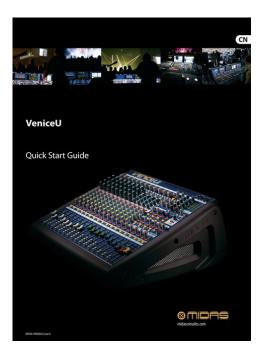**File Name:** Dn9696 Manual.pdf
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- **dn9696 manual.**

com and, to obtain the best results with a minimum of effort, also read this operator manual. Finally, enjoy your Klark Teknik Network Bridge. About the DN965X units The DN965X units provide bidirectional sample rate conversion of 24bit resolution digital audio between two clock domains, all in a standard 1U high 19" rack mount chassis. Front and rear panels of the DN9650 Network Bridge The DN9650 has an AES50 and a network clock domain, provided by a threeport AES50 digital audio interface and a third party network module interface, whereas both clock domains of the DN9652 are of the network type and are provided by two, third party network module interfaces. Supported network modules are designed and manufactured by Lab X Technologies and Audinate Pty Ltd. Bands and artists are increasingly being recorded for live CDs, DVDs, Internet releases and for general archive purposes; all are extremely valuable additional revenue streams for both the artist and service companies alike. Secondly, with limited production rehearsals now being the norm, mix engineers require live recordings so that a "virtual sound check" can be performed. This removes the need to directly involve the artist, and all the associated additional expense and time that a traditional sound check or rehearsal process incurs. The "virtual sound check" also allows the mix engineer the time to fine tune his mix and use the full potential that digital console automation offers. To help meet the concert sound industry's requirements, KLARK TEKNIK has engineered an extremely easy to use, simple to setup, standalone hard disk recorder the DN9696. This High Resolution Audio Recorder offers 96 tracks of 96kHz audio at 24bit, with a massive nine hours of internal storage. There is now no need for external computers linked to multiple nonroadworthy systems with complicated interconnections, just a simple plug and play unit with dedicated Play,

Stop and Record front panel transport controls.

The screen based software interface offers indepth control of both recording and playback functions. The DN9696 occupies only 5U of rack space with very simple cable requirements and does not demand the expense of a dedicated recording technician. After all, all you really need is Record, Stop and Play. Please contact them to ask about shipping. After all, all you really need is Record, Stop and Play.Please check the fields highlighted in red. To play the media you will need to either update your browser to a recent version or update your Flash plugin.You will not be charged until your item ships. Connecting different audio networks together, which often have differing sample rates and clock domains can be a difficult and expensive process. Currently available interfaces include Audinate Dante Cirrus Logic CobraNet Digigram EtherSound MADI AES10 The DN9650 Network Bridge supports network modules designed and manufactured by Cirrus Logic, Inc., Lab X Technologies, LLC, and Audinate Pty Ltd. Clock Synchronisation The DN9650 clock synchronisation scheme is divided into two domains, with the AES50 domain and third party network domain separated by the Asynchronous Sample Rate Converter ASRC. AES50 Domain Clock Options AES50 External Clock Onboard Oscillator AES50 Internal Clock Word Clock Input Video Black Burst Input Network Domain Clock Options External Network Clock External Network Clock with Word Clock In Synchronisation Onboard Oscillator AES50 Internal Clock Network Module Onboard Clock AES50 Clock Source Word Clock Input Video Black Burst Input To play the media you will need to either update your browser to a recent version or update your Flash plugin.Fill out this form and well BEAT IT!Please read our Privacy Policy and Terms Of Use. Pro zobrazeni stranky tak, jak byla zamyslena, pouzijte prohlizec s podporou JavaScript.

Some are well established and have been in common use for several years, others have appeared recently, and all are vying for recognition and market share. Interfacing different protocols can be difficult and expensive, often requiring the use of inflexible, proprietary hardware. Connecting different audio networks together, which often have differing sample rates and clock domains can be a difficult and expensive process. In the years immediately following, their pioneering approach to design and development allowed them to introduce some truly groundbreaking designs. One of the world s first digital delay and digital reverb units emanated from their laboratory, and their descendants remain in common usage all over the world to this day. However, it was their concepts for equalisation devices that really changed the world of professional audio resulting in the uniquely capable DN370 and the world famous DN360. Today Klark Teknik continues to bring innovation in design, engineering and sonic quality in both the analogue and digital realm of signal processing. Uniquely in its field, Klark Teknik also provides the customer with an opportunity to invest in leadingedge equipment with an extraordinary working lifespan and unrivalled retained value. Klark Teknik products are represented by an international network of appointed distributors, all of whom are authorised to sell and provide technical support for our products. Full contact details for all our distributors are available from the website at however please contact the factory direct for information if necessary. Instant recall of fader positions is made possible by the use of thirty one consolequality 100 mm long travel high resolution motorised faders, custom manufactured to Klark Teknik s exacting standards, featuring long life conductive plastic tracks and driven by fast acting precision servo control circuits.

