

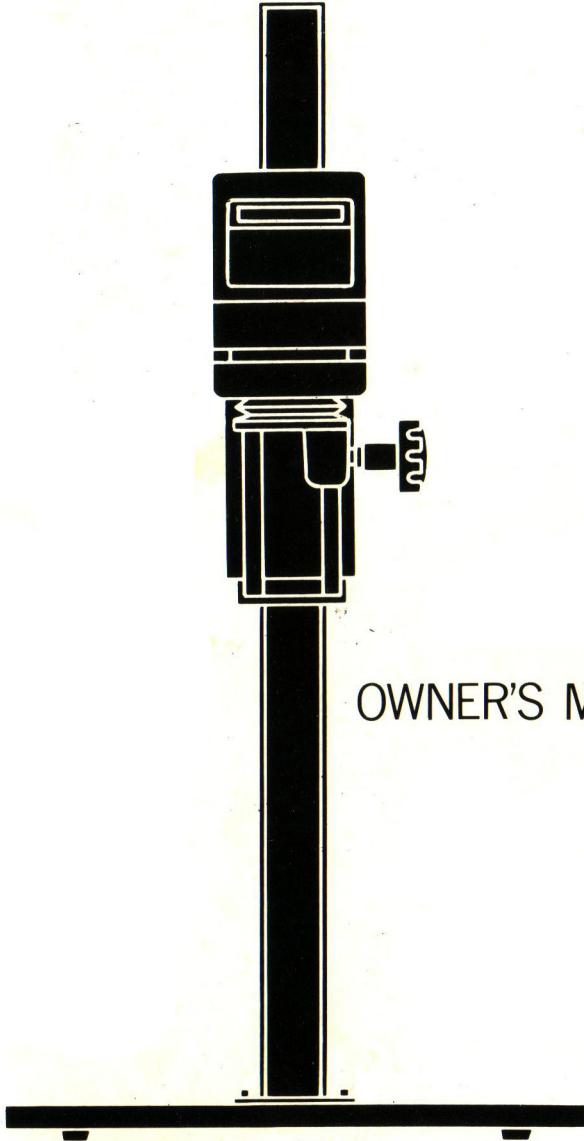
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MINOLTA COLOR ENLARGER II



OWNER'S MANUAL



IMPORTANT SAFEGUARDS

When using your enlarger, the specific cautionary notices in the owner's manual should always be observed and complied with as well as basic precautions, including the following:

1. Read and understand all instructions.
2. Close supervision is necessary when the enlarger is used by or near children. Do not leave enlarger in use or/at any time when it is within reach of children.
3. Care must be taken as burns can occur from touching hot parts.
4. Do not operate with a damaged cord or if the enlarger has been dropped or damaged — until it has been examined by an authorized Minolta service facility.

5. Do not let any cord hang over edge of table or counter or touch hot surfaces.
6. If an extension cord is necessary, a cord having a suitable current rating should be used. Cords rated for less amperage than the enlarger with which they are used may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
7. Always unplug cord from electrical outlet when not in use. Never yank cord to pull from outlet; grasp plug and pull to disconnect.
8. Let enlarger cool completely before putting on its dust cover for storage.
9. To protect against electrical shock hazard, do not immerse this enlarger in water or other liquids.

10. To avoid electric shock hazards, do not disassemble this enlarger, but take it to a qualified serviceman when some service or repair work is required. Incorrect reassembly can cause electric shock hazard when the enlarger is used subsequently.

