



DA470

INSTRUCTION MANUAL

vM DA470 STEREO DIGITAL / ANALOG CONVERTER

vM INSTRUCTION MANUAL

Thank you for having bought this Van Medevoort product. We wish you many happy listening hours. The manufacturer accepts no responsibility for any misunderstanding and/or misinterpretation or the consequences arising there from due to this instruction manual not being read correctly and followed properly.

THE MANUAL

It is essential to consult this manual before operating your Van Medevoort product. The numbers in the pictures correspond to the features of this product.

This manual contains everything you need to know to connect this product in addition to various user options. We kindly ask you to read this manual thoroughly before powering up the unit.

WARNINGS

- Never touch the power cord and/or the unit with moist or wet hands.
- Never expose the unit to rain or moisture.
- Never remove the casing. There are no user-serviceable parts inside.
- Do not poke or put anything inside the unit.

POWER

Every Van Medevoort product is optimized for your country's electrical standards. e.g. 230V-50Hz or 115V-60Hz. This cannot be changed. Please check that your product is set to the correct voltage setting BEFORE connecting to an AC power outlet. Any faulty connection will invalidate the warranty.

COPYRIGHT

In some countries it may be necessary for you to pay a fee for recording and/or playing music. Please check with your country's laws and regulations.

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BEFORE GETTING STARTED

IN GENERAL

When using your Van Medevoort product make sure that the following is observed:

- The cooling air vents are not covered
- The air can move freely around the product
- The product is sited on a vibration-free surface
- The product is not exposed to (very) high temperatures, cold, moist or dusty environments
- Do not expose the product to direct sunlight
- Do not expose the product to electrostatic discharges
- Never put any type of object directly on top of the product

When in doubt do consult your Van Medevoort dealer. If any object and/or water and/or moisture should find its way into the unit, always disconnect the power cord by its plug, never by the cord itself.

When leaving for extended periods, e.g. holidays, we strongly recommend that you unplug all audio equipment. This is also advisable when there is a thunderstorm or lightning.

CONNECTING

Before actually making any connections, always disconnect the power cord from the wall socket by its plug, never by the cord itself, or switch the product OFF.

Always connect one source at a time and make sure that the output Left & Right channels are not interchanged.

Make sure that the plug is fitted correctly. Otherwise, hum and/or noise may be apparent.

DO NOT forget to read the respective manuals of the products you wish to connect to this product, BEFORE connecting.

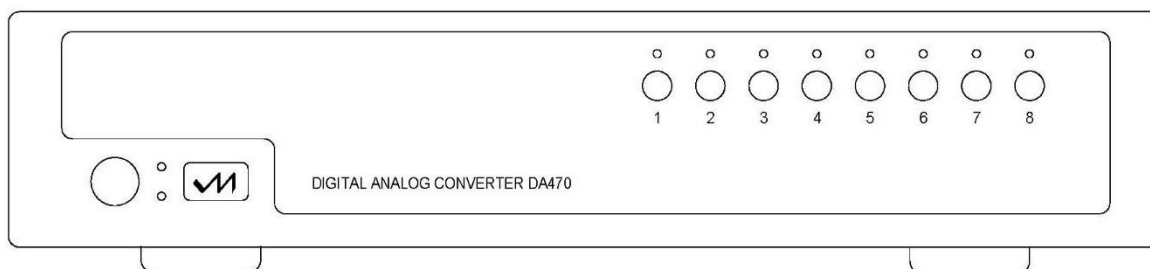
POSITIONING

If this product is being used at the same time as e.g. a Computer and/or a TV-tuner, you may experience various anomalies. When this is the case, please follow these instructions:

- Position the product as far away as possible from this type of item
- Make sure that the tuner interconnect is detached as far away as possible from all radio and/or TV power cords.
- Usually these anomalies occur when a 300 Ohms cable is used. We advise you to change to a well shielded 75 Ohms cable.

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1. ON / OFF. Power switch.

LED indication control. Fully red when switched ON, 50% red when in STAND-BY mode (selected with the Remote Control).

Above the LED you will find the Infra Red sensor for the Remote Control. The functions are stand-by and input selection.

The Remote Control handset is supplied.
You can also choose a learnable control.
The RC codes can you download from our website.
Contact your dealer for more info.

2. 1 - 8. Source selector switches with LED indication.

These 8 push buttons correspond with the inputs on the backside of the converter. Inputs 3, 4 and 5 are also switchable between two connectors on the back, to create extra input connection possibilities.

