



# LPM 7.3

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

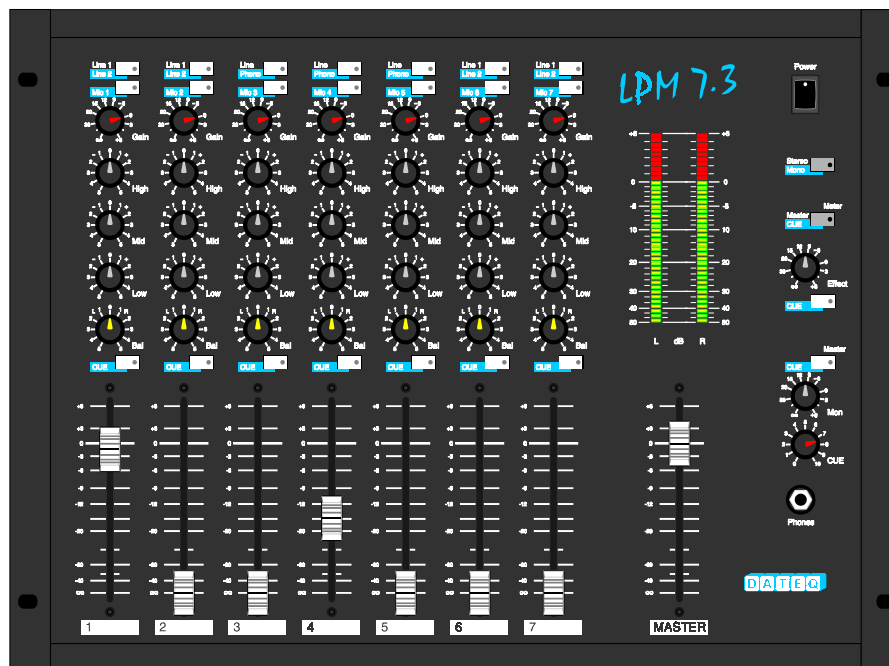
**DATEQ**  
*audio technologies*

## Safety instructions

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- 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 course 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

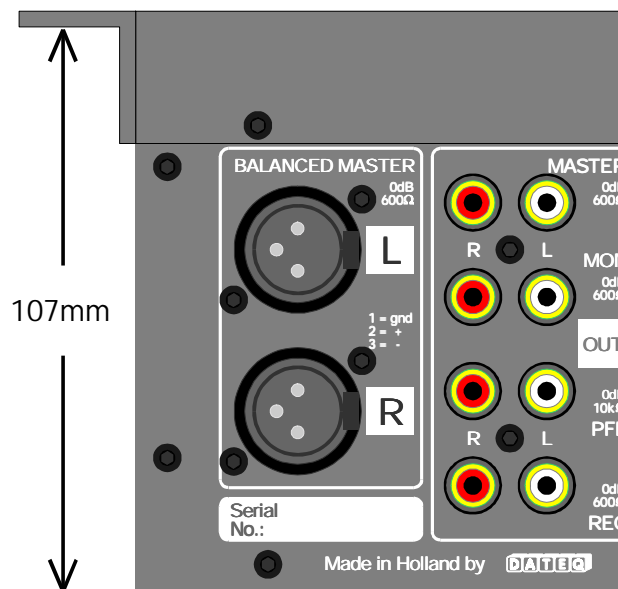
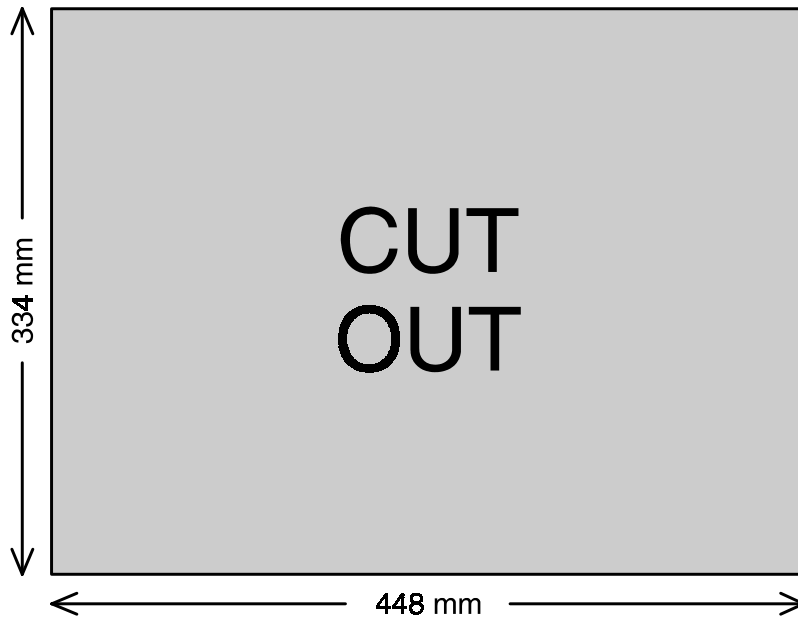
For questions regarding the LPM 7.3, accessories and other products, please contact

