

MXA Series Mixer/Amplifiers

Operation Manual

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A grounding type plug has two blades and a third grounding prong. The third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 13) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 14) WARNING To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- 15) The MAINS plug or appliance coupler is used as the disconnect device. This disconnect device must remain redily accessible after installation.
- 16) In order to comply with international safety requirements for operating temperature, clearance of at least 5cm or 1.97" must be maintained between this device and other rack-mounted devices. This spacing will ensure that all exposed metal surfaces are safe to touch.

Explanation of safety related markings and symbols which appear on the outside of the apparatus.



<u>Lightning Bolt</u>: Hazardous Live voltages present when this unit is in operation. Do not touch terminals marked with this symbol while the unit is connected to live power.



<u>Exclamation Point</u>: Replace components (i.e. fuses) only with the values specified by the manufacturer. Failure to do so will compromise safe operation of this unit.



MXA Series

TABLE OF CONTENTS

Front & Rear Panel Features	pgs. 2 & 3
Installation Instructions	pgs. 4 & 5
Specifications	pg. 6
Block Diagram	pg. 7
Warranty	

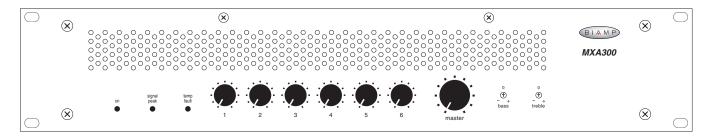
INTRODUCTION

The MXA Series of mixer/amplifiers combines a versatile 6-input mic/line mixer with either 35, 75, 150, or 300 Watt amplification. Mixing functions include mic/line/tel inputs, selectable automatic & manual channel muting, channel priority assignment, remote level control, tone control, a built-in limiter, an internal chime, phantom power, MOH output, and extensive patching. The amplifier includes an output transformer, and provides rated power into direct or distributed speaker systems. The MXA Series carries a five-year warranty.

MXA Series features include:

- integrated mixer, power amplifier, and output transformer
- six electronically balanced microphone/line input channels
- channel 1 selectable for 600 ohm transformer tel input
- rear panel trim & peak indicator on each input channel
- ◆ +48 Volt phantom power selectable on each input channel
- ◆ automatic muting of selected channels (-20dB or -80dB)
- automatic muting triggered by selected priority channels
- ◆ manual muting of selected channels (-20dB or -80dB)
- manual muting triggered from remote contact closures
- remote control of master level via rear panel terminals
- integral output limiter with rear panel threshold control
- recessed tone controls plus rear panel low-cut filter switch
- patch points for signal processing and systems interconnect
- ◆ Music On Hold output with independent level, from input 6
- ◆ 35, 75, 150, or 300 watts into direct or distributed systems
- ◆ front panel indicators for power, signal, peak, temp, & fault
- internal pre-announcement chime tone with level control
- input/output connections provided on barrier strip terminals
- covered by Biamp Systems' five-year warranty
- ◆ CE marked and UL / C-UL listed

FRONT & REAR PANEL FEATURES



On Indicator: This green LED remains lit when AC power is applied to the unit.

Signal/Clip Indicator: This 2-color LED indicates the signal level for the amplifier. When the LED is green, the amplifier has signal (above -30dB). When the LED is red, the amplifier signal is clipping (max. power). **CAUTION:** Signal levels should be adjusted to avoid clipping. Clipping can cause distortion, overtemperature conditions, and even loudspeaker damage.

Temp/Fault Indicator (not present on model MXA35): This red LED indicates over-temperature and output fault conditions for the amplifier. When the LED remains lit, the amplifier has an over-temperature condition. When the LED is flashing, the amplifier has an output fault condition. Either condition will temporarily de-activate the amplifier, causing the Signal/Peak LED to turn off as well. The amplifier will attempt to self-reset once the over-temperature or output fault condition is resolved.

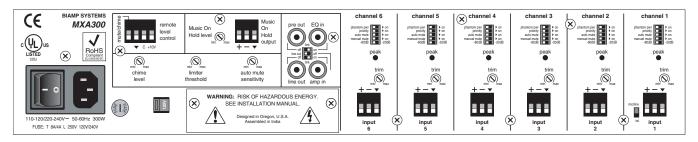
NOTE: Signal/Peak indicators will turn off during Temp/Fault conditions (see Signal/Peak & Temp/Fault Indicators above).

Level (Channels 1~6): These controls adjust the amount of signal sent from the individual input channels to the mixer output. Optimum Level setting is near the 12 o'clock position (unity gain).

Level (Master): This control adjusts the amount of signal sent from the mixer output to the amplifier input. The Master Level control is used to adjust the overall volume of the system.

Bass: This screwdriver control adjusts the low-frequencies ("Bass") at the mixer output (±12dB @ 50Hz).

Treble: This screwdriver control adjusts the high-frequencies ("Treble") at the mixer output (±12dB @ 10kHz).



AC Power Entrance: The switch applies power to the unit. The receptacle accepts the detachable Power Cord. The Power Cord is for connection to three-prong grounded outlets. **CAUTION:** Do not remove or defeat the ground prong on the Power Cord, as this constitutes a shock hazard. Equipment shall be connected to a mains socket outlet with a protective earthing connection. Plug is main disconnecting device and it shall remain readily operable.

Fuse: Replace Fuse with same type and value only. **NOTE:** If the Fuse continues to blow, the amplifier may require service.

Power Selector Switch: This switch selects either 120 Volt or 240 Volt AC operation.

Output Connector: These screw terminals provide the speaker outputs from the amplifier. **CAUTION:** To reduce the risk of electric shock, do not perform any servicing unless you are qualified to do so. Output connections must be made by qualified service personnel only (refer to Installation Instructions on pg. 4).

