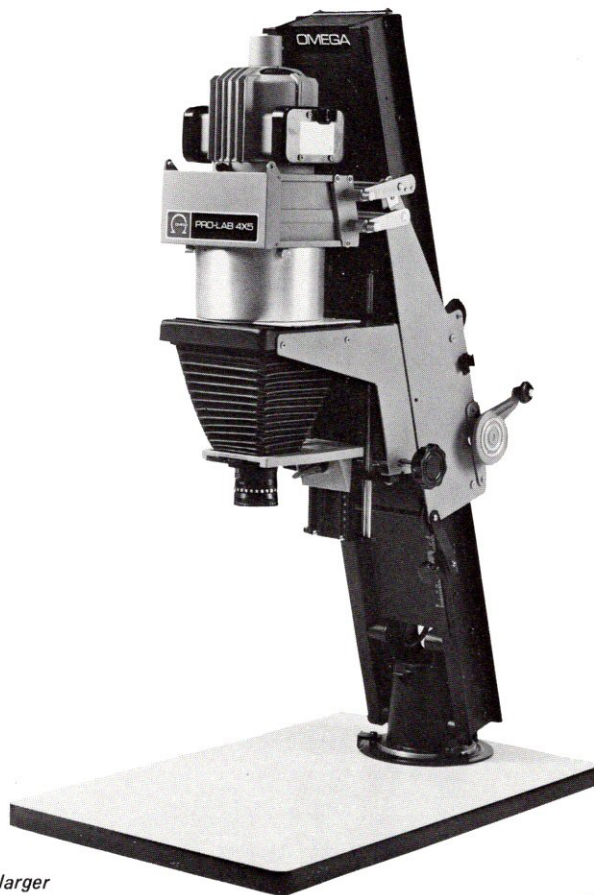


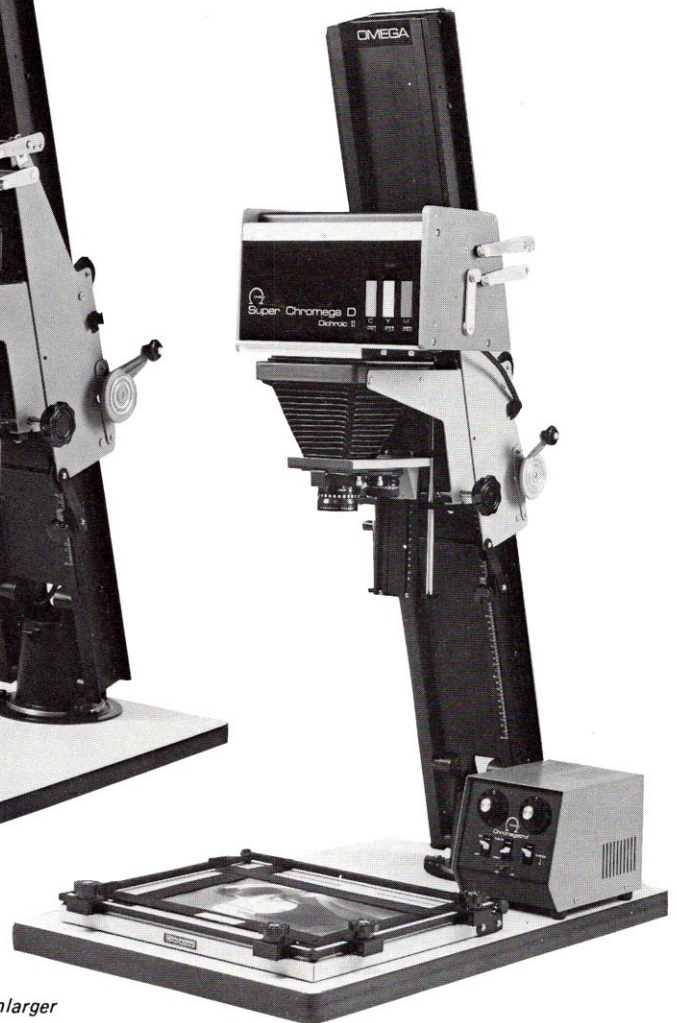
Omega[®]

D5V/D5V-XL Universal Condenser Enlargers and Super Chromega D Dichroic II Enlargers

For negatives to 4" x 5"



Omega D5V Universal Enlarger



Super Chromega D5-XL Universal Dichroic II Enlarger

OMEGA & SUPER CHROMEGA D SERIES ENLARGERS

THE PROFESSIONAL'S ENLARGER

It is a fact that more professional darkrooms use Omega and Super Chromega D-type 4"x5" enlargers than any other make or model. These enlargers have set the standards for performance, versatility, ruggedness and dependability. "D" enlargers are in use throughout the world, operating under all extremes of climate and temperature. They are found in a majority of commercial black and white and color laboratories and are widely used by industry, the armed forces, and government agencies. Many educational institutions and schools of photography favor them above all others.

A MODULAR APPROACH

The versatility of the Omega D system stems from its modular design. This permits matching different lamphouses to a choice of chassis. There is complete interchangeability of condenser and dichroic lamphouses by means of simple adapter kits. This offers the clear advantage of being able to convert to color at any time without having to invest in a completely new enlarger. Furthermore, such optional deluxe features as the Three Lens Turret, Dual Range Focusing Kit and Four-Bladed Masking Device may be installed at any time to upgrade the enlarger.

