

HD SERIES

# HOMEOWNER'S INFORMATION

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**ELAN**  
HOME SYSTEMS

# ⚡ WARNING ⚠

## RISK OF ELECTRIC SHOCK DO NOT OPEN

**CAUTION: 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 arrowhead symbol within an equilateral triangle is intended to alert the user to 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 is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the appliance.

**WARNING: TO REDUCE THE RISK OF FIRE OR SHOCK,  
DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

## IMPORTANT SAFETY INFORMATION

**Read Information**—All the safety and operating information should be read before the appliance is operated.

**Follow Information**—All operating and use information should be followed.

**Retain Information**—The safety and operating information should be retained for future reference.

**Heed Warnings**—All warnings on the appliance and in the operating instructions should be heeded.

**Carts and Stands**—This appliance should be used with a stationary shelf. Do not use any mobile carts.

**Wall Mounting**—Mounting of this appliance should be done only by an authorized installer.

**Ventilation**—The appliances should be situated so that their location or position does not interfere with their proper ventilation. These appliances should never be placed near or over a radiator or heat register. These appliances should not be placed in a built-in installation such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

**Non-Use Periods**—Appliances that are left unattended and unused for long periods of time should be unplugged from the wall outlet.

**Power Sources**—The appliances should be connected to a power supply only of the type described in the operating instructions or as marked on each appliance. If you are not sure of the type of power supply to your home, consult your authorized ELAN dealer or local power company.

**Grounding or Polarization**—These audio products are equipped with a grounding-type alternating-current line plug. This plug will fit only into a grounding-type power receptacle. This is a safety feature. If the plug receptacle does not fit, contact an electrician to replace your obsolete receptacle. Do not defeat the safety purpose of the grounding-type plugs.

**Water and Moisture**—To reduce the risk of electric shock or fire, these appliances should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

**Power Cord Protection**—Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliances.

Do not damage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or fire when used. When removing from the wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord.

**Telephones**—Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electrical shock from lightning. Do not use a telephone to report a gas leak if the leak is in the vicinity of the ELAN electronic equipment because of risk of fire or explosion.

**Cleaning**—Unplug this audio product from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.

**Power Lines**—An outdoor antenna should be located away from power lines. When installing an outside antenna system, extreme care should be taken to avoid touching power lines or circuits, as contact with them may be fatal.

**Outdoor Antenna Grounding**—If an outside antenna or cable system is connected to these audio products, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the U.S. National Electrical Code, and Section 54 of the Canadian Electrical Code, provide information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See the grounding diagram (below).

**Overloading**—Do not overload wall outlets and extension cords, as this could result in fire or electric shock.

**Object and Liquid Entry**—Never insert objects of any kind through the openings of these appliances, as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Care should be taken so that objects do not fall and liquids are not spilled into the appliance through openings in the enclosure.

**Servicing**—Do not attempt to service these appliances yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

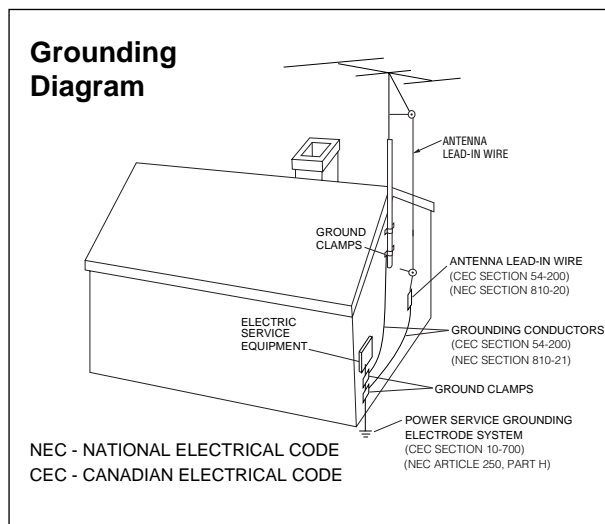
**Damage Requiring Service**—These appliances should be serviced by qualified service personnel when:

- A power supply cord or a plug has been damaged or
- If liquid has been spilled into the appliance or objects have fallen into the appliance or
- The appliance has been exposed to water or moisture or
- The appliance does not appear to operate normally or exhibits a marked change in performance or
- The appliance has been dropped or the enclosure damaged.

**Replacement Parts**—When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards. The Master Control Unit battery should be replaced only after turning the power off and only by an authorized installer.

**Safety Check**—Upon completion of any service or repairs to this audio product, ask the service technician to perform safety checks to determine that the audio product is in proper operating condition.

**Lightning**—For added protection for these audio products during an electrical storm, or when they are left unattended and unused for long periods of time, unplug them from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the audio products due to lightning and power-line surges.



## IMPORTANT USER INFORMATION

### U.S.A. Notice:

The **ELAN Telephone Interface Card** has been registered with the Federal Communications Commission (FCC) in accordance with Parts 68 of its rules. On the Telephone Interface Card (HDC1050) is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this number must be given to the telephone company.

**FCC Registration Number:** 2GMUSA-74250-MA-T  
**Ringer Equivalence Number (REN):** 0.4B

The REN is useful in determining the quantity of devices you may connect to your telephone line and still have all those devices ring when your number is called. In most, but not all areas, the sum of all RENs of all devices connected to one line should not exceed five (5.0). To find out the number of devices you may connect to your line, as determined by the REN, contact your local telephone company for the maximum REN for your calling area.

If your telephone equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But, if advance notice isn't practical, you will be notified as soon as possible. You will be notified of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service. If you experience trouble with this telephone equipment, please contact **ELAN TECHNICAL SUPPORT** at 1-800-622-ELAN (3526) for information on obtaining service or repairs. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure the equipment is not malfunctioning.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions: (1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Canadian Notice:

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Contact **ELAN TECHNICAL SUPPORT** at 1-800-622-ELAN (3526) for repairs to certified equipment.

# INTRODUCTION



*You now have the most convenient whole-house communication system using your existing telephones*

*Enjoy your favorite music anywhere in your home, as well as home theater integration, with your ELAN System*

*Someone at the front door can talk through the front door speaker... to you on your touch-tone phone.*

Congratulations and welcome to your new home . . . . a home that has been enhanced with one of the most advanced and user-friendly whole-house entertainment and communications systems available—**ELAN HOME SYSTEMS Series HD**.

