixer network used by most other manufacturers. We use this same reverb in our Good Verbrations pedal, Verbrator, ODS-II and Casino amps.

Our Preamp Circuits

Our preamp circuits form the heart-and-soul of our amplifier tone. Any subtleties lost or masked by preamp stages are truly lost forever. By operating our low-level circuits on a quiet regulated and passively buffered high voltage supply, using a mildly regulated DC supply, we completely eliminate the effects of conventional power supply filtering and decoupling. Audio signals can (and do) appear on power supply sources. Despite large filter capacitors these audio signals do not belong on the pure DC that a tube circuit needs to perform properly. This subtle coupling of signals from adjacent stages can produce a masking of inner detail and potential instability in other high gain circuits. A careful selection of passive parts (resistors and capacitors), as well as the active parts (tubes and/or solid state parts), results in the unique sonic signature our amps are becoming known for. We also use regulated DC filament power supplies, for lowest practical noise floor. All relay circuits, all digital reverb units and their support circuitry are regulated DC as well. This insures consistency despite line voltage variations as well as filtering any noise.

Internal Construction

We proudly can say our products are built better than ever. Our latest circuit boards are two-sided extra thick boards, with heavy 2-oz copper plating and a full solder mask labeling all parts. Our internal layout has been refined to minimize wire runs, lowering the noise floor to the circuit's practical limits. We still chassis mount our tube sockets for maximum strength, durability, and serviceability. We hand select our tubes for lowest noise and optimal tone. All passive parts are carefully chosen for both reliability and sonic attributes. Each Fuchs amplifier undergoes 20-40 hours of "burn-in" before leaving our shop. This ensures every Fuchs amp is built for the long haul. All amps are turned on and off 4-hours at a time for a week, which stresses the amps from a cold start to fully warm and starting over again. This reduces field failures or tube failures to a minimum.

2. Please Read Before Powering Up Your ODS

Please see Panel Diagrams in Section 3 for reference.

- 1) Inspect to make sure power & pre-amp tubes are intact & snuggly seated in their sockets.
- 2) Make certain a speaker (load) is plugged into the correct speaker input jack on the back of the amplifier (4 or 8 ohm). Failure to have a speaker connected to the amp will result in damage to the output tubes! Your ODS is supplied with multiple speaker inputs for various impedances, select the one closest to your speaker(s) impedance.
- 3) Reduce Front PANEL controls (MASTER, GAIN, INPUT, OUTPUT) to moderate levels (approx. at 7-9 o'clock or lower positions).
- 4) Install cable into footswitch and then connect into rear panel input marked FOOTSWITCH. Our artist footswitches use standard CAT-5 cables available at any computer or electronic store.
- 5) Install instrument cable from guitar into front panel INPUT
- 6) Be sure both POWER and STANDBY switches (rear panel) are in DOWN position.
- 7) Install power cord to ODS amplifier (AC POWER IN) and to AC power source. Make sure the line voltage matches the voltage indicated on the amp rear panel, before powering the amp up.
- 8) POWER UP amplifier by: 1) flipping POWER switch UP. WAIT at least 1 minute for tubes to heat up. 2) Flip STANDBY switch UP, amplifier will now operate.
- 9) The Amplifier is now fully on and ready to use. Feel free to adjust all controls as you see fit.

TO PUT AMP IN STANDBY MODE- Simply flip the STANDBY switch DOWN.

TO PUT AMP IN PLAY MODE- Simply flip the STANDBY switch UP.

TO TURN AMP OFF Flip the STANDBY switch DOWN. We then recommend (as a kindness to the output tubes) waiting at least 1 minute before flipping POWER switch DOWN hence fully shutting the amp down.

3. Diagrams of FRONT & REAR Panels and FOOTSWITCHES

Front Panel



Rear Panel



Effects Loop



ODS-Classic Footswitch (5-way)



(Please note that external appearances of footswitches may vary depending on production date. All functions remain the same regardless)

4. Front Panel Controls and Their Functions



Input Jack(s):

Input jack(s), are 1/4" phone plugs, designed for 1-Meg impedance, guitar-level signal. This input will readily accept pedals/effects without any loss in performance. The design of the ODS amplifier is quite flexible, so we first suggest exploring its performance without any effects or pedals initially.

Gain Control:

The gain control sets the input gain for the <u>primary clean preamplifier</u>. The clean channel acts as a preamplifier alone, during clean (non-overdrive) operation. When the amplifier is in overdrive mode, the clean channel functions as a preamp to the overdrive stage. The first gain control activates one of two gain boosts. This boost is the full range boost, adjustable internally, but factory set to about 3-db. All controls on the primary channel remain operational during overdrive, allowing the overdrive tone to be controlled.