Chime Level: This control adjusts the volume level of a chime tone (see Mute/Chime below). To turn the chime tone off completely, set this control to the counter-clockwise position (min).

Limiter Threshold: This control adjusts the threshold level at which the internal limiter circuit is activated. To turn the limiter off completely, set this control to the clockwise position (max).

Auto Mute Sensitivity: This control adjusts the level at which signals from "priority" channels will automatically trigger muting of selected <u>non-priority</u> channels (see DIP Switches on next page). To increase auto mute sensitivity, turn this control clockwise.

Mute/Chime: This terminal (plus the adjacent ▼ terminal) allows manual muting of selected channels via an external switch or contact closure (see DIP Switches on next page). When the Chime Level control is turned up (on), a pre-announcement chime tone will also be activated by the switch or contact closure.

FRONT & REAR PANEL FEATURES

Remote Level Control: These two terminals (plus the adjacent " \bullet " terminal) provide remote volume control of the master level. An internal voltage controlled amplifier (VCA) allows remote control from up to 2000 feet away, using any $5k\sim50k\Omega$ linear taper potentiometer and/or switch to provide adjustment and/or muting of the master level. Potentiometers are wired with high-side to (+10V), low-side to (\bullet), and wiper to (C). Mute switches simply connect (C) to (\bullet), with no (+10V) connection required.

Music On Hold Level: This control adjusts the volume level of a Music On Hold output (see below). To turn the output off completely, set this control to the counter-clockwise position (min).

Music On Hold Output: These three terminals provide a balanced line-level output as a source for phone systems. This signal is derived from input channel 6. For unbalanced output, wire high to (+) and ground to (▼), leaving (-) unconnected.

Pre Out & EQ In: These two RCA jacks provide pre-tone patching for external equipment. When used as an 'insert point' for external signal processors, set the associated Link switch to the (off) position. When using Pre Out for recording and/or EQ In for stacking, the Link switch may remain in the (on) position.

Line Out & Amp In: These two RCA jacks provide post-master patching for external equipment. When used as an 'insert point' for external signal processors, set the associated Link switch to the (off) position. When using Line Out for external amps and/or Amp In for stacking, the Link switch may remain in the (on) position.

Low Cut: This switch controls a low-cut filter (12dB/octave @ 125Hz) at the amplifier input. *CAUTION:* To avoid output fault conditions, Low Cut must be used when driving 25/70/100 Volt speaker systems (see Installation Instructions on pg. 4). Also, any other system equalization affecting frequencies below 125Hz should remain flat or be used as cut-only. This also precludes boosting of the Bass control (see above) in these applications.

DIP Switches: The five DIP switches above each input are used to assign specific functions to those individual channels. Phantom Pwr assigns +48 Volts DC phantom power to the channel input, for powering condenser microphones. CAUTION: To avoid damage to equipment, assign phantom power only on channels being used as inputs for conderser microphones. Priority assigns a channel to priority. When signal is present in a priority channel, any nonpriority channels which are assigned to Auto Mute will be muted by their selected amounts (see below). NOTE: A priority channel cannot be auto muted by another priority channel, but a priority channel can be manually muted (see below). Auto Mute assigns a (non-priority) channel to be muted whenever signal is present in any priority channel. Manual Mute assigns a channel to be muted whenever the Mute/Chime terminal is shorted to ground via a switch or contact closure. Mute Level assigns the amount of muting (-80dB or -20dB) which is applied to a channel, when triggered by either Auto Mute or Manual Mute. NOTE: -80dB is effectively complete muting (off), whereas -20dB is audible attenuation (ducking).

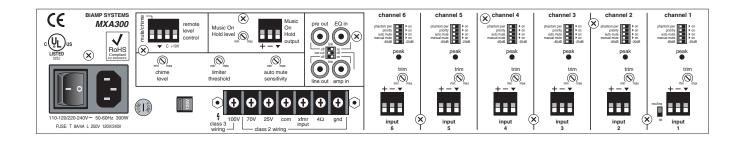
Peak: These red LEDs will light whenever channel signal levels reach +10dB (8dB below clipping). Use this feature to aid in proper adjustment of Trim (see below).

Trim: These screw-driver controls set the channel gain (0~60dB) to compensate for different input signal levels (mic or line). Adjust these controls so the channel Peak indictors flash only on occasional peaks.

Mic/Line or Tel Switch (Channel 1 only): This switch selects the proper impedance and gain for either mic/line input signals or input from 600 ohm sources. The input for Channel 1 includes an isolation transformer, which allows connection to most telephone system audio ports.

Inputs: These plug-in barrier strips provide a balanced input connection for each channel. For unbalanced input, wire high to (+) and ground to both (-) & (\blacktriangledown) . The input for Channel 1 includes an isolation transformer.

INSTALLATION INSTRUCTIONS



CAUTION: These Installation Instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing unless you are qualified to do so.

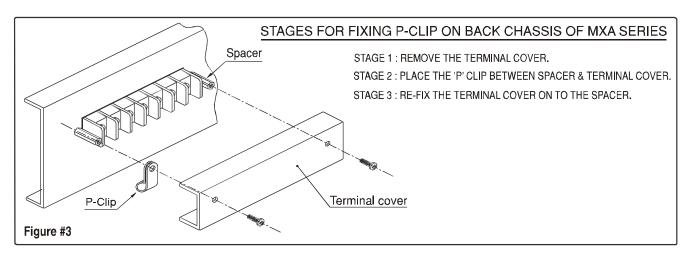
Output Connector: These seven screw terminals provide the speaker outputs from the amplifier. From the factory, a jumper wire is installed from the 4Ω terminal (direct output) to the **xfmr input** terminal. For transformer (xfmr) output, connect speaker negative to the **com** terminal, and connect speaker positive to the appropriate transformer output terminal (25V for a 25 Volt distributed speaker system; 70V for a 70 Volt distributed speaker system; 100V for a 100 Volt distributed speaker system). For direct amplifier output, first remove the factory installed jumper wire, then connect speaker negative to the **gnd** terminal, and connect speaker positive to the 4Ω terminal.