Combining the finest in audio, telephone, automation and PC technologies, ELAN's Series HD offers you:

- the flexibility of listening to and viewing multiple audio and video sources (i.e. CD, Tape, Tuner, DSS, DVD, VCR, etc.) in independent listening areas (called **ZONES**) throughout your home.
- the luxury of house-wide communications such as Paging, Phone-to-Phone Intercom, Two-Way Door Station communications and much more . . . . simply by picking up any touch-tone telephone in your home.
- control of multiple relay-activated devices such as motorized movie screens, projector lifts, curtains and blinds, lighting and sprinkler systems. . . . all of which can be programmed to activate sequentially with the press of a button.
- the ease of controlling it all via attractive In-Wall Keypads, easy-to-use Hand Held Remotes, standard Touch-Tone Telephones, or even your home PC or laptop computer. Also, RS232 serial communications are available via our Automation Control Card that enable ELAN Series HD to interface with other popular touch-screen or lighting control systems.

All this, and more, is what we call "**Living With ELAN**".

# SYSTEM OVERVIEW

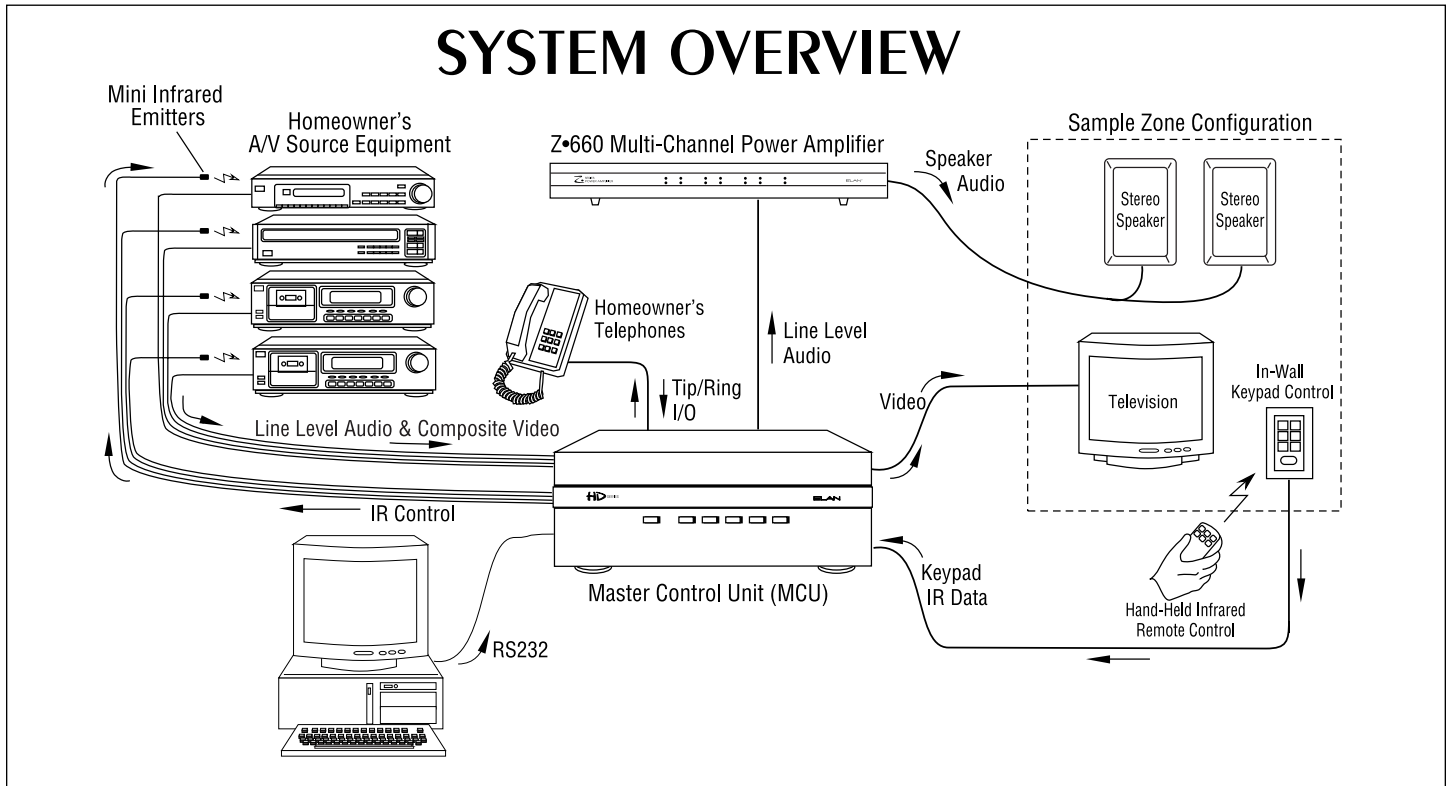
Your home is divided into dedicated listening and viewing areas called "**Zones**". Zones can consist of a single room (i.e. the Master Bedroom) or a combination of rooms (i.e. the Master Bedroom and Master Bath combined). Zones have independent access to and control of the sources connected to the system, and any source can be shared with other zones. Additionally, zones can be "grouped". This allows you to easily combine zones where you occasionally want to share the same listening and control requirements (i.e. Kitchen/Breakfast Nook).

Series HD's flexible programming options allow each zone to be custom-tailored depending on the use of the room. For example, in the Family Room ELAN paging and doorbell are enabled and their volume levels programmed accordingly, while in the Nursery page and doorbell have been disabled.

At the heart of your HD system is the **HDC2000 Master Control Unit (MCU)** and the **Z•660 Multi-Channel Power Amplifier**.

The MCU is the system's "brain". Responding to commands issued by keypads or remotes in each zone, it routes the signal of each source to the proper zone, activates programmed relay control and distributes all of ELAN's telecommunication features. The MCU is software-driven, which means that it can easily be customized to your specific needs and easily upgraded to take advantage of enhanced features available now and in the future.

If the MCU is the system's "brain", the Z•660 is its "brawn". Providing sixty watts of audiophile-quality power to each of six channels, the Z•660 distributes the audio signals sent to it by the MCU to the speakers in each zone.



## USING YOUR HD SYSTEM

This section details the control of your system using ELAN's in-wall keypads and hand held remotes; but first there are a few ELAN features you need to become familiar with . . . .



### WHOLE-HOUSE MUSIC

Whole-House Music is a feature that can make your entire home come alive with music. Any zone that is part of the Whole-House Music group will come on when this feature is activated. Any zone can also be programmed out of the Whole-House Music group. Refer to the **KEY PRESS COMMAND REFERENCE TABLE** to see which key presses activate or deactivate Whole-House Music from the control device you are using.

## WHOLE-HOUSE MUSIC ON

To activate Whole-House Music: First, select a source to listen to, then press the Whole-House Music ON key sequence for the particular control device (keypad or hand-held remote) you are using. Any zone that is part of the Whole-House Music group will come on playing the source you have selected. Change sources in any Whole-House Music zone, and all the other Whole-House Music zones will follow. Volume control, however, remains independent in all zones.