Brite Switch:

The Brite switch is a three-position switch which operates on the gain control/and is active over about ½ of the input gain control range. From 'O' to about midway, it provides a boost to highs at two different frequencies. Up is more wide range and reaches into the midrange of the amp, which the down position is more subtle and is higher in the frequency range and less intrusive into the midrange. The center of the switch is off, and the effect of the switch decreases beyond the halfway point on the gain control rotation.

Deep Switch:

The deep switch shifts the overall tonality of the amplifier, <u>slightly increasing the low</u> <u>frequencies</u>. This is often useful for single-coil guitars, which sometimes need a low-frequency boost.

EQ Switch:

The EQ switch alters the operation of the tone controls. The upward EQ-1 position, gives highest gain, as well as a more aggressive rock type equalization. In the lower EQ-2 setting, tone is a more neutral/smoother tone. All tone controls work in both modes, however their range and depth of operation is changed.

High Control:

The High control serves 2 functions: (IN)-it adjusts high frequency spectrum. (OUT) the High control engages a mid-boost. This shifts the range of the high control downward, to include more midrange. All tone controls still operate, however the tone will be fatter.

Mid Control:

The Mid control serves 2 functions: (IN) Acts to adjust mid frequencies. (OUT) shifts the frequency of mid boost more into the lower midrange and a fuller tone. The high control will control the level of this boost.

Low Control:

This control adjust the low frequency spectrum of your ODS.

The Overdrive Controls (INPUT, OUTPUT)

The overdrive stage, as mentioned above is fed from the clean preamplifier. Two controls effect overdrive: You can increase this internal setting if desired The Overdrive Input (Front panel) sets the amount of distortion content, by adjusting the drive between the two overdrive stages and when pulled allows a manual overdrive activation with or without the footswitch. Overdrive Output acts to balance the volume of the Overdrive channel with the clean channel. The second (outer) concentric knob is overdrive tone. Full up is bright and turning the control downwards cuts highs on the output of the overdrive only.

There are no "correct" Overdrive settings, finding the desired tone setting depends on the guitars/pickups used, as well as your own personal tastes. (Note: An internal trimmer pet, factor; set at apprex. 1/3

rotation, sets the amount of signal fed from the clean channel into the overdrive stage's first tube. It also determines the type/quantity of overdrive required and gain of the preamp tubes. This can be adjusted-please contact us prior to attempting this)

Master Volume:

The master volume adjusts the overall volume of the amp and works in conjunction with the GAIN, INPUT & OUTPUT controls for overall volume of the amplifier.

Accent Control:

The accent control works within the power amp section, reducing negative feedback at higher frequencies. It adds an edge to the overall amplifier tone. It's excellent for cutting through in a band or a recording mix. It can also allow greater ability to selectively make notes feed back and "sing".

Reverb Controls:

The middle reverb control adjusts the level of desired reverb. The reverb is mixed in a fully transparent way that when the control is down the reverb is off and has no effect on the amp tone. The reverb can also be shut off via the footswitch. The footswitch lamp is ON when reverb is muted as the reverb is muted by a relay which is activated by the footswitch. The second outer concentric knob adjusts the reverb decay. When counter clockwise the reverb decay is short (like a small room). As you turn this clockwise the decay gets longer.

5. (A)-REAR Panel Controls, inputs/outputs and (B)-Effects Loop (A)-REAR panel Controls/input/output jacks



AC power cord input:

Using the supplied 120vac power cord. Connect AC POWER IN on amplifier and to AC power source.

AC power Fuse:

This fuse protects the amplifier if any malfunction occurs. Use ONLY stock fuse rating as supplied by factory.

Power On/OFF switch:

Up is ON, DOWN is OFF

Standby switch:

UP is ON, DOWN places the amplifier in STANDBY

Speaker input(s): (You must have a speaker load inputted to the ODS before powering on).

Connect using a ¼" phone plug to an outboard speaker cabinet. If you have an ODS Combo amplifier, connect to the combo speaker with supplied wire/1/4" jack. Multiple speaker inputs are installed on your ODS (4, 8, 16 ohm). Connect speaker to input jack that most closely matches your speaker(s) impedance. In the event of multiple cabinets, you can use a Y connector or daisy chain from one cabinet to the other and adjust for the impedance value. Parallel is half (so two 8-ohm cabinets equals 4 ohms) and so forth.

