



KLARK TEKNIK USB 2.0 Converter Bidirectional Channel User Guide

[Home](#) » [Klark Teknik](#) » KLARK TEKNIK USB 2.0 Converter Bidirectional Channel User Guide

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Contents [[hide](#)

- [1 Important Safety Instructions](#)
- [2 LEGAL DISCLAIMER](#)
- [3 LIMITED WARRANTY](#)
- [4 Introduction](#)
 - [4.1 Features](#)
 - [4.2 About this manual](#)
- [5 Getting Started](#)
 - [5.1 Unpacking](#)
 - [5.2 Installation](#)
 - [5.3 Power](#)
 - [5.4 Handling the equipment](#)
 - [5.5 Electric fields](#)
 - [5.6 Connecting up](#)
- [6 Front Panel](#)
- [7 Operation](#)
- [8 Specifications](#)
- [9 Other important information](#)
- [10 FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION](#)
 - [10.1 DN9630](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)
- [12 Related Posts](#)

Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with 1/4" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure – voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



Caution To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.





Caution To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



Caution These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.

2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Use only attachments/accessories specified by the manufacturer. injury from tip-over.
12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped
15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.
16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
17.  Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.
18. Do not install in a confined space, such as a book case or similar unit.
19. Do not place naked flame sources, such as lighted candles, on the apparatus
20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point. 21. Use this apparatus in tropical and/or moderate climates.

LEGAL DISCLAIMER

MUSIC Group accepts no liability for any loss which may be suffered by any person who relies either wholly or in part upon any description, photograph, or statement contained herein. Technical specifications, appearances and other information are subject to change without notice. All trademarks are the property of their respective owners.

LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at music-group.com/warranty.

Introduction

Welcome!

Thank you for purchasing the DN9630 AES50 to USB 2.0 Converter! The DN9630 provides a multichannel interface between AES50 networks and your computer. Once the DN9630 is connected to your computer, proprietary software allows you to exchange both audio and AES50 control commands across the network.

Features

- AES50 to USB 2.0 converter for simultaneous computer audio recording and playback
- Up to 48 bidirectional channels @ 48 kHz and 24 bidirectional channels @ 96 kHz
- Ethernet control port provides interface to AES50 auxiliary data channel
- Switchable 48 kHz and 96 kHz sample rate operation
- Operates from incoming AES50 clock
- Powered via USB 2.0 interface
- Native Core Audio driver support in Mac OS X*, software drivers available for Windows* PC
- LED indicators monitor network activity and speed
- Compact and rugged design with durable aluminium extrusion casing
- Designed and engineered in England

*Mac and OS X are trademarks of Apple Inc. Windows is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

About this manual

This is the operation manual for the DN9630 AES50 to USB 2.0 Converter. This manual is intended to help get your unit installed and in operation as quickly as possible by giving you unpacking, installation, connection, setting up and operating instructions. To help familiarise you with the DN9630, there is a description of the front and rear panels, along with easy-to-follow user instructions.

Getting Started

This section shows you how to unpack, install, connect up, switch on and configure the DN9630 AES50 to USB 2.0 Converter.



This equipment is supplied by a mains voltage that can cause electric shock injury. Before installing, setting up or operating this equipment, make sure that you have read and fully understand all of this section and the "Important safety instructions" at the front of this manual. Refer to additional safety information on the top cover of the unit.

Unpacking

Carefully unpack your DN9630 unit. Then, inspect the DN9630 unit carefully for any signs of damage that may have occurred during transit, and then notify the courier immediately if you do discover any damage.

Check the contents of your DN9630 unit equipment package. If there are any parts missing, incorrect or faulty, please contact your local distributor or KLARK TEKNIK at the address at the front of this manual. Please retain the original packing in case you should need to return the equipment to the manufacturer or supplier, or transport or ship the unit later.

Before installing, setting up or operating this equipment, make sure you have read and fully understand all of the “IMPORTANT SAFETY INSTRUCTIONS” at the front of this document.

Installation

Before installing and operating this equipment, make sure it is correctly connected to the protective earth conductor of the mains voltage supply. Ideally a cool area is preferred, away from power distribution equipment or other potential sources of interference.

Do not install the equipment in places of poor ventilation.

Do not install this equipment in a location subjected to excessive heat, dust or mechanical vibration. Allow for adequate ventilation around the equipment. Whenever possible, keep the equipment out of direct sunlight.

Power

The DN9630 is powered via USB from a computer USB connection. Make sure the plug fitted on the supplied USB cable is securely fitted to the USB port on the unit. When fitting or removing a plug, always hold the plug itself and never use the cable, as this may damage it. Never insert or remove an electric plug with wet hands.

Handling the equipment

When lifting or moving the equipment, always take its size and weight into consideration. Completely isolate the equipment electrically and disconnect all cables from the equipment before moving it.

Electric fields

In accordance with Part 15 of the FCC Rules & Regulations, “... changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.”

