

INTEGRATED 225 OPERATING MANUAL

A  T H E M[®]



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SONIC FRONTIERS
INTERNATIONAL

BREAKING THE SOUND BARRIER™

SAFETY PRECAUTIONS

READ THIS SECTION CAREFULLY BEFORE PROCEEDING!

	WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN	
WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with arrowpoint within an equilateral triangle warns of the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle warns users of the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS PRODUCT.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE THE FUSE ONLY WITH THE SAME AMPERAGE AND VOLTAGE TYPE. REFER REPLACEMENT TO QUALIFIED SERVICE PERSONNEL.

WARNING: UNIT MAY BECOME HOT. ALWAYS PROVIDE ADEQUATE VENTILATION TO ALLOW FOR COOLING. DO NOT PLACE NEAR A HEAT SOURCE, OR IN SPACES THAT CAN RESTRICT VENTILATION.

IMPORTANT SAFETY INSTRUCTIONS

1. **Read Instructions** – All the safety and operating instructions should be read before the product is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the product and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Cleaning** – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp, soft cloth for cleaning.
6. **Water and Moisture** – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
7. **Accessories** – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow manufacturer’s instructions, and should use a mounting accessory recommended by the manufacturer.

- 16. Object and Liquid Entry** – Never push objects of any kind through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Do not expose this product to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the product.
- 17. Servicing** – Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 18. Damage Requiring Service** – Unplug this product from the wall outlet and refer servicing to qualified personnel under the following conditions:
- When power-supply cord or plug is damaged.
 - If liquid has been spilled, or objects have fallen into the product.
 - If the product has been exposed to rain or water.
 - If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will require extensive work by a qualified technician to restore the product to its normal operation.
 - If the product has been dropped or damaged in any way.
 - If the product exhibits a distinct change in performance – this indicates a need for service.
- 19. Replacement Parts** – When replacement parts are required, be sure the technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20. Safety Check** – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- 21. Heat** – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



RECYCLING AND REUSE GUIDELINES (Europe)

In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) directive effective August 13, 2005, we would like to notify you that this product may contain regulated materials which, upon disposal, require special reuse and recycling processing. For this reason Paradigm Electronics Inc. (the manufacturer of Paradigm speakers and Anthem electronic products) has arranged with its distributors in European Union member nations to collect and recycle this product at no cost to you. To find your local distributor please contact the dealer from whom you purchased this product or go to our website at www.paradigm.com.

Please note that only the product falls under the WEEE directive. When disposing of packaging and other shipping material we encourage you to recycle through the normal channels.

1. INTRODUCTION

Thank you for purchasing the Anthem Integrated 225.

The I225 is an integrated preamplifier and amplifier. Anthem products are engineered to recreate the passion of live performance and thrill of the best movie theaters by using the highest level of circuit design, superior build quality, innovative features, and intuitive ergonomics.

1.1 BEFORE MAKING CONNECTIONS

Check that you have received everything listed below and report discrepancies to your dealer as soon as possible. Retain all packing materials and use them for any future shipment.

Packing List:

- Integrated 225
- Remote control
- 2 AA Batteries
- Operating manual
- Power cord (North America only)

Keep the invoice that you received from your authorized Anthem dealer at time of purchase – without it, service will not be provided under warranty.

Safety Instructions:



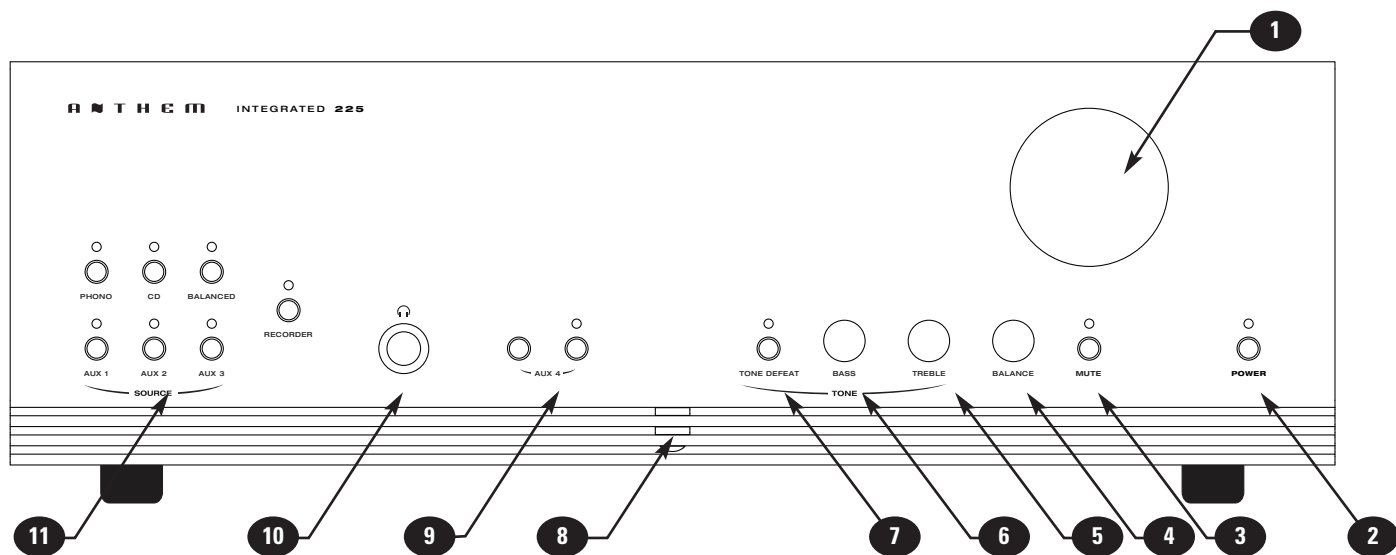
- Read all precautions and instructions at the beginning of this manual.
- Do not connect power if there are signs of damage to any part of the exterior.
- The Front Panel power button does not disconnect the product from the AC line. Ensure that the power cord remains readily accessible at all times.
- Use only the supplied power cord to connect power.
- Allow adequate ventilation to ensure reliable operation and to prevent overheating. The amount of space required above the unit for radiation depends on ambient air temperature and circulation. Installation inside an unventilated space such as a cabinet with a front that can be closed or a closet is not recommended.
- Failing to comply with any safety instruction, precaution, or warning in this Operating Manual is in violation of the intended use of the product.
- Anthem and any related party assume no liability for the user's failure to comply with requirements.

1.2 IN-USE NOTICES

- Disconnect the power cord before connecting or disconnecting any components.
- Do not remove the top cover.
- Do not modify the product.

1. INTRODUCTION continued ...

1.3 FRONT PANEL

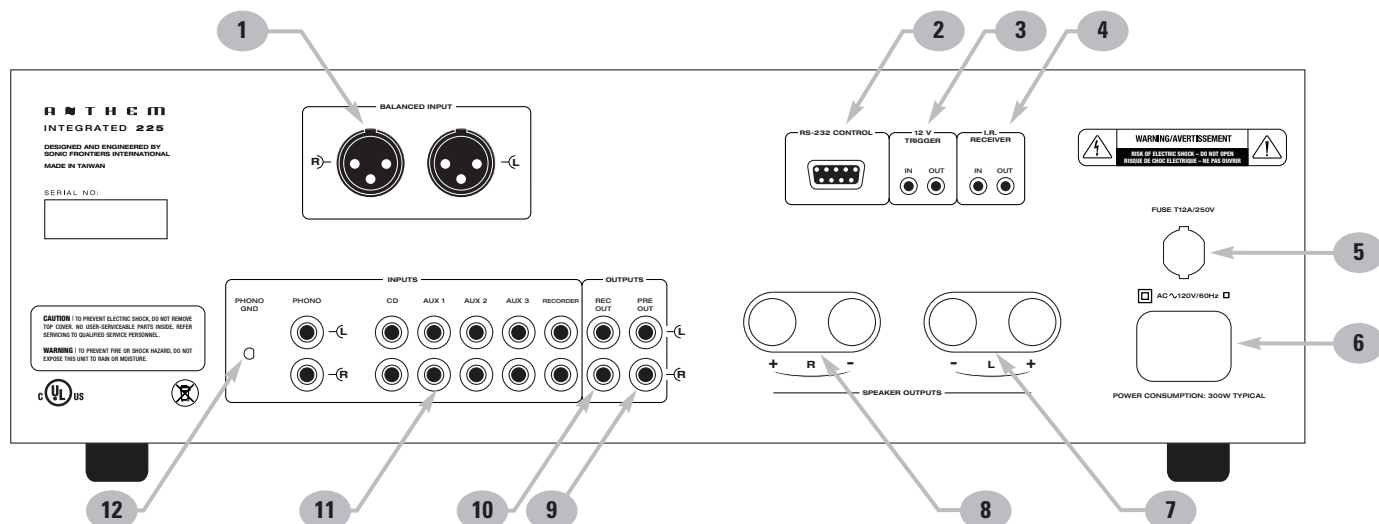


- 1 – Volume Control
- 2 – Power On / Standby
- 3 – Mute
- 4 – Balance
- 5 – Treble
- 6 – Bass
- 7 – Tone Defeat
- 8 – Remote Control Sensor
- 9 – Stereo Mini Input Jack and Selector – for use with a portable audio device
- 10 – Headphone Jack
- 11 – Source Selection

For a larger diagram, see inside back cover.