Series/Parallel pull switch:

<u>When in Series</u>-amplifier must have an effect installed or amp will not produce sound. <u>When in Parallel</u>-amplifier will always produce sound. Parallel mixes effect signal with drive signal, which then remains in amplifier. This pull pot IN is normal.

Return Trim pull switch:

Sets sensitivity & adjusts sensitivity of return input of the effects loop. Allows tailoring of signal of effect or rack device. If used in series mode, you then depend on outboard effect to mix wet/dry signal balance. Dry signal does not remain in amp. Pulling the control adds more return sensitivity to compensate for pedal use. There is no right or wrong position, whatever position gets you the appropriate level on your effects without overloading the effects themselves and they sound proper, is correct!

Return adjustment control:

This allows overall volume adjustment of amp (to set unity gain), thus retaining same volume with/without effect). This control sets the level coming back from your effects, also a secondary means of adjusting return of effect signal. NOTE: The higher gain position is usually used for pedal level signals, and the lower level is for rack type effects. The series parallel switch controls whether the loop is "open" (series) or "closed" (parallel). In series mode the amplifier will produce no sound (except reverb tank output). This is because an effect must be plugged into both the send and return jacks.

Return Input jack:

Connects to OUTPUT FROM your EFFECTS

Send Input jack:

Connects to INPUT TO your EFFECTS.

Send adjustment control:

Adjusts signal level going to effect. Adjust send control so that effect receives maximum amount of signal before distorting.



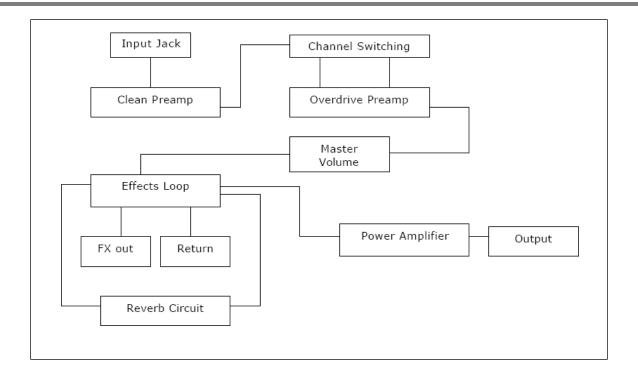
(B)-Effects Loop

Using the Loop:

When inserting a device like an equalizer, or perhaps a Sonic Maximizer (or similar processor), the loop should be set in series mode. The mix controls on the outboarddevice can be used to control all effects and the balance between clean and dirty effects.

Side-Chaining Effects:

For maximum signal purity and sound quality, when using effects like digital reverbsand/or effects like an echo or tape delay, the loop can be used in parallel mode. In this case, the effects should be run fully "wet" (no non-processed signals sent through the effect). The send and returns of the loop are set for proper balance of clean/effect and the controls on the effect can be used to trim the tone. This method assures the clean (dry) non processed signal will remain in the amplifier, and not be degraded by the outboard effect.



6. Footswitches

Your ODS-Classic is provided with a 5-way footswitch which controls all functions on the amp.

5-Way footswitch:

Connects via 5-pin Ethernet cable (supplied) to rear panel input. This footswitch allows remote control of 5 functions: mid-boost, two gain-boosts, overdrive/clean channel switching and reverb on/off. The artist footswitch requires: HIGH, GAIN, and OD INPUT front panel controls be pushed IN (off) for the footswitch to operate these functions. When an LED on the footswitch is lit, that function is ON, except REVERB (Reverb is muted when LED is lit). The amp/controls function normally without Artist footswitch connected.



7. Biasing ODS power tubes and other technical info

Biasing and Internal Adjustments:

Part of chassis and circuit board is shown below with the chassis sitting on its transformers, and front panel facing the user.

AC Balance:

This is factory set for linear clipping at maximum power output and is set with anoscilloscope for proper adjustment.

Bias Controls:

Each tube is factory set for .035 Volts (35 millivolts) measured on the one-ohm cathoderesistors connected to each power tube pin 8. This should be set with the amp cold, then reset after the amp has run for about an hour. Use a reliable digital voltmeter for these settings. Contact the factory for assistance making these adjustments or seek theassistance of a qualified technician for this.

!!! WARNING – ELECTRICAL SHOCK HAZARD!!!

THERE ARE EXPOSED POTENTIALLY **DEADLY** HIGH-VOLTAGES IN THIS AMPLIFIER, EVEN WITH THE AMPLIFIER SHUT-OFF!

