

INTERNATIONAL LIMITED WARRANTY

ARX Systems (ARX) warrants to the first purchaser of any ARX equipment that it is free from defects in materials and workmanship under normal use and service. ARX's sole obligation under this warranty shall be to provide, without charge, parts and labour necessary to remedy defects, if any, which appear within twelve (12) months from date of purchase, and for a further twelve (12) months supply parts only.

This is our only warranty. It does not cover finish or appearance items, burned voice coils, or if the equipment has been, in ARX's sole judgement:

- Subjected to misuse, abuse, negligence or accident;
- Repaired, worked on, or altered by persons not authorized by ARX;
- Connected, installed, adjusted or used for a purpose other than that for which it was designed. This includes running a speaker system with the ISC leads disconnected, or with a non-ARX crossover, or with the wrong processor.

This warranty gives you and us specific legal rights and you may also have other rights which may apply.

Warranty Service Procedure

Should it become necessary to have your equipment serviced under the terms of the warranty, please follow these steps:

1. Call your ARX distributor for a Return Authorization (RA) number;
2. **Carefully** repack the unit, in its original packaging where possible, including a note with a description of the problem, and a copy of the receipt showing date of purchase. Attach these to the actual unit itself. Don't forget to write your name and address clearly, and include a phone number where you can be contacted during normal business hours. Make it easy for our service technicians to contact you if they have a question. Also, use **plenty** of packing material - better to be safe than sorry.
3. Send the unit freight prepaid to ARX Systems, at the address given you with your RA number. We will pay the return freight when the serviced unit is returned to you.
4. We strongly recommend you insure the package. We can't fix it if it gets lost! Send it by UPS, Fedex, DHL or any similar service that can track the package. Parcel Post is *not* recommended

If Warranty Registration Card is missing, please write to ARX in the country of purchase, stating model and where purchased, or to ARX, PO Box 15, Moorabbin, Victoria 3189, Australia.

Or you can Email us at: info@arx.com.au

UniFace™

Transformer Isolated AV/Podcast AGC Interface/ Audio Leveler

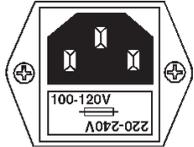
OWNER'S MANUAL



ARX Systems Pty Ltd, PO Box 15,
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International Fax: +61-3 -9555 6747
On the Web: www.arx.com.au
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! IMPORTANT - PLEASE READ THIS FIRST ⚡

THIS IS A DUAL VOLTAGE UNIT. IT IS ESSENTIAL THAT YOU CHECK THAT THE VOLTAGE ON THE FUSEHOLDER COVER BELOW THE AC CONNECTOR ON THE REAR OF THE CHASSIS IS SET CORRECTLY BEFORE CONNECTING IT TO AC POWER.



THIS IS SET FOR 100 V
AC TO 120 V AC
OPERATION



THIS IS SET FOR 220 V
AC TO 240 V AC
OPERATION

To change, pull fuseholder out and rotate 180°, then push in again. Do not insert power cable into unit until voltage has been correctly set. Do not connect power cable to AC power until voltage has been correctly set



RoHS

CE N1819

Manufactured in Australia

Complies with 89/336/EEC EMC Directive, amended by 92/31/EEC and 93/68/EEC; meets the following standards: EN 55013 : 1990, Sections 3.2 and 3.5, EN 55020 : 1988, Sections 4.3, 5.4, 6.2, 7.0, 8.0., and EN 60950 : 1994 Low Voltage Directive
Complies with Australian Standard AS/N25 1053

Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.

WARNING SYMBOLS USED ON THIS EQUIPMENT



This symbol is intended to alert you to the presence of important operating instructions contained in this owner's manual



This symbol is intended to alert you to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



This symbol indicates that a Slow Blow fuse is used in this equipment. Replace with same type and value only



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK OF UNIT
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED PERSONNEL

WARNING

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

ATTENTION

RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR

Specifications

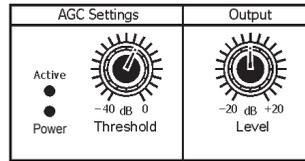
Input Impedance	44K Ohms balanced
Output Level	(Max) +21dB
AGC Threshold	-40 to 0 dB
AGC Output Gain	-20 to +20 dB
Output Signal/Noise (@ unity gain)	-90dB A weighted, all inputs @ Unity, Master @ Unity
Dynamic Range	115dB
System Master Outputs	Electronically Balanced Male XLR 300 ohms: Pin 1 Ground, Pin 2 +, Pin 3 -
Recording Outputs	Transformer isolated Balanced Male XLR, wired Pin 1 Not Connected, Pin 2 +, Pin 3 -
Frequency Response	20Hz-20 KHz ± 1dB
Distortion (@ unity gain)	Below 0.001%, 100 Hz to 10KHz
Input Connector Type	Female XLR

Complete online documentation is available on the ARX website:
www.arx.com.au/uniface.htm

Specific queries can be emailed to the factory at info@arx.com.au



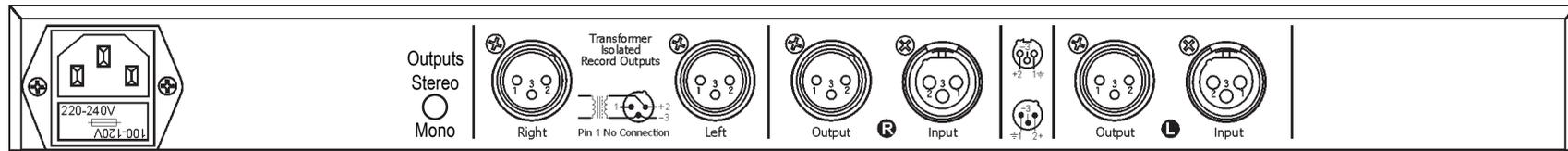
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Transformer Isolated Podcast Interface UniFace™