CAUTION: The 100V output requires Class 3 wiring. Please refer to a qualified electrician.

CAUTION: To avoid output fault conditions, Low Cut must be used when driving 25/70/100 Volt speaker systems (see Front & Rear Panel Features on pg. 3). Also, any other system equalization affecting frequencies below 125Hz should remain flat or be used as cut-only. This also precludes boosting of the Bass control in these applications.

Speaker Output Connections:

- 1) M4 ring lugs (9mm) supplied as accessories with this product must be used to connect speaker wires to the amplifier output screw terminals. This will prevent the wires from accidentally disconnecting from the screw terminals. The ring lugs will accept 14~20 AWG wire. For proper wiring and insulation of ring lugs, in particular for 100V output, see Figures #1 & #2 on next page.
- 2) 'P' Clip supplied as an accessory with this product must be used to route the speaker wires.
- 3) For installation of the 'P' Clip refer to Figure #3 below.



INSTALLATION INSTRUCTIONS

100 VOLT DISTRIBUTED INSTALLATIONS MXA 35, 75, 150, 300 AMPLIFIERS

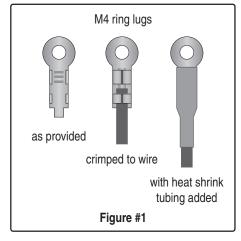
A minor modification for wiring 100V installations is required to comply with safety regulations.

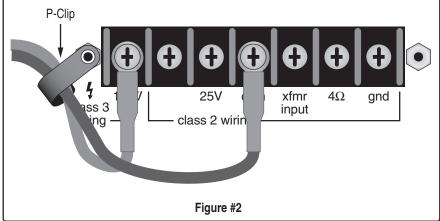
Instructions:

On any installation using the 100 volt output tap, insulation must be applied to the supplied ring lug terminals. This insulation is to prevent unintentional contact with the energized 100 volt tap. Please perform the following steps.

- 1) Remove mains power from the unit to be serviced.
- 2) Remove the safety cover from the output barrier strip.
- 3) Remove the barrier terminal screws for the 100 volt tap and Com connections.
- 4) Strip 0.25" (6.4mm) of insulation from each lead.
- 5) Slide one piece of the supplied heat shrink tubing on to each wire.
- 6) Crimp the ring lug terminals on to the prepared wires. See Figure #1.
- 7) Slide the heat shrink as far onto the shank of the ring terminal as possible.
- 8) Apply a heat source such as a heat gun or match to the heat shrink tubing until it shrinks onto the lug/wire.
- 9) Reassemble the lugs and screws to the 100 volt tap and Com connections. Tighten the screws securely.
- 10) Replace the safety cover and screws.

This completes the safety modification.