If you are not familiar with servicing tube amplifiers and/or high voltages, *do not attempt* to remove the chassis from its cabinet or to attempt to service this amplifier. **Do not attempt to service, repair or conduct tube biasing on your amplifier unless you are qualified to do so.** Refer servicing to the factory or to someone with experience servicing these types of amplifiers.

<u>DISCLAIMER:</u> Fuchs Audio Technology, LLC®, its subsidiaries, affiliates and/or agents shall have no responsibility for, nor shall they be held liable for <u>any</u> harm of any kind to any person/s or property (including damage to this amplifier) as a result of improper and/or unauthorized service, repair or internal adjustments made to this amplifier.

FCC COMPLIANCE STATEMENT: This equipment has been tested and found to comply with the limits of Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.



DISCLAIMERS:

 Δ Read, retain, and follow all instructions. **Heed all warnings**.

 Δ Only connect the power supply cord to an earth grounded AC receptacle in accordance with the voltage and frequency ratings listed under INPUT POWER on the rear panel of this product.

Δ **WARNING:** To prevent damage, fire or shock hazard, do not expose this unitto rain or moisture.

 Δ Unplug the power supply cord before cleaning the unit exterior (use a damp cloth only). Wait until the unit is completely dry before reconnecting it to power.

 Δ Maintain at least 6 inches (15.25 cm) of unobstructed air space behind the unit oallow for proper ventilation and cooling of the unit.

 Δ This product should be located away from heat sources such as radiators, heatregisters, or other products that produce heat.

 Δ This product may be equipped with a polarized plug (one blade wider than theother). This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician to replace your obsolete outlet. Do not defeat the safety purpose of this plug.

 Δ Protect the power supply cord from being pinched, cut or abraded.

 Δ This product should only be used with a cart or stand that is recommended bythe manufacturer.

 Δ The power supply cord of this product should be unplugged from the outletwhen left unused for a long period of time, or during electrical storms.

 Δ This product should be serviced by qualified service personnel when: the power supply cord or the plug has been damaged; or objects have fallen, or liquid has been spilled onto the product; or the product has been exposed to rain; or the product does not appear to operate normally or exhibits a marked change in performance; or the product has been dropped, or the enclosure damaged.

 Δ Do not drip nor splash liquids, nor place liquid filled containers on the unit.

△ CAUTION: No user serviceable parts inside, refer servicing to qualifiedpersonnel only.

 Δ Fuchs ® amplifiers and loudspeaker systems can produce very high sound pressure levels which may cause temporary or permanent hearing damage. Use care when setting and adjusting volume levels during use.

GAIN	BRITE DEEP ROCK	K HIGH	MID	LOW	INPUT	OUTPUT	MASTER	ACCENT	REVERB	
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10750										
NOTES:										

9. Warranty Information



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The Fuchs Audio Technology-ODS Classic Warranty

Fuchs Audio Technology® guarantees our products to be free from defective workmanship or material failure for a <u>period of FIVE years (tubes excluded) from date of new purchase to the original purchaser</u>. This does not apply to Fuchs amplifiers that have been tampered with, damaged by shipping carriers, reverse engineered, or modified. This warranty is void if the amplifier is used with power attenuator type devices (Power Soaks, Air Brakes, Hot Plates etc.). Your warranty form/information must be returned to Fuchs Audio Technology® within 30 days of purchase, or your warranty will not be in effect. Fuchs Audio Technology® reserves the right to suspend or terminate the above warranty at our sole discretion, should damage from any of the above limitations and or exclusions be detected upon examination.

Keep the information on this page for your records.

Please mail-in warranty form on next page or register via e-mail.

FUCHS MODEL:		
SERIAL NUMBER:		
OPTIONS INCLUDED:		
PRODUCTION DATE	<i></i>	
TESTED BY:		Fuchs Audio Amplification®



WARRANTY REGISTRATION FORM

This completed form must be returned to Fuchs Audio Technology within 30 days of purchase along with a copy of your receipt from your authorized dealer.

rchasers Name:				
ldress:				
:y:	State:	Zip:	Country:	
one Number:		E-Mail address:		
odel:	Serial Number:			
te of Purchase:				
aler Name:				
mments:				

Please return this form to: Fuchs Audio Technology

407 Getty Ave, Clifton, NJ 07011 (973) 772-4420 (fax) 973-772-4460 Website: <u>www.fuchsaudio.com</u>

Email: www.fuchsaudio.com



All Fuchs Products are Manufactured in the United States from Domestically and Internationally Sourced Components.

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