## WHOLE-HOUSE MUSIC OFF

Once Whole-House Music has been activated, press the Whole-House Music OFF key sequence for the particular control device (keypad or hand-held remote) you are using—and don't be alarmed when nothing happens! What you just did was "un-group" all of the zones that were in Whole-House Music. Now you can once again change sources in any zone independently of any other zone. **(Note: pressing the POWER key twice from any keypad or hand-held remote will turn off all zones, turn off the WHM function and put the system in Stand-by)**

Whole-House Music status can be determined at the front panel display of the MCU.

## ZONE GROUPING

Very often, independent zones may have open areas in common with each other, such as Dining Room/Living Room or Kitchen/Breakfast Nook. Having two different sources playing two different types of music in these areas can be quite distracting (at best). Your MCU allows your installer to program these zones into 'groups'. When grouped, all the zones in a group 'track' the same source—in other words, select CD in one zone, and the other zones in that group (if they are on) will hear the CD player. Change to Tuner, and the other zones in that group will follow. Up to four groups can be programmed. Each group can contain any number of zones, but each zone can be programmed into only one group.

## DO-NOT-DISTURB (DND)

When a zone is in Do-Not-Disturb, ELAN Page and Doorbell audio will not be allowed into that zone, nor will the Telemute or Whole-House Music features be activated in that zone. A zone can be placed in Do-Not-Disturb from either a keypad or the ELAN Hand-Held remote. Pressing Do-Not-Disturb again will take the zone out of Do-Not-Disturb. Each ELAN keypad has an LED indicator that will wink slowly when a zone is in Do-Not-Disturb. You Can also determine if a zone is in Do-Not-Disturb from the from panel of the MCU.

## BASS & TREBLE CONTROL

The Bass & Treble levels in each zone can be independently adjusted from either the HDR2000 Hand Held Remote or a Z•100/Z•150 keypad. See the **SYSTEM COMMANDS REFERENCE TABLE** on Page 18 and "Using the ELAN Hand-held Remote Control" for the exact key presses. The MCU retains the equalization setting for a zone even when the zone is turned off or power is removed from the MCU. Bass & Treble settings can be returned to 'flat' by pressing ON/OFF "F" on the ELAN Hand Held remote or \*, 0 on the Z•100/Z•150 keypad.

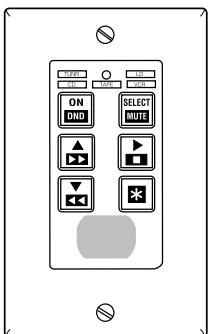
## SYSTEM CONTROL

The control of your source equipment is based around ELAN's advanced Learning IR system, which learns the commands from your components original remote controls into the MCU and then reissues these commands at the request of an ELAN keypad or Hand Held Remote. With the exception of ELAN System Commands such as VOLUME UP/DOWN, MUTE, ZONE ON/OFF, etc., any learned source command can be placed under any keypad or remote key, enabling your installer to customize the control of your system to reflect not only the sources you own, but intuitive placement of their most commonly used control functions.

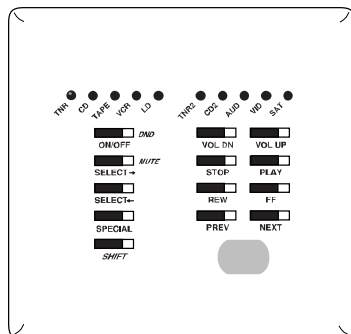
Another unique feature of your HD system is that the MCU has the capability to download all its learned information to your ELAN Hand Held Remote Controls. Once downloaded to, not only can your ELAN Hand Held control all the source components located back at the MCU, but you can now control local sources such as a TV, VCR or CD Player located in the Master Bedroom.

## KEYPADS

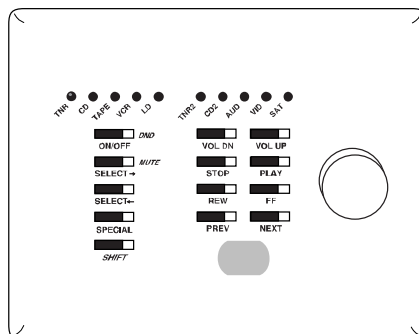
ELAN's In-Wall Keypad offerings provide you with numerous options in style and functionality. Your home may have one, or more, or all of the following keypads installed:



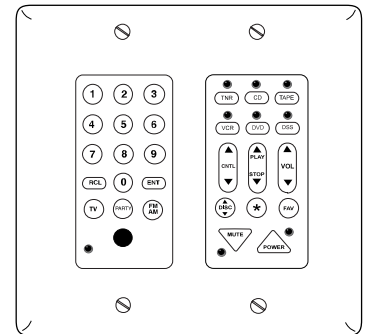
**HDP1000**



**HDP2000**



**HDP3000**



**Z•150/Z•100**

The following pages detail all of the MCU System Command Key Presses and LED indicators for each of our Keypads. On pages 20-22 you will find source control key maps to be completed by your ELAN installer that will show you exactly what source control command has been learned under each keypad key.

## IN-WALL KEYPAD SYSTEM COMMANDS & LED INDICATORS

### HDP1000

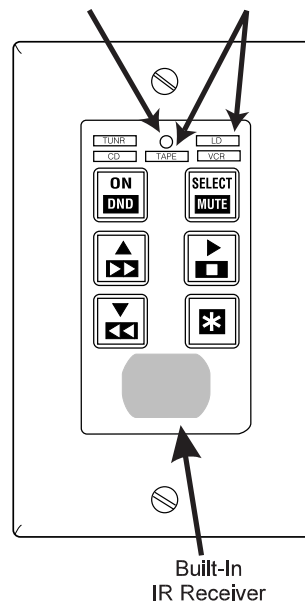
Zone ON/OFF	
System OFF	
Source Select	Also turns on a Zone
Zone Volume UP	
Zone Volume DOWN	
Do-Not-Disturb	
Zone Mute	
Whole-House Music ON	
Whole-House Music OFF	

#### SYSTEM LED

**Red:**  
Solid - System ON  
Slow Wink - DND  
**Yellow:**  
Fast Wink -  
IR Detect/Transmit

#### SOURCE LEDs

**Green:**  
Source 1-5 selected  
**Red:**  
Source 6-10 selected  
**Green/Red slow wink:**  
another zone is sharing that source



