



LPM 7.3

**GEBRUIKSAANWIJZING
USER MANUAL
GEBRAUCHANWEISUNG
MODE D'EMPLOI**

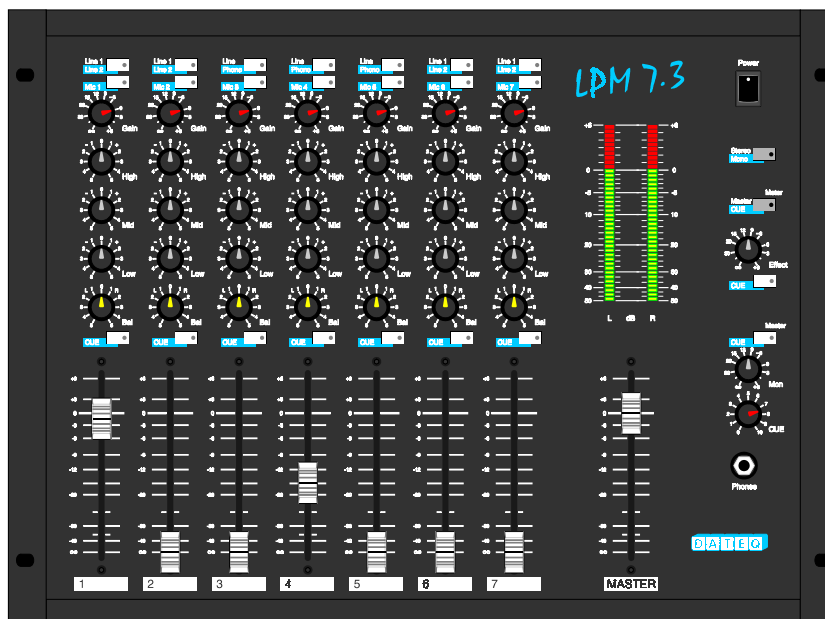
DATEQ
audio technologies

Safety instructions

- 1 All safety instructions, warnings and operating instructions must be read first.
- 2 All warnings on the equipment must be heeded.
- 3 The operating instructions must be followed.
- 4 Keep the operating instructions for future reference.
- 5 The equipment may never be used in the immediate vicinity of water; make sure that water and damp cannot get into the equipment.
- 6 The equipment may only be installed or fitted in accordance with the manufacturers recommendations.
- 7 The equipment must be installed or fitted such that good ventilation is not obstructed in any way.
- 8 The equipment may never be installed in the immediate vicinity of sources of heat, such as parts of heating units, boilers, and other equipment which generates heat (including amplifiers).
- 9 Connect the equipment to a power supply of the correct voltage, using only the cables recommended by the manufacturer, as specified in the operating instructions and/or shown on the connection side of the equipment.
- 10 The equipment may only be connected to a legally approved earthed mains power supply.
- 11 The power cable or power cord must be positioned such that it cannot be walked on in normal use, and objects which might damage the cable or cord cannot be placed on it or against it. Special attention must be paid to the point at which the cable is attached to the equipment and where the cable is connected to the power supply.
- 12 Ensure that foreign objects and liquids cannot get into the equipment.
- 13 The equipment must be cleaned using the method recommended by the manufacturer.
- 14 If the equipment is not being used for a prolonged period, the power cable or power cord should be disconnected from the power supply.
- 15 In all cases where there is a risk, following an incident, that the equipment could be unsafe, such as:
 - if the power cable or power cord has been damaged
 - if foreign objects or liquids (including water) have entered the equipment
 - if the equipment has suffered a fall or the casing has been damaged
 - if a change in the performance of the equipment is noticedit must be checked by appropriately qualified technical staff.
- 16 The user may not carry out any work on the equipment other than that specified in the operating instructions.



LPM 7.3: Multipurpose Compact Mixing Console



The LPM 7.3 is a very versatile, 7 channel stereo mixer with an extraordinary high quality. At least 14 stereo signals and 7 microphones can be connected simultaneously. Herewith the LPM 7.3 is introducing a new standard for professional audio.