1. INTRODUCTION continued ...

1.4 REAR PANEL



- 1 – XLR (balanced) input – connect if using source with balanced output
- 2 – RS-232 interface – for use with custom control systems
- 3 – 12 Volt trigger in / out
- 4 – I.R. receiver in / out
- 5 – Fuse
- 6 – Power cord connection
- 7 – Left speaker output
- 8 – Right speaker output
- 9 – Preamplifier (volume-controlled) output – connect if using external amplifier
- 10 – Record (line level) output
- 11 – 5 RCA inputs
- 12 – Phono input with ground connection

For a larger diagram, see inside back cover.

1. INTRODUCTION continued ...

1.5 REMOTE CONTROL

- 1 – Power OFF
- 2 – IR Transmitter (front face)
- 3 – LED
- 4 – Power ON
- 5 – Set (for customization of remote)
- 6 – Control mode (to control other components)
- 7 – Volume
- 8 – Tone Enable / Bypass
- 9 – Mute
- 10 – Source

The remaining keys are for custom setup to control other equipment.

When a key is pressed, the keys light with amber color.

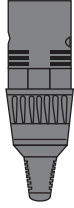
Rear: Battery cover – low battery power is indicated by LED double blink and no backlight



1. INTRODUCTION continued ...

1.6 INTERCONNECTS

These illustrations show audio, IR, and trigger connectors used between source components and the I225.

1/4" Stereo	3.5mm Mini (Mono)	3.5mm Mini (stereo)	RCA Black or White	RCA Red	XLR Female (connects to output)	XLR Male (connects to input)
						
Headphone	12V Trigger IR Emitter	Digital Audio	Analog Left Channel	Analog Right Channel	Analog Balanced or AES/EBU	

2. CONNECTIONS

2.1 INPUT CONNECTIONS

Connect source components and recorder according to the diagrams in the following pages. If using a turntable, connect it to PHONO input only. If the turntable is equipped with a ground wire, connect it to the ground terminal next to the PHONO input by unscrewing the terminal then inserting wire and tightening the screw terminal onto the wire.

Do not use 'RCA-compatible' connectors that have a hollow center pin with a hole at the tip – inserting them into the Integrated 225's RCA jacks can cause internal damage.

2.2 SPEAKER CONNECTIONS



Depending on the level of the input signal and volume setting, the voltage at the outputs can be high enough to cause electric shock – be sure that power is turned off when connecting or disconnecting anything. Ensure that the speakers are rated for use with this amplifier – an overdriven speaker can pose a fire hazard.

Connect the red (+) connection on the speaker to the red (+) binding post on the appropriate amplifier channel, and the black (–) connection on the speaker to the black (–) binding post on the same amplifier channel, using cable that is insulated to handle the maximum output of the amplifier. Do not overtighten the binding posts as this may cause damage. Each binding post accepts a connection from one speaker.

2.3 TRIGGER

This feature allows the amplifier to be turned on or off remotely via the trigger. The 3.5mm (.125") mini-jack INPUT receives a 12V signal from an upstream component or system controller. The same trigger signal can be linked to other components through the OUTPUT.

2.4 I.R. (INFRA RED) RECEIVER

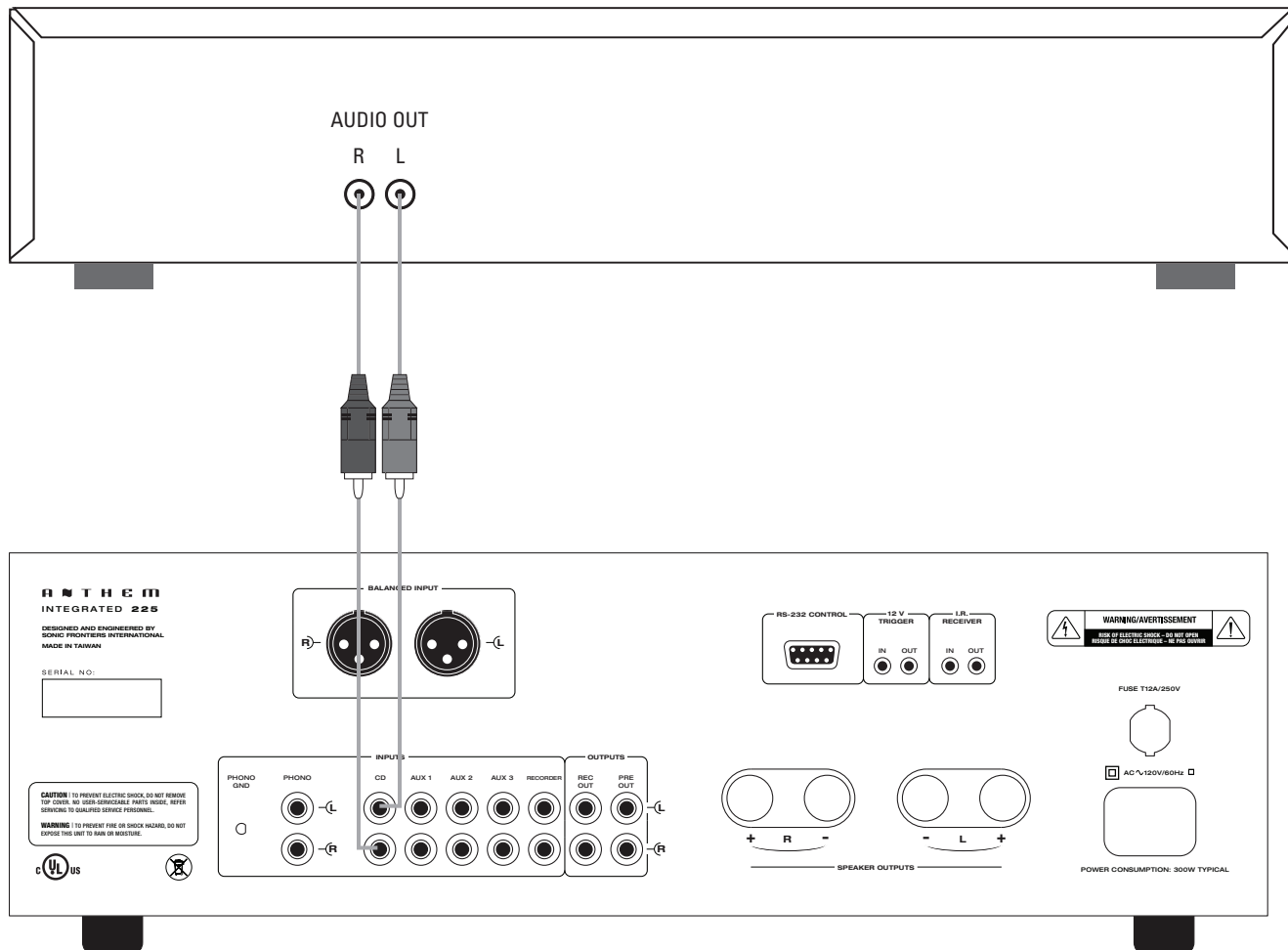
External IR receivers allow the Remote Control to be used from other locations in your home. Once an IR receiver is wired to another room, connect it to I.R. RECEIVER IN. The signal can be linked to other components through I.R. RECEIVER OUT.

2.5 POWER

After the system is connected use the supplied power cord to connect power. It is normal for a 'click' to be heard from inside the chassis when connecting power.

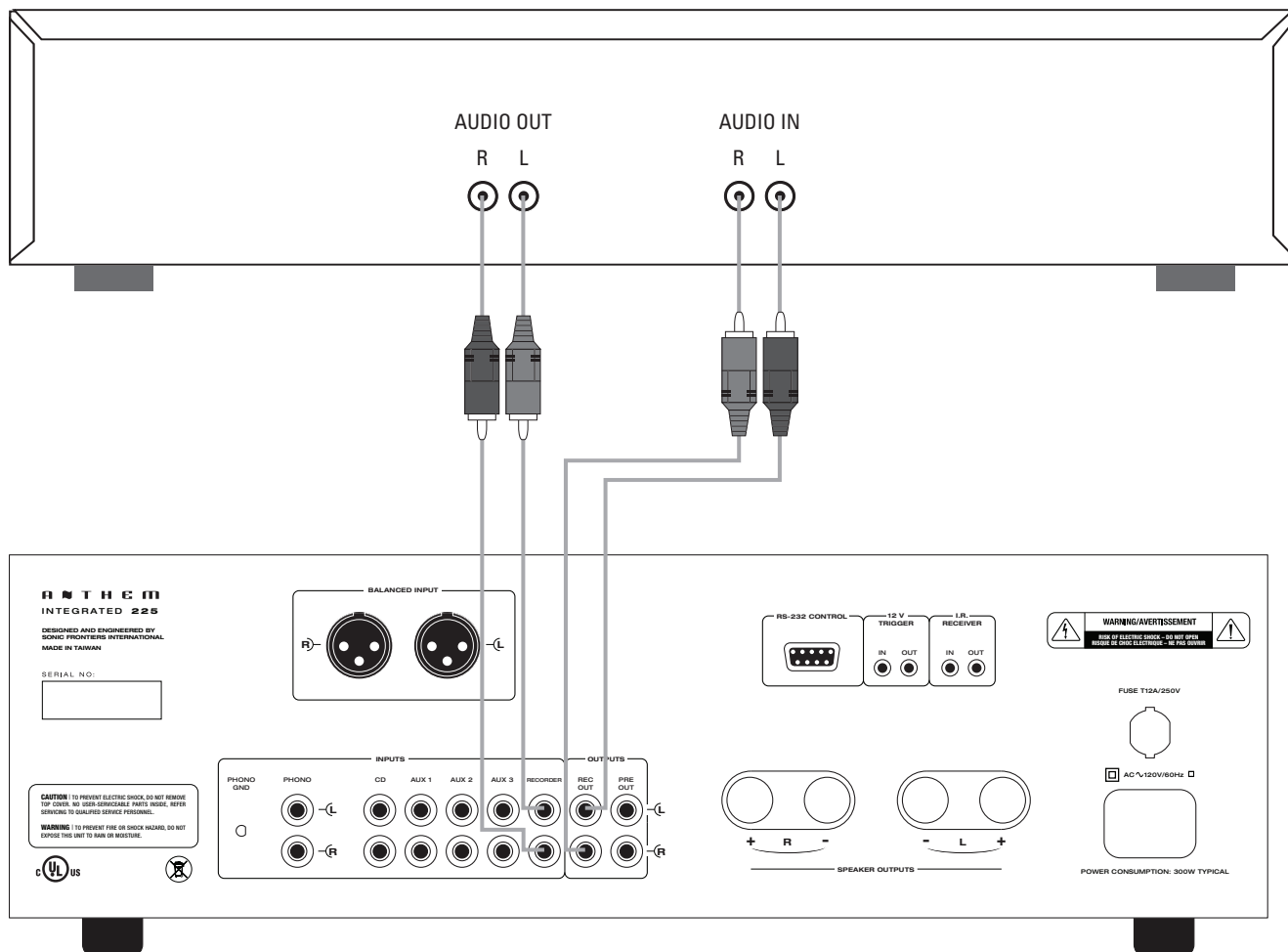
2. CONNECTIONS continued ...