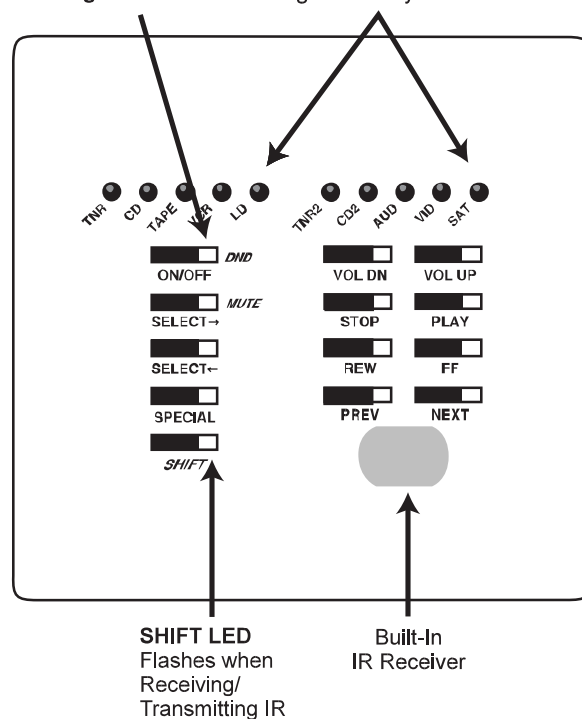
### HDP2000/3000

Zone ON/OFF	DND
System OFF	DND  DND
Source Select	OR
Zone Volume UP	
Zone Volume DOWN	
Do-Not-Disturb	DND
Zone Mute	MUTE
Whole-House Music ON	
Whole-House Music OFF	

**ON/OFF LED**  
**Red:** System ON  
**Winking Red:** DND

#### SOURCE LEDs

**Red:** Indicates the Source selected  
**Winking Red:** Indicates that source is being shared by another zone



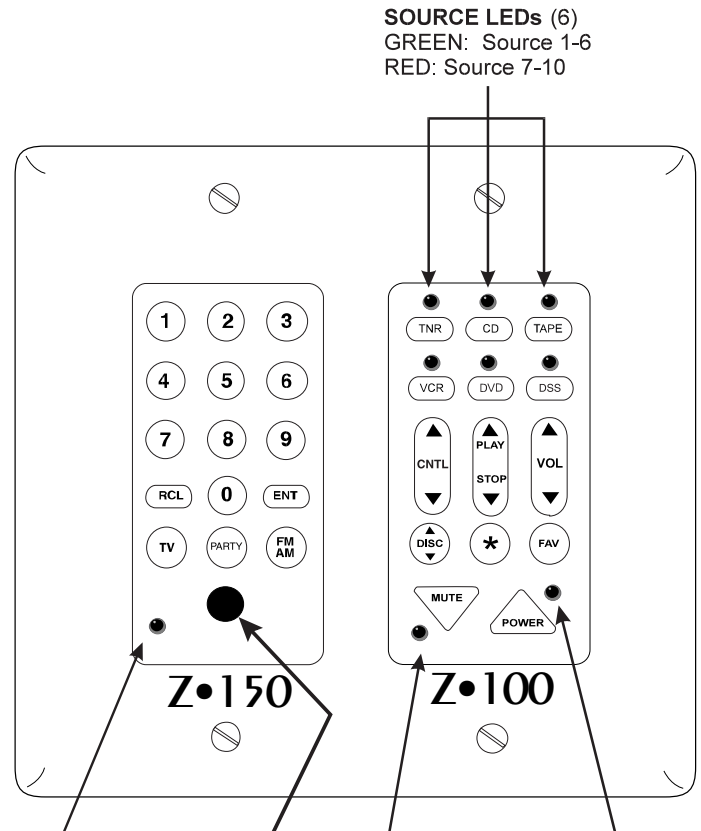
**SHIFT LED**  
Flashes when  
Receiving/  
Transmitting IR

Built-In  
IR Receiver

## SYSTEM COMMAND KEY PRESSES & LED INDICATORS

### Z•100/150

Zone ON/OFF	
System OFF	
Source Select (also turns on the zone)	
sources 1-6	 
sources 7-10	 
TV (Z150)	
Zone Volume UP	
Zone Volume DOWN	
Do-Not-Disturb	
Zone Mute	
Whole-House Music ON	
Whole-House Music OFF	
Zone Bass +	
Zone Bass -	
Zone Treble +	
Zone Treble -	
Zone EQ Flat	
Source Macro (=   on HDR2000 Handheld Remote)	



