

SAFTY PRECAUTIONS

During servicing carefully observe the following.

1. OBSERVE ALL PRECAUTIONS

Items and locations that require special care during servicing, such as the cabinet, chassis, and parts are labelled with individual safety instructions. Carefully comply with these instructions and all precautions in the instruction manual.

2. BE CAREFUL OF ELECTRIC SHOCK

The chassis carries an AC voltage. If you touch the chassis while it is still alive, you will get a severe shock. If you think the chassis is alive, use an isolating transformer or gloves, or pull out the plug before replacing any parts.

3. USE SPECIFIED PARTS

The components have been chosen for minimum flammability and for specific levels of resistance value and withstand voltage. Replacement parts must match these original specifications. Parts whose specifications are particularly vital to safe use and maintenance of the set are marked Δ on the circuit diagrams and parts list. Substitution of these parts can be dangerous for you and the customer, so use only specified parts.

4. REMOUNT ALL PARTS AND RECONNECT ALL WIRES AS ORIGINALLY INSTALLED

For safety, insulating tape and tubes are used throughout, but some lift-off parts on the printed wiring board require special attention.

All wires are positioned away from high-temperature and high-voltage parts, and, if removed for servicing, they must be returned precisely to their original positions.

5. Ballast Unit

The ballast unit generates a high voltage at start. Do not switch power on particularly when it has no lamp in it.

6. Lamp

Be very careful of the lamp because it is hot when power is on. Before replacing the bulb, make sure it is cool enough.

7. Lens

Do not look into the lens during projection. This important to avoid damage to the eyes.

8. RUN A COMPLETE SAFETY CHECK AT THE COMPLETION OF SERVICING

After completion of servicing, confirm that all screws, parts, and wiring, removed or disconnected for servicing, have been returned to their original positions. Also examine if the serviced sections and peripheral areas have suffered from any deterioration as a result of servicing. In addition, check insulation between external metallic parts and blades of wall-outlet plugs. This examination is indispensable in confirming complete establishment of safety.

(Insulation check)

Pull out a plug from a wall outlet to disconnect the connection cable. Then turn on the POWER switch. Use a 500V megger (Note 2) and confirm that the insulation resistance is $1M\Omega$ or more between each terminal of the plug and exposed external metal (Note 1). If the measured value is below the specified level, then it is necessary to inspect and fix the set.

(Note 1)

Exposed external metal....RGB input terminals, control terminals, etc.

(Note 2)

If a 500V megger is not available for an unavoidable reason, then use a circuit tester or the like for inspection.

IMPORTANT INFORMATION

Precautions

Please read this manual carefully before using your NEC MultiSync MT800 LCD Projector and keep the manual handy for future reference.

Your serial number is located on the side of your MultiSync MT800, below the cooling fan vent. Record it here:

CAUTION

TO PREVENT SHOCK, DO NOT OPEN THE CABINET. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED NEC SERVICE PERSONNEL.



This symbol warns the user that uninsulated voltage within the unit may be sufficient to cause electrical shock. Therefore, it is dangerous to make any kind of contact with any part inside of the unit.



This symbol alerts the user that important information concerning the operation and maintenance of this unit has been provided. The information should be read carefully to avoid problems.

WARNING

TO PREVENT FIRE OR SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE. DO NOT USE THIS UNIT'S GROUNDED PLUG WITH AN EXTENSION CORD OR IN AN OUTLET UNLESS ALL THREE PRONGS CAN BE FULLY INSERTED. DO NOT OPEN THE CABINET. THERE ARE HIGH-VOLTAGE COMPONENTS INSIDE. ALL SERVICING MUST BE DONE BY QUALIFIED NEC SERVICE PERSONNEL.

DOC Compliance Notice

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

RF Interference

FCC Information

The Federal Communications Commission does not allow any modifications or changes to the unit EXCEPT those specified by NEC Technologies in this manual. Failure to comply with this government regulation could void your right to operate this equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Important Safeguards

These safety instructions are to ensure the long life of your LCD projector and to prevent fire and shock. Please read them carefully and heed all warnings.

Installation

1. For the best results, use the LCD projector in a darkened room.
2. Place the LCD projector on a flat, level surface and in a dry area free from dust and moisture.
3. Do not place the LCD projector in direct sunlight, near heaters or heat radiating appliances.

4. Exposure to direct sunlight, smoke or steam could harm internal components.
5. Handle your LCD projector carefully. Dropping or jarring your projector could damage internal components.
6. Do not place heavy objects on top of the LCD projector.
7. If installing the LCD projector on the ceiling:
 - a. The ceiling must be strong enough to support the LCD and the installation must in accordance with any local building codes.
 - b. The LCD projector must be installed by qualified NEC service personnel.