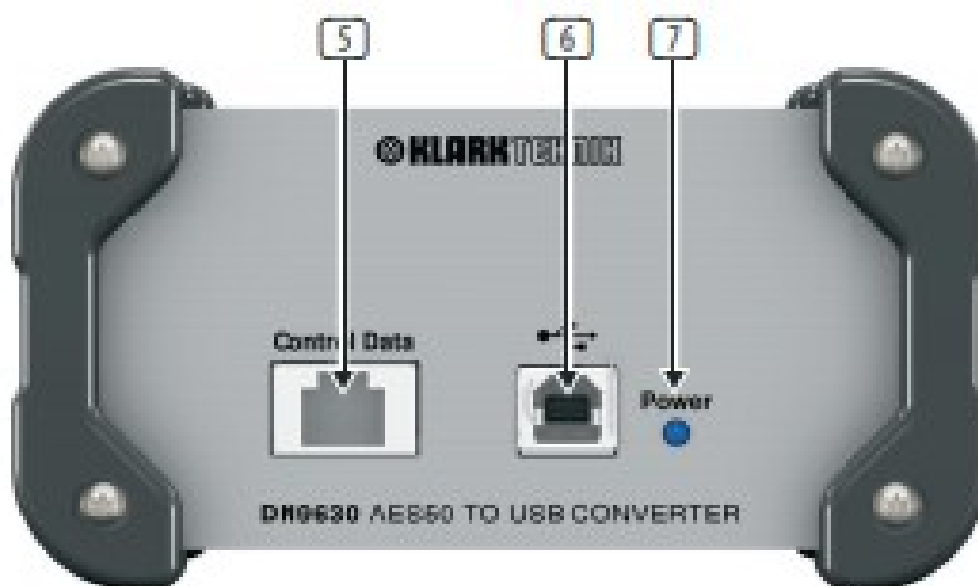
Should this product be used in an electromagnetic field that is amplitude modulated by an audio frequency signal (20 Hz to 20 kHz), the signal to noise ratio may be degraded. Degradation of up to 60 dB at a frequency corresponding to the modulation signal may be experienced under extreme conditions (3 V/m, 90% modulation).

Connecting up

The DN9630 unit uses the following leads and connectors:

Digital Connections	AES50 – etherCON Control Data – RJ45 / Cat5e Ethernet USB – USB 2.0, B-type
Power Connection	USB 2.0, B-type

Front Panel



1. **Green AES50 status LED** indicates proper functioning when lit.
2. **AES50** connection compatible with Neutrik etherCON.
3. **Red AES50 status LED** indicates an error with the port connection when lit.
4. **Sample Rate** switch selects between 96 kHz and 48 kHz sample rates.

5. **Control Data** transmits AES50 control commands between a computer and the DN9630 separately from audio data.
6. **USB input** transfers audio data between computer and the DN9630. The USB connection also supplies power to the unit.
7. **Power LED** lights to indicate the unit is powered on.

Operation

Control Software

The DN9630 ships with proprietary control software that allows you to transmit audio and AES50 control data between your computer and your AES50-equipped digital sound system.

The latest control software can be downloaded from the DN9630 product page on the KLARK TEKNIK website: music-group.com/brand/klarktechnik/home

To install the software, download the installer from the KLARK TEKNIK website, click on the download, and follow the installation instructions.

Here are the minimum hardware and operating system requirements to install and run the control software on your PC or Mac:

Minimum Hardware	
Windows-based application	<ul style="list-style-type: none">• Core 2 Duo CPU, 2 GHz• Ethernet port• 1 GB RAM
Mac	<ul style="list-style-type: none">• 1.5 GHz CPU• Ethernet port• 512 MB RAM
Recommended Operating Systems	
Windows	<ul style="list-style-type: none">• Windows 7, 32-bit or 64-bit• Windows 8, 32-bit or 64-bit
Mac	<ul style="list-style-type: none">• 10.6.8 Snow Leopard• 10.7.5 Lion• 10.8 Mountain Lion

Specifications

Connection	
AES50	etherCON x 1
USB	USB 2.0 x 1
Control Data	RJ45 x 1
Input/Output	
Channels of input/output @ 48 kHz	48 bidirectional
Channels of input/output @ 96 kHz	24 bidirectional
Sample rates	48 kHz / 96 kHz, selectable
Sample word length	24-bit
Clock synchronization	External
Latency	<10 ms
Power	
Connection	Remotely powered via USB 2.0
Consumption	XX W
Dimension	
Height	64 mm (2.5")
Width	118 mm (4.6")
Depth	152 mm (6.0")
Weight	
Net	0.5 kg (1.1 lbs)
Shipping	0.55 kg (1.2 lbs)

Other important information

Important information

Outras Informações Importantes

1. **Register online.** Please register your new MUSIC Group equipment right after you purchase it by visiting klarktechnik.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.
2. **Malfunction.** Should your MUSIC Group Authorized Reseller not be located in your vicinity, you may contact the MUSIC Group Authorized Fulfiller for your country listed under “Support” at klarktechnik.com. Should your country not be listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at klarktechnik.com. Alternatively, please submit an online warranty claim at klarktechnik.com BEFORE returning the product.
3. **Power Connections.** Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION

Responsible Party Name	MUSIC Group Research UK Limited
Address	Klark Industrial Park, Walter Nash Road, Kidderminster. Worcestershire. DY11 7HJ. England
Phone Number	+44 1562 741515

DN9630


complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.

Documents / Resources

	KLARK TEKNIK USB 2.0 Converter Bidirectional Channel [pdf] User Guide USB 2.0 Converter Bidirectional Channel, DN9630, AES50
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References

-  [Klark Teknik | Home](#)