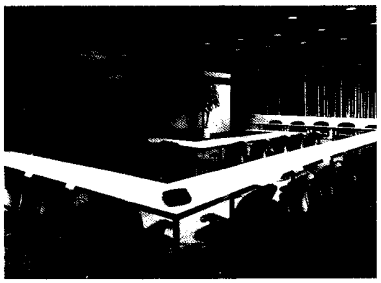
Beyond Home Entertainment

Along with its powerful applications in home media systems, the 700t is equally vital for corporate board rooms, screening rooms or teleconferencing centers where simple, intuitive controls are critical to enhancing productivity. The Lexicon 700t is customized for each installation, ensuring that complications encountered when interfacing different media and formats become transparent to the people actually using the equipment. Even complex multi-media presentations can follow the discussion instead of leading them. Your system designer can help you integrate all your remote controlled devices into one sleek, integrated system.



From the boardroom to the living room, the Lexicon 700t Media System Controller offers total media control for your business presentation needs as well as home entertainment lifestyle.

Technical Information

The 700t touchscreen is a programmable GUI touchscreen IR capture remote controller. Programming is performed by your dealer or installer using a PC. The internal Ni-Cad battery pack provides two to three hours of actual run time (time that the screen is lit), which means it can be used for days before recharging is required. The unit will still operate during the recharging process and it can be left connected to the power supply. On-board power management controls recharging and prevents complete discharge and overcharging, while all user programs are protected via a lithium backup cell.

700t SPECIFICATIONS

Display Size:	5.0" X 2.7" (127 X 68 mm)	***Backlight:***	Dual CFL w/Three Level Brightness Control
Power:	6 volt internal battery pack		
Infrared Control Range:	30 feet (9.0 M) @ 60°	***Power***	
Infrared Carrier Freq. Range:	20 kHz to 460 kHz	***Consumption:***	1,000 mA Max (Run Mode) 175 mA Max (Stand-by Mode) 700 µA Max (Powerdown Mode)
Direct Hard-Wire Control Range:	500 ft. (#22 AWG shielded wire)	***Nominal Run-Time:***	3.5 Hrs (Medium Backlight)
RF Range w/Optional Receiver Module:	Approx. 100 ft.	***Communications:***	PC-compatible RS-232 port
Display:	256 X 128 STN (Blue on Paper White)	***Dimensions:***	9.0" W x 5.3" D x 3.5" H (229 x 135 x 89 mm)
		Weight:	2.4 lbs.

All specifications subject to change without notice.

lexicon

HEARD IN ALL THE RIGHT PLACES

A Harman International Company

Inside center photo courtesy of Crestron

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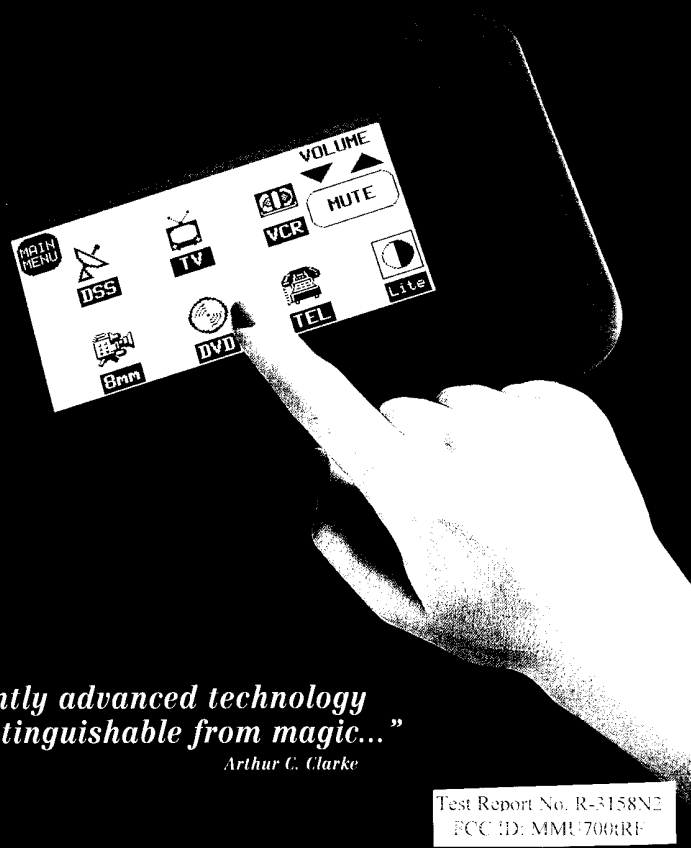
lexicon

