

LIMITED WARRANTY

DCM Time Window Surroundscape Loudspeaker System

This DCM loudspeaker is intended for the reproduction of music in residential premises only and is warranted against defective materials or workmanship for a period of five years from the original date of purchase. This warranty extends to the original purchaser from an authorized DCM retailer only.

Defective parts will be repaired, adjusted or replaced with no charge for materials or labor if the purchaser returns the loudspeaker together with the original sales receipt or other proof of purchase at the purchaser's expense to DCM Corporation at the address below. Warranty work will be performed within a reasonable time and the loudspeaker returned to the purchaser at DCM's expense within the United States of America.

This warranty does not extend to equipment damage due to negligence, misuse, improper installation, shipping damage, abuse or accident.

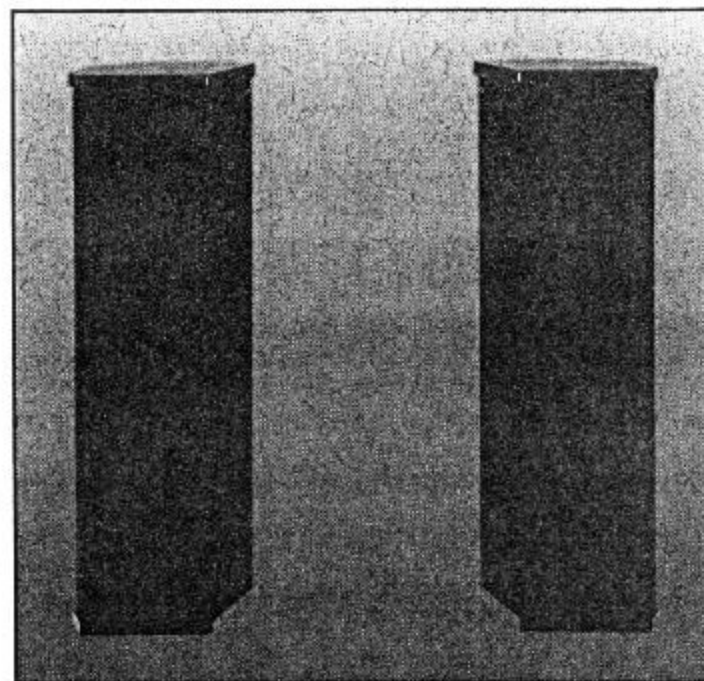
No implied warranties shall extend beyond five years from the original date of purchase. Incidental and consequential damages are expressly excluded from this warranty and may not be recovered by a purchaser as the result of breach of any warranty. Some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which may vary from state to state.

Please save the original carton and packing material. If you move or the loudspeaker requires service, pack the unit in this carton. Any damage in transit due to improper packing is not covered by the warranty and will not be recognized as an insurance claim by transportation companies.



Before you plug in...



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Prestidigital, Surroundscape and Shadow Driver Management System are trademarks of DCM Corporation.
Dolby Pro Logic and AC-3 are registered trademarks of Dolby Licensing Corporation. Due to our policy of continuous improvement, specifications are subject to change without notice.

**YOUR NEW TIME WINDOW SURROUNDSCAPE
AUDIO & HOME THEATER LOUDSPEAKERS**

INCLUDES SET-UP & OPERATING INSTRUCTIONS

INTRODUCTION

Thank you for choosing Time Window Surroundscape loudspeakers for your audio or home theater system. These speakers have been designed to deliver superior three-dimensional sound reproduction in stereo mode and deliver surround sound without extra surround sound speakers in the rear of your room. DCM's innovative Shadow Driver Management System lets you send both front and rear channel signals into the Time Window Surroundscape speakers, so you can enjoy theater-like sound in rooms where additional speakers are impractical or intrusive.

By reproducing both main/front and surround channel information with a left and right speaker, the Time Window Surroundscape speaker system can effectively increase the ambience of stereo recordings and maximize the potential of "Hall", "Matrix" and other digital sound processing effects. By adding the "surround" effect, most recordings will sound more spacious.