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Power Supply

1. The LCD projector is designed to operate on a power supply of 110-120/220-240 V 50/60 Hz AC. Ensure that your power supply fits this requirement before attempting to use your LCD projector.
2. Handle the power cable carefully and avoid excessive bending. A damaged cord can cause electric shock or fire.
3. If the LCD projector is not to be used for an extended period of time, disconnect the plug from the power outlet.

Cleaning

1. Unplug the LCD projector before cleaning.
2. Clean the cabinet periodically with a damp cloth. If heavily soiled, use a mild detergent. Never use strong detergents or solvents such as alcohol or thinner.
3. Use a blower or lens paper to clean the lens, and be careful not to scratch or mar the lens.
4. Clean the air filter with a vacuum cleaner after every 100 hours of operation.
 - a. Only clean the outside of the filter with a vacuum cleaner.
 - b. Do not use water or any other liquid to clean the air filter.
 - c. Do not operate your LCD projector without the air filter.

Fire and Shock Precautions

1. Ensure that there is sufficient ventilation and that vents are unobstructed to prevent the build-up of heat inside your LCD projector. Allow at least 3 inches (10cm) of space between your LCD projector and a wall.
2. Prevent foreign objects such as paper clips and bits of paper from falling into your LCD projector. Do not attempt to retrieve any objects that might fall into your projector. Do not insert any metal objects such as a wire or screwdriver into your LCD project. If something should fall into your projector, disconnect it immediately and have the object removed by a qualified NEC service person.
3. Do not place any liquids on top of your LCD projector.

Do not look into the lens while the projector is on. Serious damage to your eyes could result.

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ATTENTION

AFIN DE REDUIRE LES RISQUES D'ELECTROCUTION, NE PAS ENLEVER LE COUVERCLE. AUCUN DES ELEMENTS INTERNES NE DOIT ETRE REPARÉ PAR L'UTILISATEUR. LAISSER A UN PERSONNEL QUALIFIÉ LE SOIN DE REPARER CET APPAREIL.



Ce symbole a pour but de prévenir l'utilisateur de la présence d'une tension dangereuse, non isolée se trouvant à l'intérieur de l'appareil. Elle est d'une intensité suffisante pour constituer un risque d'électrocution. Eviter le contact avec les pièces à l'intérieur de cet appareil.



Ce symbole a pour but de prévenir l'utilisateur de la présence d'importantes instructions concernant l'entretien et le fonctionnement de cet appareil. Par conséquent, elles doivent être lues attentivement afin d'éviter des problèmes.

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AVERTISSEMENT

AFIN DE REDUIRE LES RISQUES D'INCENDIE OU D'ELECTROCUTION, NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE. AUSSI, NE PAS UTILISER LA FICHE POLARISEE AVEC UN PROLONGATEUR OU UNE AUTRE PRISE DE COURANT SAUF SI CES LAMES PEUVENT ETRE INSEREES A FOND. NE PAS OUVRIR LE COFFRET, DES COMPOSANTES HAUTE TENSION SE TROUVENT A L'INTERIEUR. LAISSER A UN PERSONNEL QUALIFIÉ LE SOIN DE REPARER CET APPAREIL.

Importantes précautions de sécurité

Les points suivants sont des précautions de sécurité importantes destinées à garantir une longue durée de service du projecteur à écran à cristaux liquides (LCD) et afin d'éviter un incendie et des risques d'électrocution. S'assurer de lire attentivement ces précautions de sécurité et respecter tous les avertissements décrits ci-dessous.

Installation

1. Pour un fonctionnement optimal, utiliser le projecteur à écran à cristaux liquides (LCD) dans une pièce sombre.
2. Placer le projecteur à écran à cristaux liquides (LCD) sur une surface à niveau et dans un endroit sec exempt de poussières et d'humidité.
3. Ne pas placer le projecteur à écran à cristaux liquides (LCD) en plein soleil, près d'appareils ménagers ou d'autres appareils de chauffage.

DOC avis de conformation

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le Matériel D'interférence du Canada.

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4. La fumée, la vapeur et l'exposition aux rayons directs du soleil risquent de détériorer sérieusement les composantes internes.
5. Eviter des manipulations brusques lors du déplacement du projecteur à écran à cristaux liquides (LCD), car un choc violent pourrait endommager les composantes internes.
6. Ne pas déposer d'objets lourds sur le dessus du projecteur à écran à cristaux liquides (LCD).
7. Lors de l'installation du projecteur à écran à cristaux liquides (LCD) au plafond, respecter les instructions suivantes.
 - a. Le plafond doit être suffisamment solide pour supporter le poids du projecteur à écran à cristaux liquides (LCD) et il doit être installé selon les codes de construction locaux.
 - b. Le projecteur à écran à cristaux liquides (LCD) doit être installé par un personnel qualifié.

