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Portable 8 Channel Microphone Amplifier With Dante® Network/ AES67 Audio Interface

Network Audio
Mic Amplifier

Dante™

DARK8MAIR
Network Audio Multi Channel Microphone Amplifier

Highlights

Ideal For Broadcast, Theatre & Pro Audio

8 Low Noise Mic Pre-amplifiers

Dante® & AES67 Compatible

Redundant Network Interface

Network Remote Control & Configuration

Redundant PoE Powering

Overview

The DARK8MAIR (Microphone Analogue Input Rackmount) is a very powerful Dante®/ AES67 network audio interface, in a robust stage box/ throw down style. It has a 8 off low noise mic/line inputs which are remotely controlled by a Windows 10 app. The outputs of the microphone amplifiers are transmitted on a fully redundant Dante®/ AES67 network interface.

Having 8 off low noise high quality microphone inputs makes the DARK8MAIR perfect for transporting audio circuits from a stage or a pitch side position to a mixer or other location within an audio network .

The rugged design, PoE/ Mains powering & remote control facility of the unit means that it can easily be placed and left unattended wherever audio sources are required.

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DARK8MAIR
Network Audio Multi Channel Microphone Amplifier

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- **Eight Audio Inputs**
  The DARK8MAIR has 8 audio inputs. Each input is on it's own Neutrik 3 pin XLR socket and each input can be set to accept line or mic level inputs. Clever internal circuitry even changes the input impedance to correctly match the input type.

- **Low Noise Mic Amps**
  The very best low noise & distortion microphone amplifiers chipsets by Profusion are used in our very carefully designed pre-amp. The design of the pre-amp took our chief design engineer over 3 months to develop and tailor to provide crystal clear sound unaltered by unwanted characteristics.

- **Mic/ Line/ Phantom Power**
  Each of the eight inputs can be individually switched to accept either a mic or line level input. The mic input can also have 48 Volt phantom power turned on/ off. Input selection and phantom power settings are enabled on the Windows 10 app.

- **Quality Analogue To Digital Converters**
  As well as the best microphone amplifiers the very best widest range analogue to digital converter's (ADC) currently available are used to make sure the digital audio on your network is as good as it possibly can be. The filter settings of the ADC can even be changed via the app.

- **Windows 10 App For Remote Control**
  The free windows 10 app provides full remote control of the Dark8MAIR. It allows switching of input types, gain control, level monitoring and more

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DARK8MAIR
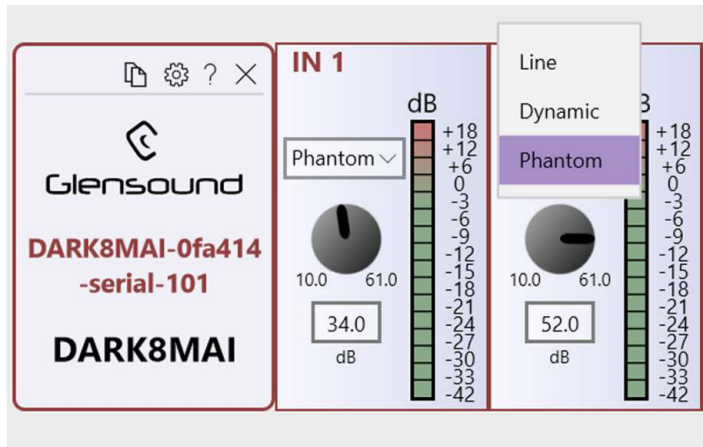### Network Audio Multi Channel Microphone Amplifier

Features

- **Network Interface**
  There are 4 network interfaces on the Dark8MAIR. There are 2 x Neutrik Ethercon (Rj45) connectors and there are also 2 x SFP slots for customers to fit their own preferred fiber interfaces.

- **Redundant Network Interface**
  When using the Dante protocol it is possible to set the Dark8MAIR to have a fully redundant network interface whereby a completely glitch free automatic redundant audio network link is provided across 2 off the network interfaces.