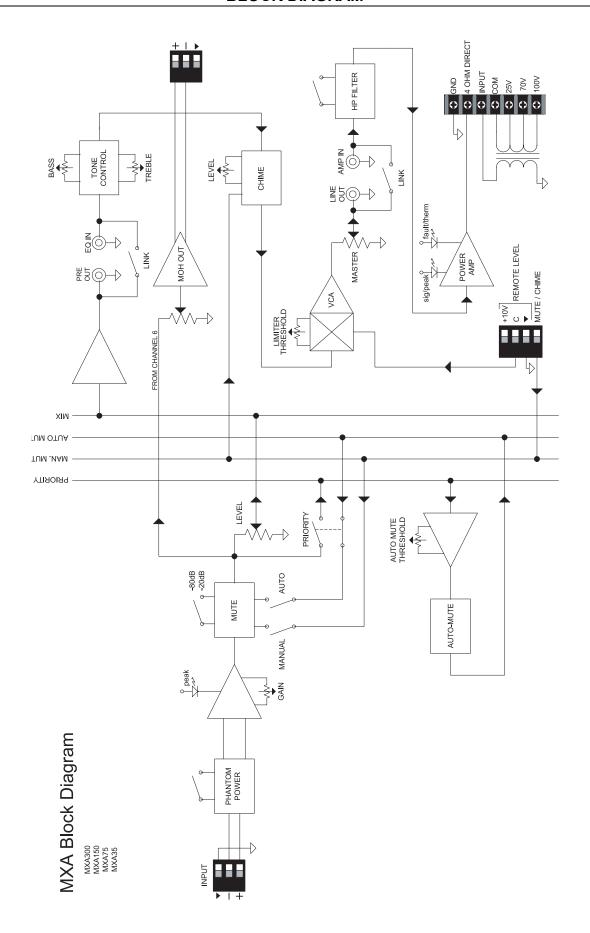




SPECIFICATIONS

MXA SERIES SPECIFICATIONS

Output Power (4 ohm load):		Tone Controls:	
MXA35	35 watts	Treble	±12dB @ 10kH;
MXA75	75 watts	Bass	±12dB @ 50H;
MXA150	150 watts	High-Pass Filter:	12dB/oct. @ 125H;
MXA300	300 watts	"	120D/00t. @ 120112
Output Transformer Voltages:	25V, 70V, 100V	Power Consumption:	
Frequency Response (+0/-1.5dB):		MXA35	< 75 watts
4 ohm direct output	20Hz ~ 20kHz	MXA75	< 100 watts
transformer output	50Hz ~ 20kHz	MXA150	< 150 watt
THD+Noise (1kHz @ rated power):	< 0.2%	MXA300	< 300 watt
Equivalent Input Noise (150 ohm termination):	-126dBu		C 000 Walls
Signal-to-Noise Ratio (20Hz~20kHz):		Dimensions (all models):	
0dBu input, minimum trim	> 90dB	height (2 rack spaces)	3.47" (88 mm
-60dBu input, maximum trim	> 66dB	width	19" (483 mm
Input Impedance / Sensitivity:		depth	9.8" (249 mm
mic/line inputs	10kΩ / -71dBu ~ -11dBu	Weight:	
Tel (Channel 1)	600Ω / -71dBu ~ -11dBu	•	47.5 lb - /7.0 l
EQ In & Amp In	10kΩ / 0dBu (774mV)	MXA35	17.5 lbs. (7.9 kg
Output Impedance / Level:		MXA75	19 lbs. (8.6 kg
Pre Out & Line Out	100Ω / 0dBu (774mV)	MXA150	21 lbs. (9.1 kg
MOH	200Ω / +6dBu (1.5V)	MXA300	23 lbs. (10.5 kd
Limiter:		Compliance:	AES48-2005 Grounding & EMC practice
attack time	2 ms	Compilative.	
release time	500 ms		EU Directive 2002/95/EC, RoHS directive
compression ratio	20:1		UL / C-UL liste
threshold adjust range	-10dBu ~ +18dBu		CSA tested to UL6006



WARRANTY

BIAMP SYSTEMS IS PLEASED TO EXTEND THE FOLLOWING 5-YEAR LIMITED WARRANTY TO THE ORIGINAL PURCHASER OF THE PROFESSIONAL SOUND EQUIPMENT DESCRIBED IN THIS MANUAL

- 1. BIAMP Systems warrants to the original purchaser of new products that the product will be free from defects in material and workmanship for a period of 5 YEARS from the date of purchase from an authorized BIAMP Systems dealer, subject to the terms and conditions set forth below.
- 2. If you notify BIAMP during the warranty period that a BIAMP Systems product fails to comply with the warranty, BIAMP Systems will repair or replace, at BIAMP Systems' option, the nonconforming product. As a condition to receiving the benefits of this warranty, you must provide BIAMP Systems with documentation that establishes that you were the original purchaser of the products. Such evidence may consist of your sales receipt from an authorized BIAMP Systems dealer. Transportation and insurance charges to and from the BIAMP Systems factory for warranty service shall be your responsibility.
- 3. This warranty will be VOID if the serial number has been removed or defaced; or if the product has been altered, subjected to damage, abuse or rental usage, repaired by any person not authorized by BIAMP Systems to make repairs; or installed in any manner that does not comply with BIAMP Systems' recommendations.
- 4. Electro-mechanical fans, electrolytic capacitors, and normal wear and tear of items such as paint, knobs, handles, and covers are not covered under this warranty.

- 5. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. BIAMP SYSTEMS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
- 6. The remedies set forth herein shall be the purchaser's sole and exclusive remedies with respect to any defective product.
- 7. No agent, employee, distributor or dealer of Biamp Systems is authorized to modify this warranty or to make additional warranties on behalf of Biamp Systems. statements, representations or warranties made by any dealer do not constitute warranties by Biamp Systems. Biamp Systems shall not be responsible or liable for any statement, representation or warranty made by any dealer or other person.
- 8. No action for breach of this warranty may be commenced more than one year after the expiration of this warranty.
- 9. BIAMP SYSTEMS SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING LOST PROFITS OR LOSS OF USE ARISING OUT OF THE PURCHASE, SALE, OR USE OF THE PRODUCTS, EVEN IF BIAMP SYSTEMS WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Biamp Systems 10074 S.W. Arctic Drive Beaverton, Oregon 97005 (503) 641-7287

585.0188.90A



CE

EC Declaration of Conformity

Biamp Systems Corporation, as manufacturer having sole responsibility, hereby declares that our delivered version of the following described product complies with the applicable provisions of the DIRECTIVES except as noted herein. In case of any alterations to the product not agreed upon and directed by Biamp Systems Corporation, this declaration is no longer valid.

Product Models: MXA-35, MXA-75, MXA-150 and MXA-300

Product Description: Audio Amplifiers

<u>Applicable EC Directives</u>: <u>Applicable Harmonized Standards</u>:

LVD Directive (2006/95/EC) Safety, EN 60065:2001, Seventh Edition
EMC Directive (2004/108/EC) Emissions, EN 55103-1:1996, Environment E2

Immunity, EN 55103-2:1996

Special Considerations for Product Environment or Compliance:

Shielded cabling must be used for system connections.

Technical Documentation File Location and Contact:

Biamp Systems Corporation phone: (503) 641-7287 10074 S.W. Arctic Drive fax: (503) 626-0281 Beaverton, OR USA 97005 e-mail: biamp@biamp.com

Jarry Copley

<u>Authorized Representative</u>:

Larry Copley, Compliance Engineer

Authorized Signature:

Issued: May, 2007

SAFETY INFORMATION

The words WARNING and CAUTION throughout the manual, and on the device, call attention to important safety information. These words have the following meanings.

WARNING: The related information alerts you to conditions that could result in serious injury or damage to property if the instructions are not followed property.

CAUTION: The related information instructs you on how to prevent damage to the equipment or how to avoid conditions that could result in minor injury if proper steps are not followed

Product labelling and the operation manual may use the internationally recognized symbols defined below to note safety messages.