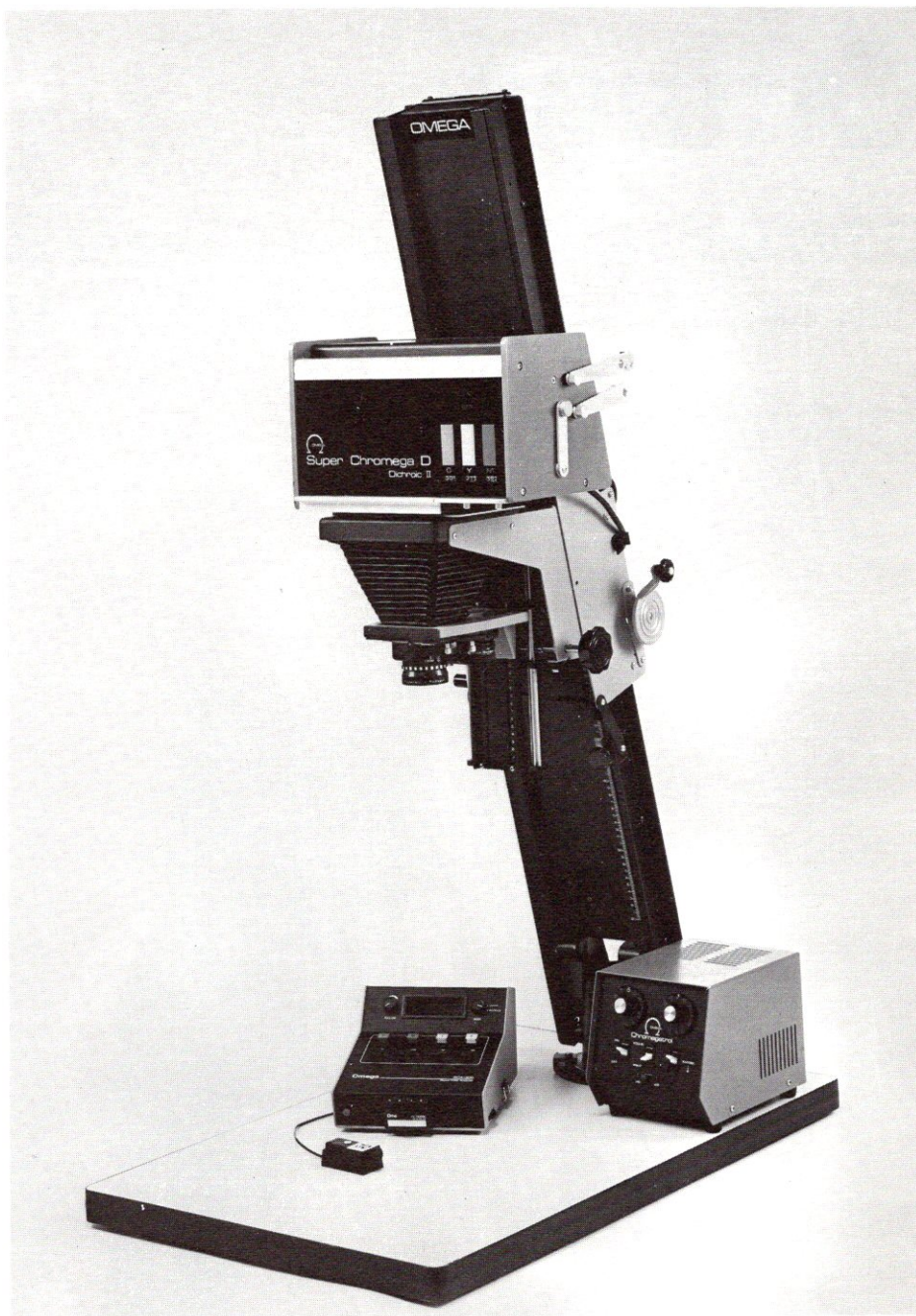
A GUIDE TO SELECTION

Since the Omega condenser models and Super Chromega Dichroic color enlargers use the same chassis, this brochure adheres to the modular concept and describes first the lamphouse options and then the complete enlarger combinations. If your principle interest is in a black and white condenser enlarger, please read the next page and

then turn to pages 6 and 7 for chassis selection. If you have decided on a color enlarger, please turn directly to the description starting on page 4.

In making your selection, consider a Super Chromega Dichroic even if your immediate requirement is for a black

and white enlarger only. More and more darkrooms are expanding into color and it might pay to install a Super Chromega right from the start. Dichroic color enlargers are excellent for black and white work and their diffused light source is preferred for many applications.



Chromega D5-XL illustrated with accessory Chromegatrol and SCA-300 Digital Color Analyzer.

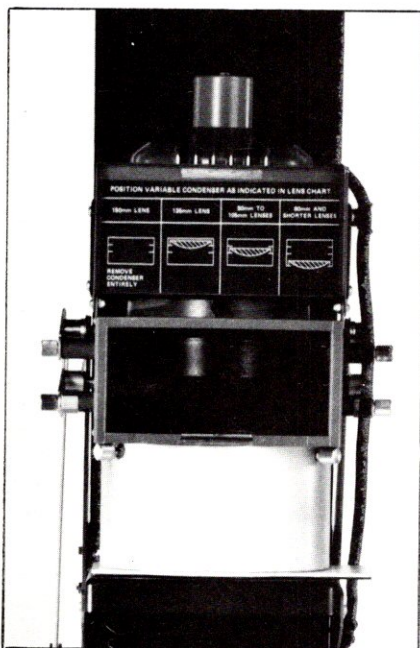
CONDENSER LAMPHOUSES

OMEGA DV VARIABLE TRIPLE CONDENSER LAMPHOUSES

Omega D5V, D5V-XL condenser enlargers are fitted with the DV condenser lamphouse which features two fixed condensers and a variable one to adjust the optical system to the negative format being printed. The classic, time-tested design of this lamphouse contributes to a workhorse enlarger specifically intended for day-in, day-out heavy professional use.

CONSTRUCTION

The DV lamphouse consists of three rugged sub-modules: the *lamp assembly*, *variable condenser housing*, and *fixed condenser carrier*. These three modules interconnect without tools and can be readily taken down for cleaning or routine service.



DV lamphouse with hinged light tight door open to show variable condenser set up.

The lamp and variable condenser modules are heavy, precision die castings, while the fixed condenser carrier is a brushed finished aluminum spinning. Painted parts have a special powder coat electrostatic finish which is much tougher, more scratch and chip resistant, and smoother than conventional paints.

OPTICAL SYSTEM

The optical system consists of two 6½" (165mm) fixed condensers and one 4-11/16" (118mm) variable condenser, adjustable for all enlarging lenses from 25mm to 150mm. The fixed condensers are carried in a spinning constructed to provide precise clearance between the negative and lower condenser surface to avoid the possibility of Newton rings.

The variable condenser is accessible by means of a light tight door. To prevent the possibility of scratching, the variable condenser is fully skirted, which is typical of the attention to detail that marks the superiority of the D enlargers.

All condensers are ground from heat resistant optical glass. They are free of bubbles and striations and are carefully polished for uniform illumination. The dimensions of these condensers maximize even light distribution.

ELECTRICAL

The DV lamphouse uses the standard PH 211, 75W lamp. A 150W lamp is also available. The PH 211 gives high printing speeds for short exposures and has good light pattern and contrast characteristics. The interior of the lamphouse assembly is black matte-finished to suppress reflections. For high reliability and maximum safety, the lamphouse uses a ceramic lamp socket and an 8½', 3-wire 18 gauge line cord with strain reliefs and molded 3-prong grounded-type plug.

COOLING

Efficient cooling is achieved both through radiation from the heavy finning and convection by means of light tight vents. Where special high-wattage lamps are used, an accessory blower is available.