The LED's of the SPDif inputs 1 to 5 are fully lit when the corresponding inputs are presented with a good format signal. The LED's flash when switched on without a signal or with the wrong signal format.

The LED's of inputs 7 and 8 are fully lit when the PCM signal is supplied, and are half lit when the DSD signal is supplied.

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- ONLY connect the converter to a (professionally installed) wall socket with earth or ground and the corresponding voltage setting, as indicated on the back. Any faulty connection will invalidate the warranty.
- If it is necessary to replace the fuses, use only fuse(s) with the exact same value. The fuse holders are positioned inside the converter and should only be replaced by an authorized Van Medevoort Service Center. There are no user serviceable parts inside.
- The correct order for ON/OFF switching of the various products is as follows:
On: always first the source, then the pre-amplifier, followed by the power amplifier.
Off: always first the power amplifier, then the pre-amplifier, followed by the source.
- With the Q-Link connection switch ON the DAC first (to produce the MCK) and second the transport.
- To prevent damage to your loudspeakers it is advisable, both at switching ON and OFF to turn the volume control fully to the left. Fully anti-clockwise sets the volume at its lowest level. The same applies when changing sources.
- Do make sure that there is always enough ventilation around the converter in order for it to remain at its desirable temperature level.
- Do not put any magnetic devices near or on top of the converter, e.g. floppy disks. This can cause irreparable damage to such devices.
- If you experience any problems, always contact your nearest authorized Van Medevoort dealer or distributor.

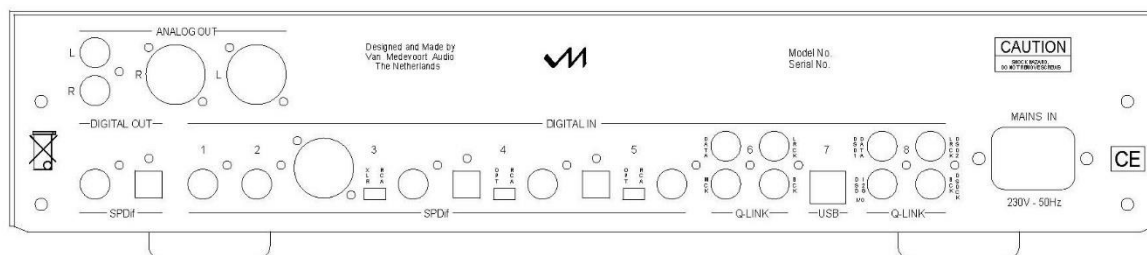
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→ 12 11 3 4 5 6 7 8 9 10 13

3. Input digital 1. Input 1 is for SPDif RCA.
4. Input digital 2. Input 2 is also for SPDif RCA.
5. Input digital 3. Input 3 is also switchable between AES/EBU XLR (switch left) and SPDif RCA (switch right).
6. Input digital 4. Input 4 is also switchable between SPDif optical (switch left) and SPDif RCA (switch right).
7. Input digital 5. Input 5 is also switchable between SPDif optical (switch left) and SPDif RCA (switch right).

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8. Input digital 6. Input 6 is the Q-Link for i2s connection to e.g. the vM CT470 CD transport. There are four RCA connectors for the DATA, MCK, LRCK en BCK. The MCK is the master clock output, the other three are inputs. Connect these to the same named connectors on the CD transport.

When using another device on this input 6, it is possible to adjust the format using the push buttons 1 to 4 on the front. To do this, the relevant button (see table below) must be pressed and held while the DA is starting up, for approximately 7 seconds. The new setting is saved and is only needed once. We set for the vM CT as standard.

Button 1: 24bit - i2s (standard for vM CT drives)