Example 1: CD Player to Integrated 225



2. CONNECTIONS continued ...

Example 2: Recorder to Integrated 225



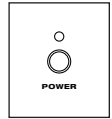
3. OPERATION

3.1 POWER ON/OFF

Power on is indicated when the LED above the front panel power button is lit.

Front panel – power ON/OFF

- Press **POWER** in the lower left of the front panel.



Remote control – power ON

- Make sure that **INT** control mode is set then press the power key in the upper left.



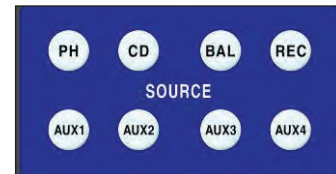
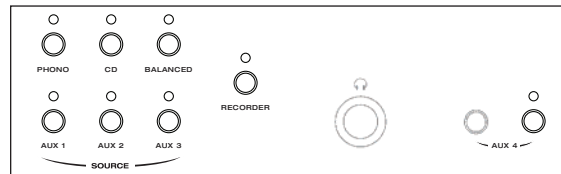
Remote control – power OFF

- Make sure that **INT** control mode is set then press the power OFF key in the upper right.



3.2 SOURCE SELECTION

Select a source by pressing one of the following buttons – make sure that **INT** control mode is set if using remote control:



When RECORDER is selected, the REC output is disabled since a recorder cannot record itself.

3.3 VOLUME CONTROL

Front panel:

- Rotate the volume knob clockwise to increase the volume and counterclockwise to decrease the volume.

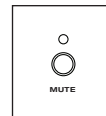


Remote control:

- Make sure that **INT** control mode is set then use the **VOL+** and **VOL-** keys.

Mute:

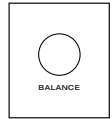
When MUTE is pressed, the audio is silenced and the front panel indicator above the button flashes. Press MUTE again and sound will return.



3. OPERATION continued ...

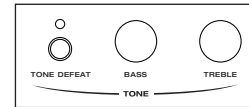
3.4 BALANCE CONTROL

If the center of the soundstage is off-center, rotate the balance control in the direction that the soundstage needs to be moved. The center position is the default.



3.5 TONE CONTROL

To adjust the bass and/or treble level, rotate the Bass and Treble knobs on the front panel. The center position is the default. If an adjustment is made, you can press TONE on the front panel or remote to quickly turn the adjustment on/off without having to return the knobs to the center position – the indicator above the button lights when the controls are defeated.



It is normal for a 'click' to be heard from the chassis when pressing Power, Mute, or a source button.

4. REMOTE CONTROL CUSTOMIZATION

4.1 CODES FOR OTHER BRANDS

The Integrated 225 remote can control other components – a list of brands and setup instructions are at the end of this section. If the brand for your component is not listed, try searching for a code as follows:

1. Turn on the component, for example the DVD player.
2. Press a **control mode** key other than INT, for example **DVD**.
3. Press and hold **SET** until the LED flashes twice then press **9, 9, 1**.
4. Press **0** for cable converters, satellite receivers, or video accessories, **1** for TVs, **2** for DVD players or VCRs, or **3** for CD players or audio amps/tuners.
5. Aim the remote towards the player and press **POWER** (or Play). If the player does not respond, press **CH+** to try the next code. If the player responds, press **SET** to lock the code. Codes are sent in order of popularity. CH– goes to the previous code. **If no code is found, see section 4.2.**
6. After finding a code, record it: Press and hold **SET** until the LED flashes twice, then press **9, 9, 0, 1**. Wait 3 seconds and count the number times that the LED flashes. This represents the first digit (for example, 3 flashes = 3, no flash = 0) – write this down. Next, press **2** for the second digit, **3** for the third digit, **4** for the fourth digit, **5** for the fifth digit and write the number of flashes each time.

4.2 LEARNING COMMANDS

Commands from almost any other infra-red remote control can be captured by the Integrated 225 remote control. The factory command is still available by pressing SET before pressing the taught key.

If the factory command is used more than the learned command, the learned command can be programmed in Layer2 instead. In this case, the learned command is sent by pressing SET before pressing the key.

Before teaching a key note the following:

- Control mode keys and SET can not be taught. These keys never send IR commands.
- A multiple key sequence (for example Rec+Pause or Rec+Play) can not be taught to one key.
- A high level of ambient light, light from displays, and exposed fans could interfere with learning.

To teach a key:

1. Point the source and Integrated 225 remotes at each other, holding them approximately 2 inches apart.
2. Press and hold **SET** until the LED flashes twice then press **9, 7, 5**. One long blink indicates low battery or faulty memory – the remote will not go into learn mode under either of these conditions.
3. Press the desired **control mode** key.
4. Press the **key to be taught**, or to program the command into Layer2 press **SET** (don't hold) and then press the **key to be taught**.
5. The LED flashes rapidly. Within 4 seconds, press and hold the **teaching key on the source remote** until the LED flashes twice. One long blink means bad capture (try again), memory full (delete another command), or unlearnable code.
6. Repeat steps 3-5 or 4-5 as often as desired until memory is full.
7. To exit, press and hold **SET** until the LED flashes twice or wait 10 seconds.

Deleting learned commands:

1. Press and hold **SET** until the LED flashes twice, then press **9, 7, 6**.
2. To delete a learned command from one key, press the **control mode** key, then the **key to be deleted** twice. To delete all learned commands in the control mode, press the **control mode** key twice.

4. REMOTE CONTROL CUSTOMIZATION continued ...

4.3 COPYING COMMANDS

The command from one key can be copied to another key (not applicable to Power, Record, and Set keys).

To copy a command to another key in the same control mode:

1. Press the **control mode** key.
2. Press and hold **SET** until the LED flashes twice.
3. Press **9, 9, 4**.
4. Press the **key to be copied**.
5. Press the **new key** that will have the command. The LED flashes twice.

To copy a command into a different control mode:

1. Press and hold **SET** until the LED flashes twice.
2. Press **9, 9, 4**.
3. Press the **control mode** key of the key to be copied then the **key to be copied**.
4. Press the **new control mode** key then the **new key** that will have the command. The LED flashes twice.

To set the original functions:

1. Press the **control mode** key.
2. Press and hold **SET** until the LED flashes twice.
3. Press **9, 9, 4**.
4. Press the **control mode** key twice.

4.4 VOLUME LOCK

With Volume Lock engaged, the volume and mute keys control the Integrated 225 regardless of control mode, making operation more convenient.

To engage Volume Lock for MAIN:

1. Press and hold **SET** until the LED flashes twice.
2. Press **9, 9, 3**.
3. Press **MAIN**.

To dis-engage Volume Lock for TV and re-engage the TV's volume control:

1. Press **ZONE2** (or ZONE3).
2. Press and hold **SET** until the LED flashes twice.
3. Press **9, 9, 3**.
4. Press **VOL-**.

The Volume and Mute keys now control the Integrated 225 for every control mode selection except TV. You may continue to disengage other control modes one at a time. To disengage all, press **VOL+** in step 4.

4. REMOTE CONTROL CUSTOMIZATION continued ...

4.5 PROGRAMMING MACROS

Macros are used to execute multiple functions with one key press, such as powering the Integrated 225, cable box, and display On at the same time. Up to 32 commands can be programmed.

Programming a Macro that works regardless of control mode setting:

1. Press and hold **SET** until the LED flashes twice.
2. Press **9, 9, 5**.
3. Press the key you want to use to activate your macro (e.g. Power).
4. Enter the command sequence that you want the macro to execute.
5. To exit, press and hold **SET** until the LED flashes twice or wait 10 seconds.

To clear the macro, repeat the steps above but skip step 4.

Programming a Macro that works in one control mode:

1. Press the control mode key.
2. Press and hold **SET** until the LED flashes twice.
3. Press **9, 7, 8**.
4. Press the key you want to use to activate your macro (e.g. Power).
5. Enter the command sequence that you want the macro to execute.
6. To exit, press and hold **SET** until the LED flashes twice or wait 10 seconds.