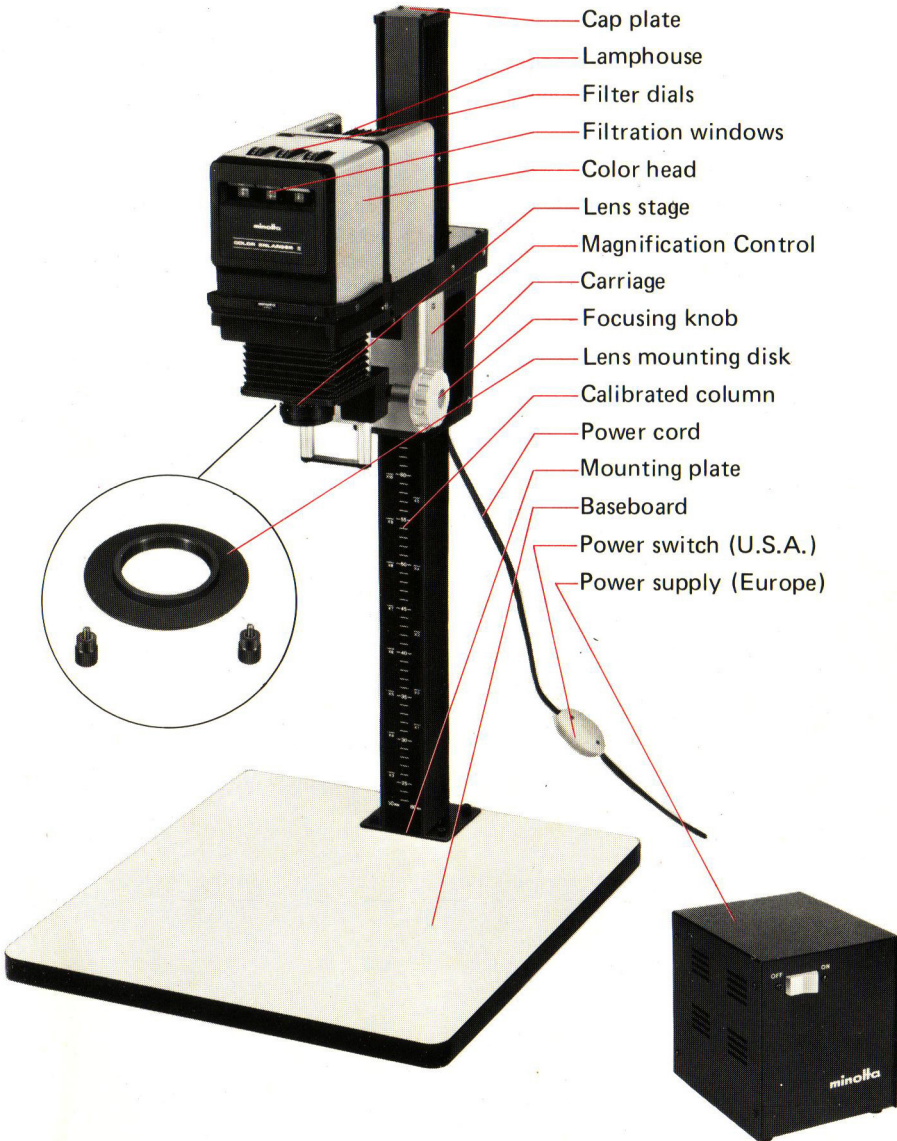
SAVE THESE INSTRUCTIONS

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NAMES OF PARTS

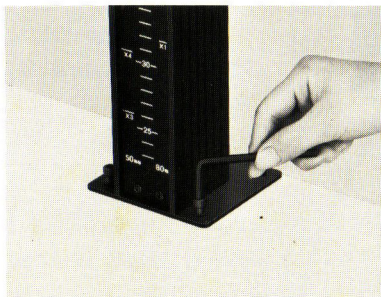
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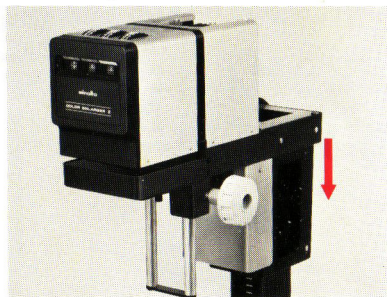
ASSEMBLY

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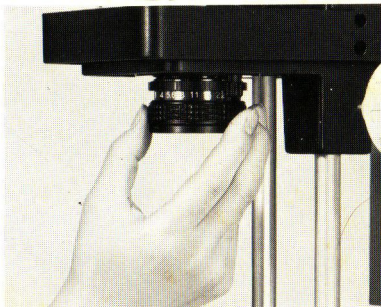
1. Unpack all components and lay them out carefully on a work table or covered floor.
2. Place the baseboard of the enlarger on the floor, and bolt the enlarger column firmly into position, using the four bolts and washers and wrench provided. One washer should be placed between each bolt head and the column's mounting plate. The column must be positioned with its centimeter-magnification calibrations facing forward.



3. To install the carriage assembly on the column, lower the carriage carefully over the column so that the front and rear rails of the column will fit within the bearings in the carriage shaftway.



