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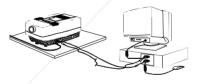
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FAST TRACK XGA LCD MULTIMEDIA PROJECTOR

SETTING UP

- 1. Place the projector on a stable, hard surface at the desired distance from the projection screen.
- Connect the computer source equipment to the computer connector port of the LCD projector.
- Connect video sources if required, using the supplied A/V cable. If necessary use SCART adapter.
- Connect one end of the mouse cable marked 'LCD' into the mouse port on the LCD projector and the other end marked 'MA' (Mouse Adapter) into the appropriate mouse adapter, determined by which mouse type you are using.
- Ensure the ventilation grills on the LCD projector are not obstructed. Apply mains power to the projector. Remember to switch on the unit at the Power ON/OFF switch!
- 6. Apply mains power to the various items of source equipment.



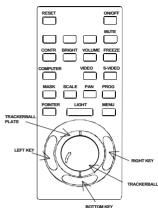
Improper use of this LCD projector may cause a risk of damage or personal injury due for example to electric shock or the streng light source. Detailed safety instructions are given in the user guide and these must be followed at all times.

THE TRUSTED SOURCE FOR PROJECTOR

·--- P

USING THE REMOTE CONTROL

ENGLISH



The key functions explained:

KEY	FUNCTION		
RESET	Defaults to the standard		
	settings for active source		
ON/OFF	Turns the projected image		
	ON/OFF.		
CONTR	Alters the contrast of light		
	and dark colors.		
BRIGHT	Alters the brightness.		
VOLUME	Volume up/down		
FREEZE	Holds the image projected		
	on the screen		
COMPUTER	Computer source active.		
VIDEO	Video source active.		
S-VIDEO	S-video source active.		
MASK	Applies mask to the image.		
SCALE	Direct 1:1 mapping/scaling.		
PAN	Allows panning within		
	oversized images.		
PROG	Programmed menu		
	selection		
POINTER	Applies a trackball-controlled		
	pointer to the screen.		
LIGHT	Keys are illuminated.		
MENU	Activates the menu system.		
TRACKBALL	Simulates the actions of the		
LAMPS	desktop mouse.		
LEFT KEY	Emulates left mouse key.		
RIGHT KEY	Emulates right mouse key.		
BOTTOM	Click-and-hold function		
KEY	(drag).		

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1 SYMBOL DESCRIPTIONS



DANGEROUS VOLTAGE

This symbol is intended to alert the user to the presence of uninsulated "dangerous voltages" within the product housing that may be of sufficient magnitude to constitute a risk of electric shock to persons.



WARNING

This symbol is used on the product to alert the user of important operating and maintenance (servicing) instructions, and also used in the product literature to indicate important safety-related information.



HOT

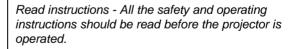
This symbol is used on the product to make the user aware of hot surfaces, i.e. fan ventilation grill.

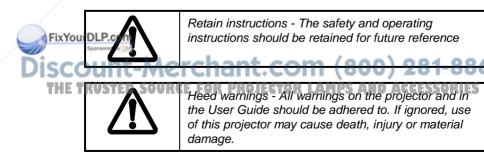


NOTE

This symbol is used in this publication to highlight information for the user.

2 SAFETY INSTRUCTIONS







The normal operating life for the lamp is 750 hours. High-pressure lamp may explode if improperly used. Refer all servicing to authorized personnel only.

- 1. **Water and Moisture** The projector is designed for indoor use only and should not be used near water and moisture.
- Carts and Stands Place the projector on a stable, hard surface in a manner that does not obstruct ventilation ports and openings in the cabinet. Unstable carts, stands, tables, etc. may cause the projector to fall, which may cause serious injury to people and/or the projector.
- 3. Ventilation Slots and openings in the cabinet are provided for ventilation. To ensure reliable operation of the projector and protection from overheating, do not block or cover slots and openings in any way. Do not place the projector on any soft surface or close to a heating source, radiator, etc. Never install the projector in an enclosed unit.
- 4. **Heat** The projector should be situated away from heat sources such as direct sunlight, radiators, stoves or other strong heat sources.
- 5. Power Sources The projector must only be connected to proper electrical voltage as marked on the projector body. The projector should be connected to electrical outlet using a power cord compatible with the local electrical voltage. If you are not sure about the type of electrical service at your location, consult your projector dealer or local power company.
- 6. **Power Cord Protection** Power cords should be routed so that they are not likely to be walked on, pinched or unduly bent by items placed upon or against them. Pay particular attention to cords and cables at the point where they exit from the projector.

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- 7. **Cleaning** The projector should be cleaned only as recommended, see the Maintenance section. Disconnect the power cord from the power outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
- 8. **Non-use Periods** The power cord of the projector should be unplugged from the outlet when left unused for a long period of time.
- 9. **Damage Requiring Service** The projector should be serviced only by authorized service personnel when;
 - the power supply cord or the plug has been damaged,
 - objects have fallen, or liquid spilled, into the projector,
 - the projector has been exposed to water or condense,
 - the projector does not appear to operate normally (fan not working, noise, smell, smoke, heat etc.)
 - the projector has been dropped or damaged.
- Object or Liquid Entry Care should be taken so that objects do not fall into the projector casing. Be careful not to spill liquids into the inside of the projector. Do not insert metal or flammable objects into the projector.
- 11. **Servicing** The user should not attempt to perform unusual or technical service to the projector. Do not open the unit. Refer all servicing to authorized service personnel.
- 12. **Grounding or Polarization** Precautions should be taken so that grounding or polarization of a projector is maintained. Do not use a three prong to a two prong adapter.