To clear the macro:

1. Press and hold **SET** until the LED flashes twice, then release.
2. Press **9, 7, 8**.
3. Press the control mode key where you programmed the macro.
4. Press the key that was programmed to activate the macro.
5. To exit, press and hold **SET** until the LED flashes twice or wait 10 seconds.

4. REMOTE CONTROL CUSTOMIZATION continued...

The following codes are for setting operation of other components with the Integrated 225 remote control. If codes for your components are not in this library, see sections 4.1 and 4.2.

To enter a 5-digit code:

1. Press the control mode key near the top of the remote (e.g. **CD**).
2. Press and hold **SET** until the LED flashes twice.
3. Enter the **5-digit code**. Two LED blinks indicate that the code is accepted.

CD Players:

Acoustic Research	30420
Admiral	30305
Aiwa	30157
Arcam	30157
Audio Research	30157
Burmester	30420
Cairn	30157
California Audio Labs	30029, 30303
Cambridge Soundwks	30157
Carver	30157, 30179
Curtis Mathes	30032
Denon	30626, 30003, 30034
DKK	30000
DMX Electronics	30157
Emerson	30305
Fisher	30000, 30179
Funai	30305
Garrard	30393, 30420
Genexxa	30032, 30305
Grundig	30157
Hafler	30173
Harman/Kardon	30100, 30157, 30173
Hitachi	30032
Inkel	30157, 30180
Integra	30101
Jerrold	30003
JVC	30032, 30072
Kenwood	30626, 30000, 30029, 30028, 30037, 30190
KLH	31318, 31372, 31373, 31711
Krell	30157
Linn	30157
LXI	30179, 30305
Magnavox	30157, 30038, 30274, 30305
Marantz	30626, 30029, 30157, 30038, 30180, 30435
Matsui	30157
McIntosh	30256, 30290, 30660
MCS	30029
Memorex	30000, 30032, 30179, 30420, 30468
Micromega	30157
Miro	30000
Mission	30157
Modulaire	30000, 30032, 30087, 30179, 30180, 30420, 30468
MTC	30420
NSM	30157
Onkyo	31327, 30101
Optimus	30000, 30032, 30037, 30087, 30179, 30305, 30393, 30420, 30468
Panasonic	30029, 30303, 30388, 30752
Parasound	30420
Penney	30029
Philips	30626, 30157, 30274
Pioneer	31062, 30032, 31087, 30305, 30468
Polk Audio	30157
Proceed	30420
Proton	30157
QED	30157
Quad	30157
Quasar	30029
RadioShack	30000, 30032, 30179, 30180, 30420, 30468
RCA	31062, 30032, 30053, 30179, 30305, 30420, 30468
Realistic	30000, 30032, 30087, 30179, 30180, 30305, 30420, 30468
Revox	30157

Roksan	30435
Rotel	30157, 30420
SAE	30157
Sansui	30000, 30157, 30305
Sanyo	30000, 30087, 30179
Scott	30305
Sears	30179, 30305
Sharp	30037, 30034, 30180
Sherwood	30180
Sonic Frontiers	30157
Sony	30490, 30000, 30100, 31364, 30185
Sugden	30157
Sylvania	30157
Symphonic	30180, 30305
TAG McLaren	30157
Tandy	30032
Tascam	30393, 30420
Teac	30490, 30180, 30378, 30393, 30420
Technics	30029, 30303
Techwood	30303
Thule Audio	30157
Victor	30072
Wards	30032, 30157, 30053, 30087, 30179
Yamaha	30490, 30036, 31292
Yorx	30000

DVD Players:

3D LAB	20503, 20539
Accurian	21072, 21416
Acoustic Solutions	20730
Advent	21016
Afreedy	20698
Aiwa	20641
Akai	20695, 20705, 20770, 20899, 21089
Alba	20672, 20717
Alco	20790
Allegro	20869
Amphion Media Wks	20872
AMW	20872
Apex Digital	20533, 20672, 20717, 20755, 20794, 20796, 20797, 20830, 21004, 21020, 21056, 21061, 21100
Arrgo	21023
Aspire Digital	21168, 21407
Audiovox	20717, 20790, 21041, 21071, 21072, 21121, 21122
Awa	20730
Axion	21071, 21072
Blaupunkt	20717
Blue Parade	20571
Blue Sky	20695
Bose	21895
Brandt	20651
Broksonic	20695, 20868
Byd:sign	20872
California Audio Labs	20490
Celestial	21020
Centrex	20672, 21004
Cinea	20831
CineVision	20876, 20833, 20869
Citizen	21003, 21277
Clairtone	20571
Coby	20778, 21086, 21107, 21177
Craig	20831
Creative	20503, 20539
Curtis Mathes	21087
CyberHome	20816, 20874, 21023, 21024, 21117, 21129, 21502

Cytron	20705
Daewoo	20784, 20705, 20770, 20833, 20869, 21169, 21172, 21234, 21242
Dansai	20770
Daytek	20872
Decca	20770
Denon	20490, 20634
Denver	20778
Desay	21407
Digitrex	20672
Disney	20675, 21270
DiViDo	20705
Dual	20675, 21068, 21085
Durabrand	21127
DVD2000	20521
Electrohome	21003
Emerson	20591, 20675, 20821, 21268
Enterprise	20591
Entivo	20503, 20539
Enzer	20770
ESA	20821, 21268
Firstline	20651
Fisher	20670
Funai	20675, 21268, 21334
Gateway	21073, 21158
GE	20522, 20815, 20717
Go Video	20573, 20744, 20717, 20715, 20741, 20783, 20833, 20869, 21044, 21075, 21099, 21158, 21304, 21730
Go Vision	21071, 21072
GoldStar	20741, 20801, 20869
Goodmans	20790
Gradiente	20490, 20651
Greenhill	20717
Grundig	20539, 20705
Harman/Kardon	20582, 20702
Hitachi	20573, 20664, 21247, 21764
Hiteker	20672
Humax	21588
iLo	21348
Initial	20717
Insignia	21268
Integra	20571, 20627
IRT	20783
JBL	20702
Jensen	21016
JMB	20695
JVC	20558, 20623, 20867, 21164
Kawasaki	20790
Kenwood	20490, 20534
KLH	20717, 20790, 21020, 21149
Kloss	20533
Koss	20651, 21061
Lasonic	20627, 20798
Lecson	21533
Lenox	21127
LG	20591, 20741, 20801, 20869
LiteOn	21058, 21158, 21416, 21440
Loewe	20511, 20741
Logix	20783
Magnasonic	20651, 20675
Magnavox	20503, 20539, 20646, 20675, 20821, 21268
Malata	20782, 21159
Marantz	20503, 20539, 20675
McIntosh	21533
Medion	20651
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 Noblex 20240
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 Tandy 20000, 20104
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 Teac 20000, 20067, 20041
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 Telecorder 20240
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 Tevion 20479
 Thomas 20000, 20002
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Satellite Receivers:

Aiwa 01514
 AlphaStar 00772
 Bell ExpressVu 00775
 Chaparral 00216
 Coolsat 01806
 Crossdigital 01109

DirecTV 01377, 00392, 00566, 00639, 01639, 01142, 00247, 00749, 01749, 00724, 00819, 01856, 01076, 01108, 00099, 01109, 01392, 01414, 01442, 01443, 01444, 01609, 01640
 Dish Network System 01505, 01005, 00775, 01170, 01775
 Dishpro 01505, 01005, 00775, 01775
 DX Antenna 01530
 Echostar 01505, 01005, 00775, 01170, 01775
 Expressvu 00775, 01775
 Fortec Star 01821
 Funai 01377
 GE 00392, 00566
 General Instrument 00869
 GOI 00775, 01775
 Hisense 01535
 Hitachi 00749, 00819, 01518
 Houston 00775
 HTS 00775, 01775
 Hughes 01142, 00749, 01749, 01442, 01443, 01444
 Humax 01790
 iLo 01535
 Innova 00099
 Jerrold 00869
 JVC 00775, 01170, 01507, 01775
 LG 01226, 01414
 Magnavox 00724, 00722
 Maspro 01530
 McIntosh 00869
 Memorex 00724
 Mitsubishi 00749
 Motorola 00869
 NEC 01519
 Netsat 00099
 Next Level 00869
 Optimus 00724
 Panasonic 00247, 00701, 01508
 Pansat 01807
 Paysat 00724
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 Proton 01535
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 RCA 00392, 00566, 01142, 00775, 00855, 00143, 01392, 01442
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 Sharp 01489
 SKY 00099
 Sony 00639, 01639, 01524, 01640
 Star Choice 00869
 Star Trak 00772, 00869
 Thomson 00392, 00566
 Tivo 01142, 01442, 01443, 01444
 Toshiba 00749, 01749, 00790, 00819, 01285, 01501, 01530
 UltimateTV 01392, 01640
 Ultrasat 01806
 Uniden 00724, 00722
 US Digital 01535
 USDTV 01535
 Voom 00869
 Zenith 01856

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Microsoft	21972
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Northgate	21972
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RCA	20880
ReplayTV	20614, 20616
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Sonic Blue	20614, 20616
Sony	20636, 21972
Stack 9	21972
Systemax	21972
Tagar Systems	21972
Tivo	20618, 20636, 20739
Toshiba	21008, 21972, 21996
Touch	21972
Viewsonic	21972
Voodoo	21972
ZT Group	21972