Each channel can handle three different audio signals. By pressing the button you can switch between a microphone or a line input. When the line-input is selected a second button makes it possible to switch between line 1 and line 2 input. However channels 3, 4 and 5 have one line and one disc-input. This means you can have 21 audio-inputs within reach! Another typical professional application is the balanced stereo master output on a XLR-Male connector; besides this connector there is a cinch-connector.

Another nice feature of the mixer is the stereo effect-send. Each channel can be configured to send it's signal to the effect-send output or not. This means that the effect-send output can also be used as a cleanfeed.

The large 2x40 segment VU-meter is switchable between master and PFL. All switches on the master-section have a LED-indicator. The 48V phantom power is available on each microphone channel, and can be switched on with an internal jumper.

Thanks to the internally modular setup, the extreme solid construction and by using only high-performance components we made the LPM 7.3 an ideal partner for 'on the road'. Of coarse the LPM 7.3 has the specific characteristics of a 'real DATEQ mixer', which means years of satisfactory mixing!

Because of the universal design the LPM 7.3 has a wide area of applications. A perfect house-mix, AV-post production, disco or a multifunctional audio installation: The LPM7.3 can handle it...

Product support

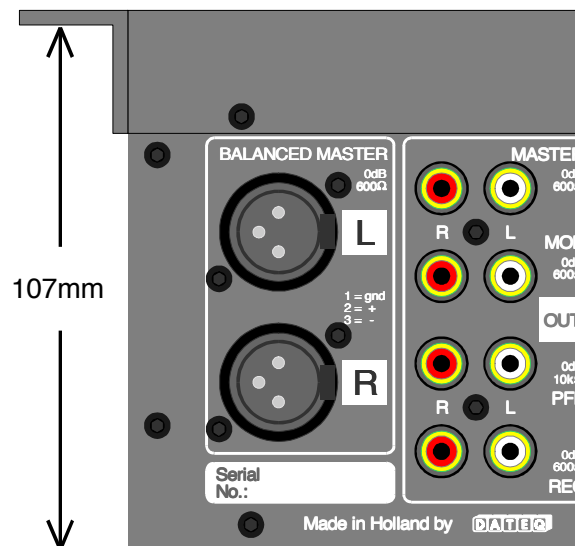
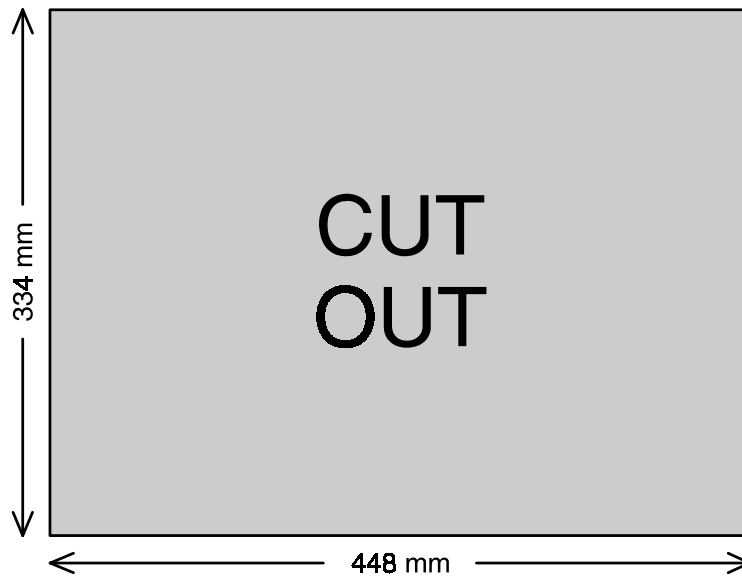
For questions regarding the LPM 7.3, accessories and other products, please contact