The lightning flash with arrowhead symbol, enclosed within a triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the apparatus's enclosure or at connection terminals that may be of sufficient magnitude to constitute a risk of electrical shock.



The exclamation point, enclosed within a triangle, is intended to alert the user to important installation, operation, and maintenance (servicing) instructions in the literature accompanying the apparatus.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

CAUTION:

Installation of this apparatus should be made by a qualified installation person and should conform to all applicable local codes.



Modification and optional equipment information referenced in this manual is for use by qualified installation and service personnel only.







CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

"INFORMACIÓN DE SEGURIDAD"

Las palabras PELIGRO (WARNING) y PRECAUCIÓN (CAUTION) a lo largo del manual y en el Estas palabras tienen los siguientes significados :

PELIGRO : la información relata las condiciones en que podría ser dañada seriamente la (WARNING) propiedad si no se siguen adecuadamente las instrucciones.

PRECAUCIÓN : la información que se relata te instruye en cómo prevenir daños al equipo o como evitar condiciones que podrían resultar en perjuicio menor si los pasos adecuados no son seguidos correctamente.

El etiquetado del producto y el manual de operación pueden hacer uso de los símbolos reconocidos internacionalmente y cuyos mensajes estan definidos a continuación para modificar mensaies de seguridad:



El símbolo del rayo encerrado en un triángulo pretende alertar al usuario de la presencia de un peligroso voltaje no aislado ,dentro de la caja del aparato o a un terminal de conexión y que podría ser de suficiente magnitud como para constituir un carun incer de decergeme ejéctrica. un grave riesgo de descarga eléctrica.



El punto de exclamación dentro de un triángulo pretende alertar al usuario de la importancia de las instrucciones de instalación, operación y mantenimiento (servicio) que acompañan al aparato.

PELIGRO : para reducir el riesgo de fuego o una descarga electrica, no exponer este (WARNING) aparato a la lluvia o la humedad.

PRECAUCIÓN: la instalación de este aparato debería hacerse por una persona cualificada (CAUTION) en la instalación, y debería conformar todos los códigos locales aplicables.



La modificación y la información opcional del equipo referenciada en este manual es para ser utilizada únicamente por personal cualificado en instalación y servicio.



PRECAUCIÓN



PRECAUCIÓN: para reducir el riesgo de

REFERIRSE ÚNICAMENTE A PERSONAL CUALIFICADO PARA SERVICIO TECNICO

INFORMATION CONCERNANT **VOTRE SECURITE**

Les mots WARNING et CAUTION dans le manuel d'utilisation et sur les appareils attirent votre attention sur les plus importantes informations concernant votre sécurité. Ces mots ont la

WARNING: Ce mot vous indique les circonstances dans lesquelles vous pourriez être blessé ou endommager votre équipement si les instructions ne sont pas suivies correctement.

CAUTION: Ce mot vous indique comment éviter d'endommager votre matériel et comment éviter de vous blesser si vous ne suivez pas les instructions.

Vous trouverez peut-être les symboles suivants sur votre appareil ou dans le manuel d'utilisation



L'éclair se terminant en flèche dans un triangle permet de prévenir l'utilisateur d'un voltage dangereux non isolé dans l'appareil ou d'une connexion d'une amplitude suffisante pour constituer un risque de choc électrique.



Le point d'exclamation dans un triangle permet de prévenir l'utilisateur des points importants concernant l'installation, le fonctionnement et l'entretien de l'appareil figurant dans le manuel d'utulisation.

WARNING: POUR REDUIRE LES RISQUES DE FEU OU DE CHOC ELECTRIQUE, NE PAS METTRE L'APPAREIL SOUS LA PLUIE OU DANS L'HUMIDITE.

CAUTION: L'installation de cet appareil doit être faite par un installateur qualifié et doit être en conformité avec toutes les lois locales en application.



Les informations concernant une modification ou un équipement en option dans le manuel doivent être effectué par du personnel qualifié





ATTENTION: L'entretien des pièces intérieures ne peut par être fait par des personnes non quelifiées.

Faire faire l'entretien uniquement par du personnei qualifié

INFORMAZIONI PER LA SICUREZZA

parole AVVERTENZA (WARNING) e PRUDENZA (CAUTION) poste sul manuale d'uso e sul apparato richiamano la vostra attenzione su delle importanti informazioni per la vostra sicurezza. Queste parole hanno il seguente significato.

AVVERTENZA: La suddetta indicazione vi avvisa sul rischio di incorrere in danni a cose o a (WARNING) persone ,se le procedure d'uso e installazione non saranno seguite propriamente

PRUDENZA: La suddetta indicazione vi instruisce su come prevenire e ridurre al minimo, il rischic (CAUTION) di danni agli apparati e alle persone se le instruzioni saranno seguite propriamente.

Le apparecchiature e i manuali di instruzioni riporteranno la simbologia standard raffigurata qui sotto ,accompagnate dallo rolative informazioni per la sicurezza.



La simbologia con il fulmine all'interno di un triangolo, intende avvisare l'utente della presenza di alto volaggio all'interno del apparecchio in questione, e che il suddetto apparecchio si alimenta attraverso una tensione di rete ad alto voltaggio e che dunque si potrebbe incorrere sul rischio di una possibile scossa elettrica.



La simbologia con il punto esclamativo all'interno di un triangolo, intende avvisare l'utente di una serte di instruzioni contenute nel manuale d'uso riguardanti : operato,manutenzione e assistenza. Il suddetto manuale sarà a corredo dell'apparecchio.

AVVERTENZA: PER RIDURRE IL RISCHIO DI POSSIBILI INCENDI O SCOSSE ELECTTRICHE SCONSIGUAMO DI ESPORRE L'APPARECCHIO ALLA PIOGGIA O ALL'UMIDITA'.