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1351 JG Almere, The Netherlands

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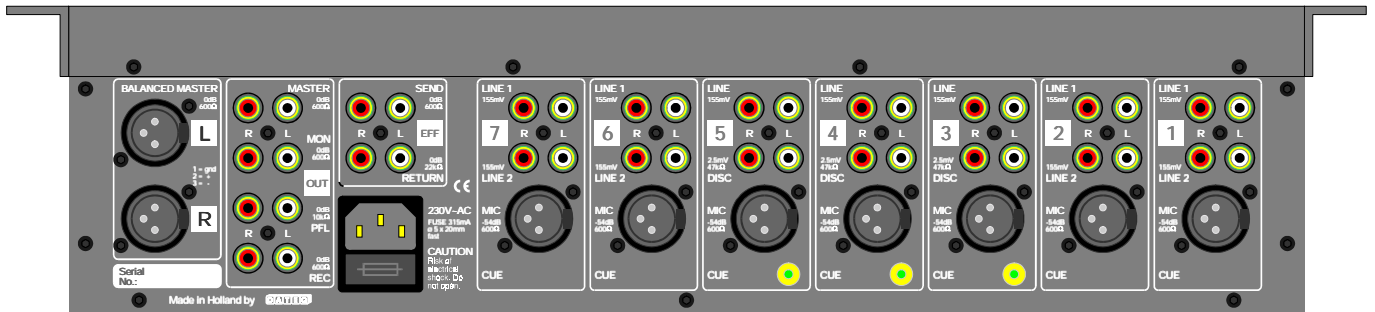
## Mounting the LPM 7.3

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

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<b>BALANCED MASTER L / R</b>	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.
<b>MASTER</b>	Unbalanced master output on cinch-connectors. Can be used to connect the LPM 7.3 to an amplifier or a recorder.
<b>MON</b>	Unbalanced monitor output on cinch connectors. Can be used to connect a second amplifier with monitor speakers for the DJ or a second room.
<b>PFL</b>	Unbalanced output on cinch connectors. This output follows the pre-fader listening. This output can be used to connect an (monitor) amplifier or recorder.
<b>REC</b>	Unbalanced recorder output on cinch-connectors. This output is fixed-level (independent from the master volume control).
<b>EFFECT SEND</b>	Stereo postfader effect sends from microphone inputs. This output can also be used as a cleanfeed output.
<b>EFFECT RETURN</b>	Stereo effect return input. Can also be used as an extra input.
<b>CHANNELS 1..7</b>	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.
<b>CHANNELS 1..7</b>	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.
<b>CUE</b>	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!
<b>FUSE</b>	Mains fuse. Dimension 5x20mm (small), 315mA slow.
<b>MAINS</b>	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)

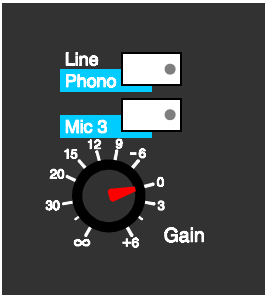
These channels are equipped with a double input selector which makes it possible to easily switch between 2 line inputs (such as CD-players, MD recorders) and a microphone source, as well as a Gain control, 3-way tone control, balance and pre-fader listening.



- 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.