**TV LED**  
RED: TV is selected

GREEN:  
TV audio is detected

ORANGE:  
TV is selected and TV audio is detected

**IR WINDOW**

**MUTE LED**  
RED: Zone is in MUTE

**SYSTEM LED**  
GREEN:  
Solid - System ON  
Fast Wink - Shift  
Slow Wink - DND

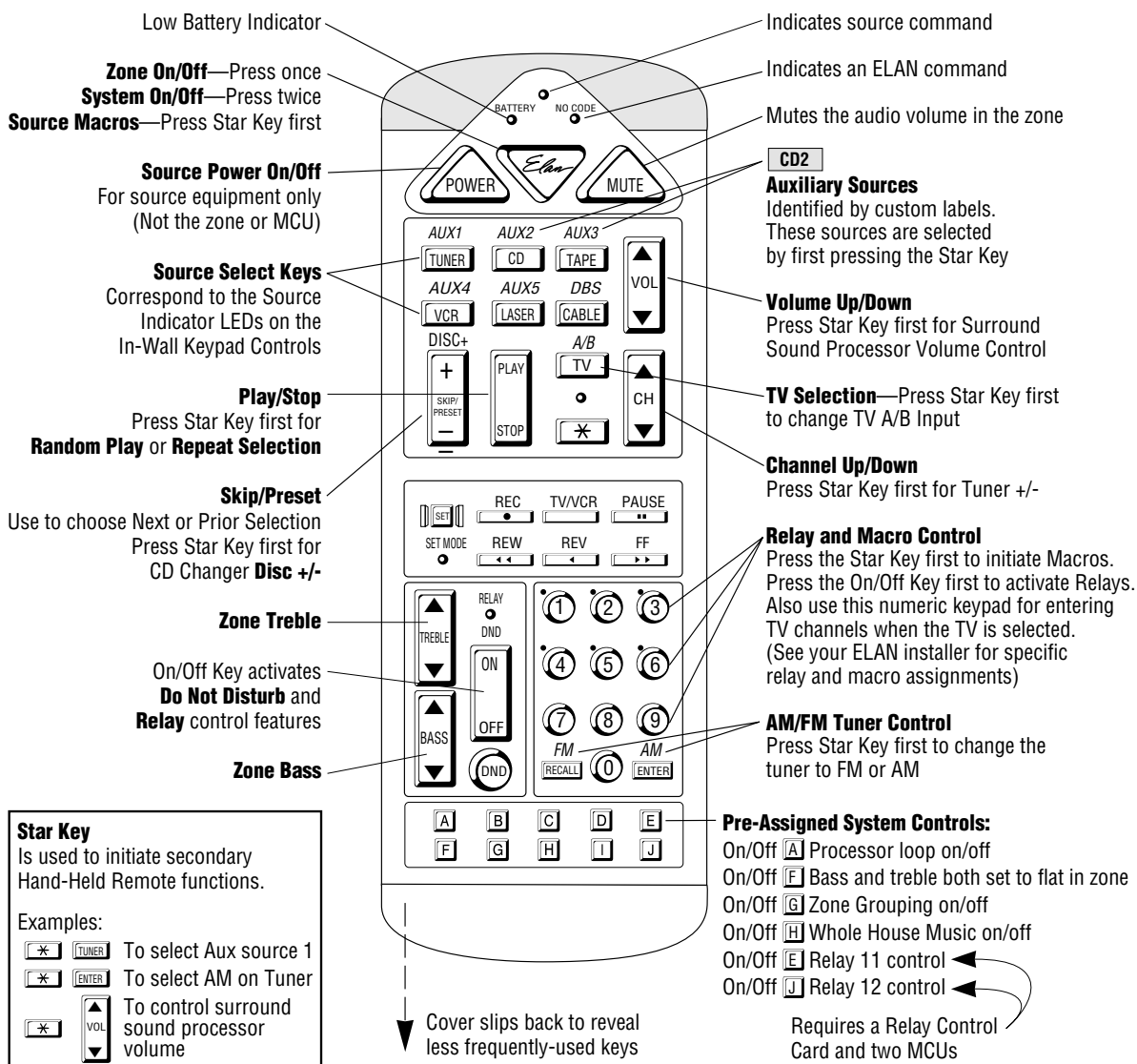
ORANGE:  
IR Detect/Transmit

These indicators are present only if using the Z025 Switching Module

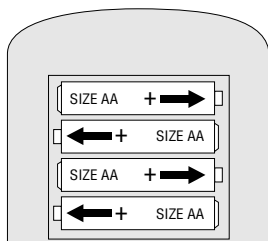
## HDR2000 HANDHELD REMOTE CONTROL

The HDR2000 can do everything that our keypads can do—plus whole lot more, including:

- additional system functions
- additional source control & transport functions
- numerical direct access
- relay and macro control
- zone bass & treble control
- zone group/un-group . . . and more



### Hand-Held Remote Rear View



### Changing Batteries

The ELAN Hand-Held Remote requires the installation of four AA batteries. When installing the batteries, maintain proper polarity as shown here.

**A downloaded remote will retain memory if:** the batteries are replaced within 5 minutes of removal and **no keys** are pressed during battery replacement.

Otherwise, all “smart” infrared codes will be lost and the remote will have to be re-programmed.

If your batteries are improperly installed, acid leakage could occur, resulting in damage to the remote. If the battery light remains on constantly you should replace the batteries within 48 hours, as downloaded codes will be lost if the batteries run down completely.



## HD/PC SOFTWARE

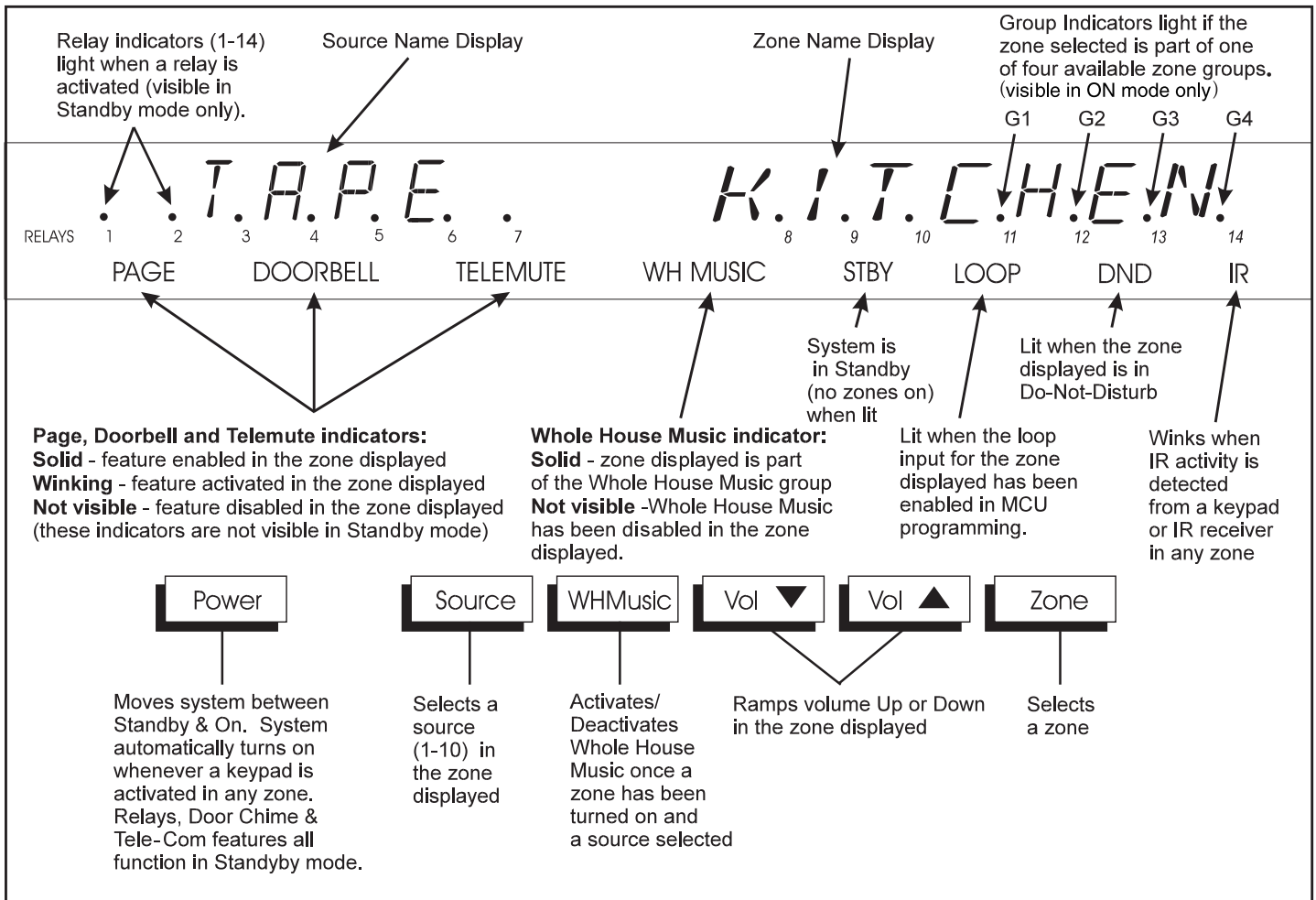
Your entire HD system can also be controlled from your home PC or Laptop computer with HD/PC software. Do to this, your MCU would need to have an HDC2040 Automation Control Card installed and a software version of 3900 or higher.