To prevent electric shock, do not use the polarized ac plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

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14. Lamp Replacement - Do not attempt to replace lamp. Contact an authorized service centre for lamp replacement.

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES 15. Abnormality - If you detect an abnormal smell or smoke, immediately turn off the power switch. Disconnect the power plug from the power switch to prevent fire or electric shock.

- 16. Lifting/moving When the projector is to be moved, let the unit cool down completely, cover the lens, disconnect the power plug from the power outlet and disconnect all external cords and cables to prevent damage that may cause a fire, electric shock, etc. Be careful when lifting and carrying the unit as it is heavy.
- 17. Lamp Beam Do not look directly into the projector or lens when operating the projector. The lamp emits rays which may cause eye injury and/or sunburns.
- 18. Electrical Shock To reduce risk of electrical shock do not open the unit. Refer all servicing to authorized personnel only.



3 INTRODUCTION

The first time user will be introduced to the XGA LCD multimedia projector and its capabilities through easy-to-read text and illustrations. Then a stepby-step illustrated connection procedure leads you through to problem-free operation.

For the more experienced user, the later sections of this manual provide a handy reference guide to help you get the most out of your LCD projector.

3.1 YOUR LCD PROJECTOR

Congratulations on purchasing this state-of-the-art, high resolution LCD projector. This projector can be connected to most computer and video sources, for the best projection results and maximum compatibility.

The XGA LCD multimedia projector displays bright vivid images in 16.7 million colors simultaneously, at XGA resolution, making it the ideal choice for presenting computer generated text and graphics, as well as live video with full sound capability.

Applications include multiple-menus and typical Windows and Workstation environments, including Internet applications and CD-ROM based multimedia presentations in any situations where a small or large audience shares information.

Please spend some time reading this manual to get familiar with the product, so that you can get the most out of your new LCD projector.



4 MAIN FEATURES

The unit employs the following important features that in total provide you with a highly functional and powerful projector:

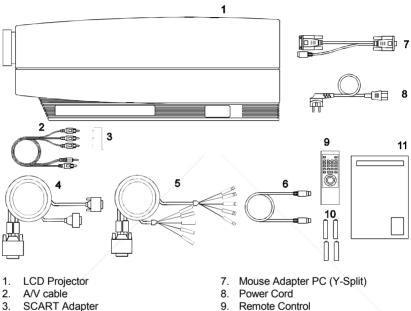
- High brightness 575 Watt illumination system
- True XGA 1024 x 768 resolution
- 640 x 480 to 1280 x 1024 image compatibility
- 16.7 million colors
- 2 x 5 W stereo High Fidelity sound system
- Trackball remote control
- On screen display (OSD) and menu system
- User's source settings memorized
- Low noise cooling system
- False light blocking
- Prepared for ceiling mounting



SUPPLIED MATERIAL 5

5.1 WHEN YOU OPEN THE LCD PROJECTOR PACKAGE

A complete set includes the following components :



- VGA/XGA V-Split Cable 4
- BNC V-Split Cable 5.
- Mouse Cable 6.

- 9. Remote Control
- 10. Batteries
- 11. User Guide

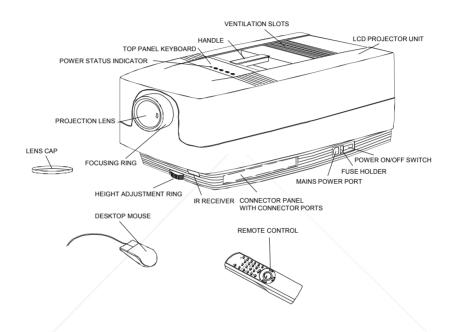
5.2 **OPTIONAL MATERIAL**

Optional cables, adapters and accessories are available. Consult your FixYourdealer for further information.

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5.3 GLOSSARY

Take a closer look at the LCD projector itself. The following terms are used throughout this user guide to identify the different parts of the LCD projector, or to refer to certain ancillary items.





6 SETTING UP THE LCD PROJECTOR

6.1 SAFETY PRECAUTIONS

Switch off all equipment before connecting together the various items. Be aware of static electricity that may build up, especially in the dry season and when operating on synthetic carpets. Discharge any static electricity by touching a metallic surface before you start.



Do not cover the ventilation grills in front and on top of the projector housing, as this will prevent cooling. Also make sure to place the projector on a flat, hard surface to avoid blocking the air inlet at the bottom of the unit. A thermal safety switch will cut off the illumination system if the ventilation is reduced.



Do not connect any devices or cables other than those supplied with the LCD projector into the connector ports on the projector unit, even if the connector ports appear identical, as this voids any warranty and may cause permanent damage to the projector, and to the connected source apparatus.

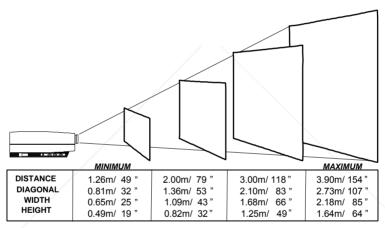


6.2 ARRANGEMENTS IN THE PROJECTION ROOM

Place the LCD projector on a table, or other stable hard surface, at the distance required to give the desired size of projected image on the wall.

The image should be projected onto a flat surface screen with high reflectivity to get a bright and undistorted image.