PRUDENZA: l'Installazione di questo apparato dovrà essere effettuata solo da personale (CAUTION) qualificato e il tipo di installazione dovrà essere in regola con le norme vigenti local



Modifiche e ulteriori informazioni specificate in questo manuale sono solamente riservate al personale qualificato all'installazione.





NZA: a scopo di ridurre la possibilità di incorrere in scosse elettrich

r ogni necessità di servizio e menutenzione rivolgersi al personale qu

Sicherheitshinweise

Die Bergriffe WARNUNG (engl. WARNING) und ACHTUNG (engl. CAUTION) in der Bedienungsanleitung und auf den Geräten machen auf wichtige Sicherheitsinformatie aufmerksam. Diese Begriffe haben die folgende Bedeutung:

WARNUNG: Der folgende Text warnt Sie vor ernsthaften Verletzungen oder Beschädigungen, (WARNING) die aus einer fehlerhaften Bedienung bzw. Handhabung des Gerätes resultieren

ACHTUNG: Der folgende Text informiert Sie über Bedienungshinweise zum Schutz Ihres (CAUTION) Gerätes oder weist auf mögliche Schäden hin, wenn die Bedienungshinweise nicht beachtet werden.

Die Beschriftung der Geräte und die Bedienungsanleitungen weisen unter Umständen international bekannte Symbole auf, die die folgende Bedeutung haben:



Das Blitzsymbol im Dreieck warnt vor anliegender, nicht isolierter "gefährlicher Spannung" im Inneren oder an den Anschlüssen des Gerätes. Die Berührung der unter Spannung stehenden Teile kann zu einem elektrischen Schock führen.



Das Rufzeichen im Dreieck macht auf wichtige Installations-, Bedienungs- und Servicehinweise in der zugehörigen Bedienungsanleitung aufmerksam.

WARNUNG: Zur Minderung des Risikos von Feuer und elektrischem Schock schützen Sie das (WARNING) Gerät vor Regen und Feuchtigkeit.

ACHTUNG: Die Installation des Gerätes sollte nur durch qualifiziertes Personal durchgeführt (CAUTION) werden und muß den jeweiligen Bestimmungen entsprechen.



Die Modifikationen und die Informationen zu den optionalen Erweiterungen in der Bedienungsanleitung sind nur für qualifiziertes Personal bestimmt.



Achtung: Zur Minderung des Risikos von elektrischem Schock das Gerät nicht öffnen

ce nur durch qualifiziertes Personal durchführen la

Sikkerhedsinformation

Ordene ADVARSEL (WARNING) og FORSIGTIG (CAUTION), brugt i henholds brugervejledning og på selve produktet, indikerer, at vigtig information omkring Ordene betyder følgende: ion omkring sikkerhed følger.

ADVARSEL: Den efterfølgende information advarer Dem om forhold, der kan føre til alvorlige (WARNING) ulykker og ejendomsskader, hvis ikke vejledningen følges.

FORSIGTIG: Den efterfølgende information vejleder Dem i, hvordan De undgår skade på (CAUTION) produktet, samt undgår forhold der kan føre til mindre ulykker og ejendomsskader, hvis ikke vejledningen følges.

Produktetiketter og brugervejledning kan indeholde de internationalt anerkendte symboler der er vist nedenfor:



Trekanten med et lyn i midten har til hensigt at advare brugeren om, at produktet indeholder "farlig spænding", og at det derfor er forbundet med fare for elektrisk stød at åbne produktet.



Trekanten med udråbstegn har til hensigt at advare brugeren om, at vigtig information omkring installation, brug, service og vedligeholdelse af produktet er indeholdt i den medfølgende brugervejledning.

ADVARSEL: Med henblik på at reducere risikoen for brand eller elektrisk stød, må produktet ikke

FORSIGTIG: Installation af dette produkt skal foretages af en autoriseret installater og skal være i (CAUTION) overenstemmelse med alle anvendelige lokale retningslinier.



Modifikationer samt alternativt udstyr beskrevet i denne brugervejledning er kun henvendt til kvalificerede installatører og servicepersonale.



Anvend autoriseret servicepersonale ved alle servicetitu

VEILIGHEIDSINFORMATIE

De woorden WAARSCHUWING (WARNING) en VOORZICHTIG (CAUTION) welke in de handleiding en op het apparaat voorkome Zij hebben de volgende betekenis Zij hebben de volg

De betreffende informatie waarschuwt U voor omstandigheden die kunnen leiden tot defecten of beschadigingen aan apparaten als de instructies niet volledig worden opgevolgd.

VOORZICHTIG: De betreffende informatie instrueert U hoe U defecten aan apparatuur kunt (CAUTION) voorkomen of hoe U omstandigheden kunt vermijden die kunnen resulteren in schade als de juiste stappen niet worden opgevolgd.

Produkt informatie en handleiding hanteren onderstaande internationaal erkende symbolen om



De bliksemschicht in een driehoek wordt gebruikt om de gebruiker te attenderen op ongeïsoleerde "gevaarlijke spanning" in het apparaat of bij de aansluitklemmen, die het risico van een electrische schok kunnen geven.



Het uitroepteken in een driehoek wordt gebruikt om de gebruiker te attenderen op belangrijke installatie, gebruiks- en onderhoudsinstructies in de beschrijving die bij het apparaat hoort.

WAARSCHUWING: OM HET RISICO VAN BRAND OF EEN ELECTRISCHE SCHOK TE (WARNING) VERMIJDEN DIENT U HET APPARAAT NIET AAN VOCHT BLOOT TE STELLEN.