Satellite-controlled DVR / PVR:

DirecTV	01377, 00392, 00639, 01142, 01076, 00099, 01392, 01442, 01443, 01444, 01640
Dish Network System	01505, 00775
Dishpro	01505, 00775
Echostar	01505, 00775, 01170
Expressvu	00775
Hughes	01142, 01442, 01443, 01444
JVC	01170
Motorola	00869
Philips	01142, 01442
Proscan	00392
RCA	01392
Samsung	01442
Sharp	01489
Sony	00639, 01640
Star Choice	00869

VCR-controlled DVR / PVR:

Hughes	20739
Philips	20739
Samsung	20739

Cable Converters:

A-Mark	00008, 00144
ABC	00237, 00003, 00008, 00014, 00017
Accuphase	00003, 00014, 00017
Acorn	00237
Action	00237
Active	00237
Americast	00899
Amino	01822
Archer	00237
BCC	00276
Bell & Howell	00014
Bell South	00899
British Telecom	00003
Century	00008
Citation	00017
Clearmaster	00883
ClearMax	00883
Cool Box	00883
Coolmax	00883
Digeo	01187
Digi	00637
Director	00476
Dumont	00637
DX Antenna	01500
Emerson	00014
Fosgate	00276
Fujitsu	01497
GE	00144
General Instrument	00476, 00810, 00276, 00003, 00012, 00014
Gibraltar	00003
GMI	00883

GoldStar	00144
Hamlin	00009, 00273
Hitachi	00003, 00008, 00009
Insight	00476, 00810
Jebsee	00014
Jerrold	00476, 00810, 00276, 00003, 00012, 00014
Maspro	01510
Memorex	00000
Mitsubishi	00003
Motorola	01376, 00476, 00810, 00276, 01187, 01254, 00014, 01106
Multitech	00883
Myrio	01822
NEC	01496
Nova Vision	00008
Novaplex	00008, 00017
NSC	00012, 00637
Oak	00017
Pace	01877, 00877, 00237, 00008
Panasonic	00000, 00008, 00144, 00107, 01488
Panther	00637
Paragon	00000, 00008, 00525
Penney	00000, 00637
Philips	01305, 00317
Pioneer	01877, 00877, 00144, 00533, 01500
Prism	00012
Pulsar	00000
Quasar	00000
Radio Shack	00883
RCA	01256
Regal	00276, 00279, 00273
Runco	00000
Samsung	00003, 00144
Scientific Atlanta	01877, 00877, 00477, 00237, 00003, 00000, 00008, 00012, 00017, 01510
Sony	01006, 01460
Sprucer	00144
Starcom	00003, 00014
Stargate	00014
Storm	00637
Sumitomo	01500
Supercable	00276
Supermax	00883
Thomson	01256
Tocom	00012
Torx	00003
Toshiba	00000, 01509
Tristar	00883
United Cable	00276, 00003, 00014
US Electronics	00276, 00003, 00008, 00017
V2	00883
Videoway	00000
Viewmaster	00883
Vision	00883
Vortex View	00883
Zenith	00000, 00525, 00899, 00017

Cable / PVR Combos:

Americast	00899
Amino	01822
Digeo	01187
General Instrument	00810
Jerrold	00810
Motorola	01376, 00810, 01187, 01106
Myrio	01822
Pace	01877, 00237
Pioneer	01877, 00877
RCA	01256
Scientific Atlanta	01877, 00877
Sony	01006
Supercable	00276
Thomson	01256
Zenith	00899

DVD-controlled DVD / PVR Combos:

Emerson	20675
Go Video	21730
Hitachi	21764
Mitsubishi	21403
Panasonic	20490, 21632

Pioneer	20631
RCA	20522
Sharp	20630, 21256, 21642
Sony	21033
Sylvania	20675
Toshiba	21503, 21639
Victor	21597

VCR-controlled DVD / PVR Combos:

Emerson	20000
RCA	20880
Sylvania	20000
Toshiba	21008, 21996

TVs:

A-Mark	10047, 10054, 10165
Accuscan	10047, 10018, 10135
Action	10030, 10185
Admiral	10047, 10054, 10017, 10051, 10093, 10463, 10180, 10018, 10165
Advantz	10282
Advent	10761, 10783, 10815, 10817, 10842, 11933
Adventuri	10000
Agna	10150
Aiko	10092
Akai	10060, 10812, 10702, 10030, 10145, 10151, 10672, 11903, 11935
Albatron	10700, 10843
Alfide	10672
Alleron	10030
Ambassador	10150, 10177
America Action	10180
American High	10000, 10060
Ampro	10751
Amstrad	10171, 10177
Amtron	10000, 10180
Anam	10180
Anam National	10055
AOC	10180, 10030, 10185
Apex Digital	10156, 10748, 10879, 10765, 10185, 10767, 11943
Audinac	10180
Audiovox	10451, 10180, 10092, 10623, 10802, 10875, 11937, 11951, 11952
Aventura	10171
Axion	11937
Baysonic	10180
Beaumarck	10017, 10178, 10030
Belcor	10030
Bell & Howell	10054, 10154, 10093
BenQ	11032
Boxlight	10893
Bradford	10180
Brockwood	10178, 10030
Broksonic	10236, 10463, 10180, 10177, 11929, 11935, 11938
Candle	10030
Capehart	10017, 10178, 10030, 10092
Carnivale	10030
Carver	10054
Celebrity	10000
Celera	10765
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Clarion	10180
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Conic	10178
Contec	10180, 10185
Craig	10180, 10171, 10282
Crosley	10054, 10000, 10180, 10030, 10171, 10187