Your DCM Time Window Surroundscape speaker system:

- Includes two mirror-imaged Time Window Surroundscape speakers
- Is ideal for applications where rear channel surround speakers are impractical because of wiring inaccessibility, room space, or decor/design considerations
- Expands the perceived size of any listening room
- Enhances the excitement and scope of movies
- Adds greater depth and "live presence" to music
- Is compatible with current standards, such as Dolby Pro Logic and Dolby AC-3, and is ready for future digital sound processing technologies
- Has a contemporary/classic design that complements or accents a wide range of interior decor styles.

To obtain the best possible performance from these speakers, please read these instructions carefully before setting up your Time Window Surroundscape system. If you have any questions or need more information, contact your DCM retailer, or call us direct at 1-800-878-TIME between the hours of 9 a.m. and 5 p.m., Eastern Standard Time, Monday through Friday.

UNPACKING YOUR SPEAKERS

As you unpack your speakers, please note that the gloss-black tops are attached to the speaker body with plastic fittings. These fittings are designed to hold the top in place, but may break if you try to lift the entire speaker by the top. The correct way (for both the speaker and your back) is to lift the entire speaker cabinet from the bottom or use two people to maneuver your speakers into position. It may be easier to unpack the speakers by opening the cartons from the bottom, raising the speakers upright and lifting the cartons over the speakers. After you have unpacked your speakers, please remove the protective plastic wrapping from the tops.

⚠ CAUTION!

DO NOT LIFT THE TIME WINDOW SURROUNDSCAPE SPEAKER BY GRABBING THE GLOSS BLACK TOP. THIS COULD DAMAGE THE TOP.

Your Time Window Surroundscape speakers are designed to perform as a "mirror-imaged" pair. It is not necessary to have speakers with consecutive serial numbers. But it is essential that you have both a "LEFT" and "RIGHT" Time Window speaker. Inspect the back of each speaker, near the input connectors, to make sure you have one "LEFT" and one "RIGHT" speaker. After carefully unpacking your speakers, please save the cartons and the packing materials for possible use later. If a speaker appears to be damaged, please do not attempt to connect it. Repack it in its original carton and notify your DCM retailer.

CONNECTING YOUR SPEAKERS

Please follow these steps to connect the speakers to your amplifier or receiver:

- Turn off your amplifier or receiver and unplug it from the power outlet.
- Use 16-gauge or larger speaker wire for best results. Strip away approximately 1/2-inch of insulation from each wire conductor. Because the speakers have five-way binding posts, you may attach the wires to banana plugs and plug them in, or attach the wires directly to the speaker input terminals.
- Each Time Window Surroundscape speaker has both MAIN CHANNEL and REAR CHANNEL input terminals to accept signals from your amplifier or receiver's MAIN and REAR CHANNEL (SURROUND) output jacks. The MAIN CHANNEL speaker terminals are above the REAR CHANNEL terminals on the back of each speaker. (See Figure A)
- Make sure you connect the speaker wires from the MAIN output of the amplifier or receiver to the MAIN CHANNEL terminal of the speaker, and the speaker wires from the REAR CHANNEL (SURROUND) output of the amplifier or receiver to the REAR CHANNEL terminal of the speaker.

For both MAIN and REAR CHANNEL (SURROUND) connections follow these instructions:

- Connect one wire from the negative (black) terminal of the left speaker to the negative (-) terminal on the left speaker output channel of your amplifier or receiver. (NOTE: Most speaker wire is color coded or ribbed on one side for easy identification of the positive and negative leads.)
- Connect the other wire from the positive (red) terminal of the left speaker to the positive (+) output terminal of the left channel of your amplifier or receiver. Repeat these steps when hooking up your right channel speaker with the right channel of your amplifier or receiver.
- Plug in your amplifier or receiver, turn it on, position your speakers, and tune your system to obtain maximum enjoyment from your Time Window Surroundscape system.

Figure A

Each Time Window Surroundscape speaker has MAIN CHANNEL and REAR CHANNEL terminals. Connect your receiver's MAIN output to the MAIN CHANNEL speaker terminal and the REAR CHANNEL/SURROUND output to the REAR CHANNEL terminal.



⚠ CAUTION!
MAKE SURE THERE ARE NO LOOSE STRANDS OF WIRE TOUCHING EACH OTHER ACROSS THE SPEAKER TERMINALS. THESE CAN CREATE A SHORT CIRCUIT AND DAMAGE YOUR ELECTRONICS.

