# CINEPRO 4K6<sup>4</sup> SE GOLD

HIGH RESOLUTION - EXTENDED DYNAMIC SIX CHANNEL THEATER AMPLIFIER

# OWNERS MANUAL

DESIGNED FOR BOTH CONSUMER AND COMMERCIAL USE

# **CONGRATULATIONS!**

THE CINEPRO 4K6 MK-4 SE-GOLD IS A POWER AMPLIFIER THAT COMBINES INCREDIBLE POWER RESERVES WITH OUTSTANDING CLARITY AND FINESSE. IT IS HAND-BUILT BY SKILLED AMERICAN CRAFTSMEN. IT IS THE PINNACLE OF DESIGN, ENGINEERING AND CONSTRUCTION IN THE SERVICE OF CINEMA AND MUSIC.

NEW FULLY BALANCED CIRCUITRY AND INSPIRED DESIGN AND LAYOUT TECHNOLOGIES NOW YIELD A DYNAMIC RANGE UNACHIEVED BY ANY OTHER AMPLIFIER CURRENTLY MANUFACTURED. THE LEVEL OF INTRICATE SONIC DETAIL THAT THIS INSTRUMENT RECOVERS IS NOTHING SHORT OF ASTOUNDING. ENJOY YOUR PURCHASE!

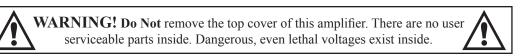
PLEASE TAKE A FEW MINUTES TO READ THIS MANUAL TO ACQUAINT YOURSELF WITH THE AMPLIFIER'S MANY UNIQUE FEATURES, AS WELL AS COMMON SENSE OPERATING INSTRUCTIONS.

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# **LOCATING YOUR AMPLIFIER**

Because of the *extremely* high-power capability of this amplifier, special consideration must be given to AC power and cooling airflow. Please read the following information carefully to ensure reliable, trouble-free operation of this instrument.

Your Cinepro 4K6 MK-4 SE-Gold utilizes a combination of convection and forced-air cooling. Under most circumstances, and with adequate ventilation in the rear of the amplifier, the dual external fan pack will activate when playing the amplifier at high volume levels for an extended period of time. The dual fan pack is a special unit, combining high efficiency with very quiet operation. A slight "rushing" sound may be noticed during use. The fans will automatically switch to low speed silent operation when the amplifier has cooled down sufficiently. This system maintains the amplifier circuitry at the optimum operating temperature.

The Cinepro 4K6 MK-4 SE-Gold may be mounted in a cabinet or on a shelf, provided that there are at least two inches of space behind the heat sinks, and three inches of clear space above the amplifier. If the amplifier is installed in an enclosed shelf with an enclosed back (not recommended for heavy-duty use), allow *six inches* of space above the amplifier if possible. The front panel is standard EIA 19" rack width. It is designed to be rack mounted by its faceplate if desired.

To power this instrument, plug the female IEC end of the power cord into the male panel-mounted IEC connector, and plug the standard male end of the power cord into a three-prong 120 volt grounded outlet, *directly into the wall*. Never plug into the "switched outlets" on any piece of equipment. Do not use power conditioners, or multiple outlet power strips, they will starve the amplifier of its tremendous power needs, unless of heavy-duty type such as Cinepro Inc.'s New Reference 240V 30A regulated power conditioner. If you live in active lightning areas, we recommend a heavy-duty surge protector. The unit is designed to operate satisfactorily from a standard 120 volt, 15 amp service; however, we recommend at least a 20 amp service whenever possible. If a 30 amp, 120 volt service is available, that will provide the most dynamic sound, and the best bass response. For permanent installations, and heavy-duty commercial use, we highly recommend 240 volt, 20 amp wiring. The unit is easily converted to 240 volt operation by any qualified electronic service facility. Please call the factory if you would like voltage conversion instructions, or have any other questions regarding AC power requirements.

#### FRONT PANEL

To achieve absolute clarity in sound reproduction, no front panel volume controls are used in this instrument.

Across the top of the front panel are six *green* and *red* LEDs. The green LEDs are the signal indicators. They will flash as each channel is reproducing a signal. This is handy in troubleshooting a complex home theater system, and to verify proper operation of the power amplifier. In the event any two front panel green LEDs fail to light when a signal is known to be present at the inputs, this could indicate internal thermal protection has been initiated for those channels. The sound will come on again after about 1 minute. Additional airflow must be supplied to the rear of the amplifier. Please consult the factory for recommendations.