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Crown	10093, 10180, 10672	Jutan	10030	PCE	10156, 10060
Crown Mustang	10672	JVC	10054, 10053, 10030, 10055, 10731, 11253	Penney	10047, 10000, 10156, 10250, 10051, 10060, 10178, 10030, 10018, 10135, 10159, 11347, 11919, 11926
Curtis Mathes	10047, 10054, 10154, 10000, 10051, 10451, 10093, 10180, 10060, 10702, 10178, 10030, 10145, 10166, 10018, 10466, 11147, 11347, 11919	Kamp	10017, 10180, 10185	Philco	10054, 10463, 10030, 10145, 10187
CXC	10180	Kawasho	10030, 10185	Philips	11454, 10054, 10030, 10171, 10187, 10690, 11154, 11254
Cytron	11326	KEC	10180, 10060	Pilot	10051, 10060, 10178, 10030
Daewoo	10451, 10178, 10092, 11661, 10623, 10661, 10672, 11755, 11756, 11928	Kenwood	10180, 10030	Pioneer	10166, 10055, 10679, 10866, 11260
Dayton	10092	KLH	10156, 10180, 10765, 10767	Polaroid	10765, 10865, 11262, 11276, 11314, 11316, 11326, 11327, 11328, 11341
Daytron	10178, 10030, 10092	Kloss	10030	Portland	10451, 10092
Dell	11080, 11178	Konka	10180, 10080, 10628, 10632, 10638, 10703, 10707, 10720	Precision	10236, 10180, 10177, 10185, 10282
Denon	10145, 10055, 10511	Kost	11262	Prima	10761, 10783, 10815, 10817, 11933
Denstar	10628	KTV	10463, 10180, 10030, 10185	Princeton	10700, 10717
Digital Life	10872	Lark	10154	Prism	10250, 10051, 10055
Dumont	10017, 10180, 10178	LG	10054, 11265, 10060, 10178, 10030, 10700, 10856, 11154, 11178, 11758	Proscan	11447, 10047, 10018, 10135, 10466, 11347, 11922
Durabrand	10463, 10180, 10178, 10171, 11034	Lloyd's	10236, 10180, 10030, 11904	Proton	10178, 10466
Dwin	10093, 10720, 10774	Logik	10236, 10180	Pulsar	10017, 10092
Eaton	10060	LXI	10047, 10054, 10017, 10154, 10000, 10156, 10051, 10093, 10060, 10053, 10178, 10030, 10171, 10166, 10055, 10135, 10018, 10159, 10165	Pulser	10178, 10092
Electroband	10000, 10185	Magnasonic	10054, 10000, 10156, 10093, 10030, 10092, 11928	Quartz	10150, 10178
Electrograph	11755	Magnavox	10047, 11454, 10054, 10154, 10000, 10250, 10051, 10180, 10060, 10030, 10171, 10092, 10706, 10187, 10282, 10386, 10802, 11254, 11755, 11904, 11931, 11944	Quasar	10250, 10051, 10055, 10165, 10650, 11919
Electrohome	10154, 10000, 10150, 10178, 10030, 10151, 10185	Majestic	10017	Rabbit	10047
Emerald	10178, 10177	Marantz	11454, 10054, 10030, 10704, 10854, 10855, 11154	Radio Shack	10047, 10154, 10180, 10150, 10178, 10030, 10165, 11904
Emerson	10047, 10154, 10451, 10236, 10463, 10180, 10150, 10178, 10171, 11944, 11929, 11928, 10623, 10282, 10185, 10177, 10135	Matsui	10177	RCA	11447, 10047, 10054, 10000, 10051, 10093, 10178, 11958, 11953, 11948, 11922, 11919, 11917, 11547, 11347, 11247, 11147, 11047, 10774, 10679, 10165, 10135, 10090, 10018
Envision	10030, 10813	Matsushita	10250, 10051, 10650	Realistic	10047, 10154, 10180, 10150, 10178, 10030, 10165
Epson	10833, 10840	Maxent	11755, 11756	Rhapsody	10185
ESA	10812, 10171, 11944	Megapower	10700	Road Authority	10282
Fisher	10054, 10154, 10000, 10159	Megatron	10047, 10178, 10145, 10151	Runco	10017, 10060, 10030, 10497, 10603
Fortress	10093	MEI	10185	Sampo	10047, 10030, 11755, 11756
Fujitsu	10683, 10809, 10853	Memorex	10154, 10463, 10180, 10150, 10178, 10030, 10165, 11926	Samsung	10047, 10054, 10017, 10154, 10060, 10812, 10702, 10178, 10030, 11959, 11903, 11312, 11060, 10814, 10766, 10587, 10055
Funai	10000, 10180, 10171, 11904	MGA	10150, 10178, 10030	Sanky	10060, 10030
Futuretech	10180	MGN Technology	10178	Sansui	10463, 10060, 10030, 10165, 11904, 11929, 11935
Gateway	11755, 11756	Micro Genius	10150	Sanyo	10047, 10054, 10154, 10000, 10463, 10171, 10159, 10799, 10893, 11755
GE	11447, 10047, 10000, 10051, 10451, 10060, 10178, 10030, 10135, 10055, 10282, 11147, 11347, 10018, 11917, 11919, 11922	Midland	10047, 10017, 10051, 10018, 10135	Saville	10060
Gemini	10047	Mitsubishi	10154, 10250, 10093, 11250, 10150, 10178, 10030, 10836, 10868, 11917	Sceptre	10878
Gibraltar	10017, 10000, 10030	Monivision	10700, 10843	Scotch	10178
Go Video	10886	Motorola	10054, 10051, 10093, 10150, 10055	Scott	10236, 10180, 10178, 10030, 10177
Go Vision	11937	MTC	10180, 10060, 10030, 10092, 10185, 10282	Sears	10047, 10054, 10017, 10154, 10000, 10156, 10051, 10093, 10060, 10053, 10178, 10030, 10171, 10166, 10055, 10135, 10018, 10159, 10165, 11904, 11926
GoldStar	10047, 10054, 10178, 10030, 10018, 11154, 11926	Multitech	10180	Sharp	10054, 10093, 10180, 10165, 10386, 10491, 10688, 10689, 10818, 10851, 11393, 11917
Gradiente	10053	NAD	10156, 10178, 10166, 10866	Sheng Chia	10093
Grundig	10706, 10672, 10683	NEC	10047, 10156, 10178, 10030, 10497, 10704, 10882, 11704	Shivaki	10178
Grundig	10180	NetTV	11755	Siemens	10145
Grunpy	10180	Nikko	10178, 10030, 10092	Signature	10047, 10093, 10030, 10165, 10187
Haier	11034, 10768	Nikkodo	10178, 10030, 10092	Signet	11262
Hallmark	10236, 10180, 10178, 10135, 10187	Nishi	10030, 10018	Simpson	10178, 10030, 10187
Harley Davidson	10000, 10180, 10060, 10178, 10030, 11904	Norcent	10748, 10824, 11089	Singer	10060, 10092
Harman/Kardon	10054	Noshi	10018	Solar Drape	10000
Harvard	10180	NTC	10092	Sole	10813
Havermy	10093	Nyon	10000	Sony	10017, 10154, 11100, 10000, 10150, 10053, 10080, 10632, 10834, 11904, 11925
Heathkit	10017	Olevia	11144, 11240, 11331		
Helios	10865	Onwa	10180		
Hello Kitty	10451	Optimus	10154, 10250, 10093, 10180, 10150, 10178, 10030, 10166, 10165, 10650		
Hewlett Packard	11089, 11494, 11502	Optoma	10887		
Hisense	10748	Optonica	10093, 10165		
Hitachi	10047, 10054, 10017, 10000, 10051, 10178, 11145, 10145, 10018, 10055, 10151, 10185, 11904, 11960	Orion	10017, 10236, 10463, 10180, 10178, 11463, 10177, 11929		
HP	11089, 11494, 11502	Pace	10092		
Hyundai	10849, 10865	Panasonic	10054, 10000, 10156, 10250, 10051, 10236, 10030, 10018, 10055, 10650, 11291, 11410, 11919, 11941, 11946, 11947		
Ima	10236, 10180, 10178	Panda	10706		
Infinity	10054	Paxonic	10060, 10030		
Insignia	10171, 11326, 11517				
Inteq	10017, 10145				
JBL	10054				
JCB	10000				
Jensen	10761, 10815, 10817, 11933				
JIL	10030				

4. REMOTE CONTROL CUSTOMIZATION continued...

Soundesign	10180, 10178
Sova	11952
Spectravision	10156, 10178, 10159
Squareview	10171
SR2000	10154, 10171
SSS	10180
Starlite	10236, 10180
Studio Experience	10843
Superscan	10093, 10864, 11944
Supreme	10000
SV2000	10054
SVA	10748, 10587, 10768, 10865, 10870, 10871, 10872
Sylvania	10047, 10054, 10154, 10000, 10051, 10178, 10030, 10171, 10092, 10159, 10187, 11904, 11926, 11931, 11944
Symphonic	10000, 10180, 10178, 10171, 11904, 11944
Syntax	11144, 11240, 11331
Tandy	10093, 10165
Tatung	10000, 10051, 10055, 11756
Teac	10154, 10706, 10159, 10282, 10689
Technics	10054, 10250, 10051, 10055
Technovox	10030
Techview	10847
Techwood	10250, 10051, 10060, 10055
Teknika	10054, 10463, 10180, 10150, 10060, 10178, 10092
Telecolor	10017
Telefunken	10702
Thomas	10047, 10178, 11904
Thomson	11447, 10047
TMK	10236, 10180, 10178, 10177
TNCi	10017
Tocom	10156
Tomashi	10282
Toshiba	10154, 11256, 10156, 10150, 11265, 10060, 11145, 10145, 10166, 11945, 11936, 11935, 11918, 11704, 11656, 11356, 11156, 10845, 10832, 10650
Tosonic	10185
Totevision	10051
Toyomenka	10178
Truetone	10250, 10051, 10055
TVS	10463
Ultra	10092
Universal	10047, 10135
Universum	10177
V	10864, 10885, 11755, 11756
Vector Research	10030
Victor	10053
Vidikron	10054
Vidtech	10178
Viewsonic	10857, 10864, 10885, 11578, 11755
Viking	10060
Vizio	10864, 10885, 11499, 11756, 11758
Wards	10047, 10054, 10017, 10154, 10000, 10051, 10093, 10236, 10178, 10030, 10166, 11156, 10866, 10187, 10165, 10151, 10080, 10018
Waycon	10156
Welton	10178
Westinghouse	10000, 10451, 10885, 10889, 11282
White Westinghouse	10451, 10236, 10463, 10623, 10889
World	10451, 10236, 10463, 10180
XR-1000	10154, 10180, 10171
Yamaha	10030, 10769, 10833, 10839
Yorx	10030
Zenith	10047, 10017, 10000, 10093, 10463, 11265, 10812, 10178, 10030, 11145, 10145, 10171, 10092, 11904, 11929

DVD-controlled TV / DVD Combos:

Advent	21016
Akai	20695
Apex Digital	20830

Audiovox	21071, 21121, 21122
Axion	21071
Broksonic	20695
Emerson	20675, 21268
ESA	21268
Funai	21268
Go Vision	21071
Hitachi	21247
Insignia	21268
Jensen	21016
Magnavox	21268
Panasonic	21490
Philips	20854, 21260
Prima	21016
RCA	21022
Samsung	20899
Sansui	20695
Sova	21122
Sylvania	20675, 21268
Toshiba	20695

TV-controlled TV / DVD Combos:

Advent	11933
Akai	11935
Apex Digital	11943
Audiovox	11937, 11951, 11952
Axion	11937
Broksonic	11935
Hitachi	11960
Jensen	11933
Panasonic	11941
Prima	11933
RCA	11948, 11958
Samsung	11903
Sansui	11935
Sova	11952
Toshiba	11935

TV-controlled TV / VCR Combos:

America Action	10180
Audiovox	10180
Broksonic	11929
Citizen	11928
Curtis Mathes	11919
Daewoo	11928
Emerson	10236, 11928, 11929
Funai	11904
GE	11917, 11919, 11922
GoldStar	11926
Harley Davidson	11904
Hitachi	11904
Lloyd's	11904
Magnasonic	11928
Magnavox	11904, 11931
Memorex	11926
Mitsubishi	11917
Orion	11929
Panasonic	11919
Penney	11919, 11926
Quasar	11919
Radio Shack	11904
RCA	11917, 11919, 11922
Samsung	11959
Sansui	11904, 11929
Sears	11904, 11926
Sharp	11917
Sony	11904, 11925
Sylvania	11931
Symphonic	11904
Thomas	11904
Toshiba	11918, 11936
Zenith	11904, 11929

VCR-controlled TV / VCR Combos:

Aiwa	20479
America Action	20278
Audiovox	20278
Broksonic	20002, 20479, 21479
Citizen	21278
Colt	20072
Curtis Mathes	21035
Daewoo	21278
Emerson	20002, 20479, 20593, 21278, 21479