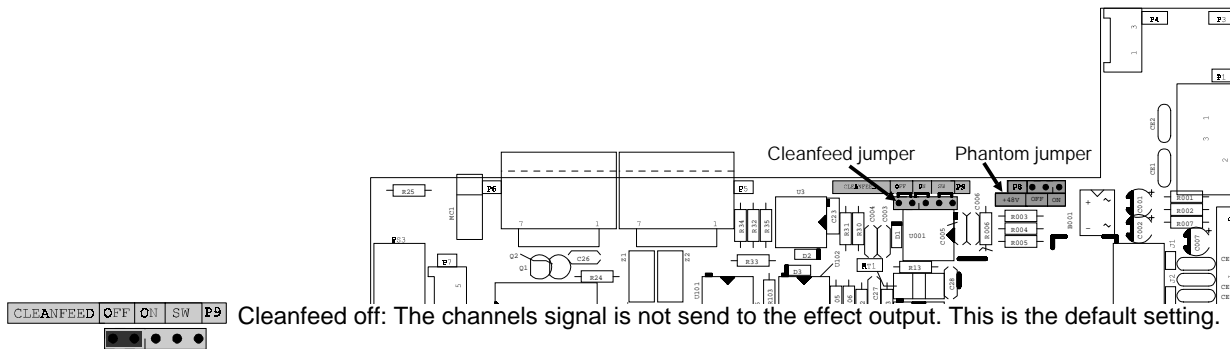


- DISC / LINE** Input selector. Normally the line input is selected. When pushed the phono input is selected. The LED is an overload indicator.
- MIC** Input selector. When pushed the MIC input will be activated.
- GAIN** Determines the pre-adjustment of the volume for the microphone as well as both stereo disc/line inputs.

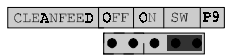
## Effect sends/ Cleanfeed and phantom jumpers

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 on: The channels signal is send to the effect-send output. This can be used when 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.

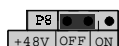


Cleanfeed sw: The channels signal is send to the effect output only when the microphone input is selected. This can be used when an effect-generator (echo etc.) is connected to the effect-send output.

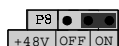
The effect-send output is post-fader: the volume is dependent of the fader.

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.





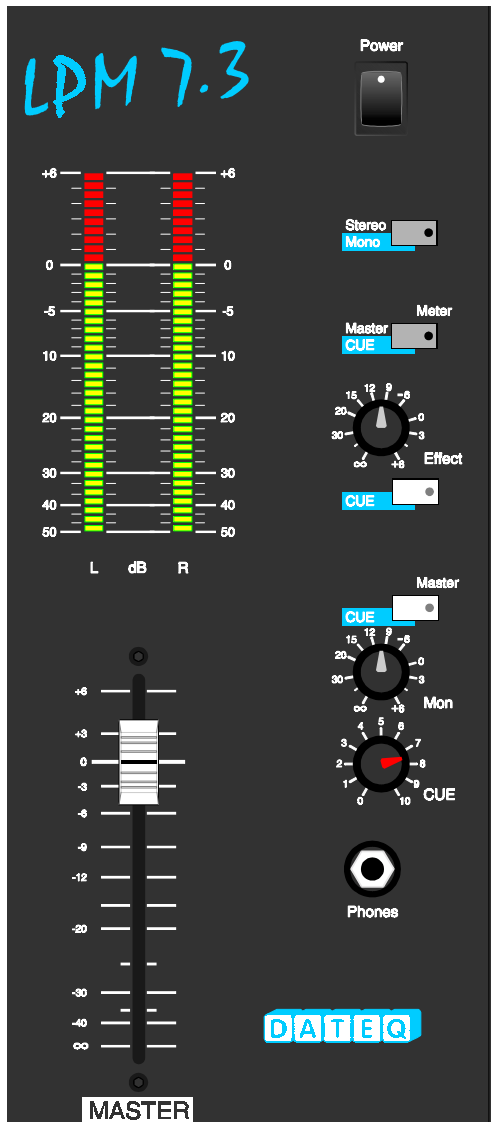
## Internal attenuator

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.