The red LEDs are clipping indicators. At very high volume levels it is normal for these indicators to flash occasionally. This means that full power is being generated for a dynamic peak. If the red light comes on for more than about a half a second continuously, automatic clipping protection is engaged, protecting your speakers from hard clipping. The volume should be reduced to just below this point. Please note that if the red LEDs seem to come on at lower than maximum sound pressure levels, this may indicate that the AC power supplying the unit is being drained low. Stiffer AC wiring, or 240 volt connection may be required to fully enjoy the power capabilities of the 4K6 MK-4 SE-Gold.

No internal fuses are used in the Cinepro 4K6 MK-4 SE-Gold. The front panel power switch is actually a heavy-duty circuit breaker. Once activated, there is a built-in 3 second delay to allow all internal circuits to stabilize. The power LED indicates the amplifier has performed its internal self-check and is ready to go.

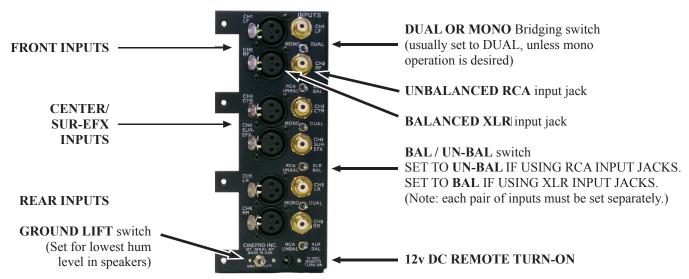
#### **BREAK-IN PERIOD**

Although the 4K6 MK-4 SE-Gold will sound incredible right out of the box, the sound will dramatically improve over the first 100 hours of use. The most noticeable improvement will occur after 25 hours. You should notice the sound gradually becoming smoother, more musical, and more dynamic during the break-in period.

For optimum sound quality, we suggest that you turn the amplifier on about 15 minutes prior to serious listening (most amplifiers perform best when they are fully warmed up). Some people actually prefer to leave the power amplifier on 24 hours a day; the unit is designed to allow for this. When no music is playing, the amplifier draws about 140 watts.

You may notice a slight thump in your speakers as the amplifier is turned off. This is normal, and due to the fact that we do not use speaker relays in our amplifiers. Speaker relays are prone to failure, and slightly degrade the sound. The power-down "thump" you may hear in no way endangers your loudspeakers.

# REAR PANEL CONNECTIONS - INPUT



#### **INPUTS**

Hook the signal cords from your processor to the respective inputs on the Cinepro 4K6 MK-4 SE-Gold. Note that all inputs are marked with the logical speaker positions - Front Left/Ch. 1, Front Right/Ch. 2, Center/Ch. 3, etc. These correspond to the front panel markings and the speaker output jacks. Use good quality connecting cords. For normal operation, ensure that each of the three mode switches is set to DUAL. For Mono operation, see below.

#### Balanced

Use XLR type male plug and insert into gold plated XLR jacks. Pin 1-GND, Pin 2-Hi, Pin 3-Lo. Set switch below jacks to BAL/XLR

#### **Unbalanced**

Use RCA type male plug and insert into gold plated RCA jack on back panel. Set switch below jacks to UN-BAL/RCA.

Most home processors utilize **unbalanced** RCA type cable for signal connection. Some high end processors use **balanced** type connections. Use the input appropriate to your processor.

### INPUT - CENTER CHANNEL/BRIDGED MONO MODE (FOR EXAMPLE)

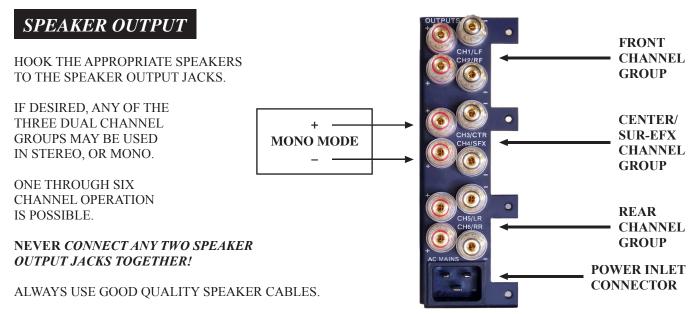
In the event that you are not using the rear surround/subwoofer channel, or have a powered subwoofer, the Cinepro 4K6 MK-4 SE-Gold can combine two channels of amplification (center and woofer channels) into one single channel of prodigious power output. **The bridged speaker must be a minimum of 4 ohms or greater.** 

- 1. Connect either the balanced or the unbalanced input cord (one only—remember this is mono) to the center/channel 3 input. Leave the SUR-EFX/chennel 4 input unconnected.
- 2. Hook the center channel speaker to the RED posts as indicated on the speaker output plate. The top RED post (center channel) is the (+) connection, and the bottom RED post (subwoofer) is the (-) connection.
- 3. Switch the mode switch on this two channel group to MONO. You now have a *very dynamic* center channel amplifier (over 1,200 watts available).