LAMPHOUSE ATTACHMENTS

The DV lamphouse accepts a metal filter holder for 5½" square color printing or variable contrast filters. The

lamphouse also provides for insertion of 6" x 6½" heat absorbing glass, opal glass, or ground glass. All these are available as accessories.

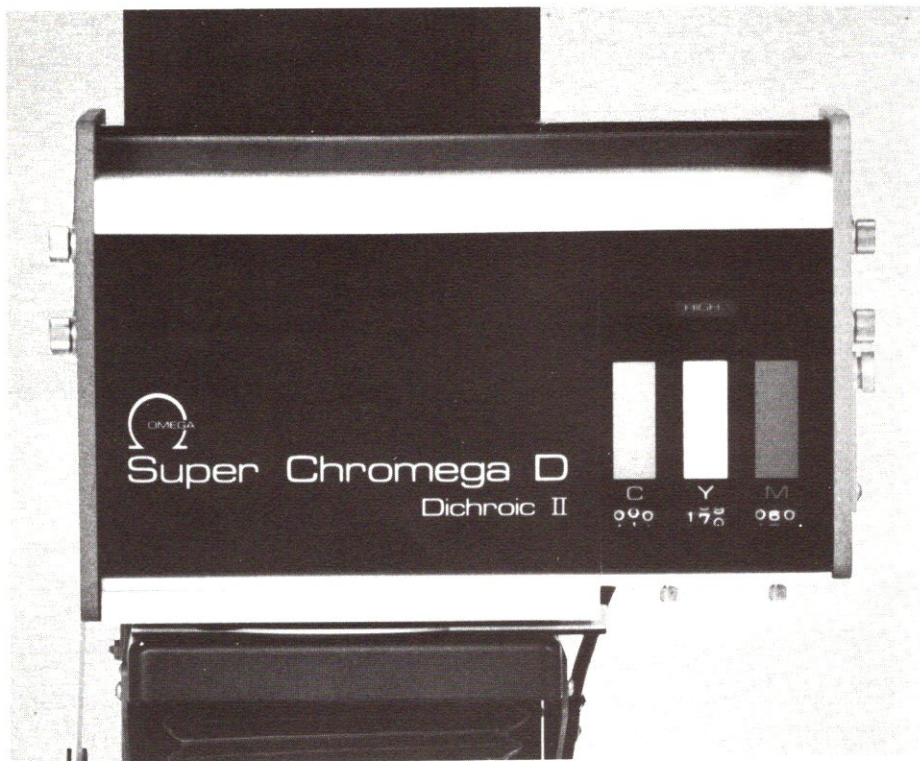
POINT SOURCE (DM) LAMPHOUSE



DM Lamphouse shown with D5 Chassis.

A point source lamphouse is available for microfilm applications. The DM Lamphouse is similar to the standard condenser lamphouses but has a specular (point source) light consisting of a clear 150W, 20V GE BEV lamp and power supply with variable illumination control. Where applicable, a 240V to 120V transformer is needed. DM lamphouses are used for microfilm work and other high contrast applications. Ask for special literature.

SUPER CHROMEGA D DICHROIC II



Super Chromega D Dichroic II Lamphouse

COLOR LAMPHOUSE

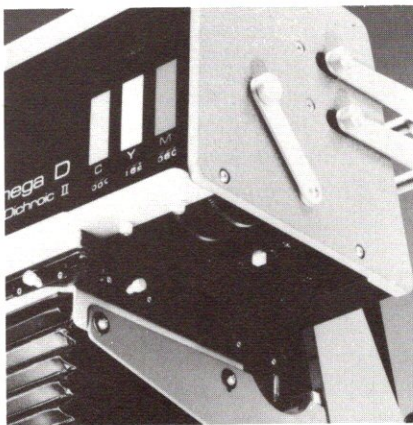
Omega pioneered the concept of enlargers with built-in, continuously variable color filtration. The Super Chromega D Dichroic II Lamphouse reflects that experience. It is an even more refined and advanced model of the original dichroic lamphouse, which established itself as the most successful professional color lamphouse ever introduced.

The Model II lamphouse offers every feature professional color printers demand, and maintains the performance and reliability standards that have established the Omega reputation. These features are:

ADJUSTABLE DIGITAL READOUTS

Filtration is set by geared thumbwheels, easily operable even when the enlarger is fully raised. Selected filtration is displayed on illuminated, color-coded digital readouts. These indicate color correction to 1 CC

with assured repeatability. The precision that such readouts afford permit high filter control gearing so that the full range from 0 to 170 can be dialed in less than one revolution of the thumbwheels. Of special interest to



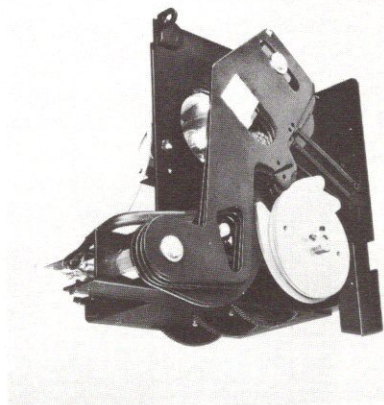
Color coded digital filtration readouts can be conveniently set by geared thumbwheels.

commercial color laboratories is the fact that these readouts can be disconnected from the filter drive and adjusted to compensate for calibration changes resulting from differences in

paper emulsions or lamps. Thus, Super Chromega enlargers in a multiple enlarger installation can be "zeroed" to one off-easel analyzer.

0-170 HIGH-RANGE FILTRATION

The development of second-generation dichroics now permit continuously variable color correction from 0 to 170, without the use of any supplementary filters. Super Chromega dichroics were especially formulated to Omega specifications, with hard vacuum deposited coatings that are unaffected by heat or humidity.



The lamp and filtration assembly shown above is the heart of the Super Chromega Dichroic lamphouse.

BUILT-IN UV AND IR FILTRATION

The importance of ultra-violet and infrared filtration in color printing is well recognized. Super Chromegas have this filtration built right into both the "DD" and "DB" light mixing chambers.

WHITE LIGHT FOCUSING

Speed and ease of scaling, composing and focusing is greatly enhanced through Super Chromega's White Light Focusing System. A flick of the operating lever at the side of the lamphouse instantly retracts the color filters from the light path without changing their settings. When ready to print, moving the lever back restores filtration to the original settings.

CALIBRATED LIGHT DISTRIBUTION

Unlike conventional color enlargers, the Super Chromega does not use standard diffusion material between the light source and negative. The Super Chromega diffuser is a specially tapered panel, calibrated to compensate for normal light fall-off at the corners. This innovation is so effective that fall-off actually approaches zero at 2X magnification.