A generously specified power supply ensures high speed of response, and can supply the peak currents required by simultaneous multiple fader movements, without the lag effects experienced with lowergrade remote fader units. A flexible user interface allows custom remote channel assignments across four banks of 32 channel selection buttons. Four freely assignable group buttons and a global all channels button allow relative adjustment of channels, especially important when

the priority is to stop onstage feedback first, and determine the source second. The Helix RAPIDE is the networking centre of the Show Command System, an eight external port Ethernet hub is incorporated into the device, allowing the connection of Helix digital equalisers and system processors, with wired or wireless connections to laptop or tablet PCs running the Elgar Helix EQ RCS and System Controller RCS. The Helix RAPIDE is fully backwardscompatible with the original Helix DN9340 and DN9344 digital equalisers which may be interfaced using Ethernettoserial converters. The unit shall be contained in a 6U 19 rackmount enclosure, which shall be so designed as to also allow the unit to perform as a freestanding console. The unit shall provide remote control of up to 64 channels of Klark Teknik Helix graphic equalisation. The remote control interface shall be via Ethernet and there shall be an Ethernet switch integrated into the unit with eight external ports fitted with Ethercon connectors. There shall also be a rear panel RS232 port provided for remote control from Midas Heritage, Legend and Siena mixing consoles, which implements the Klark Teknik and Midas Solo Tracking System control. The user interface shall provide for four banks of 32 channels of userassignable channel access, implemented as four bank and 32 channel nonlatching illuminating pushbutton switches.

There shall be four nonlatching illuminating pushbutton switches provided for the selection of groups, each of the four groups permitting the relative adjustment of multiple channels of Helix graphic equalisation. There shall also be a nonlatching illuminating pushbutton for global access of all addressable channels of Helix graphic equalisation and applying relative adjustment to all channels. A nonlatching illuminating pushbutton shall also be provided to bypass the currently selected channels of Helix graphic equalisation. Elevensegment LED bargraph meters shall be provided for monitoring the input and output audio signal levels of an individual channel. A 20 x 2 alphanumeric LCD display shall be provided for the display of parameter information and three rotary encoders shall be provided for parameter adjustment. Momentary pushbutton switches shall be provided for memory store and recall and setup menu access. The unit shall be capable of operating from a 90 to 250V, 50 to 60 Hz a.c. power source. The digital graphic equaliser remote controller shall be the Klark Teknik DN9331 Helix RAPIDE, and no alternative specification option is available. Each audio channel shall include Source select analogue or digital, input gain, delay up to one second, up to four filters, two dynamic EQ bands, up to 12 parametric EQ bands and a 31 band graphic EQ. At the heart of Helix DN9340E is the fact that it sounds incredible the most common remark from firsttime users is it sounds just like a great analogue EQ. For the uninitiated, the new Helix DN9340E is a dual channel, 2RU, alldigital equalisation unit that simultaneously offers a fivemode 31band graphic EQ, twelve bands of full parametric EQ, four configurable filters HPF, LPF, hi shelf, lo shelf and notch and two bands of true dynamic EQ TDEQ per channel. Unit control is provided by both a touch strip and rotary controls, full input and out metering is provided plus dedicated meters for the TDEQ function.