700t

Media System Controller



"Any sufficiently advanced technology is indistinguishable from magic..."
Arthur C. Clarke

Test Report No. R-3158N2
FCC ID: MMU700RF

Magic

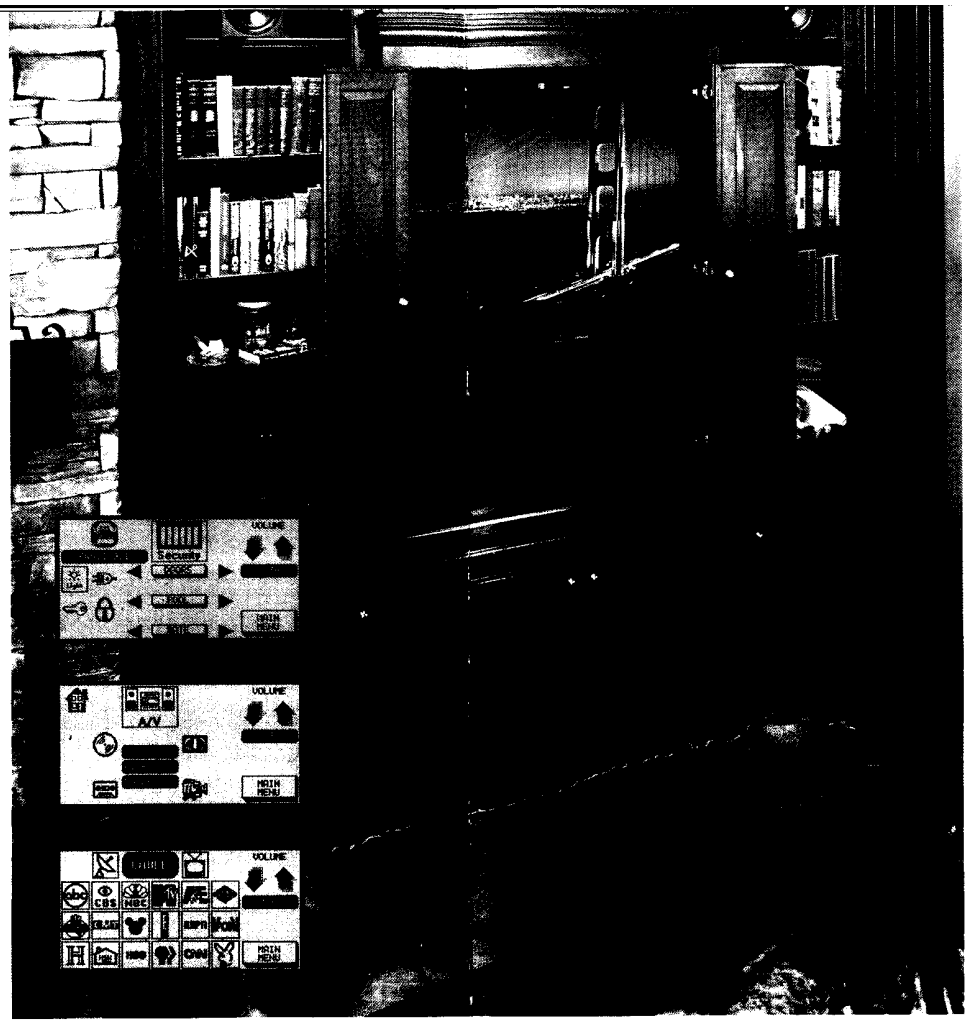
In the early days of television and stereo, there was magic in the technology – you simply turned it on and were transported away. Today, your equipment is better than you ever dreamed possible, but the magic seems to disappear into a mass of confusing buttons and lights. Until now.