The best viewing results are obtained in a dimmed room with no direct sunlight shining in. Try to ensure also that the projected image is visible to the whole audience by placing source equipment where it will not obscure viewing. The LCD projector is provided with extra long cables for this purpose.



(Actual projection distances and screen sizes may vary)



6.3 SELECTING ADDITIONAL ADAPTERS AND CABLES

The projector is compatible with a wide variety of computer and video sources, utilizing many different connectors. To be able to connect to these various sources, a set of cables and cable adapters are provided.

6.3.1 FOR YOUR COMPUTER SOURCE

USER GUIDE

The projector is supplied with one VGA type and one BNC type cable. Optionally, adapter kits for Macintosh and 13W3 type computers are available.

The VGA cable can be connected directly, or using a cable adapter, depending on the type of connector used on your computer. See the table below. One adapter is fitted at the computer end, the other adapter is fitted at the monitor end.

The BNC cable may be used with computers with various connectors on the computer side, but with a BNC type connector on the monitor. Use the monitor cable, supplied with your computer, to connect to the BNC cable at the computer end. The monitor branch connects directly to the BNC connectors on the monitor.

COMPUTER	ADAPTER
PC or compatible fitted with a VGA, SVGA, XGA or SXGA graphics adapter	No adapter required. Connect directly using VGA cable.
Macintosh	Set of two MAC adapters with VGA cable
Workstation with 13W3 type connector on graphics adapter	Set of two 13W3 adapters with VGA cable
Workstation with BNC connectors (on monitor) and various connector types on graphics adapter	No adapter required. Use original monitor cable (supplied with your computer) to connect to computer end, then connect other branch to monitor.



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THE TA combined composite video and stereo sound cable (the AV cable) is ES supplied standard with your projector. This cable connects directly to phono connectors on the video source. A SCART adapter is also supplied that fits the AV cable.

USER GUIDE XGA LCD MULTIMEDIA PROJECTOR

S-video is connected using an optional cable. S-video can potentially provide better video quality, as the color and luminance signals are separate. Composite video, where the two signals are superimposed, yields less resolution in image detail.

For RGB video, use the VGA or BNC cable. RGB should potentially yield the best video signals, since the primary colors are completely separate.

6.3.3 FOR YOUR MOUSE

The mouse cable is connected through appropriate adapters according to the table below.

MOUSE	ADAPTER	Y-SPLIT	AVAILABILITY	DRIVER
Microsoft serial	PC	Yes	Supplied	Microsoft or 100%
mouse compatible	Serial	No	Option	compatible driver.
Macintosh ADB-bus mouse	MAC	Yes	Option	Self- detecting
PS/2	PS/2	No	Option	Self- detecting



6.4 MAKING THE CABLE CONNECTIONS

- 1. Place the projector on a stable, hard surface at the desired distance from the projection screen.
- 2. Connect the computer source equipment to the computer connector port of the LCD projector:
- PC: Insert the end of the VGA cable marked 'LCD' into the COMPUTER connector port on the LCD projector. Connect the connector marked 'Monitor' onto your monitor cable, and the connector marked 'VGA', into the VGA port on the PC unit. If you do not intend to use a monitor then just leave the short cable section unconnected.
- MAC: Follow the above sequence, but insert applicable MAC cable adapters as marked at the computer and monitor ends of the VGA cable.
- WS: Follow the above procedure, but either use BNC type cable, attach directly to monitor and through your original monitor cable to computer, or alternatively use VGA cable and 13W3 adapters at computer and monitor ends.
- Connect video sources if required, using the supplied A/V cable. If necessary use SCART adapter.
- 4. Connect one end of the mouse cable marked 'LCD' into the mouse port on the LCD projector and the other end marked 'MA' (Mouse Adapter) into the appropriate mouse adapter, determined by which mouse type you are using.
- 5. Ensure the ventilation grills on the LCD projector are not obstructed. Apply mains power to the projector. Remember to switch on the unit at the Power ON/OFF switch!

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6. Apply mains power to the various items of source equipment.

Your LCD projector is now fully connected up. Before use for your presentation, refer to the next section on *Image Adjustments* to attain the highest quality of projected image.

6.5 IMAGE ADJUSTMENTS

The infrared remote control is the main user interface by which the device settings are adjusted. The remote control keys are used to adjust the settings of the LCD projector correctly, either directly or through the menu system, so as to achieve the best possible viewing conditions.

Set-up should be performed once with the source(s) you are using most frequently. Allow some minutes for the unit to warm up before adjusting the settings. Many settings will automatically be memorized individually for each source for future use (see *Using the LCD Projector*).

		OPERATION
	LENS	• Use focusing ring on projection lens to sharpen the image on the screen. $\longrightarrow \qquad $
	FREQ	 Select FREQUENCY in the MENU. With data from a source displayed on-screen, set the background to a chequered pattern 50% grey (direct mode 1:1 uncompressed). If the frequency is set wrongly, vertical unstable bands will be visible in the image (see illustration). Adjust with the trackball to remove all the vertical bands (see illustration).
XYourD So CO HE TR	LP.com unsored by M USTED SOUI	erch- erch- ice Fox projector Lamps And Accessories

Γ		OPERATION
-	TUNE	 Select TUNING in the MENU. Adjust the tuning using the trackball to stabilize the image. Preferably all the "sideways swimming" lines should be removed (see illustration).
-	SCALE	 If your computer source resolution is not exactly 1024x768, you can select SCALE. This will scale the source resolution to fit the LCD screen resolution by adjusting the number of vertical and horizontal pixel lines at intervals throughout the image.
	POSITION	 Select POSITION in the MENU. Adjust using the trackball until the full image lies within the viewing area (see illustration). If the positioning goes too fast, try to alter the trackball sensitivity under options.
FixYourDL spender Discourthe TRU	P.com servet by M Int-Me ISTED SOUT CONTR	Chant.com (800) 281-8860 (RE FOR PROJECTOR LAMPS AND ACCESSORIES • Adjust using the contrast up/down keys for optimum image quality

	OPERATION	
BRIGHT	 Adjust using the brightness up/down keys for local lighting conditions. 	