A large, bright LCD display provides visual reference for all functions and the entire menu structure is simple and intuitive. Helix can also be linked to Midas Siena, Legend and Heritage consoles via the Solo Tracking System STS this allows any channel of connected Helix EQ to be edited from the control surface of a single Helix DN9340E unit or PC simply by activating the appropriate PFL function on the console STS only works on the outputs of the Siena. By linking a DN9331 RAPIDE to the DN9340E it allows the user to have instant control over the Helix 31 band graphic EQ function thanks to the unique 31 Klark Teknik 100mm motorised faders fitted to this unit. Secondly the Helix DN9340E unit also features a dual port Ethernet communications interface. This is to facilitate much faster communication, response and metering between units than was previously possible with serial comms. The Ethernet ports allow for control of the units from a PC, either via Ethernet or wirelessly with the Helix EQ Remote Control Software RCS an ELGAR AddIn. Digital inputs shall run at any sample rate up to 96kHz with internal sample rate conversion. The sample rate converter can be

bypassed when the incoming digital signal has a sample rate of 44.1kHz or 48kHz. A word clock input shall be provided to allow the system to lock to an external clock source. In addition, the word clock input can be used to only clock the digital outputs allowing digital audio to come into the unit at one sample rate and go out at another. Digital outputs shall also run at any sample rate up to 96kHz. In standard operation, they shall run at the system sample rate 48kHz or 44.1kHz. Using the internal SRC, the digital outputs can also run at the same sample rate as the digital inputs or the word clock input. All delay times shall be set in milliseconds and microseconds, or in distance units metric and imperial with a temperature compensation facility.

The high and low pass filters shall be selectable from notch, high pass, low pass, high shelf and low shelf types. The dynamic EQ sections shall have independent high and low level thresholds and gain and be selectable from parametric EQ, or high shelf or low shelf filter types. The parametric EQ shall provide proportionalq, constantq and symmetricalq responses. The dynamic EQ sections shall also have independent attack and release times. The parametric EQ sections shall have up to 12 db of cut or boost and a Q value variable from 0.4 to 20. The parametric EQ shall provide proportionalq, constantq and symmetricalq responses. The graphic EQ section shall provide 31 bands on standard frequencies defined in BS EN ISO 266 ProportionalQ, constantq and symmetricalq responses shall be provided as well as emulations of Klark Teknik DN27 and DN360 Graphic Equalisers. Helix DN9344E Quad EQ is actually, as the name suggests, TWO complete DN9340E Helix Dual EQ units in just a single rackspace device, providing four discrete or two pairs of stereolinked channels of multiconfigurable EQ, that can be controlled singly or as part of a larger system from a single DN9340E Helix Dual EQ, or via Helix EQ Remote Control Software RCS. Up to 64 channels can be controlled from one master unit or the RCS. Additionally the 31 band graphic function of the unit can be controlled via the unique DN9331 RAPIDE with its 31 motorised 100mm faders. Perfect for installations, it is also fitted with contact closures to allow for memory recall by a mechanical device. The principal operational advantage of the Helix DN9344E is that it offers all the functionality of several standalone devices in one package, thus saving massively on both cost and rackspace. For instance, enough EQ for a 24way monitor mix plus two sidefills will fit into just SIX rackspaces six DN9344E Quad EQs, at a comparative cost to the same number of channels of topclass analogue graphic EQ.

The DN9344E unit is equipped with dual port Ethernet communications interface. This is principally because it allows designers to combine a number of key control functions within a single device, thereby lowering overall costs and adding convenience. Unfortunately, in many cases the relevance of the audio performance of the device has been overshadowed by the bells and whistles functionality of the unit, ultimately somewhat defeating the object of the exercise. With the new Klark Teknik Helix DN9848E system controller, no compromise has been made in either the feature set or the audio performance. The Helix DN9848E brings a new level of flexibility to system control whether for live production or installation use. Since there is no preset routing within the device, it can be easily preprogrammed to perform almost any systemcontrol task. Limiters and compressors on all outputs plus compressors on all inputs provide ultimate speaker control and protection, whilst no less than ninetysix bands of fully parametric EQ allow for both room and system equalisation. Best of all, there s enough processing power onboard to allow every function to be available all the time, regardless of what is already in use. Whilst the internal sample rate of the DN9848E unit remains at 48kHz, these digital connections are all 96 khz compatible allowing easy interface with any other digital device featuring the higher sample rate. The unit now features a dual port Ethernet communications interface. This is to facilitate much faster communication, response and metering when controlling multiple units, than was previously possible with serial comms. The DN9848E incorporates some customerrequested operational additions. The userconfigurability of the unit includes full matrix mixing capability between inputs and outputs, providing an unequalled level of flexibility.