VOORZICHTIG: (CAUTION) Installatie van dit apparaat dient te geschieden door gekwalificeerd personeel en dient te geschieden conform de plaatselijke voorschriften.



Modificaties en aanvullende informatie waar in de handleiding naar wordt verwezen, dient alleen voor gebruik door gekwalificeerd personeel.



TURVALLISUUSTIEDOTE

Sanat VAROITUS (WARNING) ja HUOMIO (CAUTION), jotka esiintyvät manuaalissa ja itse

VAROITUS: Yhteydessä oleva informaatio varoittaa olosuhteista, jotka saattavat johtaa vakaviin (WARNING) vammoihin tai laitteen vaurioitumiseen, mikäli ohjeita ei täysin noudateta.

Yhteydessä oleva informaatio neuvoo, miten laitteen vaurioituminen voidaan

ehkäistä tai miten voidaan välttää olosuhteet, jotka voivat johtaa lieviin vammoihin, mikäli ohjeita ei noudateta.

Tuotteessa tai käyttöohjeessa voidaan käyttää seuraavia alla määriteltyjä kansainvälisiä symboleja, jotka viittaavat turvallisuusinformaatioon.



Kolmion sisällä olevan nuolipäinen salama varoittaa käyttäjää laitteen sisällä tai liitännöissä olevasta eristämättömästä vaarallisesta jännitteestä, joka saattaa olla tarpeeksi suuri aiheuttaakseen sähköiskun vaaran.



Kolmion sisällä oleva huutomerkin tarkoituksena on ilmoittaa käyttäjälle tärkeistä asennusta, käyttöä tai huoltoa koskevista ohjeista laitteen mukana seuraavassa kirjallisuudessa.

ÄLÄ ALTISTA LAITETTA SATEELLE TAI KOSTEUDELLE TULIPALON JA SÄHKÖISKUN VAARAN VUOKSI. VAROITUS:

HUOMIO: (CAUTION)

Laitteen asentaminen tulisi jättää ammattitaitoisen henkilön suoritettavaksi ja asennuksessa tulee noudattaa kaikkia paikallisia säännöksiä.



Tässä manuaalissa oleva informaatio, joka koskee muutostöitä ja lisälaitteita, on tarkoitettu vain ammattitaitoisten asennus- ja huoltohenkilöiden käyttöön.



SIKKERHETS INFORMASJON

Når ordene ADVARSEL (WARNING) og VIKTIG (CAUTION) blir brukt i manualen og på produkt gjelder det informasjon som har med brukerens sikkerhet å gjøre. Ordene har følgende mening:

ADVARSEL: Tilhørende informasjon viser til forhold som kan resultere i alvorlige skader eller (WARNING) ødeleggelser hvis anvisningene ikke følges nøye.

Tilhørende informasjon forteller deg hvordan du skal unngå feil på utstyret, eller unngå situasjoner som kan resultere i mindre skader. (CAUTION)

Produkt merkingen og bruksanvisningen bruker internasjonale symboler for å merke punkter som er viktige for brukerens sikkerhet.



Lynet i en triangel advarer brukeren om uisolert "farlig spenning" inne i apparatet, eller tilkoblings terminaler som kan gi støt.



Etter utropstegnet i en triangel følger informasjon som er viktig når det gjelder installasjon, bruk og vedlikehold (service) av apparatet.

ADVARSEL: FOR Å REDUSERE FAREN FOR BRANN ELLER STØT MÅ APPARATET IKKE

VIKTIG: (CAUTION)

Installasjon av apparatet skal foretas av autorisert installatør etter gjeldende

Modifikasjoner og tilleggs informasjon som følger er kun for kvalifiserte installatører eller service personell.



rne deler skal justeres eller repareres av bruke

Overlat service til autorisert personell.

SÄKERHETS INFORMATION

Orden VARNING (WARNING) och OBSERVERA (CAUTION) vilka används i denna manual och på apparaten, är menade att uppmärksamma viktig säkerhets information. Dessa ord har följande

VARNING:

Information som uppmärksammar på omständigheter som kan resultera i allvarlig personskada eller skada på egendom om instruktionerna ej följs.

OBSERVERA: Information som uppmärksammar på instruktioner om hur skada på utrustning eller hur situationer där lättare personskador kan uppstå undvikes.

Följande internationellt använda ord och symboler används i handboken och på märkningar på produkten för att uppmärksamma användare på viktiga säkerhets instruktioner.



En blixt med pil, innesluten i en triangel, menad att uppmärksamma användare på närvaron av oisolerade "farliga spänningar" i apparaten eller på anslutnings kontakter vilka har tillräcklig styrka för att medföra risk för elektrisk söt.



Ett utropstecken, inneslutet i en triangel, menad att uppmärksamma användare på viktiga installations. handhavande eller underhålls-instruktioner i medföljande dokumentation.

FÖR ATT MINSKA RISKEN FÖR BRAND ELLER ELEKTRISK STÖT, UTSÄTT EJ APPARATEN FÖR FUKT ELLER VÄTSKA.

VARNING: (WARNING) OBSERVERA:

Installation av denna apparat skall utföras av kvalificerad installatör samt enligt alla gällande lokala bestämmelser.



Eventuella modifierings instruktioner och annan information av teknisk art i denna manual är endast avsedd att användas av kvalificierad installations och service



INGA AV ANVÄNDARE UTBYTBARA ELLER REPARE KOMPONENTER INUTI DENNA APPARAT.