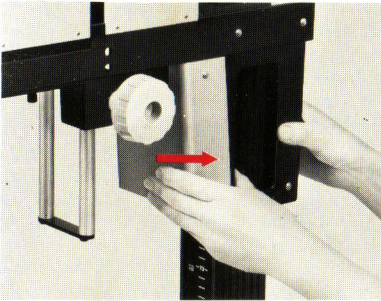
6. Screw the appropriate C.E. Rokkor(-X) enlarging lens into the threaded mounting collar of the lens disk. (Other Leica-thread lenses may be used, but C.E. Rokkor(-X) lenses are recommended for best quality.) You may have to loosen the lens-disk retaining screws and adjust the lens disk so that the f-stop index on the enlarging lens faces forward.



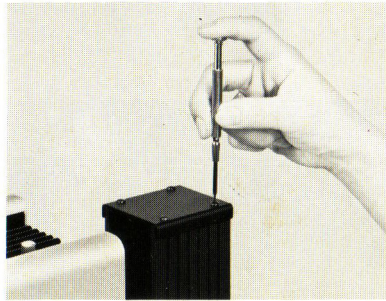
7. Insert the negative carrier so that its opening lever is on the top and faces forward.
8. Install the enlarger lamp as shown in the lamp replacement section (p. 9).



- Depress the magnification control toward the carriage and press the carriage assembly gently down against the resistance of the counter-balance spring. Lock the carriage in position by releasing pressure on the magnification control.

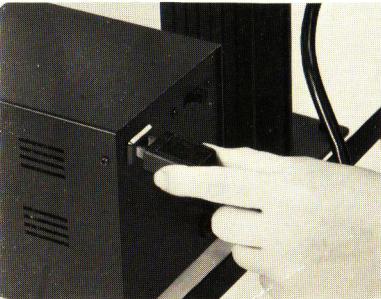


- Place the cap plate on the top of the column and secure it with the screws provided. Place the enlarger on the table or surface on which you will be working.



9. (EUROPE ONLY)

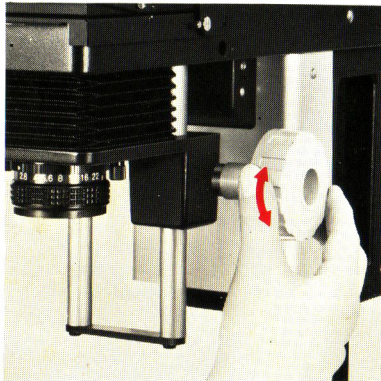
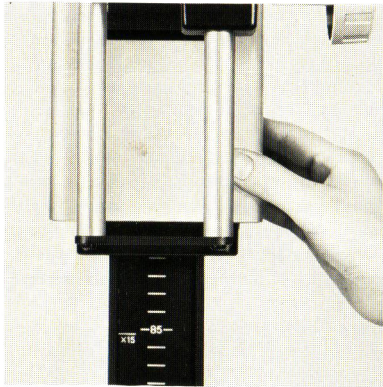
Connect the enlarger power cord to the power supply module included with the enlarger. Make sure the voltage switch on the back of the unit is set to the indication (220v or 240v) that corresponds closest to the voltage in your area.



- The enlarger power supply may now be plugged in to a convenient power receptacle, or into the output socket of a darkroom timer that is itself plugged into a power line.

SIZING AND FOCUSING THE IMAGE

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With any negative size or enlarging-lens focal length, image size on the easel depends on the height of the enlarger head above it. To adjust the height of the enlarger, depress the magnification control toward the column. The counter-balanced carriage can then travel freely to any height on the column. The carriage locks in position when the control is released.

The column is calibrated along its length in centimeters with magnification settings for both 50mm and 80mm lenses. This makes it possible to reset the enlarger head for a desired image size or to obtain the same light intensity at the baseboard any time you make contact prints using the enlarger as a light source.

Once the enlarger height has been set for the desired magnification, focus the image using the focusing knob on the right side of the bellows. Then position the easel so that the projected image is framed as desired.

CAUTION

- Do not shock the enlarger while it is in use, as this may cause the lamp filament to break.

COLOR PRINTING

BLACK AND WHITE PRINTING

Continuously variable filtration can be set with the large knurled filter dials on the color head.

Before using your enlarger be sure to carefully read all the instructions packaged with the color printing paper and chemistry you are using. They, along with books available at most photo dealers, will help you to make correct filtration determinations for the best results. If you are printing for the first time, write the filter settings, printing time and f-number used on the back of each print. This will aid you in learning the effect of changes in filtration and exposure.