FUSE PROTECTION

A speaker can be damaged if the amplifier driving it should fail. Damage may also occur by playing music so loudly that it distorts. This can happen even with a low-powered amplifier. Although the Time Window Surroundscape speaker is a very robust system, and includes internal circuit breaker protection, fusing can provide additional protection, and may be recommended under certain operating conditions. To properly install a protection fuse (not provided), a fuse holder should be inserted in the positive (+) wire connecting the speaker to your amplifier or receiver. Use a 3 ampere, fast-blow Buss AGC Series or equivalent fuse.

POSITIONING SPEAKERS FOR OPTIMUM PERFORMANCE

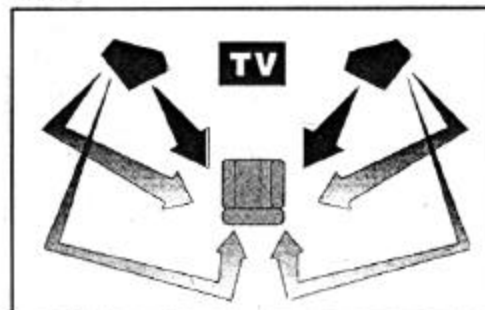
Each listening room has different acoustic characteristics. This means you will need to make several adjustments to how and where your Time Window Surroundscape speakers are positioned relative to your video monitor and to your side walls. Spending a few minutes at the beginning on speaker positioning will help ensure that you enjoy the optimum Time Window Surroundscape effect possible in your listening environment. With a little experimentation, you'll create not just a sonic "sweet spot" but a "sweet room" as well.

- **Positioning speakers relative to a TV screen.** Time Window Surroundscape speakers perform at their best when positioned within approximately three feet of each side of your video monitor. Remember to place the LEFT Time Window speaker cabinet on the left side, and the RIGHT Time Window speaker cabinet on the right side. (See Figure B) This will relate the sound to the visual cues on the TV screen. When your speakers are correctly positioned, the "Main" sound field will originate from the inside of the speakers and closer to the video monitor and the "Surround" sound field will be on the outside and closer to the side walls.

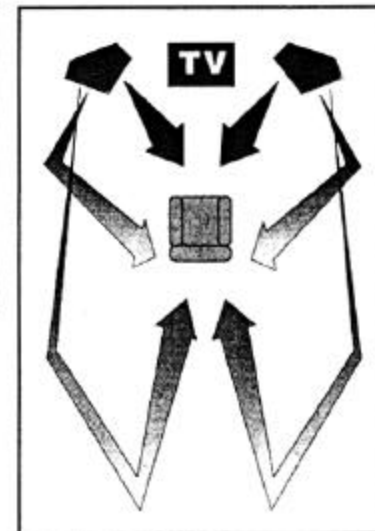


- **Positioning speakers relative to side walls.** Unlike conventional surround systems, the Time Window Surroundscape uses the side walls of your listening room to "bounce" the surround information to the appropriate locations in the room. This process provides a very even distribution of surround sound, not only to the rear of the listener but to the side as well. Your Time Window Surroundscape speakers must be positioned in such a way as to bounce the sound off the side walls for maximum surround effect. For best results, position your speakers away from doorways and remove any obstructions between the speakers and the side walls. (See Figure C below)

Figure C



WIDER ROOMS: Experiment with "toeing out" Time Window Surroundscape speakers for best speaker/side wall interaction.



LONGER ROOMS: Experiment with "toeing in" Time Window Surroundscape speakers for best speaker/side wall interaction.

TUNING YOUR SYSTEM FOR BALANCED SURROUND SOUND

You are now ready to use the test tones built into your surround receiver to tune your system. By following these basic steps, you will be able to hear the main, center and surround speakers independently of each other and balance your system for the best possible performance.

- Turn on the test-tone function of your receiver. Most receivers let you control this function with a remote control unit, so you can adjust your test tone volume and time delay settings from your listening position.
- Set your center channel volume to the "zero" reference. (NOTE: This reference point may have a different name, depending on the receiver manufacturer.)
- The standard Dolby Pro Logic surround sound time delay setting is 20 ms. Usually, this setting can be adjusted to be as low as 15 ms or as high as 30 ms. Because the sound is sent around the listener from the front, the Time Window Surroundscape system typically needs less rear channel time delay than conventional surround systems. Experiment with your time delay setting in combination with the rear channel output volume to achieve the most desirable results from your room and components.