The procedure for video sources is similar to that for the computer sources as described above, except for TUNE which is not required. Follow the same procedure using a video which is colorful, or at least bright, across the width of the image instead of a 50% grey background as described here for computer sources.

For video sources these additional settings may be required:

COLOR	To enhance the color saturation of video images you can:
	Select COLOR in the menu.
	• The setting can be altered using the trackball.
TINT	To enhance the hue of NTSC video (only) images you
	can:
	Select TINT in the menu.
	The setting can be altered using the trackball.
SHARP-	To enhance the sharpness of the lines in a video image
NESS	you can:
	Select SHARPNESS in the menu.
	The setting can be altered using the trackball.

Your LCD projector is now fully set up and ready for use. If you experience any problems in carrying out this set up procedure you should refer to the section called *Trouble-shooting* found later in this user guide.

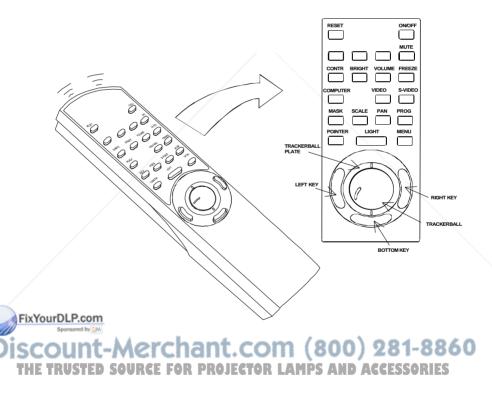


7 USING THE LCD PROJECTOR

The LCD projector has a set of features and functions with which you need to be familiar with in order to operate the unit efficiently and to allow you to make a smooth, problem-free presentation.

7.1 TRACKBALL REMOTE CONTROL

The trackball remote control is the main user interface with the projector. The remote control is used to set the LCD projector correctly so that the best viewing conditions are achieved, and also to control your presentation. The functions performed by the keys on the remote control are described below.



USER GUIDE

The MEM column indicates whether the function setting is memorized for the source apparatus for future use.

KEY	FUNCTION	KEY TYPE	MEM
RESET	Defaults to the standard settings for the active mode.	single touch activated	-
ON/OFF	Turns off the light, and places the projector in standby mode.	toggle	-
CONTR	Contrast is the ratio between light and dark colors.	scale (up/down arrows)	Yes
BRIGHT	Brightness (whiteness) of the image can be altered to suit local lighting conditions.	scale (up/down arrows)	Yes
VOLUME	Volume of the audio output can be altered to suit local conditions.	scale (up/down arrows)	Yes
FREEZE	Holds the image projected on the screen. This feature can be used to hide actions on the computer that the audience need not see, such as changes	any key to release	No
	between software packages, or for returning the audience's attention back to the presenter!		
COMPUTER	Selects the computer as the active source.	single touch activated	
VIDEO	Selects video as the active source.	single touch activated	
	Selects S-video as the active source.	single touch activated	
MASK	Applies a mask to the	toggle	1

	KEY	FUNCTION	KEY TYPE	MEM
	SCALE	Selects direct 1:1 mapping or scaling of images. Scaling not applicable in 1024 x 768 mode.	toggle	No
	PAN	Allows panning within oversized images using the trackball. Use the trackball to show different areas of the image.	trackball movements	-
	PROG	This key may be programmed to one of the menu controls.		
	POINTER	Applies a trackball controlled pointer to the screen. The appearance of the pointer can be changed in the options menu (cross/ball/arrow).	toggle	No
	LIGHT	Illuminates the keys for 4 seconds.	toggle	No
	MENU	Activates the menu system.	toggle	No
	TRACKBALL	The trackball simulates the actions of the desktop mouse to control the computer cursor.	trackball movements	-
	LEFT KEY	Emulates the left mouse key. Once the menu is accessed selection are confirmed using LEFT.		-
	RIGHT KEY	Emulates the right mouse key.		-
Disco	RETTOM	This emulates the 'click- and-hold' (drag) function of the desktop mouse. Use BOTTOM key instead	(800) 28	1-880
THE T	RUSTED SOUI	of LEFT when connected A to a Macintosh computer.	IPS AND ACCES	SORIES

7.2 TOP PANEL KEYBOARD

A reduced set of controls are available from the keyboard on the top of the LCD projector. The controls are TUNE, BRIGHTNESS and RESET. See the infrared remote control chapter for detailed descriptions of each control.

7.3 THE MENU SYSTEM

The menu system was developed to gain access to functions not often used, as opposed to frequently used features that are directly available through the remote control.

Press the MENU key on the remote control to invoke the menu system. When the menu is active, the cursor keys are used to navigate between options (and can therefore not be used for mouse control etc. at the same time). The LEFT key is used to activate or deactivate an option.