Whilst programming, inputs or outputs can now be ganged so that the user can enter program data into one input or output menu and all connected inputs or outputs will be simultaneously updated. Input and output parameters can also be copied from one to another. The internal memory structure has also been revised such that it is now possible to back up the RAMbased system memories into nonvolatile flash memory. The proprietary ELGAR software coupled with Helix System Controller Remote Control Software RCS AddIn allows simple upanddownloading of system parameters into the FLASH memory locations, as well as storage and transmission of system information. Should for example you need a new system configuration to be loaded into a unit on the other side of the world. No problem, simply the ELGAR file to wherever it needs to go, it can then be uploaded into the unit in seconds. The sample rate converter can be bypassed when the incoming digital signal has a sample rate of 48kHz. Each output channel shall include output name; configurable routing; delay up to 300 milliseconds; two cascaded allpass phase correction filters, low and high pass crossover filters with slopes of 6, 12, 18, 24, 36 and 48 db per octave and options of Linkwitz Riley, Butterworth and Bessel characteristics where appropriate; six parametric EQ sections with up to 12 db of cut or boost optionally two of these stages are configurable as low frequency and high frequency shelf filters respectively; a phase invert function; an output level control; and a compressor and a limiter. All delay times shall be set in milliseconds and microseconds, or in distance units metric and imperial with a temperature correction facility. All parameters shall be displayed and adjusted via an alphanumeric LCD display, three rotary encoders and individual menu buttons for each input and output channel.

There shall be provision for six user memories and in addition 32 system memories and 99 factory presets with a security lockout feature. There shall also be a security lockout feature that is enabled when the unit is under remote control. The Loudspeaker Processor shall be provided with an RS232 and Ethernet ports for remote control and software updates. The Loudspeaker Processor shall be the Klark Teknik model DN9848E and no alternative option is available. ELGAR allows data from individual units, for example a number of Helix units and a Midas Heritage 1000, via the relevant AddIn to be stored within one show file on your PC. You can therefore have your entire show with you on your laptop, allowing you to fine tune settings in your hotel room and then just upload it later at the venue. ELGAR will also ensure that the correct AddIn will only communicate with the correct piece of hardware in other words it will make certain that a Helix Remote Control AddIn will only talk to the Helix unit and not the Heritage Show Command Component Helix EQ Remote Control Software AddIn To further increase the functionality and control of the Helix EQ is the AddIn for the Midas and Klark Teknik ELGAR control shell the Helix EQ RCS. This allows remote PC access to all the functions of Helix EQ, including overall system store and recall. An extremely intuitive Graphical User Interface GUI allows simple navigation between function pages, the overall number of which has been kept to a minimum. The system is designed to work with all PCs including the latest handheld PC tablets for ease of wireless connection and portability. Helix DN9848E Remote Control Software operating under Elgar The make or break of this type of system is always navigation, and this is one of the Helix EQ RCS s real strengths, using our proprietary FastNav page. This is a control panel that is always active, and shows every function of every channel.

Thus it is possible to move between, for instance, the graphic EQ for channel 10 and the TDEQ controls for channel 37 with a single click. Available now as a free download from 2 Show Command Component DN9848E Remote Control Software AddIn Helix DN9848E System Controller Remote Control Software RCS AddIn provides online remote control and offline system configuration, either via wired or wireless Ethernet technology. The remote control software allows intuitive control of every function of an individual unit or units, it also and uniquely allows inputs and outputs to be assigned to control groups. These groups can then be made to control any parameter of the unit or the system muting, delay, EQ, dynamics, speaker or room zones, whatever you need. Simple screens with easyaccess controls make for quick adjustments and entire system setups can then be stored as

an ELGAR computer file. 2 Show Command Component Helix EQ Remote Control Software operating under Elgar STS Solo Tracking System Helix offers the ability to link to all Midas consoles in the Heritage, Legend and Siena range via the Solo Tracking System STS. This means that when you press any solo key on the console, the EQ for that input or output outputs only for Siena is instantly shown on the Helix DN9340E Dual EQ or a wired or wireless PC ready for immediate control. Once displayed on the your chosen user interface you naturally have complete access to all the Helix EQ functions allocated to that input or output. The graphic EQ portion of Helix will also be displayed on a DN9331 RAPIDE Graphic Controller if connected into the system. A RS232 connection is supplied on the rear panel of Helix DN9331 and DN9340E for this purpose, and up to 64 channels of Helix can be interconnected using standard CAT5 cables. The unit shall have an equalisation section bypass and shall be failsafe, that is the unit shall return automatically to the bypass condition in the event of power supply interruption.