ALL SERVICE PÅ DENNA APPARAT SKALL UTFÖRAS AV KVALIFICIERAD PERSONAL

ΠΛΗΡΟΦΟΡΙΕΣ ΑΣΦΑΛΕΙΑΣ

Οι λέξεις ΚΙΝΔΥΝΟΣ (WARNING) και ΠΡΟΣΟΧΗ (CAUTION) που αναφέρονται μέσα στο εγχειρίδιο και στη συσκευή, επικεντρώνουν την προσοχή σε σημαντικές πληροφορίες ασφαλείας, Οι λέξεις αυτές έχουν την παρακάτω σημασία.

ΚΙΝΔΥΝΟΣ: Η αναγραφόμενη πληροφορία επιστά την προσοχή σας σε καταστάσεις που (WARNING) θα μπορούσαν να έχουν σαν αποτέλευμα σόβαρό τρανματισμό ή καταστροφή της ιδιοκτησίας σν ο ιδήγιές δεν ακολουθήθούν κατάλληλα.

ΠΡΟΣΟΧΗ: Η αναγραφόμενη πληροφορία σας καθοδηγεί πώς να προλάβετε καταστροφή (CAUTION) του εξοπλισμού ή πώς να αποφύγετε καταστάσεις που θα μπορούσαν να έχου αποτέλεσμα μικροτραυματισμούς αν δεν ακολουθηθούν τα σωστά βήματα.

Στις επιγραφές των προτόντων και στο εγχειρίδιο λειτουργίας, χρησιμοποιούνται τα ιγνωρισμένα σύμβολα, των οποίων ο ορισμός δίνεται παρακάτω έτσι ώστε να υπογραμμιστούν τα μηνύματα ασφαλείας.



Η φωτεινή αναλαμπή με σύμβολο το βέλος, μέσα στο τρίγωνο, έχει σκοπό να επιστήσει την προσοχή του χρήστη, στην ύπαρξη μη- μονομένης « επικίνδυνης ισχύος ρεύματος » στο εσωτερικό της συσκευής ή στις άκρες σύνδεσης οι οποίες μπορεί να έχουν αρκετό μέγεθος ώστε να περιέχουν κίνδυνο ηλεκτροπληξίας.



Το επεξηγηματικό σημείο, μέσα στο τρίγωνο, έχει σκοπό να επιστήσει την προσοχή του χρήστη στις σημαντικές οδηγίες εγκατάστασης, λειτουργιας και συντήρησης (service) που περιέχονται στα φυλλάδια που συνοδεύουν την συακευή.

ΚΙΝΔΥΝΟΣ : Για να αποφύγετε τον κίνδυνο φωτιάς ή ηλεκτροπληξίας, μην εκθέτετε αυτή τη (WARNING) αυσκευή σε βροχή ή σε υγρασία.

Η εγκατάσταση αυτής της συσκευής θα πρέπει να γίνει από εξειδικευμένο άτομο και θα πρέπει να προσαρμόζεται σε όλους τους εφαρμόσιμους τοπικούς κώδικες.



Οι τροποποιήσεις και οι προϋποθετικές πληροφορίες για τον εξοπλισμό, που αναφέρονται σε αυτό το εγχαιρίδιο, προορίζονται για χρήση μόνο από εξειδικευμένα στην εγκατάσταση και στο service, άτομα.



ΔΕΝ ΠΑΡΕΧΟΝΤΑΙ ΑΝΤΑΛΛΑΚΤΙΚΑ SERVICE ΣΤΟΝ ΧΡΗΣΤΗ

ΓΙΑ SERVICE ΑΝΑΦΕΡΘΕΙΤΕ ΣΤΟ ΕΞΟΥΣΙΟΔΟΤΗΜΕΝΟ ΠΡΟΣΩΠΙΚΟ SERVICE

INFORMAÇÃO SOBRE SEGURANÇA

As palavras ADVERTÊNCIA (WARNING) e PRECAUÇÃO (CAUTION) neste manual, e no dispositivo, alertam para importantes informações sobre segurança. Estas palavras significam o

ADVERTÊNCIA: Informação relacionada que alerta sobre condições que poderão resultar em (WARNING) lesões sérias ou prejuízo, se as instruções não forem seguidas adequadamente

Informação relacionada que instrúi como prevenir danos no equipamento ou como evitar condições que poderão resultar em lesões leves, se os passos não forem seguidos adequadamente.

As etiquetas do produto e do manual de operações podem usar os símbolos internacionalmente reconhecidos definidos abaixo para advertir mensagens de segurança.



símbolo do relâmpago com uma seta, dentro de um triângulo, tem o fim de alertar o usuáro a presença de "voltagem perigosa" sem isolação dentro de caixa isolamento do aparelho ou nos terminais de ligação que podem ter a magnitude suficiente que constitui um risco de choque eléctrico.



ponto de exclamação, dentro de um triânquio, tem o fim de alertar o usuario sobre instruções importantes de instalação, operação e manutenção (serviços) na literatura que acompanha o aparelho.

ADVERTÊNCIA: PARA REDUZIR O RISCO DE INCÊNDIO OU CHOQUE ELÉCTRICO, (WARNING) NÃO EXPONHA ESTE APARELHO A CHUVA OU HUMIDADE.

PRECAUÇÃO: (CAUTION)

A instalação deste aparelho deve ser feita por um profissional qualificado e deve obedecer a todos os códigos locais aplicáveis.



Modificação e informação sobre equipamento adicional citados neste manual são para o uso exclusivo do pessoal qualificado de instalação e manutenção.





PRECAUÇÃO: PARA REDUZIR O RISCO DE CHOQUE ELÉCTRICO, NÃO REMOVA A TAMPA. PARTES INTERNAS NÃO MANTIDAS PELO USUÁRIO

ENCAMINHE A MANUTENÇÃO PARA PESSOAL DE SERVIÇOS QUALIFICADO.