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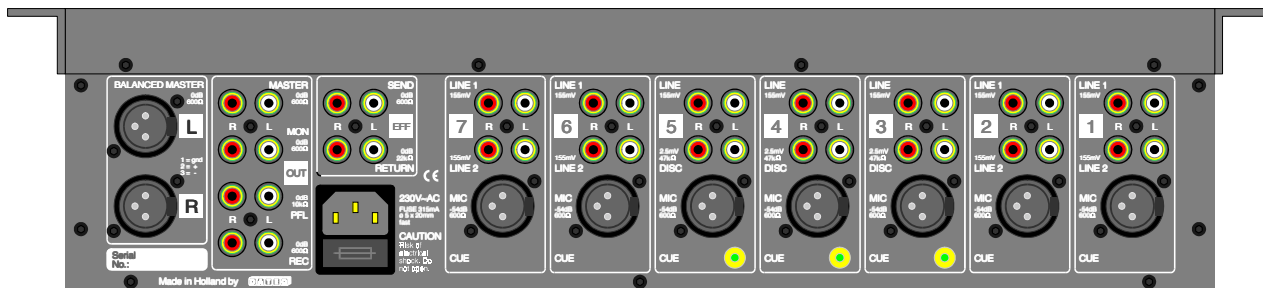
Mounting the LPM 7.3

The LPM 7.3 can be used as stand-alone or built-in (mounted). The housing fits in an opening of 448 x 334 x 107mm (W x H x D). See also the drawings below. When mounting reckon with the extending of the connectors on the backside of the LPM 7.3.



LPM 7.3 Connectorboard

The connections for all audio in- and outputs are situated at the backside of the LPM 7.3. The mains inlet and the fuse are also located here.



L/ R Balanced Master Outputs (XLR 3-pins male)

Pin	Function	Type
1	Audio GND	A-GND
2	Audio +	Out
3	Audio -	Out

Out/ Mon/ Rec/ Effect send Stereo Outputs (Cinch female)

Pin	Function	Type
Tip	Audio +	Out
Shield	Audio GND	A-GND

Phones Output (TRS Jack 3p)

Pin	Function	Type
Tip	Left	Out
Ring	Right	Out
Sleeve	Audio GND	A-GND

Phono/ Line 1/ Line 2/ Effect Return Stereo Inputs (Cinch female)

Pin	Function	Type
Tip	Audio +	In
Shield	Audio GND	A-GND

Balanced Mic inputs (XLR 3-pins female)

Pin	Function	Type
1	Audio GND	A-GND
2	Audio +	In
3	Audio -	In

Cue Output (TS Mini Jack 2p)

Pin	Function	Type
Tip	N.O. (switch contact)	Out
Sleeve	Common (Switch contact)	Out

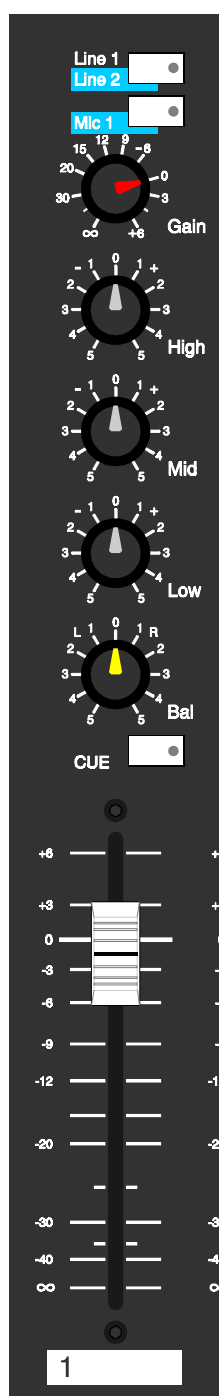
Connections

BALANCED MASTER L / R	Electronically balanced master outputs for the left and right channel on XLR connectors. This type of output guarantees a perfect signal transport even when long audio cables are being used. These outputs are equipped with relays to prevent audible 'blobs' on connected equipment when the LPM 7.3 is switched on or off.
MASTER	Unbalanced master output on cinch-connectors. Can be used to connect the LPM 7.3 to an amplifier or a recorder.
MON	Unbalanced monitor output on cinch connectors. Can be used to connect a second amplifier with monitor speakers for the DJ or a second room.
PFL	Unbalanced output on cinch connectors. This output follows the pre-fader listening. This output can be used to connect an (monitor) amplifier or recorder.
REC	Unbalanced recorder output on cinch-connectors. This output is fixed-level (independent from the master volume control).
EFFECT SEND	Stereo postfader effect sends from microphone inputs. This output can also be used as a cleanfeed output.
EFFECT RETURN	Stereo effect return input. Can also be used as an extra input.
CHANNELS 1..7	Cinch connectors for all stereo channels. Channel 1, 2, 6 and 7 have two identical line inputs. Channels 3, 4 and 5 have both an input for turntables (phono) and an input for equipment like CD-players, samplers, keyboards and recorders (line). When turntables are being used, these must be earthen by means of the earth-clamp.
CHANNELS 1..7	Electronically balanced microphone input on XLR connector. When used unbalanced, connect pin 1 and 3 with the shielding of the cable. Both channels are equipped with a secondary stereo line input.
CUE	Channel 3, 4 and 5 are equipped with a remote start connector. As soon as the fader of the concerning channel is opened, the contact between tip and ring of this mini jack (3,5 mm) connection is made. With this the connected equipment can be remote started. The remote-connection is NOT suitable for switching mains voltage!
FUSE	Mains fuse. Dimension 5x20mm (small), 315mA slow.
MAINS	Euro-style mains inlet. Before connecting the LPM 7.3 for the first time, check if your LPM 7.3 is meant for the mains voltage in your country (label on the connector board at the rear).