Button 2: 18bit - Right Justified

Button 3: 16bit - Right Justified

Button 4: 24bit - Left Justified

9. Input digital 7. Input 7 is the USB input, to connect to a PC, where after the PC can use this DAC as a soundcard.
This sound card is visible on the PC as vM Soundcard v25. The drivers for this input can be downloaded from our vM website:
https://www.vanmedevoortaudio.nl/producten_engels/da470.html
10. Input digital 8 is the Q-Link connection option for optimally connecting a device like the vM MP470 for both DSD and PCM signals with I2S transport. These are four RCA connectors for DATA/DSD1, I2S/DSD, LRCK/DSD2, and BCK/DSDCK, respectively. The I2S/DSD is the 3V3 trigger input, high for DSD and low for I2S. The other three are the signal and clock inputs. These should be connected to the same connectors on the vM MP470.
11. Output digital. Digital SPDif optical output, send through the signal of the SPDif input which is switched on. Exclusively from input 1 to 5.
12. Output digital. Digital output RCA coaxial SPDif, send through the signal of the SPDif input which is switched on. Exclusively from input 1 to 5.
13. IEC Power Chassis Connector. To be connected with the proper wall socket, which must be earthed or grounded. Every Van Medevoort product is optimized for your country's electrical standards. e.g. 230V-50Hz or 115V-60Hz. This cannot be changed. Please check that your product is set to the correct voltage setting BEFORE connecting to an AC power outlet. Any faulty connection will invalidate the warranty.
14. Outputs analog. These analog XLR balanced outputs go to the balanced inputs of the stereo (pre) amplifier. The right one is for the left channel, the left one is for the right channel. Seen from the back of the converter.
15. Outputs analog. these analog RCA outputs go to the RCA inputs of the stereo (pre) amplifier. The top one is for the left channel, the bottom one for the right channel.

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- The SPDif in- and outputs are clocked for the different digital sources.
By switching over between inputs, there can be a synchronicity moment occur where by the converter stays in the mute mode. The vM DA470 can in that situation be reset by switching off with the power switch for approx. 10 seconds and then again to on.
- The SPDif XLR and RCA inputs are able to receive all digital stereo sources up to 24bit/192kHz. SPDif optical has a bandwidth up to 96kHz.
The Q-Link input 6 use the supplied data from the CD transport, the MCK master clock output has standard a frequency of 16.9344MHz, but can be changed if necessary for the connected transport.
The USB input 7 has a bandwidth to 768kHz PCM (32bit), DSD native to 512fs, DSD DoP to 256fs.
The Q-Link input 8 can be used for PCM as well for DSD sources.
- All formats offered at the inputs will be converted by the a-synchronous Sample Rate Converter to DSD 512fs resolution, so that the D/A converters always works in an optimal performance.
- By the analog RCA outputs, the upper is for the Left channel, the bottom for the Right channel. For the XLR balanced outputs, the right one is for the Left channel and the left one for the Right channel, seen from the back.
- For your convenience you will find a red sticker, indicating “phase”. The phase of your electricity system can be determined with a voltage seeker.
- The converter must only be cleaned with a cloth, impregnated with a Ph-neutral cleaning fluid. And it must be mildly moist! NEVER use strong fluids and/or erasers. Before cleaning ALWAYS remove the power cord from its wall socket, by its plug not by its cord.
- The optimum operating temperature is reached after approx. several hours of continuous play. Then it will be possible to start enjoying the superb van Medevoort audio qualities of this converter. In the stand-by position, only the amps are switched off. This reduced the time for warming up significantly. Test this warm up time in your own setup.
- We strongly recommend that you use a high quality Interconnect cable. E.g. the renowned van Medevoort Silver Cable. Also for the power cords.

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input SPDif RCA / XLR	24 bit - 192 kHz 75 Ohms / 110 Ohms
inputs SPDif optical	24 bit - 96 kHz
input 6 Q-Link PCM	16 bit - 44.1 kHz / i2s CD format
input 7 USB PCM / DSD / DoP	32 bit - 768 kHz / 512fs (native) / 256fs (DoP)
input 8 Q-Link PCM / DSD	i2s PCM and DSD (native)
SRC on all inputs	512fs DSD
bandwidth analog	0,1 Hz - 110 kHz
channel separation	>110 dB
distortion	< 0,0018 % / 0.1 - 110,000 Hz
signal / noise ratio	> 128 dB
output impedance	< 50 Ohms
output voltage nom.	2.2 Volt
power supply	230-240 Volt / 50-60 Hz
dissipated power	10/25 Watt stand-by/on
cabinet	aluminium en steel
weight	9,0 kg
dimensions w x h (incl. feet) x d	434 x 88 (102) x 395 mm (W x H x L)
finish	black (satin), front plate: silver / black

- accessoires: power cord
Remote Control RC2025
this manual
- options: vM SILVER CABLE

Van Medevoort Audio is manufacturer of the complete Van Medevoort product line. Next to the renowned Van Medevoort Silver Cable Audio cables we can also supply you with various high quality accessories. For more information, do consult your dealer or distributor.

We thank you for your purchase and hope you enjoy listening to our products.

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