- Adjust your rear channel volume so the test tone is apparent on either side and to the rear of your listening position, and the volume is balanced with the main and center channels. Generally, this setting is 3 to 7 dB higher than the main and center channel settings.
- If you perceive that the rear channel test tone is coming from above or between the main speakers, we suggest you reverse the speaker wires for one rear channel only. *This means removing the positive (+) wire connected to one of the positive (red) REAR CHANNEL speaker input terminals and connecting it to the negative (-) terminal, and connecting the negative (-) wire you just disconnected to the positive (red) terminal.*
- After switching the wires, the position of the surround test tone should be outside the main speaker and near the rear. Some rear channel receivers are wired out-of-phase for more dramatic surround results. However, this process does not always work well for the Surroundscape effect.
- Your complete Time Window Surroundscape system should now be tuned and balanced for optimum surround sound performance in Dolby Pro Logic mode. If the sound energy is still not distributed to appropriate locations in the room, experiment further with the position of the loudspeakers. Turn the loudspeakers to change the angle of the sound hitting the walls and listen for the sound to "lock in". This will then be the optimum position for surround sound performance in your room. If you want to use your system to play music, try other main channel parameter adjustments, such as "Hall", "Theater", "Matrix" or other settings available on your receiver.

IF YOU ALREADY HAVE SURROUND SPEAKERS

If you already have a conventional surround sound system, you may use your Time Window Surroundscape speakers to provide front, or main channel, and "side fill" information. By wiring the Rear Channel inputs in parallel with your existing surround speakers, you can effectively generate a 360-degree sound field. This enveloping effect is similar to what you'll hear in many of the newer movie theaters.

SPEAKER MAINTENANCE

The speaker tops and bases may be cleaned by wiping with a soft, damp cloth. If necessary, you may use a light household cleanser or a light wax cleaner. Avoid all acetone-based cleaning products. Wipe dust from the grille with a piece of felt or vacuum carefully to remove dirt or pet hair. Do not place the speakers near a radiator or other heat sources, such as direct sunlight. Excessive heat will make the finish fade over time.

TROUBLESHOOTING & OBTAINING SERVICE

DCM loudspeakers have a history of extremely high reliability. If, however, your Time Window Surroundscape speakers are not working properly, e.g. no sound coming out of drivers, etc., please inspect all your connections and review the instructions in this booklet. If you still have problems, please contact your DCM retailer. If this is inconvenient, please contact DCM Corporation directly. We recommend that you keep your cartons and packing materials. In the event you need to transport or ship the speaker for service, it will help prevent damage to the speaker during transit.

TECHNICAL SPECIFICATIONS

Driver Configuration:	(1) Direct-firing 6-1/2" polypropylene woofer (1) Ambient field 6-1/2" polypropylene woofer (2) Coaxially mounted 3/4" hard dome tweeters mounted in anti-diffraction acoustic lenses (2) Rear-firing 3/4" hard dome tweeters
Sensitivity (2.83V @1m):	92 dB
Usable Power Range:	50 to 250 watts
Video Shielding:	Drivers magnetically shielded to minimize video interference when in close proximity to TV screen
Direct field frequency response:	35 Hz to 20 KHz (Stereo and surround mode)
Ambient field frequency response:	80 Hz to 20 KHz (Surround mode)
Ambient field frequency response:	35 Hz to 20 KHz (Stereo mode)
Crossover:	DCM PrestiDigital™ time equalization circuitry
Nominal Impedance:	6 ohms
Enclosure Type:	Transmission line with rear ports
Cabinet Dimensions:	12"D x 15-3/4"W x 40-3/4"H
Weight:	43 lbs.
Finish:	Black wraparound grille, gloss black solid top & base

3/4" tweeters
in acoustic lenses,
coaxially mounted
over 6-1/2" woofers



FRONT VIEW



BACK VIEW

Rear-firing
3/4" tweeters

Transmission
line port

Main and Rear
Channel input
terminals