Experience is the best teacher in color printing. Once you have learned the basics, you will have no difficulty in determining the correct filtration to use for a particular subject type or lighting situation.

When printing, be sure not to use all three filters in combination. The result will be a neutral density tone which will have no effect on the color balance of the negative and extend the exposure time unnecessarily.

The Color Enlarger II is also a fine black-and-white enlarger. Its diffusion-type light source is the same kind used by most labs and professional printers because of its ability to suppress dust and scratches on negatives. This reduces the amount of time you will have to spend spotting or reprinting. Since you will probably not be using the enlarger's filtration system, make sure all the filter dials are set at their zero position.

When you use variable contrast printing paper (such as Kodak Polycontrast), see the table below for approximate settings to use the color head as a filter source.

If you have no experience in black-and-white printing, be sure to read all the information packaged with the printing paper and chemistry you are using. Your photo dealer may also recommend books to help you with your particular darkroom interests.

FILTER TABLE FOR BLACK AND WHITE POLYCONTRAST PAPER

Polycontrast filter Enlarger Setting

1	50 Y
1-1/2	o
2	5M
2-1/2	15M
3	30M
3-1/2	150M
4	60Y + 150M

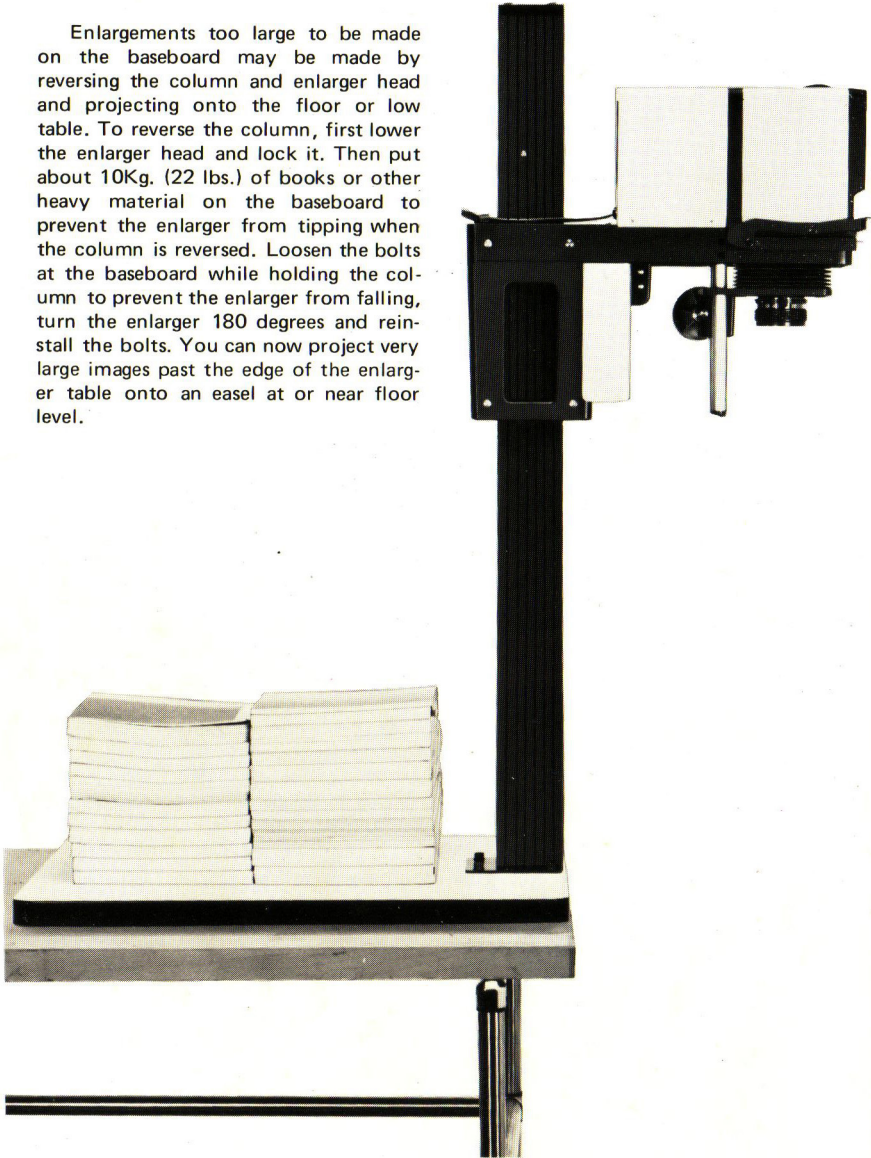
Polycontrast is a registered trademark of the Eastman Kodak Co.