ADVANCED MONO-LAMP ILLUMINATION

Super Chromega's highly efficient illumination system is based on the use

of a single, 250-watt, low-voltage quartz halogen lamp. Although printing speeds match or exceed those obtainable with twin-lamp enlargers, lamp replacement costs are cut in half. Moreover, the use of a single lamp keeps lamphouse temperatures down so that cooling can be accomplished by a built-in, quiet, vibration-free fan, rather than a bulky and noisy wall-mounted and hose connected blower.

Finally, the advantage of quartz-halogen illumination means that the lamp will not darken or change color temperature with age. This further promotes consistency, and repeatability.

POWER TOWER CONTROL CENTER



Front and rear views of Power Supply shows plug-in Solid State Voltage Stabilizer.

Two power supply modules are available for Super Chromega D Dichroic lamphouses: The standard power supply, or the Chromegatrol.

With the standard power supply and the solid state plug-in voltage stabilizer, they form a convenient Omega package as illustrated.

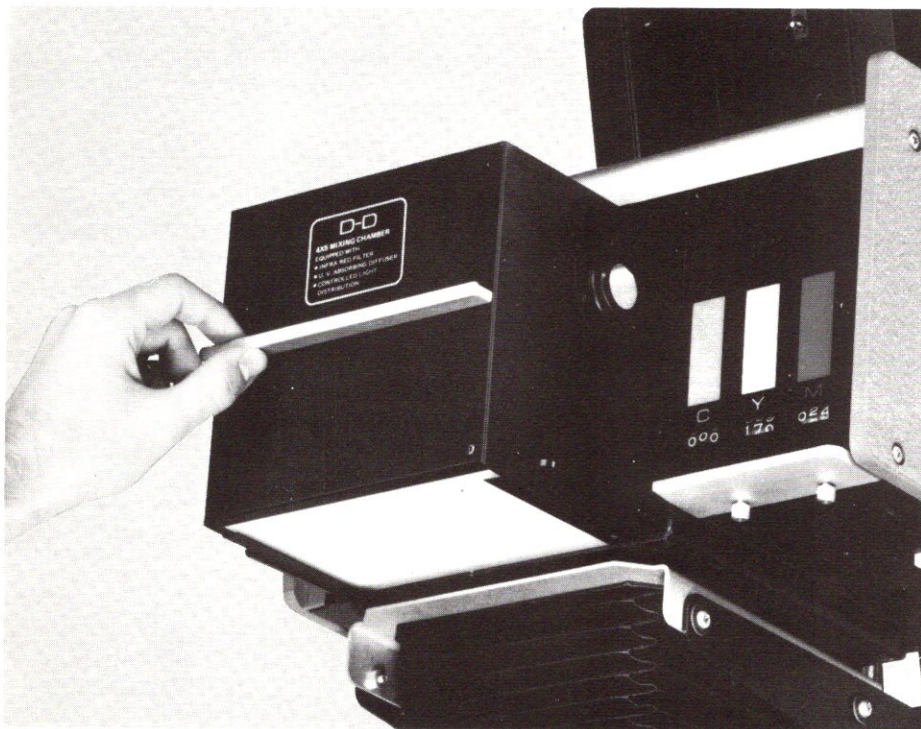
A complete single power supply/voltage stabilizer/electronic timer unit, the Chromegatrol, is also available, in 120 volt/60 Hz., or 220V/50 Hz. models.

ILLUMINATION CONTROL

At times the high light output of the lamphouse results in very short exposure times, as when making small prints from thin negatives. If longer exposures are desired, light output can be reduced by approximately two f/stops by operating the light mode lever. The light reduction is mechanical, rather than electrical, so color shift is negligible. This added convenience eliminates the need for costly neutral density filters.

SWITCHABLE PANEL ILLUMINATION

A slide switch on the underside of the lamphouse permits you to turn off the panel lamp illuminating the filtration readouts and light mode lever indicator. This affords absolute safety when working with high speed materials such as duping films.



Slide-in mixing chamber is easily accessible and can be interchanged in seconds.

INTERCHANGEABLE LIGHT MIXING CHAMBER

A slide-in light mixing chamber can be removed or inserted in seconds without tools or lamphouse removal. Supplied with the enlarger is the "DD" mixing chamber for all negatives from Minox to 4" x 5". It has a full 5" x 5" aperture for horizontal or vertical orientation of 4" x 5" negatives. An accessory "DB" mixing chamber is

available to provide even higher printing speeds for negatives up to 2 1/4" x 2 3/4". This chamber concentrates light to the smaller maximum negative area thus further reducing exposure times when making very large prints from small, dense negatives. The mixing chambers are protected against dust to keep their highly reflective lining clean.

A WIDE CHOICE OF CHASSIS

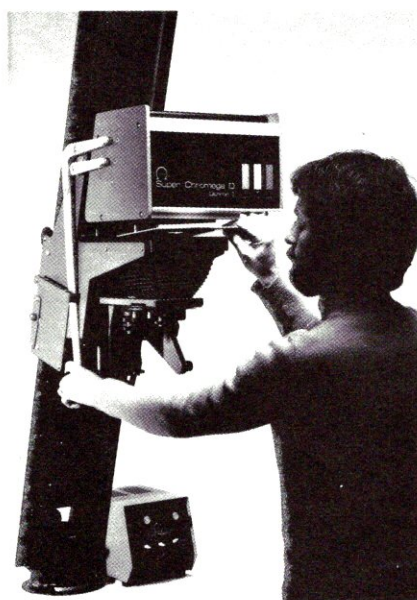
Both the DV condenser lamphouse and the Super Chromega Dichroic lamphouse are available in combination with any of two chassis. The only difference between condenser and dichroic models is in the mounting levers. And these can be exchanged at any time to convert a condenser enlarger to a dichroic one, and vice versa.

The chassis options are detailed under the individual descriptions. Note, however, that all are built to the same standards, with the same fine workmanship and of the same firstgrade materials.

Each Omega or Super Chromega D enlarger has the following important advantages:

HIGH-LIFT LAMPHOUSE SUSPENSION

Parallel lifting levers raise the lamphouse fully for easy access to the negative stage. This makes carrier placement fast and precise and permits dusting the negative if necessary, while observing it in the light beam of the lamphouse.



High lift, parallel lamphouse lifting mechanism for easy access to negative stage.

INCLINED DUAL GIRDERS

An Omega trademark, the inclined girder design gives maximum freedom of easel positioning. Dual alloy girders

with box section cross supports and a heavy base casting ensure rock-steady enlarging. For floor projection, the entire girder and carriage assembly can be rotated on the base.