Features include an event timer which can be programmed to perform multiple system and source functions automatically at pre-designated times.

Consult your authorized ELAN dealer for further information.

## MCU FRONT PANEL CONTROL & FEATURE INDICATORS

Basic system control is also available from the front panel of the MCU. More importantly, there are numerous LED indicators on the front panel that can tell you the status of certain ELAN features and the status of a particular zone.



# ELAN TELECOMMUNICATIONS



ELAN Home Systems was the first to integrate a home's telephones into a whole-house audio/video system. Using the same speakers you have installed for quality multi-room music, and the telephones located throughout your home, ELAN Series HD not only eliminates the need for unsightly wall-mounted intercoms, but provides you with numerous other telecommunication features such as 2-way Door Speaker communications, Door Latch Activation, Relay Activation, Off-Hook Alert, and much more.

## PROGRAMMABILITY

Since your Series HD Master Control Unit is software-driven, your authorized ELAN installer can program all of the ELAN telephone features to suit your specific needs and lifestyle. Features such as Paging, Door Chime, Telemute, Off-Hook Alert and more can be enabled or disabled in any zone. The volume levels for Page and Door Chime can also be customized for each zone.

## THE TELEPHONE INTERFACE CARD

All ELAN phone features are initiated through the HDC1050 Telephone Interface Card. The special ELAN dial tone tells you which phones in your home are integrated with your HD system, and that the system is active. In the event of a power outage, or if the MCU is turned off, your regular telephone service will be available but all ELAN features will be inactive.

## MULTIPLE PHONE LINES

Only one telephone line will run to your ELAN system and carry your ELAN telecommunication features. Should you have multiple phone lines coming into your home, choose the one that you would most like to have these features on. The remaining lines will be connected directly to your multi-line telephones and will provide you with regular service.

## CALL WAITING

Your HD system is perfectly compatible with your telephone company's Call Waiting service. Depending on the service and the type of phones in your home, it may be necessary for your installer to adjust the "flash-hook time" in MCU programming for proper functionality.

## FAX MACHINE, MODEMS, ETC.

Although many fax machines, answering machines, caller ID boxes and modems work just fine with your ELAN system, we recommend that these devices be plugged into telephone wall jacks that are wired "in front" of ELAN to avoid any potential incompatibilities. Make sure to tell your authorized ELAN installer where these devices will be located. You may also opt to put some of these devices on their own dedicated phone line.

## SECURITY SYSTEMS

Security systems that utilize the same phone line that your ELAN system is on should always be connected “in front” of the ELAN system.

## DISABLE MODE

In the event that there is a failure of the HDC1050 Telephone Interface Card that prohibits your regular phone service from passing through, the system can be disabled from the front panel of the MCU by placing the MCU in Stand-By mode (press the POWER button), then simultaneously pressing the VOLUME DOWN, VOLUME UP and ZONE buttons. The TELEMUTE LED on the MCU's front panel will begin to flash rapidly, indicating that the system has been bypassed.

## TELEPHONE LINE SURGE PROTECTION

Telephone Line Surge Protection should always be used with any system that has the HDC1050 Telephone Interface Card installed in the MCU. This protection should be installed on both the incoming telephone line before it reaches your ELAN system and on the HDC1050 Phone Output. Make sure to ask your installer if this important device had been provided.

## TELEPHONE FEATURES

ELAN telephone features have been made as intuitive and user-friendly as possible. For example:

- To make a call, just pick up the phone and dial
- Paging is initiated by pressing #, P (7)
- Door Speaker communications are initiated by pressing #, D (3)
- You can mute the music with a #, M (6)

As you can see, the # key on your telephone is used to initiate all the ELAN phone features. Should you have a security system in your home that also requires the use of the # key for activation/deactivation/system check, your MCU can be reprogrammed by your ELAN installer to use the \* key to initiate ELAN phone features.

A complete listing of all the ELAN telephone commands is provided on the Series HD Quick Reference Card that came with your MCU. A copy of this card is also found on Page 16 in this manual.

**To simplify things even more, you can assign your ELAN phone features to Speed Dial numbers on your telephones. Now, a single key press can initiate a Page, Door Speaker Communication or a Relay.**

## TELEPHONE USAGE TIPS

### PAGING

There are two types of Paging—WHOLE HOUSE & ZONE-SPECIFIC. Your HD system can be programmed to Page in the manner that best suits your lifestyle:

- Whole House page only
- or both Whole House and Zone-Specific Page

## WHOLE-HOUSE PAGE

- If your system is programmed for Whole House Page only, pick up any phone and press #, P (7). Your page will be heard through the speakers in all the zones where paging is enabled. If there was music playing when the page was initiated, the music will mute in all the zones where paging is enabled.
- If your system is programmed for both Whole House and Zone Specific Paging, pick up any phone and press #, P (7), \*. Your page will be heard through the speakers in all the zones where paging is enabled. If there was music playing when the page was initiated, the music will mute in all the zones where paging is enabled.

## ZONE-SPECIFIC PAGE

- Pick up any phone and press #, P (7) and the zone number you wish to page to (i.e. #,P, 1 will page into Zone 1; #, P, 7 will page into Zone 7). Your page will be heard through the speakers in that zone only. If there was music playing when the page was initiated, the music will mute in that zone only. To page into Zone 10, press #, P, 0 (zero).
- You can add additional zones to a Zone-Specific Page by pressing P (7) followed by another zone number (i.e. press #, P, 1 to page into Zone 1; press P, 2 to add Zone 2 to the page; press P, 3 to add Zone 3 to the page). Do not use the # key when adding zones to a Zone-Specific Page as this will terminate the page.
- In HD systems with more than 10 Zones, an additional digit is needed for Zone-Specific Paging: #, P, 0, 1 will page into Zone 1; while #, P, 1, 1 will page into Zone 11.