**For all cinch-connectors:
White = Left, Red = Right.**

Microphone /line channels (1, 2, 6 and 7)

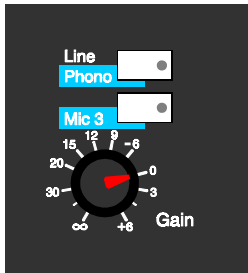
These channels are equipped with a double input selector which makes it possible to easily switch between 2 line inputs (such as CD-players, MD recorders) and a microphone source, as well as a Gain control, 3-way tone control, balance and pre-fader listening.



Line 1 / Line2	Input selector. When pushed line 2 is selected. The LED will light up when the audio-level somewhere in this module is too high. Because of the high audio level the signal will be distorted.
MIC	Input selector. When pushed (activated LED) the MIC input is activated.
GAIN	Determines the pre-adjustment of the volume for the microphone as well as both stereo line inputs.
HIGH	High tone control.
MID	Mid tone control.
LOW	Low tone control.
BALANCE	Adjusts the balance between the left and right audio channel.
PFL	Switches pre-fader listening on and off. When this function is active, the headphone will switch to PFL and the input signal of one or more inputs can be heard even though the fader is closed. A LED will indicate whether the PFL-function on this channel is active. When no PFL has been selected on any channel, the master signal can be heard via PFL.
FADER	100 mm fader through which the volume of this channel can be determined precisely.

Combined Turntable-/ line-/ microphone channels (3, 4 and 5)

These three stereo channels have three inputs (phono for turntables, line for equipment like CD-players and MD-recorders and mic for a microphone input), Gain control, 3-way tone control, balance and pre-fader listening.



DISC / LINE

Input selector. Normally the line input is selected. When pushed the phono input is selected. The LED is an overload indicator.

MIC

Input selector. When pushed the MIC input will be activated.

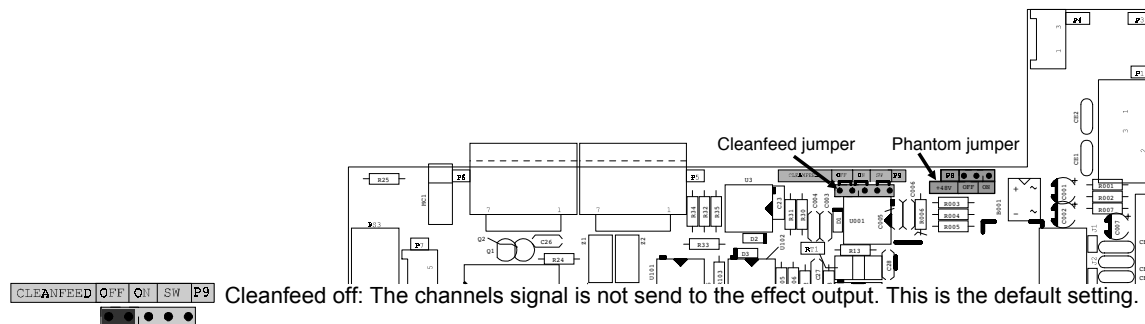
GAIN

Determines the pre-adjustment of the volume for the microphone as well as both stereo disc/line inputs.