Front Panel Connectors

- AGC System Status LEDs
- Automatic Gain Control Threshold trim
- Recording Master Level control



Rear Panel Connectors and Controls

- 2 x Female XLR Balanced Inputs wired Pin 1 Audio Ground, Pin 2 +, Pin 3 –
- Male XLR Loop Outputs to speaker system amplifiers
- Transformer isolated Male XLR Balanced Recording Outputs, wired Pin 1 Not Connected, Pin 2 +, Pin 3 –
- Removable IEC type AC input connector, with inbuilt fuse

Architectural Specifications

The unit shall be mounted into a standard 1 RU steel chassis with extruded anodised aluminium front panel.

On the rear panel It shall have Left and Right electronically balanced 3 pin female XLR input connectors, corresponding to Left and Right electronically balanced 3 pin male XLR output connectors.

There shall also be Left and Right Recording Outputs on the rear panel. These outputs shall be transformer balanced male XLR connectors.

On the front panel there shall be LEDs to indicate that the Automatic Gain Control circuitry is active, and also that the unit is connected to AC Power.

There shall also be a Threshold control for the Automatic Gain Control (AGC) circuitry, from –40dB through to 0dB and an associated Output Level control, from –20dB to +20dB

Maximum Output Level shall be +21dB, and Dynamic Range shall be 115dB.

Output Signal/Noise @ unity gain shall be -90dB A weighted, Master @ unity, Frequency Response shall be 20Hz-20KHz ± 1 dB.

Distortion @ unity gain shall be below .001%, 100Hz to 10KHz.

AC power shall be switchable 100 to 120V or 220 to 240V AC, connected to the unit via a standard three pin IEC connector, with built-in fuse and voltage change switch.

The unit shall be the ARX UniFace

Latest information updates always available on the comprehensive ARX website:
www.arx.com.au

Connecting the UniFace

Like so many good ideas, setting up your **UniFace** is very straightforward.



1. **Firstly**, connect the unit to AC power.



Please Note: This is a dual voltage unit. It is essential that you check that the voltage on the fuseholder cover below the AC connector on the rear of the chassis is set correctly before connecting it to AC power. See Page 2 for more details.

2. Typically the **UniFace** will connect between the existing audio mixer and the the rest of the existing audio system, so connect the Left and Right Outputs of the Mixer to the Left and Right Inputs of the **UniFace**.
3. Connect the Left and Right Outputs of the **UniFace** to the Left and Right Inputs of the equipment that the audio mixer was originally connected to. Typically this would be an Equalizer, or the Inputs of a power amplifier.
4. The **UniFace** has now been inserted into the existing signal chain, which should operate exactly as it did before.
5. The dual Balanced Male XLR Outputs on the rear of the **UniFace** are the Recording Outputs, and these connect to the audio inputs of the computer sound card. These are transformer isolated to avoid ground loop hums and other noises being transferred to the recording. A rear panel switch will sum the outputs to Mono if required.
6. The Level is controlled by the Output Level control on the front panel. The Threshold of the Automatic Gain Control (AGC) should be adjusted until audio peaks stay under 0dB on the recording software. A status LED on the front panel indicates when the AGC is active.

Any LED illuminated on the front panel acts as an indicator that the unit is connected to AC mains power.

Introduction

Thank you for choosing this **UniFace** Transformer Isolated AGC Podcast Interface As with all ARX equipment, it has undergone extensive factory calibration and 'burn in' before shipping. To ensure continued trouble free use, please familiarise yourself with the contents of this manual before using the **UniFace**.

About the UniFace

These days, more and more educational institutions such as colleges, universities and high schools are expected to provide downloadable recordings - podcasts - of lectures and classes, for students to access at all times on the local area network. These recordings are typically taken from the classroom/lecture theatre sound system and saved to a computer in real time.

Problem 1: Getting the correct level is hard, given that the level requirements are different to those of speakers.

Problem 2: Maintaining a steady input level to the computer requires continual monitoring to prevent digital overload.

The solution to this is the new **UniFace** from ARX: A user-friendly way of adapting existing systems to be 'podcast-ready' by simply inserting it into the existing signal chain.

Two Balanced XLR Line input channels feeding into the Automatic Gain Control circuitry taken from our unique UniMIX. Specially tailored parameters ensure that levels remain constant, irrespective of Mic placement and user technique.

The result is a consistent level for the recording, removing the need for fulltime monitoring and the risk of overloading and distortion.

The Recording Outputs are stereo balanced XLR connectors, transformer isolated to prevent ground loops and associated noise.

For the room system, the UniFace has 2 Balanced XLR outputs, looped from the Balanced Inputs. The Input and loop Output XLRs are hardwired so there is no interaction with the existing room system.

Industry standard connections ensure that the UniFace neatly and compatibly interfaces with existing systems with no wiring modifications being required

Internally, careful attention to the signal path design, using precision components found in high-end mixing consoles, has resulted in a unit with very wide dynamic range. The UniFace has enough headroom to cope with the hottest line signal, and better than digital noise specifications

AC power range is a universal 100 to 120V or 220 to 240V AC, and is connected to the unit via a standard three pin IEC connector, with built-in fuse and voltage change switch.

Other applications include Boardroom/Annual General Meeting recording, Courtroom, Houses of Worship, and much more.