The PROG key may be assigned to any of the relevant menu options.

Toggle functions (like OSD) are tagged when active and untagged when not active.

Increase/decrease functions (like TUNE and FREQUENCY) are adjusted using the trackball. OSD is used to indicate the actual setting.

The MENU key is toggling the menu on and off. The menu is also switched off after one minute of no action. Most selections are memorized, unless otherwise noted.

The main menu selections SETUP, PICTURE, SOUND, OPTIONS and HELP are explained in detail below.

Features only available with some sources are shown in light *italic* characters in the menu illustrations, while generally available functions are shown in bold characters.

7.3.1 THE SET-UP MENU SELECTIONS

FixYour PURE used to stabilize the image. An untuned image can be seen as sideways instability or "swimming". The TUNE function has no effect in VIDEO mode.

THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES FREQUENCY is provided in order to adjust to special graphic cards that are not in the compatibility list. Generally, an incorrect frequency setting can be observed as an image too wide or too narrow, combined with vertical, unstable bands. **POSITION**. Due to minor variations in graphic cards, the horizontal and vertical position may need adjustment. Select POSITION, then press LEFT and use the trackball.

VGA text mode (720 x 400) is correctly displayed when the image is positioned correctly.

REAR inverts the image for use in rear projection arrangements i.e. projection from the back of a screen. This setting is not memorized. The feature is switched on or off by selecting it from the menu.

CEILING switches between an upright and an upside-down projection by flipping the image vertically.

FACTORY RESET. This function resumes factory settings of all parameters.

7.3.2 THE PICTURE SELECTIONS

TINT controls the hue of an image, and is only active in NTSC-video.

SHARPNESS controls the sharpness of the lines in an image, and is only active for video sources.

COLOR adjusts color saturation. Only applicable when video is connected.

GAMMA toggles the gamma correction on and off for video sources. Gamma correction helps improve detail in low light situations, like indoors scenes etc. Only active for video sources.

7.3.3 THE SOUND SELECTIONS

TREBLE controls the higher sound range.

BASS controls the lower sound range .

FixYour BALANCE controls the sound balance between the two stereo speakers.

DISC MONO is selected if the audio source is not stereo, in order to get sound of in both speakers. THE TRUSTED SOURCE FOR PROJECTOR LAMPS AND ACCESSORIES

7.3.4 THE OPTIONS SELECTIONS

HIDE OSD switches the on screen echoing of controls on and off. This setting only affects the direct control operations, not the menu system. This setting is not memorized.

CHANNEL SEARCH is a toggle function that controls whether the projector shall automatically switch to the next source when the current source is switched off or removed. Manual source selection is maintained in both modes as long as signals are present. Source priority is first COMPUTER, then S-VIDEO and then VIDEO. If CHANNEL SEARCH is off (not tagged), the manually selected source is maintained regardless of signal presence. If CHANNEL SEARCH is to the next prioritized active source, regardless of manual selection.

TRACKBALL SENSITIVITY controls the response of the trackball in the menu system. (It does not affect the response of the computer mouse. Please adjust computer mouse responsivity on the computer). FAST, MEDIUM and SLOW options are available.

LANGUAGE. A selection of languages is available for the menu options, including English, German, French, Italian, Spanish, Norwegian and Japanese. Other languages may apply.

POINTER selects the pointer appearance. Options include ball, arrow and cross. Other shapes may apply.

MASK selects whether the mask is applied downwards or upwards.

SERVICE. This function can only be accessed through a special service code. This code is not available to the user.

7.3.5 THE HELP SELECTIONS

SOURCE INFO provides a status list of parameters relating to the source selected.

FixYour BOUT provides system information about the projector.

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8 SPECIAL FEATURES OF YOUR LCD PROJECTOR

8.1 COOLING SYSTEM

The fan operates as long as the LCD projector is switched on. Provided that the power cord is connected, the fan continues to run until the unit has cooled down even after the unit has been switched off. This ensures a continuous protection against high temperature inside the projector. The cooling system is designed to minimize stray light and noise. If the air flow is blocked, a temperature safety fuse will automatically shut off the projector to protect it from overheating.

8.2 SET-UP MEMORY

The user controlled set-up, that usually is done when the projector is connected to a new computer, is automatically memorized for future use. The set-up information is stored in a non-volatile memory approximately 5 seconds after the last key is pressed.

The memory can store 40 different sources/modes. Some sources are predefined, while the remaining are available for customer set-up. See the *Technical Data* section for compatibility.

Custom sources are added to the memory only if their sync pattern differs from any of the previous selections. The projector automatically selects a new memory location.

Most settings are stored individually for each mode, including contrast, brightness, tune etc. See the remote control function table in section *Using the LCD Projector*.

8.3 OSD SYSTEM

The OSD (On Screen Display) system echoes on screen your keypad or remote control actions. The OSD may be switched off and on in the menu

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8.4 RESET

This feature enables standard settings of most controls. RESET will only reset the active mode.



A factory reset may be performed in the menu system. All settings will return to factory defaults, so do not perform a factory reset unless it is really required. This operation will also erase all custom sources and modes that have been memorized.



9 CEILING MOUNTING

The projector is prepared for ceiling mounting. As opposed to desktop use (most tables are approximately 80 cm tall, are flat and have a hard surface finish), ceilings vary in height and material. Also considerations must be made with respect to signal and power wiring.