Effect sends/ Cleanfeed and phantom jumpers

Each channel has an internal jumper to enable or disable the channel to send it's signal to the effect-send output. It's also possible to send the signal to the effect output only when the microphone input is active.

To adjust the settings the mixer has to be opened. Each module has two jumpers. The jumper to control the cleanfeed settings can be found near to the band-cable. See the drawing.



Cleanfeed off: The channels signal is not send to the effect output. This is the default setting.



Cleanfeed on: The channels signal is send to the effect-send output. This can be used wh the effect-send is used as a cleanfeed. The signal of this channel is send to the telephone hybrid. The cleanfeed of the channel to which the hybrid is connected must be set to off.

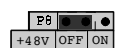


Cleanfeed sw: The channels signal is send to the effect output only when the microphone input is selected. This can be used when an effect-generator (echo etc.) is connected to the effect-send output.

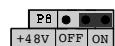
The effect-send output is post-fader: the volume is dependent of the fader.

The output of the effect-generator can be connected to the effect-return input. This return input can also be used as an extra input.

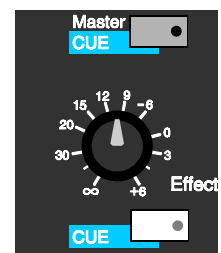
Each microphone input has a switchable phantom-power. This can be done with the jumper near to the connectorboard. See the drawing above.



Phantompower is switched off. This is the default setting.



Phantompower is active.



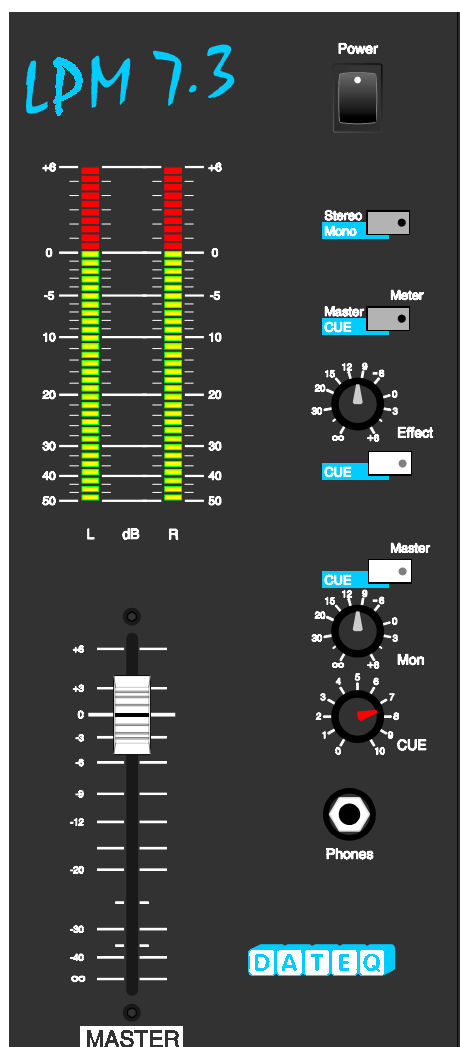
Internal attenuator

Each input-module has an internal attenuator to prevent the input-signal from being distorted. By default the attenuator is disabled (potentiometer turned clockwise).

When more attenuation is needed the LPM7.3 has to be opened. The attenuation can be adjusted for each input-module separately. Max. internal attenuation is 40dB.

Master

The master section has volume controls for the various outputs of the LPM 7.3 and a 2 x 40 segments LED-bar meter which precisely indicates the Master or PFL signal level.



POWER

Mains power switch.

STEREO/MONO

All master outputs can be switched between stereo and mono with this button.

METER

Button to switch the meter between the master or the PFL-signal. When the LED is on this means that the PFL-signal is displayed.

EFFECT

Volume control for the stereo effect-return input.

PFL

Switch to listen to the effect-return signal.

MASTER

Switch to listen to the master signal.

MON

Volume control for the unbalanced stereo Monitor output.

PFL

Volume control for the headphone output.

PHONES

Stereo headphone output.

MASTER

Fader which controls the output volume of the master output (both balanced and unbalanced).

Meter section

METER

2 x 40 segments LED-indication of the Master or PFL level. An operation level of approximately 0dB is normal.