Nettoyage

1. Débrancher le projecteur à écran à cristaux liquides (LCD) de la prise d'alimentation avant le nettoyage.
2. Nettoyer régulièrement le coffret avec un chiffon doux. S'il y a des taches tenaces, utiliser une solution d'un détergent doux. Ne jamais utiliser de détergents puissants ou des solvants, tel que l'alcool ou un diluant pour nettoyer le projecteur à écran à cristaux liquides (LCD).
3. Utiliser un appareil diffuseur chauffant ou du papier de nettoyage de lentille disponible dans le commerce pour nettoyer la lentille. Ne pas frapper ou rayer la surface de la lentille, car des défauts risquent de se produire sur la surface de la lentille.
4. Nettoyer le filtre à air toutes les 100 heures.
 - a. Nettoyer seulement l'extérieur avec un aspirateur.
 - b. Ne pas nettoyer le filtre à air avec de l'eau ou un liquide.
 - c. Ne pas utiliser le projecteur à écran à cristaux liquides (LCD) sans le filtre à air.

Alimentation

1. Le projecteur à écran à cristaux liquides (LCD) est conçu pour fonctionner à 110-120/220-240VCA 50/60Hz. S'assurer que la tension d'alimentation locale satisfait cette exigence avant d'utiliser le projecteur.
2. Manipuler le câble d'alimentation avec précaution et éviter de le plier excessivement. Un cordon endommagé risque de provoquer une électrocution ou un incendie.
3. Si le projecteur à écran à cristaux liquides (LCD) n'est pas utilisé pendant une période prolongée, retirer la fiche de la prise secteur.

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Précautions pour éviter un incendie ou une électrocution

1. Une ventilation appropriée doit être assurée afin d'éviter une accumulation de chaleur à l'intérieur du projecteur à écran à cristaux liquides (LCD). S'assurer que les trous de ventilation ne sont pas obstrués. Laisser un espace d'au moins 10 cm (quatre pouces) entre le projecteur à écran à cristaux liquides (LCD) et les murs.
2. Eviter que des objets étrangers, des agrafes, des clous et du papier, par exemple, pénètrent à l'intérieur du projecteur à écran à cristaux liquides (LCD). Ne pas essayer de récupérer ces objets soi-même ou ne pas insérer des objets métalliques, des fils et des tourne-vis, par exemple à l'intérieur du projecteur à écran à cristaux liquides (LCD). Si un objet tombe à l'intérieur du projecteur à écran à cristaux liquides (LCD), le débrancher immédiatement et contacter un réparateur qualifié pour retirer l'objet.
3. Ne pas placer des liquides sur le dessus du projecteur à écran à cristaux liquides (LCD).

Ne pas regarder dans la lentille, car cela risque de provoquer des lésions oculaires.

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LIMITED WARRANTY

NEC MultiSync® LCD Projector Products

NEC Technologies, Inc. (hereafter NECTECH) warrants this product to be free from defects in material and workmanship under the following terms.

HOW LONG IS THE WARRANTY?

Parts and labor are warranted for (1) one year from the date of the first customer purchase. The lamp is warranted for 2000 hours of operating time or six months, whichever comes first.

WHO IS PROTECTED?

This warranty may be enforced only by the first purchaser.

WHAT IS COVERED AND WHAT IS NOT COVERED

Except as specified below, this warranty covers all defects in material or workmanship in this product. The following are not covered by the warranty:

2. Costs of initial technical adjustments (set-up), including adjustment of user controls. These costs are the responsibility of the NECTECH dealer from whom the product was purchased.
3. Payment of shipping charges.

HOW YOU CAN GET WARRANTY SERVICE

1. To obtain service on your product, consult the dealer from whom you purchased the product.
2. Whenever warranty service is required, the original dated invoice (or a copy) must be presented as proof of warranty coverage. Please be prepared to describe or demonstrate the problem to your dealer.
3. For the name of the nearest NECTECH authorized service center, call NECTECH at 800-836-0655.

LIMITATION OF IMPLIED WARRANTIES

ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

EXCLUSION OF DAMAGES

NECTECH'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT AT OUR OPTION. NECTECH SHALL NOT BE LIABLE FOR:

1. Any product which is not distributed in the U.S.A., Canada and Mexico by NECTECH or which is not purchased in the U.S.A., Canada and Mexico from an authorized NECTECH dealer. If you are uncertain as to whether a dealer is authorized, please contact NECTECH at 800-836-0655.
2. Any product on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
 - a. Accident, misuse, abuse, neglect, fire, water, lightning or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - b. Repair or attempted repair by anyone not authorized by NECTECH.
 - c. Any shipment of the product (claims must be presented to the carrier).
 - d. Removal or installation of the product.
 - e. Any other cause which does not relate to a product defect.
4. Cartons, carrying cases, batteries, external cabinets, magnetic tapes, or any accessories used in connection with the product.