Each equaliser shall use centredetented slide potentiometers arranged to give a graphical display of frequency plotted against level. The slide potentiometers shall have protective covers to inhibit the ingress of dirt and dust. All audio connections shall be electronically balanced and use XLR and Phoenix style connectors. Input and output transformers shall be available as an option. Each channel shall have a microphone preamplifier, two transformerisolated outputs, and two electronically balanced outputs. Optionally, all outputs may be transformerisolated. The Mic Splitter shall have a headphone amp to allow the monitoring of soloed audio channels. The new DN530 Creative Quad Gate does just that. It brings some exciting new tools to the audio party. The DN530 features Transient Accenting, a creative feature providing an easy way to enhance the attack envelope beyond merely opening the gate. This can provide up to 12dB of additional transient energy and its primary application is to provide additional impact on drums and percussion instruments, although it can be used to enhance the impact of many instruments, including acoustic stringed instruments such as guitar and piano. Transient Accenting is unique in that it allows the operator precise control over the amount of enhancement applied to each channel of processing. Each channel shall have an electronicallybalanced input and output on 3pin XLR connectors. Each channel shall have a rotary Threshold control to set the signal level at which the Noise Gate opens. The channel metering shall have a green THR LED to indicate when the signal exceeds this threshold. Each channel shall have rotary controls for setting the Attack, Hold and Release times of the Noise Gate. The channel metering shall have a yellow HLD LED to indicate when the Hold portion of the dynamic control envelope is active and an orange REL LED to indicate when the release portion of the dynamic control envelope is active.

The Hold function shall also have Intelligent Threshold Shift its to provide threshold hysteresis to avoid repeated opening and closing of the Noise Gate in response to low frequency signals close to the threshold level set by the user. The channel metering shall have a blue ACC LED to indicate when the Accent function is adding gain to the initial transient. The Accent shall also function independently of the noise gate when the range control is set to 0dB. Each channel shall have a latching pushbutton switch with an associated orange LED labelled DUCK to reverses the operation of the gate so that it closes when signals exceed the threshold set by the user and opens when they go fall below the set threshold. When the Duck function is active, the Accent rotary control and ACC LED shall be disabled. Each channel shall have a rotary Range control to adjust the amount of gain reduction applied to signals below the threshold level. Each channel shall also have a red SHUT LED to indicate when the Noise Gate is fully closed. Each channel shall have a latching pushbutton switch with an associated red LED labelled BYPASS to remove the Noise Gate from the signal path. Each channel shall have a Clip LED included in the channel metering to indicate when the input signal is exceeding the clipping point of the Noise Gate. Each channel shall also have a sidechain control section with a bandpass filter controlled with a rotary control labelled Frequency to set the filter centre frequency. The sidechain control section shall have a latching pushbutton switch with an

associated green LED labelled FILTER to put the bandpass filter in the sidechain signal path. The Noise Gate shall have a Solo Bus to allow monitoring of the sidechain control input signals for each channels.

The Solo Bus shall have input and output XLR connectors on the rear panel to facilitate the serial connection of units and to connect to a line input on a mixing console for monitoring via its Solo Bus console headphone amp. The sidechain control section of each channel shall have a latching pushbutton switch with an associated yellow LED labelled Solo to enable the postfilter sidechain signal onto the Noise Gate solo bus. A blue LED labelled POWER shall be included on the front panel to indicate when the unit is powered on. The Noise Gate shall be the Klark Teknik Model DN530 and no alternative specification option is available. To do this they use gain modification that makes adjustments to signal levels automatically, dependant on the level and dynamic of the signal itself, and upon the character and control settings of the particular compressor unit. Throughout the history of dynamics processing many different types of compressor have been produced using many different types of gain technology. Each type has a distinctive sound. Users have found many applications which benefit from these often unintentional compression audio artifacts, taking the use of compressors far beyond simple dynamic range reduction, sometimes even generating the complete reverse; dynamic enhancement. It is with these creative applications in mind, that the DN540 has been designed to offer a latencyfree, comprehensive and compact dynamics processing package. With its unique presence feature the DN540 will be especially useful on vocals to eliminate the pumping effects of spill and to add air to the sound without introducing noise. Each channel shall have a rotary Threshold control to set the signal level at which the Compressor applies compression and a rotary Ratio control to set the amount of compression applied above the set threshold. Each channel shall have rotary controls for setting the Attack and Release times of the Compressor.

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