#### **GROUND LIFT SWITCH**

After hookup, if any hum is present in the speakers, flip the ground lift switch (located at the bottom of the input panel) to LIFT. One of the two positions should have lower hum than the other. Do this test with no signal, but with AC power applied to the amplifier. Experiment to find the quietest position.

In certain systems, especially those with more than one three-prong power corded component, low level hum may still be present. Under these conditions, it is advisable to use a three-to-two-prong adapter (available at local hardware stores) to isolate the system to just one grounded chassis. It is best to have the preamp/receiver operate with the three-prong grounded plug, or if the preamp just has a two-prong power plug, leave the Cinepro 4K6 MK-4 SE-Gold as your only "grounded" component. Be sure to check the other component's manuals to see if it is safe to operate the equipment in the ungrounded mode.



#### **OUTPUT - SPEAKER - MULTI-CHANNEL MODE**

Connect the speaker wires to the 5 way binding posts. The red post is positive, and the black is negative. Dual banana jacks (optional) are recommended to make secure and convenient connections.

Connect wires by stripping approximately 3/4 inches of insulation from the end and twist the strands clockwise into a tight pack. Loosen the plastic insulator counterclockwise to the end. Insert the bare copper wire into the hole in the metal shaft, then tighten the plastic insulator securely. Hand tightening should be sufficient.

Be certain no strands extend outside of each connector. Be sure to switch the input mode switch to DUAL (See page 4). **NEVER** CONNECT SPEAKER OUTPUT POSTS TO EACH OTHER!

#### **OUTPUT - SPEAKER - MONO/CENTER CHANNEL MODE (FOR EXAMPLE)**

The inputs and outputs on the back panel are organized into three-two channel groups. Any of these groups can be converted from two to one channel (bridged mono) operation.

CENTER CHANNEL GROUP - Connect the positive lead from your center channel speaker to the top RED post, and the negative lead from your speaker to the bottom RED post on the channel's you wish to bridge. Switch the DUAL/MONO input switch to MONO for this group. The front channel and/or rear channel group can also be connected in the same manner as the center channel group, as well as utilizing all three groups, producing up to 3 separate bridged channels.

DO NOT USE THE NEGATIVE (BLACK) POSTS AT ALL IN THIS MODE. **NEVER** CONNECT THE TWO RED OR BLACK POSTS TO EACH OTHER! **Minimum impedance of center channel (or any bridged speaker) is** *four ohms***. Use a good quality, heavy gauge speaker wire.** 

#### **REMOTE POWER OPERATION - 12V TRIGGER**

On the back panel, below the input terminals, is a 12 volt remote trigger jack. This is useful for having the Cinepro 4K6 MK-4 SE-Gold come on when the receiver or processor is turned on automatically. Some high end processors have a 12 volt remote trigger output designed just for this purpose. Simply connect a cord from the trigger out on the processor to the remote in on the Cinepro 4K6 MK-4 SE-Gold. The 12V trigger is not polarity sensitive and will operate with a 9-15V source.

For 12 volt remote power operation, LEAVE THE FRONT PANEL POWER SWITCH ON at all times. The unit will go on and off with the rest of your system, via the rear panel 12 volt jack. When the unit is on standby, the front panel LED and dual fan pack will turn off. The majority of the amplifier is shut down and in standby. Unplug this remote power when normal operation via front panel switch is desired.

# **OPERATING NOTES**

#### **OUTPUT POWER vs. SPEAKER SAFETY**

The Cinepro 4K6 MK-4 SE-Gold was designed to create peak sound pressure levels mimicking real life. This is important for the realistic reproduction of cinematic events. An on-screen gunshot or train wreck can create short-term power bursts of over 1000 watts! The Cinepro 4K6 MK-4 SE-Gold can faithfully reproduce these transients without strain.