COUNTERBALANCED CARRIAGE

Twin counterbalance springs neutralize the weight of the lamphouse and carriage assembly, affording safe and effortless carriage adjustment. Moreover, the carriage can be locked in position by a convenient brake knob.

RACK AND PINION MAGNIFICATION CONTROL

The carriage rides on four rollers and is lowered or raised by a double rack and pinion, operated by a large control wheel. The accuracy and smoothness of this system makes fine magnification adjustments simple and precise.

HIGH PRESSURE LAMINATED BASEBOARDS

Baseboards are constructed of very dense warp-resistant material covered by a high pressure laminate. The attractive white surface finish is useful for focusing and wipes clean with a damp cloth. Heavy vinyl banding protects baseboard edges while corner glides prevents marring the enlarger bench.

ELECTROSTATIC FINISH

Omega and Super Chromega enlarger chassis are finished with an unbelievably tough powder paint applied by a costly electrostatic process. This paint is actually fused to the metal to provide a wear and corrosion resistant coating with low reflectance levels.

OMEGA CHASSIS OPTIONS

One quality, a choice of features:

D5-XL

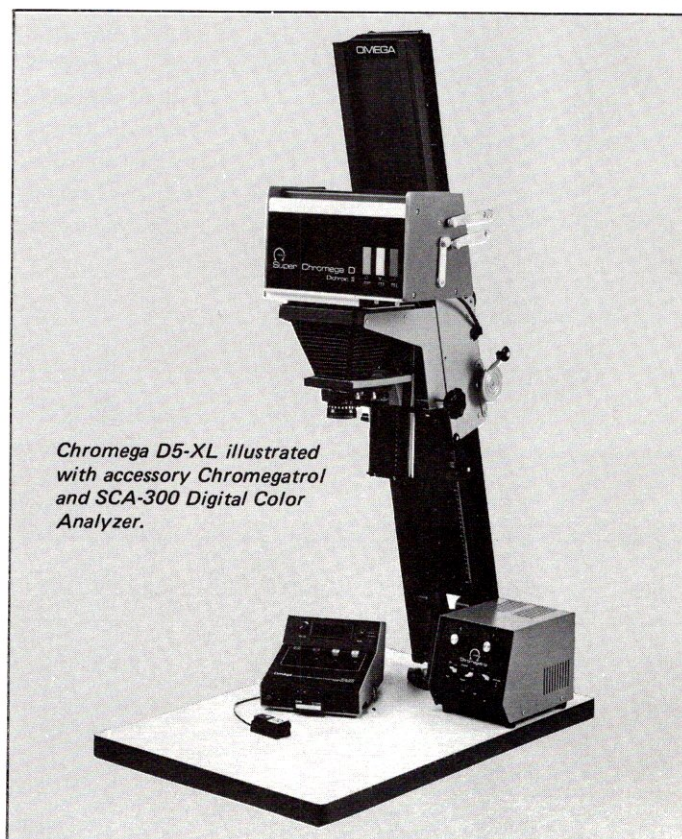
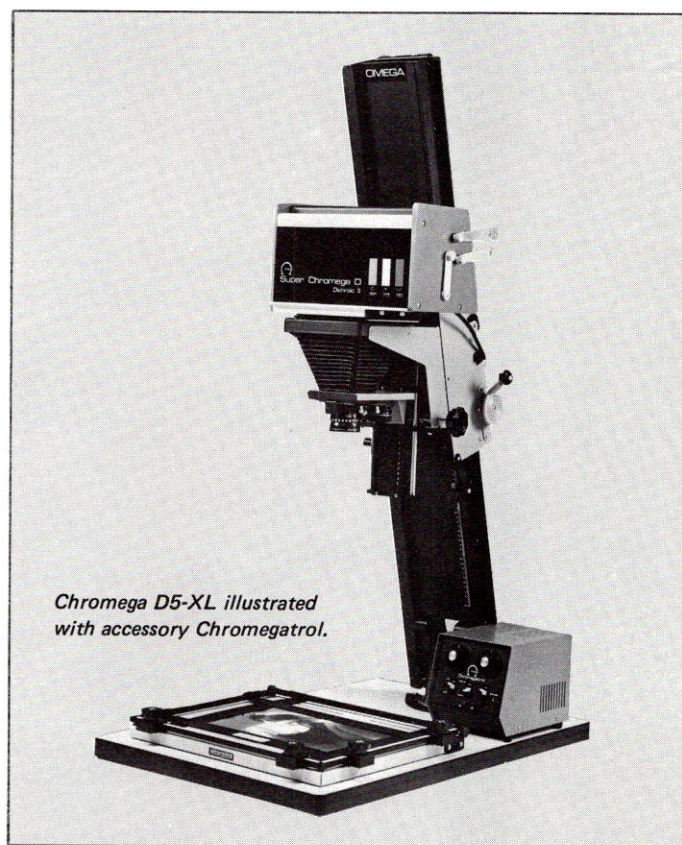
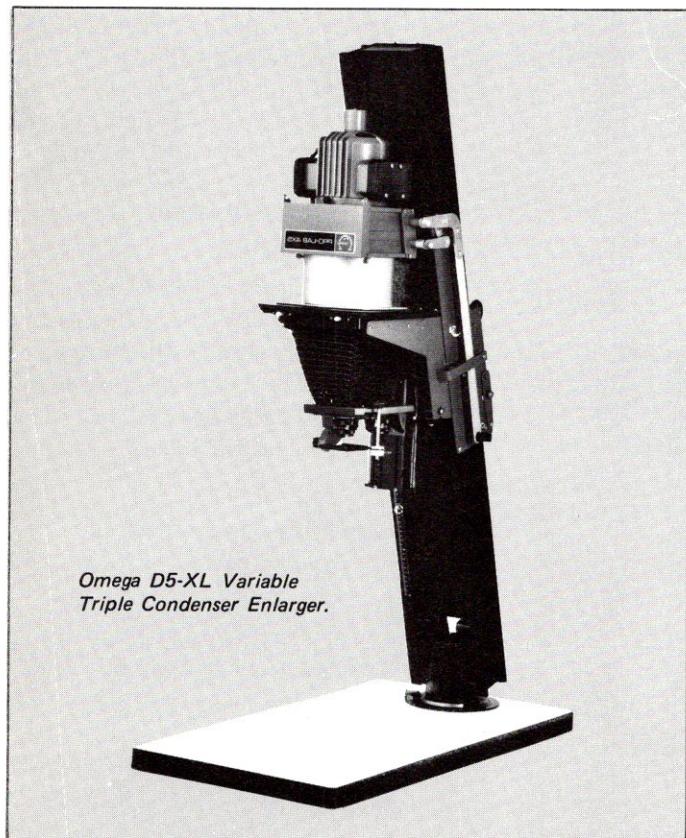
The D5 offers all the famous Omega

advantages, described at left, at the lowest possible price. In addition, Omega or Super Chromega D5 models feature:

- Precision friction drive focusing with double focusing rods for absolute smoothness without backlash or sideplay.
- Double extension bellows, adjustable for the focusing range of all lenses. This eliminates the need for individual lens cones and permits reductions without accessories.
- Horizontal or vertical negative carrier insertion.
- Fast, twist and lock interchangeable lens mounts.
- Rigid 45" girders.
- Sturdy 18" x 26" baseboard.