## PAGING WITH A CALLER ON THE LINE

The phone rings. You answer it - and it's not for you. You want to page another person in the house: simply initiate a page as described above. The moment you pressed the # key you automatically put the caller on HOLD. Now you can:

- Hang up the phone. When the person you paged picks up any phone in the house the caller will automatically be there; or
- Press # again. This reconnects you with the caller, who you can now ask to hold on until the person you paged picks up. Now, press #, H (4). This puts the caller back on HOLD without initiating any ELAN features. You can now hang up the phone. When the person you paged picks up any phone in the house the caller will automatically be there.

## INCOMING CALLS WHILE PAGING

While in Page mode, if there is an incoming call you will hear:

- The phone ring every fourth time over the speakers in the zone you are paging to (or throughout the house if you are on a Whole-House Page).
- The phone ring every fourth time over the telephone handset of the phone you are paging from.

To access the incoming call press # or flash-hook. This will terminate the Page.

## PHONE-TO-PHONE INTERCOM

Following a Page command with a '0' (zero) will mute the page audio coming over your speakers and connect the phone you are on to all the other phone in the house. Now you can have phone-to-phone communications without your conversation being heard over the speakers. The '0' can be pressed by either the person who initiated the page, or by the person picking up another extension.

## INCOMING CALLS WHILE ON A PHONE-TO-PHONE INTERCOM

While in Intercom mode, if there is an incoming call you will hear the phone ring every fourth time over the telephone handsets. To access the caller press # or flash-hook. This will terminate the Phone-to-Phone conversation.

## MUSIC MUTE

Like Whole-House and Zone-Specific Paging, your HD system gives you the ability to MUTE the music throughout the entire house or in one or more specific zones from your telephone.

Once again, an intuitive key press initiates this feature: #, M (6)

- If your system is programmed for Whole-House Page/Mute only: #, M will mute all zones where music is playing.
- If your system is programmed for both Whole-House and Zone-Specific Page/Mute: #, M, \* will mute the entire house, and #, M followed by a zone number will mute a specific zone.
- In HD systems with more than 10 Zones, an additional digit is needed for Zone-Specific Muting : #, M, 0, 1 will mute Zone 1, while #, M, 1, 1 will mute Zone 11.

## #, 9 BYPASS

Pressing #,9 bypasses your ELAN system. This feature will come in handy when:

- Dialing out to an automated service that requires the use of a “#” to enter information (i.e. a bank or credit card company). #, 9 can be pressed before dialing out or any time after your call has been connected.

(continued)

- You are using an answering service provided by your phone company. To access the “stutter” dial tone your telephone company uses to indicate whether or not you have messages, you will need to press #, 9 first.

Hanging up the phone automatically reinstates your ELAN tel-comm features.

**Note: it is not necessary to press #, 9 before placing a regular call.**

## TELEMUTE

This feature mutes the music in a zone whenever the phone rings. The music comes back on when the phone is picked up. A programmable feature, Telemute can be disabled in any zone by your authorized ELAN installer.

## OFF-HOOK ALERT

Should a phone be left or knocked off the hook, after two minutes you will hear a double ‘beep’ broadcast through the speakers in your home. Placing the phone back on the cradle will deactivate the alert. This feature can be disabled (system-wide) by your authorized ELAN installer.



## DOOR SPEAKER COMMUNICATIONS

ELAN Door Speaker Assemblies provide you with two-way communications and door latch activation via your telephones, as well as ELAN’s whole house door chime, which is heard through the speakers throughout your home.

## WHOLE HOUSE DOOR CHIME

When someone presses the doorbell button located on the ELAN Door Speaker Assembly, ELAN’s two or three note door chime will be transmitted over the speakers in every zone. If there is music playing when the doorbell button is pressed, the music will mute for the duration of the chime. In MCU programming, your authorized ELAN installer can disable the door chime in any zone you do not wish to have it in. Door chime level can also be independently adjusted for each zone. The door chime will not be heard if a zone is in Do-Not-Disturb.

## DOOR SPEAKER COMMUNICATIONS

- #, D (3) initiates two-Way Door Speaker communication.
- #, D followed by a ‘0’ (zero) activates your door latch mechanism (DS1550 only)

**If you have multiple Door Speaker Assemblies in your system:**

- #, D connects you to Door Speaker 1
- #, D, 2 connects you to Door Speaker 2, etc.
- Following these commands with a ‘0’ (zero) will activate your door latch mechanism for that specific door (DS1550 only).

(continued)

- If you are on the phone when someone comes to your door, simply enter any of the above commands. The caller will automatically be placed on hold while you communicate with the door. To re-access the caller press # or flash-hook.
- If you are on a page when someone comes to the door you will need to terminate the page. Pressing #, D will automatically do this.
- If, while communicating with a Door Speaker assembly, there is an incoming phone call, you will hear the phone ring every fourth time over the telephone handset. To access the incoming call press # or flash-hook. This will terminate door speaker communications.

Your HDC1050 Telephone Interface Card has two different doorbells—a 3-note chime and a 2-note chime—enabling you to distinguish between, for example, front and back doors. Up to six more ELAN door stations or doorbell buttons, each with their own distinct electronic tone, can be added to your system via the HDC2042 Automation Control Card's six sets of Sense Inputs and Tone Broadcast capabilities. These additional tones, which are triggered whenever any type of contact (i.e. a doorbell button, a window sensor, a pressure-activated sensor) is either opened or closed, also have a wide range of security applications.

## HOME AUTOMATION VIA THE TELEPHONE (RELAY CONTROL)

In conjunction with ELAN's Relay Control Cards (HDC1040/HDC2040) your telephone can be used to activate multiple relay-controlled devices such as electronic garage door openers, sprinkler systems and lighting control modules. Up to six "momentary" relay-controlled devices per MCU can be controlled from your telephone by pressing #, 1, 1 for relay number one; #, 1, 2 for relay number two; #, 1, 3 for relay number three, etc.