Most high quality loudspeakers are designed to accept signals well in excess of their rated power for short duration events called "peaks". In fact, more loudspeakers are damaged from *under powering* than overpowering. This is due to the fact that when a smaller amplifier runs out of power, and clips, it produces non-musical signals called square waves. These square waves quickly heat up the voice coils on the speakers, and failure results. The Cinepro 4K6 MK-4 SE-Gold is unlikely to produce square waves during normal usage, due to its unique photo-optic anti-distortion circuitry.

Some reasonable care must be taken when playing at extremely loud continuous levels. Do not turn up the amplifier to uncomfortable sound levels for an extended period of time. This can damage your hearing, as well as put your speakers in jeopardy. Most speakers will "tell you" when they are being overdriven. The sound gets "raspy" and in extreme overdrive conditions, the speakers will actual make loud "clacking" noises. Obviously, turn down the volume until these conditions subside. Used responsibly, and with care, the power capabilities of the Cinepro 4K6 MK-4 SE-Gold will produce real life sound pressure levels, and your speakers will bring them into the room.

#### COOLING

Due to the extended "Class A" operation of this amplifier, the unit will run warm to the touch at the back heat sinks.

The Cinepro 4K6 MK-4 SE-Gold features our advanced "Whisper Cool" forced air cooling system. Under normal listening conditions, the rear dual fan pack will operate at a very low speed. If usage causes the amplifier to get even warmer, the unique rear dual fan pack will increase speed to further cool the massive output stage. The fans will reset back to silent operation when the instrument has cooled itself sufficiently. This cooling system ensures that your 4K6 MK-4 SE-Gold is always operating at optimal temperatures.

Do not block the left side inlet fan slots since air must be free to move around the amplifier. If used in a closed cabinet, internal heat may build up and cause the amplifier to shut down temporarily due to overheating. If this occurs, install a small muffintype fan at the top of the cabinet to exhaust the heated air.

It is normal for the fans to cycle during a robust movie viewing experience. The fan noise is low enough that it should not detract in any way from the soundtrack. In fact, with the fans operating at high speed, the noise level is about one-third as loud as the average computer fan. But this advanced cooling system will enhance the life of the amplifier, as well as maintain the best operating temperature for music and cinematic enjoyment.

#### **PROTECTION LIGHT**

On the front panel, directly below the power light is the protection light. The Cinepro 4K6 MK-4 SE-Gold utilizes a fail-safe protection system that will protect your speakers in the event of any internal failure, or a large DC spike occurring at the input jacks, or excessively high line voltage feeding the amplifier (over 132 volts in the 120 volt mode, or 264 volts in the 240 volt mode). If the protection lamp illuminates, and the wall voltage has been verified to be around 120 volts, this indicates an internal problem with the amplifier, or the signal feeding it. Power the 4K6 MK-4 SE-Gold down for 2-3 minutes. This allows the protection circuit to reset. If the lamp still illuminates on power-up, disconnect the *signal input leads* from the amplifier. Again, wait two minutes, and power-up. If the lamp remains lit, please contact the factory.

#### **CLEANING**

The front panel may be cleaned with any mild window/surface cleaner. Do not use solvents as these may harm the finish. About once a year, vacuum the air inlet slots on the left side of the amplifier. Use a soft brush and remove any standing dust that may have accumulated. Also, vacuum the rear heat sinks to remove any light dust coating that may be present. In dusty environments, more frequent cleaning may be necessary.

#### **FUSES**

There are no fuses in this amplifier. The front panel power switch doubles as a heavy-duty circuit breaker. All other protection circuits are electronic, and automatically reset when activated. **Do not remove the top cover of the Cinepro 4K6 MK-4 SE-Gold. There are no user serviceable parts inside.** 

# BI- AND TRI-AMPLIFYING WITH THE 4K6 MK-4 SE-GOLD

Most quality loudspeakers have two or more sets of input binding posts for connection to the amplifier. These separate the signals that are going to the woofer(s) from the signals going to the tweeter (and sometimes a third set of speaker wires isolates the signals going to the midrange). Normally, there are gold or tin plated metal shorting straps connecting the single speaker wire to both the low and high range drivers on each speaker.

As the speakers vibrate to reproduce sound coming from the amplifier, the drivers also act like small generators, creating a signal of their own, which is forced back down the speaker wire. This is called *back emf*. The woofer, due to its cones' larger moving mass, generates the bulk of back emf. This relatively messy signal mixes with the more delicate midrange and tweeter signals on the speaker wire and has the net effect of clouding the sound.

