DMIX30
Dante™ enabled mixer unit

by

CTP Systems

Product warranty

This unit is guaranteed for a period of one year from dispatch of the goods. This guarantee is a return to base warranty. In the unlikely event of a fault the goods should be returned to CTP Systems in the UK or your local dealer.

This equipment is CE marked and conforms to the following directives:

Low Voltage Directive: EN60065
Emissions: EN55103.1
Immunity: EN55103.2

WEEE

CTP Systems are registered for Business to Business sales of WEEE in the UK. Our registration number is WEE/DF0509VR. This is why our product has a ridiculous picture of a dustbin on the back.

RoHS

The product conforms to the RoHS Directive 2002/95/EC for restriction of the use of hazardous substances in electrical and electronic equipment.

This unit was designed and manufactured in the UK by CTP Systems Limited, Unit 4, Clinton Business Centre, Lodge Road, Staplehurst, Kent TN12 0QF.
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Dante is a trademark of Audinate Pty Ltd.

Overview

The DMIX30 consists of six separate 5:1 mixers housed in a 2RU case.
All inputs and outputs are available on the Dante™ network and each mixer output also has an analogue output XLR on the rear of the unit. All input and output level controls have up to 12dB of gain and an additional 20dB of gain may be switched in allowing a maximum of 44dB gain per mixer input.
The unit has many additional facilities, the mixers may be remote controlled over just one XLR, Limiters are available for each mixer output and metering may be selected as PPM or dBFS. There are both primary and secondary network connections to allow for redundancy. The unit is suitable for Gigabit network operation which is highly recommended.

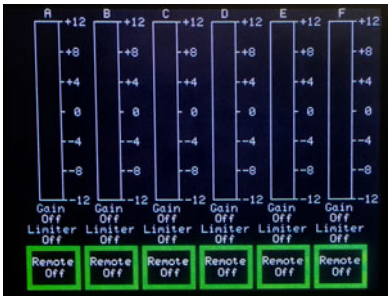
Setting Up

The DMIX30 should be used in conjunction with Dante Controller software available from https://www.audinate.com/products/software/dante-controller.
As supplied the DMIX30 will appear in Dante Controller as DMIX30-nnn.
The six separate mixers are designated as A to F with inputs numbered 1 to 5, Outputs are designated A to F.

Connect the primary RJ45 to your router. If redundant operation is required connect the secondary RJ45 to the redundant network router. Alternatively the secondary RJ45 may be used as a router output for forwarding on to additional Dante equipment. This function should be configured in Dante Controller.

When then unit is powered and after successful network connection the LEDs on the RJ45 connectors will illuminate. The right LED will be amber if you have a gigabit connection or green if operating at 100 Mbps. The left LED will blink green to show activity on the port or will be off if no link has been established.

Touch Screen Operation

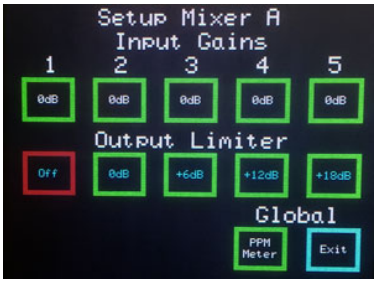


Although primarily used for metering levels the touch screen controls various DMIX30 functions and displays current setup status.

If any of the inputs have an additional 20dB of gain inserted it will show ‘On’ underneath the Gain caption.
If a limiter is switched in in a given mixer then the limiter setting will be shown underneath the Limiter caption.

The ‘Remote’ on/off buttons switch control of the relevant mixer between local and remote control. There are more details about this function later in the manual, for now ensure they are all set to ‘Off’. A useful side effect of these switches is when a mixer is set to remote the local level controls will be locked out.

Touching meter scales A to F will display settings for the selected mixer and you will see the screen below.



Gains for each input may be increased by 20dB by touching the ‘Input Gains’ buttons. The gain will be displayed on the button and if selected the button will turn red.

The Mixer output limiter can be switched out of circuit (off) or selected to limit at 0dBu, +6dBu, +12dBu or +18dBu. Just touch the required preset, again the selected button will turn red.

The Meter button is global therefore it will affect all metering. It may be selected to display PPM meters with PPM ballistics or dBFS meters.

Touch ‘Exit’ to return to the main screen.

Analogue Outputs

The DMIX30 has six network mixer outputs and these are mirrored on the rear of the unit as analogue outputs. These outputs are electronically balanced.

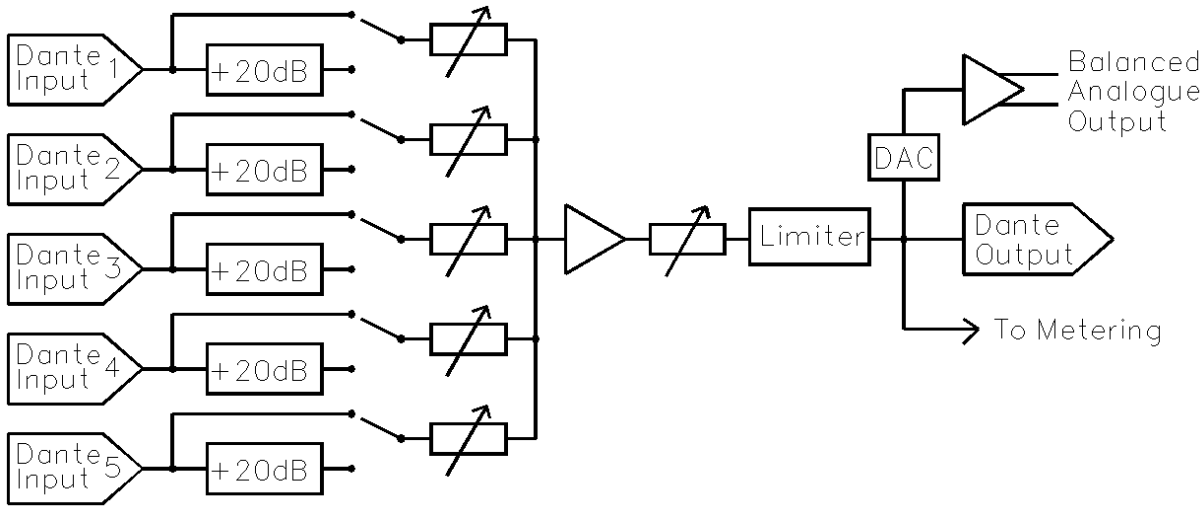
Remote Control

All DMIX30 inputs and outputs can have their levels remotely managed by use of the optional remote control. The unit can accept up to six of these controllers and each is capable of adjusting any or all of the six mixers. This feature is particularly useful for remote radio talkback mixing.
Communication between the remote and the DMIX30 is via modified time code so the data may be sent over any link capable of

transporting audio. The remote is powered by a nine volt PP3 size battery and only draws power when making adjustments and the 'Power button' is pressed.
The DMIX30 will only accept remote control when the relevant 'Remote' button is selected to 'On'.

Block Schematic

This is a simplified diagram of one mixer. Please note that all processing takes place within the digital domain.



Sample rate

The DMIX30 is able to operate at sample rates of 44.1 and 48kHz.

Power

100-240VAC 50/60 Hz
Consumption <15 Watts

Mechanical

2RU case 150mm deep.
Weight 2kilos
All aluminium case.