<b>POWER</b>	Mains power switch.
<b>STEREO/MONO</b>	All master outputs can be switched between stereo and mono with this button.
<b>METER</b>	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.
<b>EFFECT</b>	Volume control for the stereo effect-return input.
<b>PFL</b>	Switch to listen to the effect-return signal.
<b>MASTER</b>	Switch to listen to the master signal.
<b>MON</b>	Volume control for the unbalanced stereo Monitor output.
<b>PFL</b>	Volume control for the headphone output.
<b>PHONES</b>	Stereo headphone output.
<b>MASTER</b>	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 RESPONCE

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:

**DATEQ**  
*audio technologies*  
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

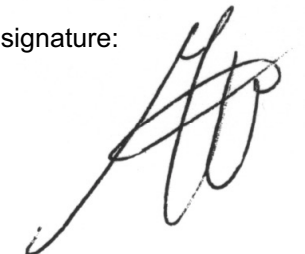
Almere, August 2<sup>nd</sup> 1996

stamp:

**DATEQ**  
*audio technologies*  
De Paal 37  
1351 JG Almere  
tel. 036-5472222, fax 036-5317776

J.H. Kloppenburg, managing director

signature:





**GARANTIE / GUARANTEE**

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model / Geräte Typ / produit:

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

dealer / dealer / Vertragshändler / concessionnaire:

adres / address / Adresse / adresse:

postcode / zip code / PLZ:

woonplaats / city / Wohnort / place:

koper / buyer / Käufer / acheteur:

adres / address / 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:

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

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

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**GARANTEE CONDITIONS:** DATEQ guarantees this product to be free of defects in materials and workmanship at the time of its original purchase for the period of 12 months. If during this period of guarantee the product proves defective due to improper materials or workmanship, DATEQ will repair or this product or its defective parts on the conditions explained hereafter. 1. The guarantee will be granted only if the correctly filled out guarantee card is presented together with the original invoice/cash ticket issued to the consumer by the retailer. DATEQ reserves the right to refuse guarantee service if this information or the product's 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 replacement of parts due to normal wear and tear. (b) home service repair costs and other costs and risks of transport relating directly or indirectly to irregular use of this product. (c) damage to this product resulting from abuse and misuse of the product. (d) damage to this product caused by other causes and purposes or in accordance with DATEQ's instructions on the proper use and maintenance of this product and the installation or the use of this 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 DATEQ, including but not limited to lightning, water, fire, public disturbances and improper ventilation.

**GARANTEE BEDINGINGEN:** DATEQ gewaantijeltel für die Garantiezeit daß dieses Gerät ab dem Zeitpunkt des Ersterwerts keine Material und Verarbeitungfehler aufweist. Die Garantiezeit beträgt 12 Monate. Sollen sich während der Garantiezeit Mängel des Gerätes herausstellen, die auf Material- oder Verarbeitungsfehlern beruhen, wird gemäß den nachstehenden Bedingungen DATEQ ohne Berechnung der Arbeits- und Materialkosten das Gerät oder seine schadhaften Teile reparieren. 1. Garantieleistungen werden nur erbracht, wenn die Garantiekarte zusammen mit der Originalrechnung und dem original ausgefüllten Garantiekarte zusammen mit der Originalrechnung an DATEQ bei dem Becht für Gewährleistung einreicht. Wenn nach dem Ersterwert des Gerätes durch den Verbraucher oder den Händler diese Angaben oder das Seriennummer entfernt oder geändert worden sind. 2. Diese Garantie deckt keinen der folgenden Punkte: (a) regelmäßige Inspektionen, Wartung bzw. Reparatur oder Austausch von Teilen bedingt durch normalen Verschleiß. (b) Transport-, Fahrtkosten und -risiken, die unmittelbar oder mittelbar mit dieser Garantiegarantie zusammenhängen. (c) Schäden an diesem Gerät, die verursacht worden sind durch: Misbrauch und Fehlgbrauch, missbräuchlicher Gebrauch dieses Gerätes, unrichtige Lagerung, unrichtige Bedienung, unrichtige Montage, unrichtige Bedienungs- und Wartungsanleitungen, und den Anschluß oder Gebrauch dieses Gerätes in einer den in dem Land, in dem das Gerät bezogen wird, geltenden technischen oder sicherheitstechnischen Anforderungen nicht entsprechenden Weise. Reparaturen durch nicht autorisierte Werkstätten; Unfälle, höhere Gewalt oder andere von DATEQ nicht zu verantwortende Ursachen, insbesondere Blitzschlag, Wasser, Feuer, Störungen der öffentlichen Ordnung und unzureichende Belüftung.

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postzegel  
stamp  
briefmærke  
tímbre

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De paal 37

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The Netherlands / Niederlande / Pays Bas