At minimum, you could run separate pairs of speaker wire to each input on the back of the speaker. This is called bi-wiring. Your dealer can configure special cables that have four separate connectors at the speaker end, and are joined into two banana jacks at the amplifier end. The sonic improvement in a bi-wired speaker over a single wired speaker can be noticeable. This isolates the back emf from affecting the signal in each speaker wire, but still combines the wires at the amplifier end and mixes the back emf with the pure signal coming out of the unit. However, some improvement in sonic clarity is gained due to the low output impedance of the Cinepro.

#### Clarity is markedly improved by BI-AMPLIFYING

When you bi-amplify your speakers, you gain complete isolation of the woofer signals (and its back emf signals) from the midrange-tweeter signals. Each speaker element (woofer, midrange/tweeter) is driven by its own amplifier channel. This has the additional advantage of relieving the power amp of the duties of reproducing very low bass notes and the delicate high frequencies at the same time. The amplifier is able to "split the task" to two separate channels, and a cleaner, more relaxed sound is the result.

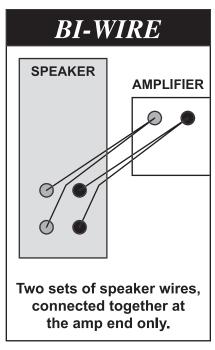
In addition, instead of just 475 watts of available power to each speaker, you now have 950 watts of pure power on tap. This, of course, allows more dynamic reproduction during very robust music and special effects passages.

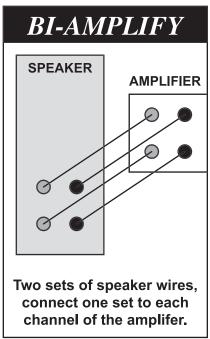
Hook up is quite simple. First - Remove the shorting bars from the back of the speaker. Then, hook up a separate speaker wire from channel 1 to the high frequency inputs on the speaker, and yet another separate speaker wire from channel 2 on the amplifier to the low frequency inputs on the speaker. Repeat this for each individual loudspeaker in the system that you wish to bi-amplify. Use an RCA "Y" adaptor to feed each two channel pair from one preamplifier source.

With the six channels available on the 4K6 MK-4 SE-Gold, you can fully biamplify three speakers in your system. For example: front left, center, and front right. With an additional 4K6 MK-4 SE-Gold, you can power 4 surrounds and 2 passive subwoofers, using 12 channels total.

#### TRI-AMPLIFYING

Tri-amplifying is the very best possible hookup. This is only available to you if your speakers have three sets of speaker input terminals. To tri-amplify, simply run an additional and separate speaker wire from a third amp channel to the tweeter inputs on the back of the speakers (if available). Please call us at the factory for more information.





# NOTE: REMOVE ANY SHORTING BARS FROM SPEAKERS.

Tri-amping is the same as above but with the *third* set of wires going from the third amp channel to the third speaker input.

## SPECIFICATIONS AND FEATURES 4K6 MK-4 SE-GOLD

**OUTPUT POWER** (ALL RATINGS 20-20KHZ @ < .10% DISTORTION, TYPICALLY .009%)

Multi-channel Mode - per channel:

1200 WATTS-2 OHMS 800 WATTS-4 OHMS 650 WATTS-6 OHMS 475 WATTS-8 OHMS

Mono Mode:

1400 WATTS-4 OHMS 1200 WATTS-8 OHMS

**DYNAMIC HEADROOM:** 3.5dB (4 OR 8 OHMS) (OVER 1000 WATT PEAKS)

SIGNAL/NOISE RATIO: (REF-RATED POWER)> -126dB UNWEIGHTED

**DAMPING FACTOR:** > 1,100 @ 20HZ, 1000 @ 1KHZ

**POWER SUPPLY ENERGY RATING: >1300 JOULES** 

**INTERMODULATION DISTORTION:** LESS THAN .03% (RATED OUTPUT)

TIM DISTORTION: LESS THAN .01% (RATED OUTPUT)

FREQUENCY RESPONSE: ±.1dB 20-20KHZ, +0, -3dB 3-175KHZ (10 WATTS)

CHANNEL BALANCE: WITHIN .1dB BETWEEN ANY TWO CHANNELS

**CHANNEL SEPARATION: >85dB** 

**RISE TIME:** >70 VOLTS/us

PEAK CURRENT: 135 AMPS/CHANNEL (.5 OHMS, 10μSEC, 1 PULSE)

INPUT SENSITIVITY: 1.5 VOLTS FOR FULL OUTPUT (SELECTABLE .775, 1.0, OR 1.5V DEFAULT)

INPUT IMPEDANCE: BALANCED - 15K OHMS, UNBALANCED - 30K OHMS

**OPERATING VOLTAGE:** 100, 120, 220, 240 (FACTORY SELECTABLE) 50/60 HZ AC.

POWER CONSUMPTION: TEST CONDITIONS - 6,000 WATTS, NOMINAL CONDITIONS - 2,850 WATTS

**DIMENSIONS:** 19.0" WIDTH x 8.75" HEIGHT x 15.5" DEPTH

WEIGHT: 86 LBS.