Technical specifications

MONO Inputs

MIC (channel 1..7)	XLR-3 female, electronically balanced
Signal level	-54 dB @ 600 Ohm variable
Impedance	3 kOhm nominal
Input noise	< -107 dB (IHF-A)
Headroom	+20 dB

STEREO Inputs

DISC (Channel 3, 4 and 5).....	Cinch
Signal level	-42 dB @ 47 kOhm variable
Impedance	47 kOhm/ 25pF nominal
Input noise	< -80 dB (IHF-A)
Channel separation.....	> 76 dB @ 1 kHz

LINE (channel 1..7)	Cinch
Signal level	0 dB @ 600 Ohm variable
Impedance	10 kOhm nominal
Input noise	< -80 dB (IHF-A)
Channel separation.....	> 80 dB @ 1 kHz

TONE CONTROL

High	12 kHz $\pm$ 12 dB, Shelving
Mid	1400 Hz $\pm$ 12 dB, Bell
Low	50 Hz $\pm$ 15 dB, Shelving

OUTPUTS

MASTER (XLR).....	+6 dB balanced/ 600 Ohm/ variable
MASTER OUT / MONITOR/PFL (Cinch)	0 dB unbalanced/ 600 Ohm/ variable
REC (Cinch).....	0 dB unbalanced/ 600 Ohm/ fixed
STEREO EFFECT SEND (Cinch).....	0 dB unbalanced/ 600 Ohm/ postfader
PHONES (6,3 mm TRS Jack).....	0,3 W @ 4 Ohm/ Impedance 4..32 Ohm

FREQUENCY RESPONSE

Input to Master	20 Hz...25 kHz -3 dB
THD+N	0,007 % nominal

GENERAL

POWER SUPPLY

Mains voltage.....	230 VAC +/-10% @ 50 Hz
Power consumption	20 W

FADERSTART

(channel 3 t/m 5).....	Maximum ratings: 48V/ 0,1A; 3,5 mm jack
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SIZE AND WEIGHT

Front	483 x 355 mm (W x H) = 19", 8HE
Cutout	448 x 334 mm (W x H)
Depth	107 mm
Weight.....	5.6 kg Net.

VERKLARING VAN OVEREENSTEMMING

acc.to art.10.1 EMC directive 89/336/EEC

Wij, **DATEQ Audio Technologies b.v.**
de Paal 37,
1351 JG ALMERE,
Nederland

verklaren, uitsluitend op onze verantwoordelijkheid, dat dit produkt

Type: LPM 7.3 Serienummers: 73-XXXX

waarop deze verklaring betrekking heeft, in overeenstemming is met de
volgende geharmoniseerde Europese normen

EN 50081-1 en EN 50082-1

Volgens de bepalingen van de EMC-richtlijn 89/336/EEG, gewijzigd door de
richtlijn 91/263/EEG, 92/31/EEG en 93/68/EEG.

EN 60065

Volgens de bepalingen van IEC 65: 1985 + A1: 1987 + A2: 1989 + A3: 1992,
mod. Ratificatie: 1993-07-06

Almere, 2 augustus 1996

stempel:



De Paal 37
1351 JG Almere
tel. 036-5472222, fax 036-5317776

J.H. Kloppenburg, Directeur

handtekening:

DECLARATION OF CONFORMITY

acc.to art.10.1 EMC directive 89/336/EEC

We, **DATEQ Audio Technologies B.V.**
de Paal 37
1351 JG ALMERE
THE NETHERLANDS

hereby declare, exclusively to our responsibility, that this product

Type: LPM 7.3 Serialnrs.: 73-XXXX

to which this declaration applies, is in accordance with the following
harmonized European norms

EN 50081-1 and EN 50082-1

According to the regulations of the EMC-directive 89/336/EEG, amended by
directive 91/263/EEG, 92/31/EEG and 93/68/EEG.