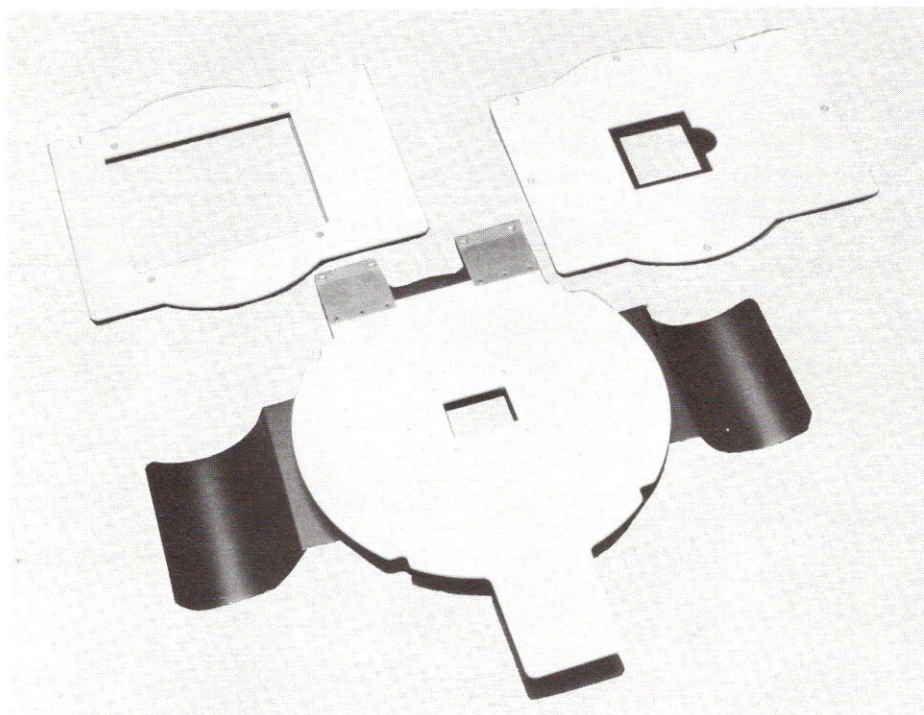
D5-XL

D5-XL (extra-long) models have oversize girders and baseboards for even larger on-baseboard magnification. The girders are 12" longer for a total length of 57". The baseboard measures 22"x34". Other features are the same as for the D5.



All of these enlargers are, of course, available with either the Super Chromega D II Lamphouse or DV Variable Condenser Lamphouse.

ATTACHMENTS AND ACCESSORIES



A sampling of the many D-type carriers. Shown: 4"x5" Glass Sandwich Carrier, mounted slide carrier, and spring hinged rapid shift 35mm carrier.

A wide range of enlarger attachments and accessories are available to meet all needs and applications. A sampling of this program is presented here.

NEGATIVE CARRIERS

The Omega and Super Chromega D-series enlargers use a common negative carrier system which includes a full selection of types and styles in all popular negative formats.

GLASSLESS SANDWICH CARRIERS

This is the most popular type. These are available for all formats from 16mm through 4 x 5. Glassless carriers eliminate the nuisance of dust collecting on glass surfaces and ensure adequate negative flatness in the majority of applications.

SPRING HINGED RAPID SHIFT CARRIERS

These are available in glass and glassless styles. They offer the advantage of faster and more convenient film transport since there is no need to remove the carrier from the enlarger to advance to the next frame.

SPECIAL PURPOSE CARRIERS

Special carriers include models for mounted and unmounted 35mm slides, carriers for glass film plates and 100' spool carriers for film sizes to 70mm.

CUSTOM CARRIERS

Custom size carriers are available on special order.

LENSMOUNTS

Mounts for all 25mm to 150mm lenses are available for all D models. The D5 and D5-XL use special oval lens plates for use either on a single-lens slide-in mount or optional three-lens turret.

D-SERIES NEGATIVE CARRIERS

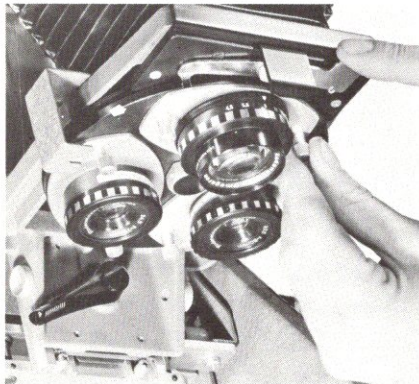
Type	Available Sizes	Type	Available Sizes
 SANDWICH TYPE, Glassless	Minox to 4"x5"	 MOUNTED TRANSPARENCY CARRIER	35mm
 SANDWICH TYPE, Glass	4"x5"	 UNMOUNTED TRANSPARENCY CARRIER w/Gray Scale Slot	35mm
 SPRING HINGED RAPID SHIFT, Glass	35mm to 4"x5"	 100' SPOOL CARRIER, RAPID SHIFT, Glassless	up to 70mm
 SPRING HINGED RAPID SHIFT, Glassless	35mm Half Frame to 2 1/4"x3 1/4"		

PRO-LAB D5 DELUXE CONVENIENCE OPTIONS

The modular design of the Pro-Lab D5 system offers the advantage of being able to add any or all of the deluxe convenience features described below. This means that you can purchase the basic enlarger, and upgrade it any time with the addition of these optional accessories, all of which can be easily and quickly installed.