**RECOMMENDED AC SERVICE:** 20-30 AMP 100/120V, 20 AMP 220/240 VOLT

#### **FEATURES**

CONFIGURABLE FOR ONE THROUGH SIX CHANNEL OPERATION DISCREET CIRCUITRY, VERY LOW NEGATIVE FEEDBACK

MASSIVE 21,000 WATT OUTPUT STAGE

84 MOTOROLA 250 WATT HI-SPEED OUTPUT DEVICES

BUILT-IN LINE SURGE PROTECTION OVER CURRENT PROTECTION (Auto Reset) OVER TEMP. PROTECTION (Auto Reset)

PHOTO-OPTIC COMPARATOR ANTI-CLIPPING CIRCUIT

DC OUTPUT SPEAKER PROTECTION SIGNAL PRESENT INDICATOR LIGHTS OVERLOAD (CLIPPING) INDICATOR LIGHTS STEREO/MONO SWITCH (Rear Panel) GROUND LIFT SWITCH (Rear Panel) RCA GOLD PLATED UNBALANCED INPUTS XLR GOLD PLATED BALANCED INPUTS PREMIUM AUDIOPHILE COMPONENTS CUSTOM REL-CAP AND WIMA CAPACITORS

AUDIOPHILE GRADE CAPACITORS AND 1% METAL FILM RESISTORS

NEW IMPROVED ULTRA STAR POINT GROUNDING

MASSIVE PLITRON TOROIDAL TRANSFORMER EXTRA HIGH CURRENT POWER SUPPLY

1/2" MILLED AIRCRAFT ALUMINUM FRONT PANEL

NEWREGULATED AND BALANCED INPUT AMPLIFIER SECTIONS

NEWIDUAL ANODIZED SILVER FACE PLATES

NEWIBLACKED OUT REAR PANELS

NEWIBLUE "POWER ON" LED

NEW1250V, 20A PANEL MOUNT IEC CONNECTOR NEW124K GOLD CLEAR INSULATED BINDING POSTS NEW12V TRIGGER, NON-POLARITY SENSITIVE NEWIDUAL TWO-SPEED WHISPER COOLING HEAVY-DUTY TRIPLE MONO POWER SUPPLY

10 GUAGE DETACHABLE AUDIOPHIOLE POWER CORD COMMERCIAL BUILD QUALITY / 24 HOUR DUTY CYCLE INDUSTRIAL QUALITY 14 GA. HEAVY STEEL CABINET

HAND-BUILT IN THE USA

5 YEAR PARTS/LABOR WARRANTY

#### 5 YEAR LIMITED WARRANTY - 4K6 MK-4 SE-GOLD

CINEPRO warrants this amplifier to the original purchaser for a period of 5 years. Any failure due to parts or manufacturing defect will be repaired without charge during the warranty period.

This warranty applies in all home and commercial applications. Warranty is void if unit is operated outdoors without adequate moisture protection.

Misuse of the amplifier by improper wiring, improper line voltage, or physical abuse will not be covered. Lightning damage and acts of God are excluded from this warranty coverage. You should use a good quality surge protector.

Cinepro's responsibility is limited to repairing or replacing product (at our option) during the warranty period. Incidental damages are not covered.

To obtain warranty coverage:

CALL 631-580-0759 FOR A RETURN AUTHORIZATION NUMBER. The customer service representative will issue a number and give you shipping instructions. You must return the unit with a copy of your original purchase receipt, purchased from an authorized dealer, to receive warranty coverage.

The unit will be repaired rapidly and returned to you freight prepaid.

THANK YOU FOR CHOOSING CINEPRO PRODUCTS.

CINEPRO INC.

DBA MICON AUDIO

Mount Sinai, NY 11766 USA

Tel: 631-580-0759 Fax: 631-580-5064 www.cinepro.net support@cinepro.net