EN 60065

According to the regulations of IEC 65: 1985 + A1: 1987 + A2: 1989 + A3:
1992, mod. Ratification: 1993-07-06

Almere, August 2nd 1996

stamp:



De Paal 37
1351 JG Almere
tel. 036-5472222, fax 036-5317776

J.H. Kloppenburg, managing
director

signature:



GARANTIE / GUARANTEE

inzenden naar DATEQ
mail this to DATEQ
einschicken nach DATEQ
envoyer à DATEQ

model / Geräte Typ / produit:

serient / serial # / Seriennr. / no. de série:

dealer / dealer / Vertragshändler / concessionnaire:

adres / adress / Adresse / adresse:

postcode / zip code / PLZ:

woonplaats / city / Wohnort / place:

koper / buyer / Käufer / acheteur:

adres / adress / Adresse / adresse:

postcode / zip code / PLZ:

woonplaats / city / Wohnort / place:

land / country / Land / pays:

aankoopdatum / purchase date / Kaufdatum / date d'achat:

handtekening / signature / Unterschrift

GARANTIE / GUARANTEE

bewaren met de aankoop-/kassa-bon
keep this with original invoice/cash
behalten mit der Originalrechnung
conserver avec la facture originale



model / Geräte Typ / produit:

serienummer / serial # / Seriennummer / no. de série:

aankoopdatum / purchase date / Kaufdatum / date d'achat:

GAARANTEETHEMPTINGEN: DATEO garandeert dat het product vrij is van defecten in materialen en/of constructie gedurende 12 maanden na aankoop. Indien gedurende deze periode het product defecten vertoont bereikbaar van onderliggende materialen en/of constructie zal DATEO zonder bijkomende van kosten voor arbeidsloon of onderdelen het product repareren volgens de voorwaarden zoals hierin uiteen is gezet. I Garanteewordt verstrekt uitsluitend op de volgende voorwaarden:

- 1. Het product moet worden gebruikt op de wijze die is bedoeld in de afgegeven factuur/kassasbon. DATEO behoudt zich het recht voor garanie van te wijzen indien de hierboven genoemde gegevens of het serienummer van het product niet overeenstemmen met de afgegeven factuur/kassasbon.
- 2. De garantie geldt niet op:
- a. (periodieke) controles, onderhoud en reparatie van veranderingen van onderdelen door indirecte slijtage; (kosten en risico van transport alsmede voorlooptijd direct of indirect vervoerd houdende met de garantie van dit product).
- b. schade aan dit product ten gevolge van misbruik of verkeerd gebruik met inbegrip van maar niet beperkt tot onnatuurlijke gebruik niet in overeenstemming met de afgegeven instructies over juist gebruik en onderhoud van het product.
- c. schade van andere oorzaken, zoals brand, overmatige vocht, overmatige valschokken, schade van een kitch zijn in het land waar het product wordt verbruikt, reparaties uitgevoerd door niet erkende service stations, ongebruikelijk gebruik, of welke oorzaak dan ook buiten de service van DATEO, met inbegrip van maar niet beperkt tot bliksem, water, vuur, publieke oproep en onderliggende aansprakelijkheid.

GAARANTEE CONDITIONS: DATEO guarantees this product to be free of defects in materials and workmanship within the time of its original purchase for a period of 12 months. If during this period of guarantee the product proves defective due to improper materials or workmanship, DATEO will repair or replace this product or its defective parts on the conditions explained hereafter. If the guarantee will require replacement of the product, the replacement product will be of the same or better quality than the original product. A receipt issued to the consumer by the retailer, DATEO reserves the right to refuse guarantee service. If this information or the products serial number has been removed or changed after the original purchase of the product, 2. This guarantee covers none of the following (a) periodic check-ups, maintenance, repair or replacements of parts due to normal wear and tear, (b) home service, (c) transportation costs and other costs and risks of transport relating directly or indirectly to the transportation of this product, (d) damage to this product resulting from abuse and misuse, including but not limited to the failure to use the product for its normal purpose, (e) damage to the product caused by fire, flood, lightning, theft, vandalism, or other causes, (f) damage to the product caused by the use of the product in a manner inconsistent with the technical or safety standards in force in the country where the product is used, repairs done by non-authorized service stations, accidents, acts of God or any cause beyond the control of DATEO. Including but not limited to lightning strikes, the public disturbances and improper ventilation.

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postzegel
stamp
briefmarke
timbre

DATEQ B.V.
De paal 37

1351 JG ALMERE
The Netherlands / Niederlande / Pays Bas