9.1 SELECTING A MOUNT

Various mounting systems are available from different sources. Contact your dealer for further details or consult vendor catalogs. Be sure that the vendor has tested the mount with this specific projector for operational safety. Check that the ventilation slots are not blocked.

9.2 MOUNTING IN THE CEILING

An improperly mounted projector is a potential danger to people and equipment. A projector and mount falling down may cause personal injury and material damage. Such damage caused by bad workmanship in mounting and operation may lead to legal action and should be avoided.



Avoid ceiling mounting of the projector in areas of frequent or probable earth quakes.

When fixing the mount in the ceiling, be sure to check the ceiling material and if it will hold the total weight of the mount and the projector. Look for wood, steel beams or concrete that will secure a good and lasting fixture. Avoid plaster or other fragile materials that do not have sufficient structural properties. Follow the detailed instructions supplied with the ceiling mount for proper mounting and operation.

After having mounted the projector in the ceiling, test if the holding force is sufficient by adding a load to the mount double the weight of the combined projector and mount. The mount should hold this extra weight with no sign **FixYourOfIfatigue** and with no sign of mounting screws loosening. For positioning see section 6.2.

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9.3 WIRING

Ceiling mounted projectors require long signal and power wires.

The signals should be wired using high quality coaxial cable. The cables usually need to be customized. Some vendors have specialized in this field. Contact your dealer for further detail.

If the signal cables run over a longer distance from the source to the projector, a line buffer (distribution amplifier) may be needed (available from third party vendors).

	ő

As fire precaution, the power wiring should have a separate switch so that the projector can be switched off completely when not in use. The ON/OFF on the remote control only suspends operation of the projector without switching off completely.



10 TROUBLE-SHOOTING

This is a checklist to help you pinpoint any problem that may arise. Check the symptoms carefully if you experience any problem. The cure may be at your fingertips!

	the re	Always check that the OSD appears when the OSD key on the remote control is pressed. This indicates that the LCD projector is receiving signals from the remote control.		
SYMPTON	N	SOLUTION		
LCD projector		Check if the mains cable is attached properly.		

	does not work	 Check in the mains cable is attached property. Check that the Power switch at the mains inlet is ON. Toggle the ON/OFF button on the remote control. Is the LCD projector fuse, located in the fuse holder, blown? (See <i>Maintenance</i> for the replacement procedure.)
	The projected image is completely black	 Check that the Power switch at the mains inlet is ON. The unit may have overheated due to the ventilation slots being covered while the projector was in use. Also ensure that the ambient temperature is within spec. Check the air inlet filter, as it may need vacuuming (see <i>Maintenance</i>). Wait until the unit has completely cooled down before using again.
	The projected image is too dark or too light.	 Adjust the CONTRAST and BRIGHTNESS settings. Press RESET, which will remove the predetermined settings for the current source, and make the set-up adjustments again.
FixYourD SCO THE TR	Some colors are unstable or flickering unt-Merce usted source	 Check first that there are no loose cable connections. You can try to adjust the image quality with the CONTRAST and BRIGHTNESS keys. Try to improve the tuning using the TUNE key.

SYMPTOM	SOLUTION
The whole image appears to be unstable or misplaced	 If the image is scaled, press SCALE to return to the default mode. Adjust the frequency and tuning settings (instability), or the image position settings (misalignment). Check that you are using a source with compatible resolution. The LCD projector may be connected to a source with a non-standard computer (or video card). Adjust the frequency and position of the image.
Cooling fan is not working	 Check that the Power ON/OFF switch is ON. If the fan does not work the LCD projector must not be used and should be returned to your dealer for repair.
The remote control is not working	 Make sure you point the remote control at the projection screen or directly at the IR receiver The maximum range of the IR transmitters is 15 m/ 49 feet - Are you standing close enough? If the effective range of the transmitters is significantly reduced, the remote control needs new batteries.
The desktop mouse is not working	 Remember that the mouse must be connected before the computer source is switched on. Are the mouse cable and mouse adapter connections secure? Check the mouse driver settings on the computer source. You must boot the computer after the cable has been connected for it to recognise the mouse. If you are unsure whether this was the case, reboot your computer.

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11 MAINTENANCE

11.1 GENERAL

From time to time, the LCD projector unit and lens may be cleaned with a damp, non-abrasive cloth to remove dust and dirt spots. The lens should be cleaned with a mild dish-washing detergent solution, or with standard lens cleaning solutions available from a photographic dealer.



Do not scratch the lens surface and use the lens cap for added protection when the projector is not in use. Remember to remove the lens-cap when the LCD projector is in use!

Vacuum the air inlet dust filter (located in the front, under the lens and in the bottom) periodically, especially when build-up of dust is observed. This will ensure cool operation of the projector.

11.2 LAMP REPLACEMENT

The projector is using a 575W metal halide lamp for illumination. This lamp is HIGH PRESSURE when operating. The lamp may not be changed by the user for safety reasons and under the terms of the warranty. Always refer to authorized dealers if the LCD projector transmits a lamp replacement message.



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There are no user serviceable parts inside the projector. Never touch any glass parts (lamp bulb or lenses), as the fingerprints will burn and affect the optical quality of the projected image. Also, fingerprints on the lamp bulb may cause damage and possibly explosion of the lamp when in operation. If any parts of the lamp or optics have been touched, it must be cleaned using a cloth moistened with alcohol (included with replacement bulb) and polished with a dry cloth.