Funai	20000
GE	20240, 20807, 21035, 21060
GoldStar	21237
Harley Davidson	20000
Hitachi	20000
LG	21037
Lloyd's	20000
Magnasonic	20593, 21278
Magnavox	20000, 20593, 21781
Magnin	20240
Memorex	20162, 21037, 21162, 21237, 21262
MGA	20240
Mitsubishi	20043, 20807
Optimus	20162, 20593, 21162, 21262
Orion	20002, 20479, 21479
Panasonic	20162, 21035, 21162, 21262
Penney	20240, 21035, 21237
Quasar	20162, 21035, 21162
Radio Shack	20000, 21037
RCA	20240, 20807, 21035, 21060
Samsung	21014
Sansui	20000, 20479, 21479
Sanyo	20240
Sears	20000, 21237
Sharp	20807
Sony	20000, 21232
Sylvania	21781
Symphonic	20000, 20593
Thomas	20000
Toshiba	20845, 21145
Zenith	20000, 20479, 21479

DVD-controlled TV / VCR / DVD:

Akai	20899
Broksonic	20868
Emerson	20821
ESA	20821
Funai	21334
Magnavox	20821
Panasonic	21362, 21462
RCA	21132
Sharp	20630
Superscan	20821
Sylvania	20821
Symphonic	20821
Toshiba	21045

TV-controlled TV / VCR / DVD:

Akai	11903
Broksonic	11938
Emerson	11944
ESA	11944
Magnavox	11944
Panasonic	11946, 11947
RCA	11953
Sharp	11917
Sylvania	11944
Symphonic	11944
Toshiba	11945

VCR-controlled TV / VCR / DVD:

Sharp	20807
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Audio Amplifiers:

Adcom	30577, 31100
Bose	30674
Carver	30892
Curtis Mathes	30300
Durabrand	31561
Elan	30647
GE	30078
Harman/Kardon	30892
JVC	30331
Left Coast	30892
Lenox	31561
Marantz	30892
McIntosh	30251
Modulaire	30395
NEC	30264
Optimus	30395, 30013, 30300, 30823
Parasound	30246
Philips	30892
Pioneer	30013, 30300, 30823

4. REMOTE CONTROL CUSTOMIZATION continued...

Polk Audio	30892
RadioShack	30395
RCA	30013, 30300, 30823
Realistic	30395, 30013
Shure	30264
Sony	30689, 30815
Soundesign	30078
Victor	30331
Wards	30078, 30013
Yamaha	30354, 30133

Audio Receivers:

ADC	30531
Adcom	30616
Aiwa	31405, 30189, 30121, 31388, 31641
Akai	30244, 31512
Alco	31390
AMC	31077
Amphion Media Wks	31563, 31615
AMW	31563, 31615
Anam	31609, 31074
Apex Digital	31257, 31430, 31774
Arcam	31189
Audiotronic	31189
Audiovox	31390, 31627
B & K	30701, 30702, 30820, 30840
BK	30702
Bose	31229, 30639, 31253, 31841, 31933
Brix	31602
Cairn	30189
Cambridge Soundwks	31370
Capetronic	30531
Carver	31189, 30189, 30121, 31289
Classic	31352
Coby	31389
Criterion	31420
Curtis Mathes	30014
Daewoo	31250
Delphi	31414
Denon	31360, 30121, 30771, 31142, 31306
Emerson	30531
Fisher	31801
Garrard	30463
Gateway	31517
Go Video	31532
Grundig	30189
Harman/Kardon	30110, 30189, 30891, 31289, 31304, 31306
Hitachi	31273, 31801
Initial	31426
Inkel	30491
Insignia	31030
Integra	30135, 30842, 31298, 31320
JBL	30110, 31306
JVC	31058, 30074, 31374, 31495, 31811
Kawasaki	31390
Kenwood	31313, 31570, 31569, 30186
KLH	31390, 31412, 31428
Koss	31366, 31497
Lasonic	31798
Lenox	31437
Lexicon	31076
LG	31293
Linn	30189
Liquid Video	31497
Magnavox	31189, 31269, 30189, 30391, 30531, 31266, 31514
Marantz	31189, 31269, 30189, 30891, 31289
McIntosh	31289
Micromega	31189, 30189
Mitsubishi	31393
Myryad	31189
Nakamichi	31313, 30097
New Castle	30502
Norcent	31389
Nova	31389
Onkyo	30135, 30380, 30842, 31298, 31320, 31531

Optimus	31023, 30074, 30014, 30121, 30186, 30502, 30531, 30670, 31074
Oritron	31366, 31497
Outlaw	30391
Panasonic	31308, 31518, 30309, 30367, 31288, 31316, 31548, 31633, 31763, 31764
Philips	31189, 31269, 30189, 30391, 30891, 31266
Pioneer	31023, 30014, 30150, 30244, 30531, 30630, 31384
Polaroid	31508
Polk Audio	30189, 31289, 31414
Proscan	31254
Radio Shack	31609
RCA	31023, 31609, 31254, 30531, 31074, 31390, 31511
Realistic	31609, 30121, 30186
Regent	31437
Revox	30189
Rio	31869
Saba	31519
Samsung	31295, 31304, 31500
Sansui	31189, 30189, 31764
Sanyo	31251, 31469, 31801
Sharp	30186, 30771, 31286
Sharper Image	31556
Sherwood	30491, 30502, 31077, 31423, 31517, 31653
Shinsonic	31426
Sirius	31602, 31627, 31811, 31987
Sonic Blue	31532, 31869
Sony	31058, 31441, 31258, 31759, 31622, 30168, 30474, 31406, 31558, 31658, 31758, 31858
Soundesign	30670
Stereophonics	31023
Sunfire	31313
Teac	30463, 31074, 31390, 31528
Technics	31308, 31518, 30309, 31384, 31633
Thorens	31189
Toshiba	30135, 30842, 31788
Venturer	31390
Victor	30074
Waitec	31352
Wards	30189, 30014
XM	31406, 31414
Yamaha	31023, 30176, 30186, 31176, 31276, 31331, 31375, 31476
Zenith	30857, 31293

Audio Accessories:

Accurian	31106
Altec Lansing	31056, 31485
Apple	31115, 31644
Cambridge Soundwks	31530
Creative	30872
D-Link	31522
Imerge	31491
Integra	31789
iPort	31917
Marantz	31491
Motorola	31464
NaviPod	31644
Netgear	31785
Omnifi	31605
Onkyo	31789
Roku	31828
Russound	32019
Slim Devices	31844
Sonance	31917
SSI	31522
Yamaha	31809, 31810

Video Accessories:

ABS	01272
Accurian	01653
Alienware	01272
Allegro	00160
Archer	00160
Bantor	00160

Centronic	00160
CyberPower	01272
D-Link	01554, 01731
Epson	01563
Gateway	01272
GC Electronics	00160
Hauppauge	01757
Hewlett Packard	01272, 01267
Howard Computers	01272
HP	01272, 01267
Hush	01272
iBUYPOWER	01272
Jebsee	00160
JVC	01384
Keyspan	01344
Leadtek	01614
LG	01415
Linksys	01272, 01365
Macro Image Tech	01383
Media Center PC	01272
Microsoft	01272
Mind	01272
Motorola	01363
MyHD	01383
Niveus Media	01272
Northgate	01272
Panasonic	01120
Pinnacle Systems	01268
Pioneer	01010
Princeton	00113, 00295
Radio Shack	00160
Ricavision	01272
Roku	01486
Samsung	01190, 01490
Sensory Science	01126
Sharp	01010
Sony	01272, 01324, 01364
Stack 9	01272
Sylvania	01563
Systemax	01272
Tagar Systems	01272
Toshiba	01272
Touch	01272
Verator	00113
Viewsonic	01272, 01329
Vizio	01126
Voodoo	01272
ZT Group	01272

Home Automation:

Accutek	31215
Amana	31716
Bionaire	30846, 31215
Frigidaire	31333
GE	30240
GoldStar	31537
Holmes	31215
Kenmore	31537
Lasko	30846
LG	31537
Lightolier	30184
Lutron	30597, 30318, 31239, 31597
Marmitek	30167
One For All	30167
PCS	30184
Radio Shack	30240
Royal Sovereign	31651
Security System	30167
Sharper Image	30846
SmartLinc	30184
Universal	30167
Universal X10	30167
Whirlpool	31332
Windmere	31215
X10	30167

SPECIFICATIONS

PHONO PREAMPLIFIER

Input Resistance	47 k Ω
Input Capacitance	100 pF
Maximum Input	18 mV at 20 Hz, 140 mV at 1 kHz, 160 mV at 20 kHz
Gain (at 1 kHz)	35 dB
Crosstalk (at 1 kHz)	80 dB
RIAA Response	± 0.5 dB (100 Hz to 20 kHz), -1 dB (20 kHz)
THD+N (at 1 kHz, 5 mV input)	0.05%
S/N Ratio (ref. 5 mV at 1 kHz, IEC-A filter)	83 dB

The phono preamplifier is suitable for moving magnet and high-output moving coil cartridges.

PREAMPLIFIER

Input Resistance	30 k Ω
Output Resistance	560 Ω (Pre Out), 100 Ω (Rec Out)
Rated Input	1.0 Vrms
Maximum Input	7.6 Vrms
Minimum Load	5 k Ω
Rated Output (100 k Ω load)	1.0 Vrms
Maximum Output	7.6 Vrms
Headphone Output	500 mW into 32 Ω at 0.03% THD+N
Crosstalk (at 1 kHz)	75 dB between channels, 72 dB between inputs
XLR Pin Configuration	Pin 1: Ground, Pin 2: Positive, Pin 3: Negative
Frequency Response and Bandwidth	20 Hz to 20 kHz (+0, -0.1 dB), 1 Hz to 170 kHz (+0, -3 dB)
THD+N (at Rated Input & Output)	0.003% (80 kHz BW)
IMD (CCIF at 15 kHz & 16 kHz)	0.0005%
S/N Ratio (ref. 2.0 Vrms, IEC-A filter)	102 dB

SPECIFICATIONS continued ...