The **700t Media System Controller** from Lexicon brings the magic back to today's sophisticated systems. It eliminates the clutter of remote controls strewn about the living room and lost under cushions. It lets you take control of your media system. Simply. Elegantly. Totally. Imagine a media system that integrates equipment so effortlessly that it seems to anticipate your every need. A system that works the way you think. The 700t's operation is custom-designed for each installation, ensuring that your equipment operates the way that you think it should.

The Total Package

The 700t is a programmable touchscreen computer that provides wireless control over your entire home entertainment system. Like other "universal" remotes, the 700t consolidates the functions of many independent remote controls into one unit. However, the 700t also incorporates a unique graphical interface, powerful multi-step macros, and legible, intuitive controls.

While the technology behind the 700t is very complicated, operating it is incredibly easy. The 700t can learn and transmit as many as two dozen commands with the touch of a single button. For example, one button labeled *MOVIES* can be programmed to power up a video projector, lower the screen, turn on the audio system, start the laser disc player, put the surround processor in THX® mode, and dim the lights. All you have to do is push the button.

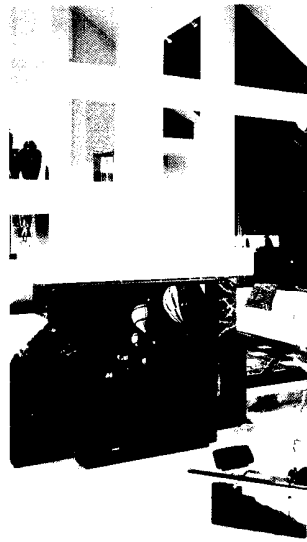


Compatibility

Your home electronics system doesn't have to be limited to products produced by a single manufacturer just to minimize the number of remote controls. Now you can choose the equipment that is right for you, and be assured that the 700t can control it. And if you change or add a new piece of equipment, the 700t can easily be updated to grow along with your system.

The 700t's elegant design is as comfortable in a high-tech boardroom as it is in a custom-designed home theater. Intelligent human engineering makes operating even very large, complex systems simple enough for anyone. You can file away all those manuals, remotes, and technicians' phone numbers.

Regardless of your personal style, traditional to contemporary, the 700t will complement your good taste.



The 700t's large, backlit graphical touchscreen offers one-touch control over all your high-tech systems.

EXHIBIT 3

Technical Description

Para. 2.1033(b)(4)

Technical Report 2.1033(b)(4)

Customer:	Lexicon, Inc. 3 Oak Park Bedford, MA 01730-1441
Applicant:	Remote Technologies Inc. 10250 Valley View Road Suite 149 Eden Prairie, MN 55344
Equipment Manufacturer:	EI Microcircuits 1651 Pohl Road Mankato, MN 56001
FCC Identifier:	MMU700tRF
Operating Instructions:	See Exhibit 5
Trade Name:	Not Applicable
Model Number:	700t
Additional Model Numbers and Trade Names:	Not Applicable

700t RF FUNCTIONAL CIRCUIT DESCRIPTION

Purpose of the 700t

The intended use of a 700t unit is to transmit IR, (infrared) control signals to home electronic devices. These devices include VCRs, laser disc players, TV cable boxes, audio surround decoders, televisions, etc. The 700t contains a touch screen display and is a custom programmable device. The touch screen display is programmed with the users set of electronic equipment and the parameters that can be controlled. The user interface on the touch screen display is also custom programmable. The 700t is then programmed with the IR control signals for each electronic device that the user desires to use.

700t Transmitter

When the user interface for the electronic devices to be controlled and the IR control signals have been programmed into the 700t it is ready for use. When a user presses on the touch screen to transmit, for example to start the play control on a VCR, the microprocessor, 80C320, senses the push via a PPI, 82C55. The IR control signal corresponding to that location on the touch screen is then pulled from the battery backed SRAM. When the IR control signal is identified the control signal is then routed to the RF transmitter board. The control signal is modulated on the RF transmitter board and output.

700t Antenna

The antenna on the 700t is a straight piece of wire 3.25" in length, soldered to the RF module, completely internal to the chassis and not easily accessible.

Receiver

The receiver module demodulates the RF to acquire the IR control signal. The IR control signal is then routed out to a connector on the receiver and is now available to the home electronic devices.