WHAT WE WILL PAY FOR AND WHAT WE WILL NOT PAY FOR

We will pay labor and material expenses for covered items. But we will not pay for the following:

1. Removal or installation charges.

1. DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THIS PRODUCT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, COMMERCIAL LOSS; OR
2. ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

HOW STATE LAW RELATES TO THE WARRANTY

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

FOR MORE INFORMATION, TELEPHONE 800-366-5213

NEC TECHNOLOGIES, INC.
1250 N. Arlington Heights Road, Suite 500
Itasca, Illinois 60143-1248

NOTE: All products returned to NECTECH for service **MUST** have prior approval. To get approval, call NEC Technologies at 800-836-0655.

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1 INTRODUCTION

Introduction To The MultiSync MT800 LCD Projector

This section introduces you to your new MultiSync MT800 LCD Projector, provides a list of materials that comes with your projector and describes the features and controls.

Congratulations On Your Purchase Of The MultiSync MT800 LCD Projector

The MultiSync MT800 is one of the very best LCD projectors available today. The multiple LCD panels enable you to project precise images up to 300 inches across (measured diagonally) from your PC or Macintosh computer (desktop or notebook), VCR, document camera, or even a laser disc player.

You can use the projector on a tabletop or cart, you can permanently mount it on a ceiling*, or you can use MultiSync MT800 LCD Projector to project images from behind the screen. The remote control can be used wirelessly or with a cable, and you can even use the remote control with the IR receiver to operate the mouse on your PC or Mac. But best of all, the MultiSync MT800 is an NEC LCD projector. That means you can depend on years of reliable performance and crystal-clear presentations!

- Supports most IBM VGA, S-VGA, Macintosh or any other RGB signals within a horizontal frequency range of 15 to 60 kHz and a vertical frequency range of 50 to 75 Hz. This includes NTSC, PAL, SECAM, and M-NTSC standard video signals.

Note: Composite video standards are as follows:

NTSC:	U.S. TV standard for video in U.S. and Canada.
PAL:	TV standard used in western Europe
SECAM:	TV standard used in France and Eastern Europe
M-NTSC:	(modified-NTSC)-result of converting a video in the SECAM standard to the NTSC standard

The features you'll enjoy include:

- Simple set up and operation.
- A high-performance 250 watt metal halide lamp that delivers 370 lumens (ANSI) and is guaranteed for 2000 hours of service or six months, whichever comes first.
- The "High Contrast" mode creates a clear image from a document camera. (VIDEO and RGB source only)
- The power zoom control enables you to adjust the image to be between 20 and 300 inches (measured diagonally).
- The "2X-4X" button allows you to double and quadruple the size of the image with a single click of the remote.
- An image can be projected from in front or behind a screen, and the projector can even be installed on the ceiling.

- The remote control can be used with or without a cable, and you can even use the remote to operate your PC or Macintosh mouse wirelessly from across the room with the IR receiver module.
- You can control your MultiSync MT800 LCD Projector with a PC.
- The contemporary cabinet design is compact, easy to carry, and complements any office, board room or auditorium.
- * Installing the MultiSync MT800 LCD Projector on the ceiling must be done by authorized NEC technicians. Consult your NEC dealer for more information.

How Do You Get Started?

The fastest way to get started is to take your time and do everything right the first time. Taking a few minutes now to watch the introductory video and review the manual may save you hours later on. At the beginning of each section of the manual you'll find an overview. If the section doesn't apply, you can skip it.

What's In The Box?

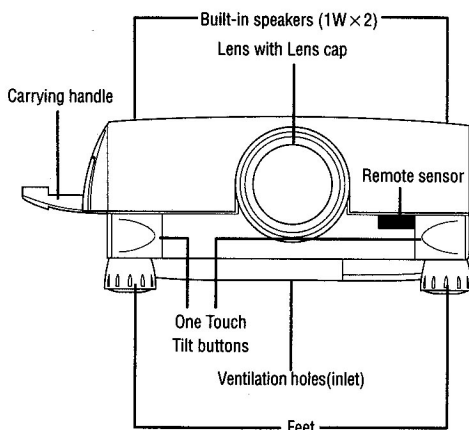
Make sure your box contains everything listed. If any pieces are missing, contact your dealer. Please save the original box and packing materials if you ever need to ship your MultiSync MT800 LCD Projector.

- NEC MultiSync MT800 LCD Projector
- Remote Control And Cable
- IR Receiver And Cable
- PC/Macintosh MultiCable
(15-Pin Mini D-Sub To 15-Pin D-Sub Connector)
- Power Cable
- Four AAA Batteries
- Introductory Video
- User's Manual
- Accessory Catalog
- Registration Card

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Getting To Know Your MultiSync MT800 LCD Projector

Front Features



Rear Features