- **Power**
  Each Dark8MAIR can be powered from four independent sources to provide a multi-redundant power option.
  Each of the two copper network connections accept a PoE power source, allowing a suitable network switch to provide power and data connectivity to the unit. This means that just 1 cable can carry power and audio data to/ from the unit.
  Two wide range switch mode power supplies are also fitted as standard to provide redundant mains power supplies.
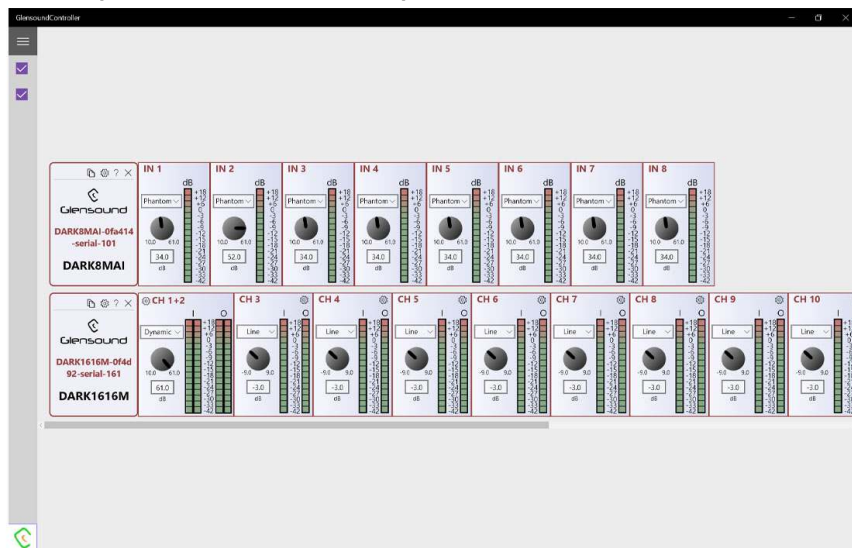
AES67

DARK8MAIR
Remote Control Via the Windows 10 App

Glen Controller gives full remote control of inputs, gain levels and configuration of any Dark units connected across a network.

- **Network Remote Control**
  Glen Controller is a Windows 10 PC application, and it can be downloaded for free from our website . When launched, Glen Controller scans the network for all connected Dark8MAIRs and DARK1616Ms which can be selected from the left hand side of the app.

- **Remote Control Of Mic Gain Levels**
  There are settings to select mic, mic +48v, or line inputs. A rotary control then acts as the gain level up and down. This all operates in real time.

- **Redundant Remote Control**
  The App connects to the Dark8MAIR via the same network as the Dante audio circuits and provides a reliable redundant control system via both the primary and secondary network interfaces, meaning that even if one of the 2 networks were to become disconnected the remote control would continue to work.

- **Multiple Apps**
  One App can connect to multiple DARK8MAIRs and multiple Apps running on different PCs can connect to a single DARK8MAI. The App provides the ability to lock out other users from controlling a Dark1616MAIR and this facility can be password protected, meaning only authorised personnel can change the settings on a unit.

DARK8MAIR
Designed For Broadcast & Audio Professionals

Specification

LINE INPUTS

Frequency Response
+/-0.25dB 20Hz to 22kHz

Maximum Input Level
+18dB

Input Impedance
>20k Ohm

Distortion
0.0013% @ 100Hz
0.0022% @ 1kHz
0.00094% @ 10kHz
Reference to +8dBu output

Noise
-93dB @ line up A weighted
RMS (22Hz to 22kHz)

Interchannel Crosstalk
>101dB @ 0dB with1kHz tone

Dynamic Range
>111dB

Input Type
Electronically balanced (can be wired Unbalanced)

POWER

PoE Inputs
2 off standard 48V one on each network Rj45

PoE Consumption
Total unit consumption <15 Watts

INCLUDED ITEMS

Network Cable
1 off 2 metre Rj45 Cable

Handbook
A5 paper handbook (download also available)

MIC INPUTS

Frequency Response
+/-0.25dB 40Hz to 22kHz

Input Range
-67 to -15dB (for -24dBFs line up)
-61 to -7dB (for -18dBFs line up)

Input Gain Resolution
3dB steps

Input Impedance
>2k4 Ohm

Equivalent Input Noise
127dB (22Hz - 22kHz Terminated 300 Ohms)

Distortion
0.013% @ 100Hz, 0.002% @ 1kHz
0.003% @ 10kHz, Reference to +8dBu output

Phantom Power
+48 Volts

PHYSICAL

Size
19" 1RU 185mm deep

Weight
1.9kg

Mechanics
All aluminium construction, anodized and laser etched front & rear panels

Shipping Carton
Rugged export quality cardboard carton 610 x 420 x 120mm LxDxH

Shipping Weight
3kg

REMOTE CONTROL

General
Windows 10 application. Direct install on PC. (Not App store download)

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