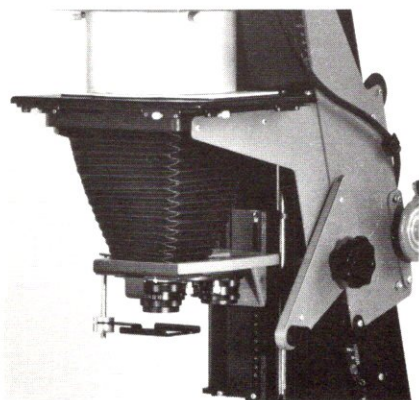
THREE LENS TURRET

The three-lens turret replaces the single lens mount, and merely slides in place.



It provides the convenience and speed of a turret. To change lenses, just press a latch and advance to next lens position. Lenses ranging from 50mm to 150mm may be used on the turret.

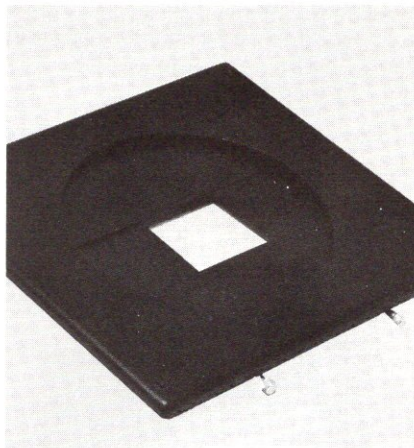
MICROMEGA DUAL RANGE FOCUSING KIT



The Micromega Dual Range Focusing Kit provides both coarse and fine focusing with D5 enlargers. Through the use of a belt-type reduction drive,

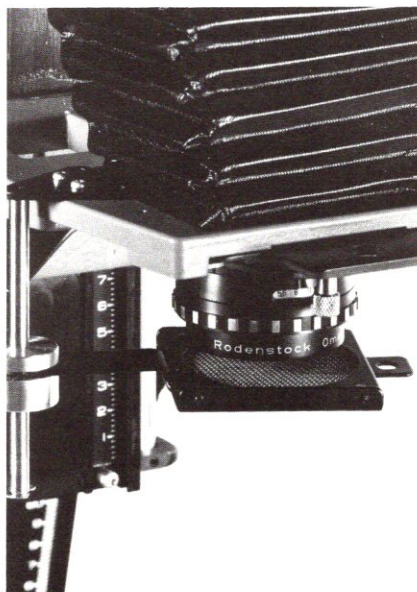
it increases focusing sensitivity, which is especially convenient with short focal lenses.

FOUR-BLADE MASKING DEVICE

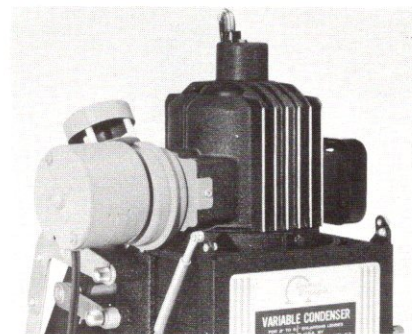


The detachable masking device provides the convenience of adjustable four-blade negative masking control for virtually any portion of any size negative.

FILTER HOLDER

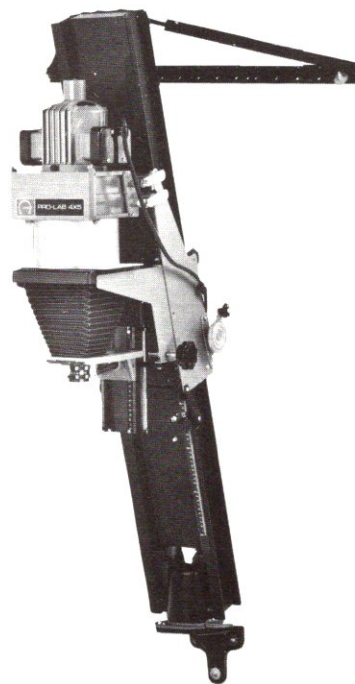


The filter holder for Pro-Lab D5 enlargers is supplied with a red filter, and adjustable bracket to clear different size lenses. It may be used to hold variable contrast filters and accessory portrait diffusion grid, and also accepts the integrating attachment for the Chromegatron Pro-Lab Analyzer.



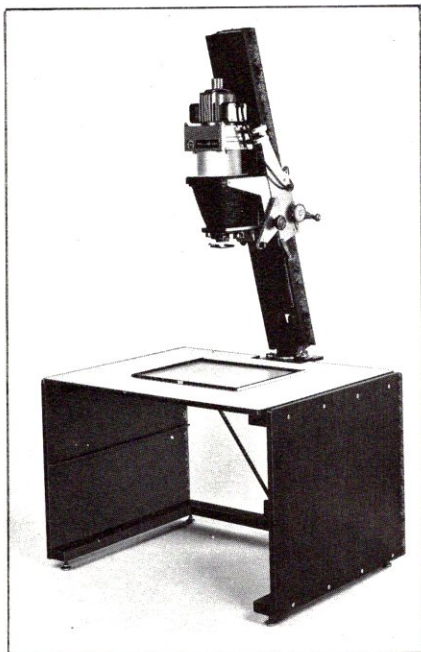
EXHAUST BLOWER ATTACHMENT

For those who desire to use special photoflood lamps with condenser models, a blower attachment is available to ensure proper cooling. The attachment is easily installed at the side of the lamp assembly.



HEAVY DUTY WALL MOUNT AND BRACE

For maximum rigidity, enlargers are often mounted to a darkroom structural wall. A cast steel wall mount and universal heavy duty wall brace are available for such installations. In addition, the wall brace can be used alone to add extra rigidity to bench mounted Omega D enlargers.

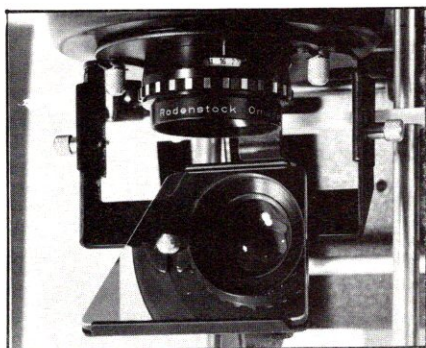


PROFESSIONAL FLOOR STAND

A custom floor stand specially designed for Omega D and E enlargers. This stable and strong unit is constructed of welded steel with high pressure laminated side plates and composing board. The board is adjustable to three levels and permits enlarging to 30"x40". This handsome stand is finished in black with walnut grained side panels. The composing board has both white and black working surfaces.