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11.3 LAMP REPLACEMENT MESSAGES

When the time is due to replace the lamp, the projector will give you one of the two following messages on the screen.

WARNING!

Lamp has less than 50 hours left of recommended burning time

Please change lamp!

Press any key to clear this message...

The lamp has only 50 hours burning time left, and should be changed. Remember that you can check accumulated lamp usage each time the projector is switched on. A message appears in the lower left hand corner of the screen stating software revision and accumulated lamp hours used.

If you do not respond to the first message, a second message will appear when the lamp has exceeded recommended burning time. Please read Warnings and Notes in *Lamp Replacement* section carefully and refer lamp change to qualified service personnel only.

WARNING!

Lamp has exceeded its lamp life of 750 hours

Continued use leads to a high risk of lamp explosion

PLEASE CHANGE LAMP IMMEDIATELY !!!

After the lamp has been replaced and the lamp timer has been reset, the message below confirms that the operation has been successful.



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Press any key to clear this message...

If the lamp timer is accidentally reset before the lamp has reached expected lifetime, or the lamp is changed before it is required and reset the timer, the warning below appears. This leaves you with two alternatives which are both described in the next paragraphs.

WARNING!

The lamp change indicator has been activated,

though the lamp has not reached expected lifetime.

Press RESET to confirm lamp change,

or press any other key to continue...

If the lamp has been changed on purpose before required, this message appears when you confirm by pressing RESET.

INFO!

The lamp timer has been reset to 0

If the lamp timer was reset unintentionally, this message confirms that mistake has been corrected by pressing any other key to continue.

INFO!

The lamp timer has not been changed



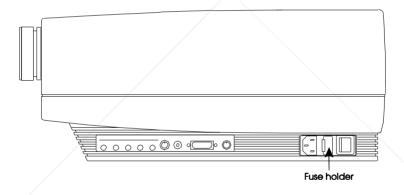
11.4 FUSE REPLACEMENT

The mains fuse are located at the mains input, as an integral part of the connector and switch assembly.



Defective fuses may indicate a permanent electrical failure. If a new fuse breaks immediately, please return the unit to you dealer for control.

Release the fuse holder by using a flat screwdriver, and replace the broken fuses with new ones. Make sure to use fuses of correct rating, see *Technical Data* section.





11.5 CARE OF THE REMOTE CONTROL

The infrared remote control requires no maintenance, other than battery replacement when required. To change the batteries, open the battery holder on the rear of the handset. Remove the old batteries and dispose of carefully. Insert four new batteries of the type described in the *Technical Data* section, observing the polarity instructions inside the battery holder, and close the clip-shut door. Test that the remote control functions correctly by pressing OSD, which should bring up the OSD.



12 TECHNICAL DATA



The technical data given in this section was correct at the time of going to print, but may change without prior notice in order to improve product performance.

This LCD projector is designed for indoor use and should not be operated or stored in conditions outside the general environmental limits given in section below, as this may lead to permanent damage and will violate any warranties.

12.1 GENERAL ENVIRONMENTAL LIMITS

Storage temperature	-20 - 60°C (-4 - 140 F)
Storage humidity	10 - 90 % relative humidity, non-
	condensing
Operating temperature	15 - 30°C (59 - 86 F) ambient
Operating humidity	20 - 80 % relative humidity

Allow for slow acclimatization after storing at extreme temperatures and humidities, to avoid condensation. Should condensation appear, leave the projector unit in a controlled environment within the operating limits until the condensation has evaporated before using the LCD projector.



12.2 LCD PROJECTOR UNIT

PROJECTOR DIMENSIONS 322 x 245 x 638 mm 12.7 x 9.6 x 25.1 inch PROJECTOR WEIGHT 12.5 kg, 27.5 lb.	
PROJECTOR WEIGHT 12.5 kg, 27.5 lb.	
· · · · · · · · · · · · · · · · · · ·	
PROJECTION LENS 303 - 335 mm VARIOFOCUS	2
ANTI-KEYSTONE CORRECTION 8 degrees	,
PROJECTION LAMP 575W Dual ended metal halid	
(OSRAM 575W/GS or equiva	
LIGHT OUTPUT 400 ANSI lumen	
520 peak lumen	
1125 peak lux	
LCD CELL Active matrix TFT (thin film	
transistor) stripe configuration	n
COLOR RESOLUTION 16.7 million	
RESPONSE TIME 30 ms	
CONTRAST RATIO 100:1	
PIXEL RESOLUTION 1024 x 768 x 3 (RGB)	
LCD SCREEN DIAGONAL 10 inches	
DEFECTIVE PIXELS Maximum 25	
(black, red, green or blue)	
VIDEO FREQUENCY 14 - 140 MHz	
HORIZONTAL SYNC 14 - 100 kHz	
VERTICAL SYNC 50 - 100 Hz	
NTSC SYSTEM M, 4.43 NTSC	
PAL SYSTEM B, G, H, D, I	
SECAM SYSTEM B, G, H, D, I, K1, L	
COMPUTER INPUT 0 - 1 Vpp	
VIDEO INPUT 0 - 1 Vpp	
S-VIDEO INPUT 0 - 1 Vpp	
AUDIO INPUT 1V RMS	
SPEAKERS 2 x 5 W stereo	
APPROVALS • CE	
• UL	
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12.3 POWER SUPPLY

DUAL VOLTAGE	100 - 120 VAC (9A), 60 Hz, fuse 10A
	220 - 240 VAC (5A), 50 Hz, fuse 6.3A

12.4 REMOTE CONTROL

UNIT SIZE	190 x 49 x 21 mm / 7.5 x 1.9 x 0.8 inches
UNIT WEIGHT	154 g / 5.4 ounces (with batteries)
BATTERIES	4 pcs LR03/AM4 1.5V
FUNCTIONAL RANGE	15 m/45 ft
COMPATIBILITY	Microsoft 2-key serial mouse; IBM PS/2; MAC
APPROVALS	CE, FCC Class A

12.5 COMPATIBILITY

The LCD projector is compatible with the interfaces and resolutions shown below, some of which are predefined. However since different varieties of these exist, a frequency adjustment may be needed.