POWER AMPLIFIER

Power Output (per channel, continuous RMS, 20 Hz to 20 kHz, <1% THD)	
8 Ω	240 W one channel driven, 225 W both channels driven (FTC)
4 Ω	330 W one channel driven, 310 W both channels driven (short term)
Frequency Response	20 Hz to 20 kHz (+0, -0.15 dB)
Bandwidth	1 Hz to 200 kHz (+0, -3 dB)
THD+N	0.01% at 1 kHz, 0.03% at 20 kHz (100 W into 8 Ω)
Power Bandwidth	<10 Hz to 100 kHz (+0, -3 dB, 200 W into 8 Ω)
Slew Rate	25 V/ μ s
Headroom	1.4 dB (8 Ω), 2.8 dB (4 Ω)
Damping Factor	80 at 1 kHz (ref. 8 Ω)
S/N Ratio (ref. 225 W, IEC-A filter)	105 dB
Crosstalk	>57 dB (100 Hz to 10 kHz)
Voltage Gain	29 dB

CONTROL

Infra Red	
Carrier Frequency	38 kHz
Max. Emitter Current	pass-through of input
Trigger	
Input Polarity	non-polarized
Output	pass-through of input

POWER REQUIREMENT

Consumption 300 W typical, 800 W maximum (8 Ω load)

Low voltage version: In countries where the line voltage is 120V, this product operates from a single phase AC power source that supplies between 108V and 132V at a frequency of 60 Hz.

High voltage version: In countries where the line voltage is 220, 230, or 240V, this product operates from a single phase AC power source that supplies between 216V and 264V at a frequency of 50 or 60 Hz.

DIMENSIONS

Height	5 ⁷ / ₈ in. (14.9 cm) including feet
Width	17 ¹ / ₄ inches (43.8 cm)
Depth	18 inches (45.7 cm)
Weight (unpacked)	42.6 lb (19.4 kg)

LIMITED WARRANTY

CANADA & USA

The warranty period on Anthem products is five (5) years for power amplifiers and integrated amplifiers, three (3) years for audio preamplifiers and audio processing, two (2) years for video equipment and video processing, one (1) year for remote controls, and six (6) months for projector lamps from date of purchase from Anthem or an Authorized Anthem Dealer. If Anthem determines that the product has a defect in materials or manufacturing during the period Anthem will at its option repair, replace or provide the necessary replacement parts without charging for parts or labor. Repaired or replaced equipment or parts supplied under this warranty are covered by the unexpired portion of the warranty.

This warranty is transferable only if the re-sold product is purchased from an Authorized Anthem Dealer. Display products sold by an Authorized Anthem Dealer are covered by the same warranty except that the period commences on the date of the dealer invoice, not the purchaser's invoice, and cosmetic flaws are excluded.

Warranty is void if the serial number has been removed, altered or defaced, if the product has been operated, installed or handled other than in accordance with the intended application, tampered with, modified, or damaged by accident, while in transport or by failure of electric power, or has been repaired by a non-authorized party. Anthem shall have no obligation to correct any defect that is not reproducible by Anthem. If inspection by Anthem discloses that the repair required is not covered by this warranty, regular repair charges shall apply.

If a problem is discovered in your Anthem product, please contact the Authorized Anthem Dealer from whom you purchased the product. Your dealer will help to determine the cause of the problem and arrange for the appropriate action. Alternatively, follow the procedure below for factory service.

A Return Authorization (RA) number must be obtained from Anthem Technical Support before a product can be shipped to Anthem for any reason. Product shipped to Anthem without its RA Number clearly visible on the outside of the shipping carton will be refused and returned to the sender, freight collect. Product shipped to Anthem must have shipping and insurance prepaid by the sender, be packaged in the original carton and packing material and accompanied by a written description of the defect. Service will not be given under warranty without an accompanying copy of the sales invoice. Product repaired under warranty will be returned with shipping and insurance prepaid by Anthem (within Canada and continental USA only).

Disclaimer of Liability

Under no circumstances shall Anthem, its agents, representatives or employees assume liability or responsibility for injury or damages sustained in the use or operation of Anthem products or for damages to connected products. Some jurisdictions do not allow limitations of incidental or consequential damages so this exclusion may not apply to you.

Anthem reserves the right to make design changes without obligation to revise prior versions. All specifications are subject to change without notice.

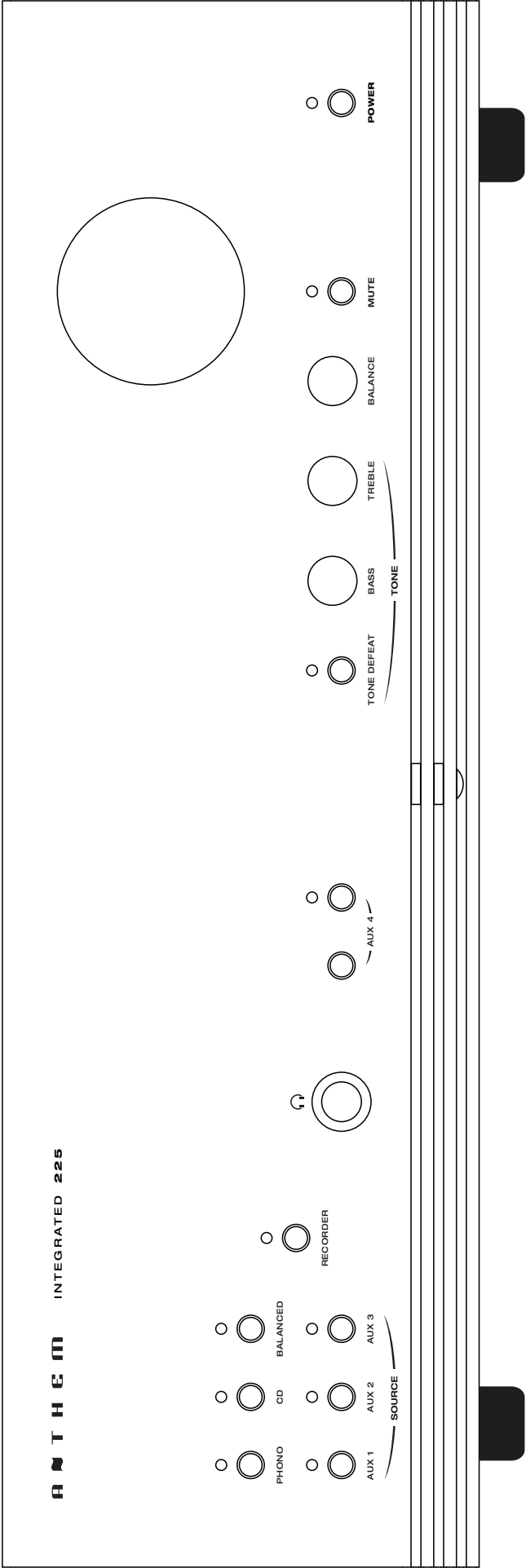
This warranty shall be the sole and exclusive remedy to you. No other warranty or condition, statutory or otherwise, expressed or implied, shall be imposed upon Anthem nor shall any representation made by any person, including a representative or agent of Anthem, be effective to extend the warranty coverage provided herein.

On the expiration of the warranty all liability of Anthem in connection with the product shall terminate.

INTERNATIONAL

Terms and conditions are set and maintained by the Authorized Anthem Distributor, not Anthem.

THE BIG PICTURE FRONT PANEL



THE BIG PICTURE REAR PANEL

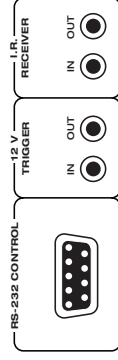
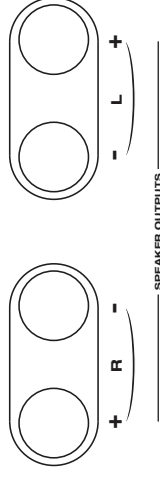
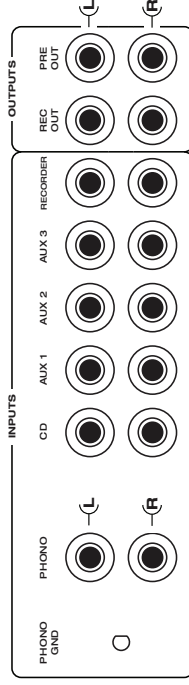
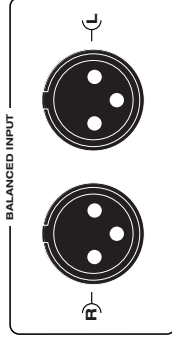
A T H E M
INTEGRATED 225
DESIGNED AND ENGINEERED BY
SONIC FRONTIERS INTERNATIONAL
MADE IN TAIWAN

SERIAL NO:

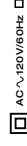
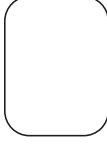


CAUTION | TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE TOP COVER. NO USER-SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING | TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.



FUSE T12A/250V

AC ~120V/60Hz ☐

POWER CONSUMPTION: 300W TYPICAL



tel. (+1) 905-362-0958 M-F 9:00 am - 5:30 pm (ET)

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