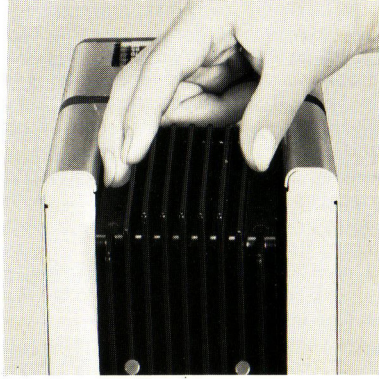
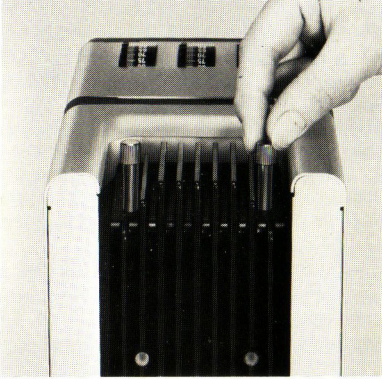
OVERSIZED ENLARGEMENTS

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Enlargements too large to be made on the baseboard may be made by reversing the column and enlarger head and projecting onto the floor or low table. To reverse the column, first lower the enlarger head and lock it. Then put about 10Kg. (22 lbs.) of books or other heavy material on the baseboard to prevent the enlarger from tipping when the column is reversed. Loosen the bolts at the baseboard while holding the column to prevent the enlarger from falling, turn the enlarger 180 degrees and reinstall the bolts. You can now project very large images past the edge of the enlarger table onto an easel at or near floor level.



LAMP REPLACEMENT



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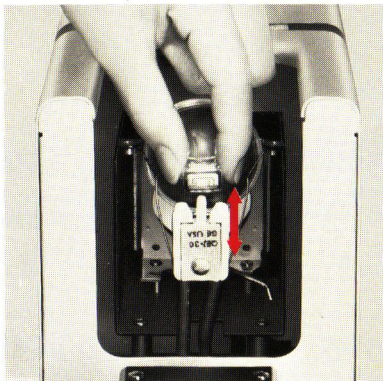
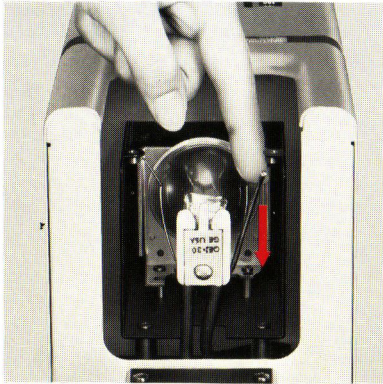
The halogen lamp used by the Minolta Color Enlarger II provides constant brightness and color temperature throughout its working life. When lamp failure makes replacement necessary, first check to make sure that the enlarger's power cord is *unplugged*. If the enlarger has been in use, *wait until the head has cooled before proceeding*.

Remove the two long-shafted screws on top of the lamphouse and lift the finned, one-piece top and rear cover plate back and away from the enlarger until it is out of the housing.

CAUTION

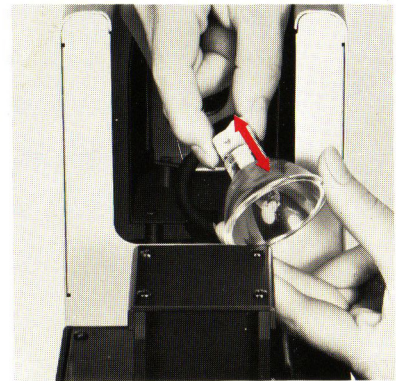
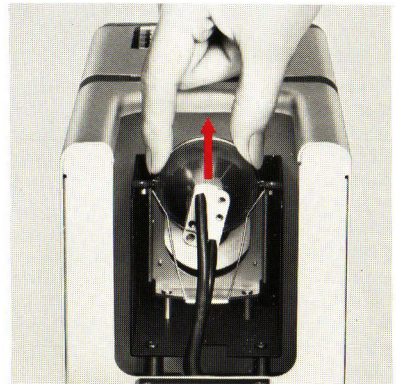
- Be sure not to touch the lamp or inside surface of the reflector as this may cause premature failure of the lamp.
- When replacing the lamp be sure to install only the lamp designated for your area. (see p. 13)

To replace the lamp on the U.S. model, move the lamp replacement lever as far as it will go towards the column. Then lift the lamp straight up and out of the socket. Return the lever to its vertical position. Carefully insert the replacement lamp so that the lip on the reflector's edge is between the lamp support and the retaining clip. Align the lamp's base pins with the slots in the socket and press the lamp as far as it will go into the socket.