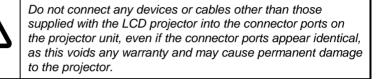
MODE	RESOLUTION	MAXIMUM VERTICAL FREQUENCY (Hz)
Generic	640 x 350	85
	640 x 400	85
	640 x 480	85
	720 x 480	85
	800 x 600	100
	1024 x 768	100
	1280 x 1024 (compressed)	80
VGA	640 x 350	85
	640 x 400	85
	640 x 480	85
	720 x 400	85
SVGA	800 x 600	100
XGA	1024 x 768	100
SXGA	1280 x 1024 (compressed)	80
MAC	640 x 480	85
	832 x 624	100
	1024 x 768	100
	1152 x 870 (compressed)	90



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13 CONNECTORS

The connector ports for the source equipment on the LCD projector are located on the right hand-side (when facing) of the unit. The connector port for the mains power cord is located next to the fuse cabinet. The pinouts of all the connector ports is described in this section.





13.1 COMPUTER

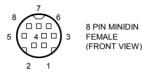
This connector relays all sync signals from the computer to the LCD projector, and also to a local CRT monitor if required.

	$\begin{array}{c}9\\18\\26\end{array} \bigcirc \bigcirc$	0000 10 FEMALE (GH DENSITY DSUB FRONT VIEW)
	1 ANALOG R IN	10 ANALOG R GND IN	19 HSYNC IN
	2 ANALOG G IN	11 ANALOG G GND IN	20 C/VSYNC IN
	3 ANALOG B IN	12 ANALOG B GND IN	21 DIGITAL GND
	4 NOT USED	13 NOT USED	22 PCID0
	5 NOT USED	14 NOT USED	23 PCID1
	6 NOT USED	15 NOT USED	24 DIGITAL GND
	7 ANALOG R OUT	16 ANALOG R GND OUT	25 HSYNC OUT
	8 ANALOG G OUT	17 ANALOG G GND OUT	26 VSYNC OUT
FixYourDLP.com	9 ANALOG B OUT	18 ANALOG B GND OUT	
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13.2 MOUSE

This port is used to exchange mouse messages between the projector and the computer.



	1 MAC ADB	5 RS232 RTS
	2 PS/2 CLOCK	6 RS232 RXD
、 、	3 PS/2 DATA	7 RS232 CTS
,	4 RS232 TXD	8 GND

13.3 S-VIDEO

This connector is used as S-VHS video input.



13.4 VIDEO

This connector is used as composite video input.



PHONO / RCA FEMALE (FRONT VIEW) STEM COMPOSITE SHIELD GND

13.5 AUDIO

Four similar connectors are used for stereo sound line input for COMPUTER, S-VIDEO, VIDEO and LINE OUT channels respectively.

TIP

RING

STEM



3.5 mm JACK (FRONT VIEW) RIGHT LEFT COMMON



14 ENVIRONMENTAL STATEMENT

Care has been taken in the manufacture of this LCD projector that environmental stress and pollution has been minimized. Where possible, recyclable materials have been used to minimize the environmental impact.

There are no special requirements for handling the product. Should the LCD module inside the projector become broken for any reason, resulting in a spillage of liquid and glass fragments from inside the unit, the following precautions should be taken:

- wear gloves,
- place the projector unit **without opening it** inside a heavy-duty polythene bag to retain any further spillage,
- clean up the spillage, disposing of the waste wisely, and wash your hands thoroughly.

The delivery packaging can be recycled without further ado. With respect to the LCD projector unit itself, thought should be given to the eventual disposal of the unit in the most environmentally friendly manner considering the mechanical, electronic and chemical components inside.



15 FCC STATEMENT

This equipment has been certified to comply with the limits for a Class A computing device, pursuant to Subpart J of Part 15 of FCC rules. Only peripherals (computer input/output devices, terminals, printers, etc.) certified to comply with the Class A limits may be attached to a computer that complies with Class A limits. When connecting to a peripheral device, a shielded input/output cable is required to ensure compliance with FCC rules. The shielded cable that must be used is supplied with the equipment. Operation with non-certified peripherals or non-shielded cables is likely to result in interference to radio and TV reception.

This equipment generates and uses radio-frequency energy and, if not installed and used in accordance with the instruction manual, may cause interference to radio and television reception. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart J of Part 15 of the FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

Reorient the receiving antenna.

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- Relocate the projector with respect to the receiver.
- Plug the equipment to a different outlet so that equipment and receiver are on different branch circuits.
- Fasten cables using mounting screws to ensure adequate EMI control.

You may require the following booklet from the Federal Communications Commission (FCC) : "How to identify and resolve radio and TV interference FixYoupproblems", available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4. (800) 281-8860

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