There is a space provided on your Series HD Quick Reference Card for you or your installer to note what telephone key press will activate which relay

# TELEPHONE QUICK REFERENCE GUIDE

## ELAN Telephone Commands



<b>Whole House Page</b>	<b>#</b> , <b>7</b> , <b>*</b>	<b>"P"</b> for <i>Page</i> . Whole house page.
<b>Zone Page</b>	<b>#</b> , <b>7</b> , then press the number of the zone where you want your page to be heard. To add a zone press <b>7</b> , then the number of the zone you want to add. To return to the caller press <b>#</b> .	
<b>Whole House Mute</b>	<b>#</b> , <b>6</b> , <b>*</b>	<b>"M"</b> for <i>Mute</i> . Mutes music throughout the house, directly from the phone keypad.
<b>Zone Mute</b>	<b>#</b> , <b>6</b> , then press the number of the zone where you want to mute the music. To add a zone just repeat this step. <b>Note:</b> To unmute, you must hang-up the telephone receiver.	
<b>Hold</b>	<b>#</b> , <b>4</b>	<b>"H"</b> for <i>Hold</i> . Allows you to place caller on hold, hang up, and take the call on another phone.
<b>Phone-to-Phone Intercom</b>	<b>Page</b> , then press <b>0</b>	This allows you to talk with someone at another phone in the house, after a page, without the conversation being heard on the ELAN speakers.
<b>Door Speaker</b>	<b>#</b> , <b>3</b>	<b>"D"</b> for <i>Door</i> . Allows you to use a telephone to speak with someone over the door speaker.
<b>Multiple Door Speaker</b>	<b>#</b> , <b>3</b> , then press the desired door number (i.e. <b>#</b> , <b>3</b> , <b>2</b> to access Door 2; <b>#</b> , <b>3</b> , <b>3</b> to access Door 3, etc.).	
<b>Door Latch</b>	<b>#</b> , <b>3</b> , <b>0</b>	Activates the door latch relay. The relay operates as long as you hold the zero.
<b>Multiple Door Latch</b>	<b>#</b> , <b>3</b> , door number, then press <b>0</b> (i.e. <b>#</b> , <b>3</b> , <b>2</b> , <b>0</b> activates Door 2 latch) <b>Note:</b> <b>#</b> , <b>3</b> , <b>0</b> will always activate Door 1 latch.	
<b>Relay Control</b>	<b>#</b> , <b>1</b> , then press the numbered relay you want to momentarily activate (installer programming required).	
<b>System Bypass</b>	<b>#</b> , <b>9</b>	The System Bypass is necessary to use outside phone services that require using the <b>#</b> key.








**Note:** If you do not want zone paging and zone muting, your installer can deactivate these features to simplify the keystroke commands for whole house page and whole house mute. You then press **#**, **7** for whole house page and press **#**, **6** for whole house mute.

**Note:** If you have a caller on the line and you activate any of the ELAN features, the caller is automatically placed on hold.















**Note:** If other systems in your home (i.e. security) require the use of the **#** key for operation, your installer can change the ELAN phone features key to **\***.

TO BE FILLED OUT BY YOUR INSTALLER:

## HDP1000 SOURCE CONTROL KEY MAP

Source #	1	2	3	4	5	6	7	8	9	10
Source Name										
										
										
										
										
										
										
										

## HDP2000/3000 SOURCE CONTROL KEY MAP

Source #	1	2	3	4	5	6	7	8	9	10
Source Name										
 PLAY										
 STOP										
 REW										
 FF										
 PREV										
 NEXT										
 SPECIAL										
 SHIFT PLAY										
 SHIFT STOP										
 SHIFT REW										
 SHIFT FF										
 SHIFT PREV										
 SHIFT NEXT										
 SHIFT SPECIAL										

TO BE FILLED OUT BY YOUR INSTALLER:

# Z•100/150 SOURCE CONTROL KEY MAP

Source #	1	2	3	4	5	6	7	8	9	10
Source Name										

TO BE FILLED OUT BY YOUR INSTALLER:

## HDR2000 HANDHELD REMOTE CONTROL SOURCE CONTROL KEY MAP

Source #	1	2	3	4	5	6	7	8	9	10	11	12	13
Source Name	TUNER	CD	TAPE	VCR	LASER	CABLE	AUX1	AUX2	AUX3	AUX4	AUX5	AUX6	TV

## Ask Your Authorized ELAN Dealer About Products That Can Enhance Your System



### Z•FAN

#### MODULAR COOLING COMPONENT

Regardless of the make and model of your A/V equipment, one thing is consistent for all components— they perform better and maintain a longer life when kept cool! The dual fan design moves 150 cu. ft. of air per minute through your bookcase or rack quickly and best of all... quietly. A remote ON/OFF feature triggers the Z•FAN on when other components are in use.



### Z•300

#### TWO-CHANNEL POWER AMPLIFIER

This amplifier inherits the same quality design from the Z•660—but with more audio power! Able to handle multiple speaker pairs\* on just two channels, this 150 WPC amplifier delivers quality sonic performance regardless of your application. The integrated output topology design and high-current drive renders performance over the sound spectrum— from the deepest bass to the definitive vocals and detailed highs.

\*up to four pairs of 8 ohm speakers



### SPEAKERS & VOLUME CONTROLS

Designed for visual appeal as well as sonic accuracy, all ELAN speakers are well-matched with your system electronics, interior design, and ultimately....your critical listening requirements.

And consider ELAN's line of in-wall IR receivers and volume controls when a keypad is not quite what you want....or what you need. The ELAN patented "override" feature allows volume to be set independent of paging and doorchime



### CAMERA PACKAGE

Everything you need for CCTV security and distributed source video in one package!!! The high-quality indoor/outdoor, high resolution camera has a built-in microphone. Included is a 3-channel digital modulator that allows you to receive a clear, clean audio/video reception. Ask your dealer for more details on the CAM4200 Camera Package.

# Limited Warranty

ELAN HOME SYSTEMS, L.L.C. ("ELAN") warrants equipment manufactured by it to be free from defects in materials and workmanship for one (1) year from the date of purchase, with the exceptions of speakers and volume controls, which have a five (5) year warranty, and Z• products, which have a two (2) year warranty. If within the applicable warranty period above purchaser discovers such item was not as warranted above and promptly notifies ELAN in writing, ELAN shall repair or replace the items at the company's option. This warranty shall not apply (a) to equipment not manufactured by ELAN, (b) to equipment which shall have been installed by other than an authorized ELAN installer, (c) to installed equipment which is not installed to ELAN's specifications, (d) to equipment which shall have been repaired or altered by others than ELAN, (e) to equipment which shall have been subjected to negligence, accident, or damage by circumstances beyond ELAN's control, including, but not limited to, lightning, flood, electrical surge, tornado, earthquake, or any other catastrophic events beyond ELAN's control, or to improper operation, maintenance or storage, or to other than normal use of service. With respect to equipment sold by, but not manufactured by ELAN, the warranty obligations of ELAN shall in all respects conform and be limited to the warranty actually extended to ELAN by its supplier. The foregoing warranties do not cover reimbursement for labor, transportation, removal, °installation, or other expenses which may be incurred in connection with repair or replacement.

Except as may be expressly provided and authorized in writing by ELAN, ELAN shall not be subject to any other obligations or liabilities whatsoever with respect to equipment manufactured by ELAN or services rendered by ELAN.

THE FOREGOING WARRANTIES ARE EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESSED AND IMPLIED WARRANTIES EXCEPT WARRANTIES OF TITLE, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



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