For lamp replacement in the European model, lift the lamp and ceramic socket straight up and out of the retaining clip. Pull the burned-out lamp straight out of the socket. Push the base pins of the replacement lamp into the holes in the socket firmly, as far as they will go. Push straight so as not to bend or break the pins. Carefully slide the lamp and ceramic socket into the retaining clip as far as it will go.

Reinstall the lamphouse cover plate and secure it into place with the retaining screws.



FILM CARRIERS

Minolta makes glassless, glass, and mounted-transparency carriers for the Color Enlarger II. Each features a lever-action release for easier positioning of negatives or transparencies. The glassless design reduces dust problems and helps cut down on print spotting. The glass carriers assure flatness of negatives or transparencies and are made with anti-Newton-ring glass.

Glass and glassless carriers are available in 6 x 7cm, 6 x 6cm, and 35mm sizes. There are also a glassless carriers for 6 x 4.5cm and 110/16 mm film sizes and a carrier for 35mm mounted available.



CHANGING LENSES

C.E. Rokkor(-X) enlarging lenses, as well as others with standard Leica screw threads, screw into the lens disk. The C.E. Rokkor(-X) lenses are computer-designed for best performance with the Minolta Color Enlarger II and provide edge-to-edge resolution and contrast, even coverage, and flatness of field.

The 30mm f/2.8 C.E. Rokkor(-X) is most suitable for enlarging subminiature negatives such as 16mm and 110 frames. The 50mm f/2.8 C.E. Rokkor(-X) is used to enlarge standard 35mm negatives. And the 80mm f/5.6 C.E. Rokkor(-X) lens is intended for 6 x 7cm, 6 x 6cm, and 6 x 4.5cm negatives. All have illuminated f-stop rings for darkroom convenience, and provide instant selection of either click-stopped or clickless diaphragm setting. For click-stop operation, push the diaphragm ring toward the lens mount disk. For clickless, continuous control, pull the diaphragm ring toward the front of the lens until it moves freely throughout the f-stop range.



MINOLTA COLOR ANALYZER II

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This battery-operated companion to the Color Enlarger II is an on-easel unit for making color and exposure analysis of either color negatives or transparencies (slides). It has two programmable memory banks that can store color analysis for recall when needed. An accessory integrator attaches to the enlarger lens stage and combine the entire projected image of a negative or transparency to produce an average tone. This type of analysis is particular useful when there are no skin-tone areas in a scene. Programming and analysis indications are made by matching the brightness levels of two LED's.



SPECIFICATIONS

Type:	Diffusion type enlarger with continuous filtration for cyan, magenta and yellow	13
Light source:	Halogen lamp; 120v, 150w ESD type (U.S.A.) 15v, 150w Philips 6423 or Osram (Europe)	
Power Source:	117v 60Hz 150w (U.S.A.) 220/240v 50/60Hz 150w (Europe)	
Power supply module (Europe only):	Input; 220v or 240v output; 15v	
Filtration range:	Cyan and magenta; continuous CC 0-150 Yellow; continuous CC 0-200	
Lens mount:	Leica thread	
Negative sizes:	110/16mm, 35mm, 6 x 4.5cm, 6 x 6 cm, 6 x 7 cm	
Magnification ranges on the baseboard:	30mm lens: to 27.8X 50mm lens: to 13.3X 80mm lens: to 6.8X (Enlarger column can be reversed for greater magnifications.)	
Dimensions:	Baseboard: 48 x 54cm (18.8 x 21.2 in.)	
Other:	Lamp, glassless negative carrier	
Optional accessories:	Lens: C.E. Rokkor (-X) 30mm, 50mm, 80mm Glassless negative carriers: 6 x 7cm, 6 x 6cm, 6 x 4.5cm, 35mm, 110/16mm Glass carriers: 6 x 7cm, 6 x 6cm, 35mm Mounted transparency carriers: 35mm Color Analyzer II	

Specifications subject to change without notice

Minolta MINOLTA MASTERS PHOTOGRAPHY