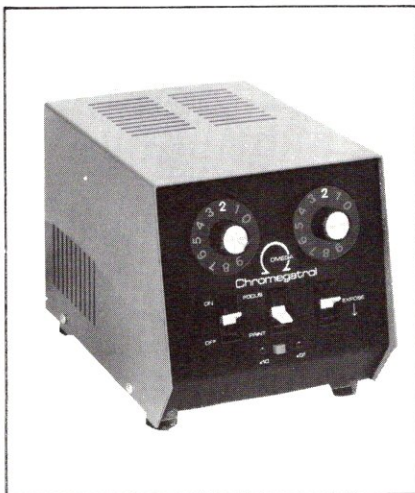
HORIZONTAL PROJECTION ATTACHMENT

For making murals and other oversize prints, the Horizontal Projection Attachment is used to project the image on a suitable wall. The attachment is a precision front-surfaced mirror which mounts at a 45° angle below the lens. It fits all D models.



CHROME GATROL

Complete combination power supply/electronic timer/voltage stabilizer unit for D and E Dichroic Enlargers. Dual timing range of 0-9.9 seconds in .1 second increments, or 0-99 seconds in full second increments; black-out digits with rotary decade switches control timed interval. Accessory double footswitch for remote focus/print sequence activation.



OMEGA SCA-300 DIGITAL COLOR ANALYZER

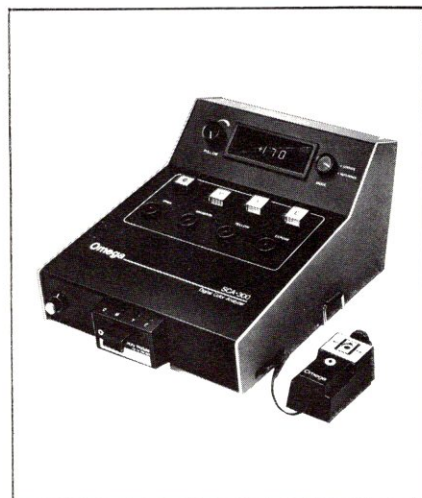
This revolutionary instrument, with its Silicon Blue Cells and 16 IC's (integrated circuits, equivalent to literally thousands of discrete electronic components) provides unprecedented linearity and accuracy of measurement.

It adds new dimensions of operating convenience, precision, repeatability, and dependability to the color printer — professional or advanced amateur.

The heart of the Omega SCA-300 Color Analyzer is an advanced design, tri-cell silicon blue detector probe with cosine correction to $\pm 30^\circ$ off the optical axis of the lens for maximum accuracy anywhere on the baseboard.

Each channel has built-in pre-amplification for added sensitivity and linearity . . . with color coded, illuminated push-button channel selector switches.

The compact probe offers a choice of 3mm and 5mm reading apertures — for selective spot analysis.



The program calibration system gives total accuracy and repeatability through a unique digital reference mode, for unmatched program resetting ease and convenience. Direct readout values of ± 199 cc's from programmed zero and .1 to 199 seconds exposure range provide fast, easy reading and adjustment.

Precision designed and manufactured to precise professional standards, the SCA-300 has a unique digital readout system (resettable anytime with 100% accuracy). Accessory plug-in memory modules, which can be programmed individually for each print process or material, are instantly interchangeable for fast, easy operation when more processes are used. One module is supplied with each SCA-300.

Fully featured for both the professional and serious darkroom hobbyist, the SCA-300 includes: clutch-actuated control knobs to assure that the information programmed into the analyzer is not accidentally changed; exclusive Electrostop[™] which adjusts the overall color sensitivity, with no effect on the stored program; temperature and voltage stabilization; universal 120/220 voltage switch; removable, flexible 8'

probe connecting cable; probe storage cradle, and light shock prevention so that cells are not blinded by accidental exposure to room lights.

The Omega SCA-300 Digital Color Analyzer. The finest instrument for your professional darkroom.

D-SERIES ENLARGERS

ON-BASEBOARD MAGNIFICATIONS					
LENS	MAXIMUM NEGATIVE COVERAGE	D-5		D-5XL	
		Min.	Max.	Min.	Max.
25mm (1")	Minox	.11	37.2	.11	49.0
28mm (1-3/16")	Minox	.12	34.8	.12	45.0
35mm (1-3/8")	35mm Half Frame	.16	29.5	.16	35.0
50mm (2")	35mm	.20	17.7	.20	24.0
75mm (3")	2 1/4" x 2 1/4"	.32	11.5	.32	15.3
80mm (3.2")	2 1/4" x 2 1/4"	.35	10.2	.35	14.2
90mm (3 1/2")	2 1/4" x 2 3/4"	.40	9.0	.40	12.4
105mm (4-1/8")	2 1/4" x 3 1/4"	.50	7.2	.50	10.3
135mm (5-3/8")	4" x 5"	.75	5.2	.75	7.3
150mm (6")	4" x 5"	.85	4.4	.85	6.5

- NOTES: ● Indicated reductions for 35mm and shorter lenses on D5 requires raising easel from baseboard.
● Magnifications larger than those indicated are available through floor projection, wall mounting of enlarger, use of horizontal projection mirror attachment, or floor stand.

ELECTRICAL SPECIFICATIONS For D5 Dichroic Enlargers	
Power Requirements:	117 VAC 50/60Hz. Power Supply fitted with internal transformer taps for conversion to 100-volt or 110-volt operation.
Enlarger Lamp:	Quartz-Halogen lamp with integral dichroic reflector, 250 watts, 24-volts. Cat. No. 471-029. Lamp Life Approximately 50 hours.
Panel Lamp:	Bayonet base type 6S6/DC 6-watts, 120 VAC. Cat. No. 471-031.
Cooling:	Internal axial-type, impedance-protected blower. Lifetime lubricated.

ELECTRICAL SPECIFICATIONS For D5V/DM Condenser Enlargers	
Power Requirements:	117VAC 50/60Hz. 3-wire Line Cord and grounded-type plug.
Enlarger Lamp:	No. 211 Type 75W, 120VAC 50/60Hz. Cat. No. 471-002. or 212 Type 150W/120VAC 50/60Hz. Cat. No. 471-003.
DM Lamphouse, Lamp:	20V/150W SC Pref. BEV Micro-Projection. Cat. No. 471-022.

WEIGHTS AND DIMENSIONS				
Model	Girder Length	Max. Height	Baseboard	Shipping Weight
D5 Dichroic w/Std. Power Supply	42"	52"	18"x26"	102 lbs.
D5 Dichroic w/Chromegatrol	42"	52"	18"x26"	112 lbs.
D5V XL	54"	69"	22"x34"	104 lbs.
D5XL Dichroic w/Std. Power Supply	54"	64"	22"x34"	130 lbs.
D5XL Dichroic w/Chromegatrol	54"	64"	22"x34"	140 lbs.

Specifications subject to change without notice.

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