

Omega[®]

Super Chromega F Dichroic II Enlarger

For negatives to 10"x10"



SUPER CHROMEGA F DICHROIC II ENLARGER

THE PROFESSIONAL'S ENLARGER

It is a fact that more professional darkrooms use Omega and Chromega enlargers than any other make or model. These enlargers have set the standards for performance, versatility, ruggedness and dependability. Omega and Chromega 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.

FEATURES

Heavy Duty Chassis

Cantilevered, 98" high quadruple aluminum girders on a welded steel base provide stability without vibration at any position of the enlarger head. The base features heavy-duty casters for easy movement and nylon, ball-joint leveling locking pads.

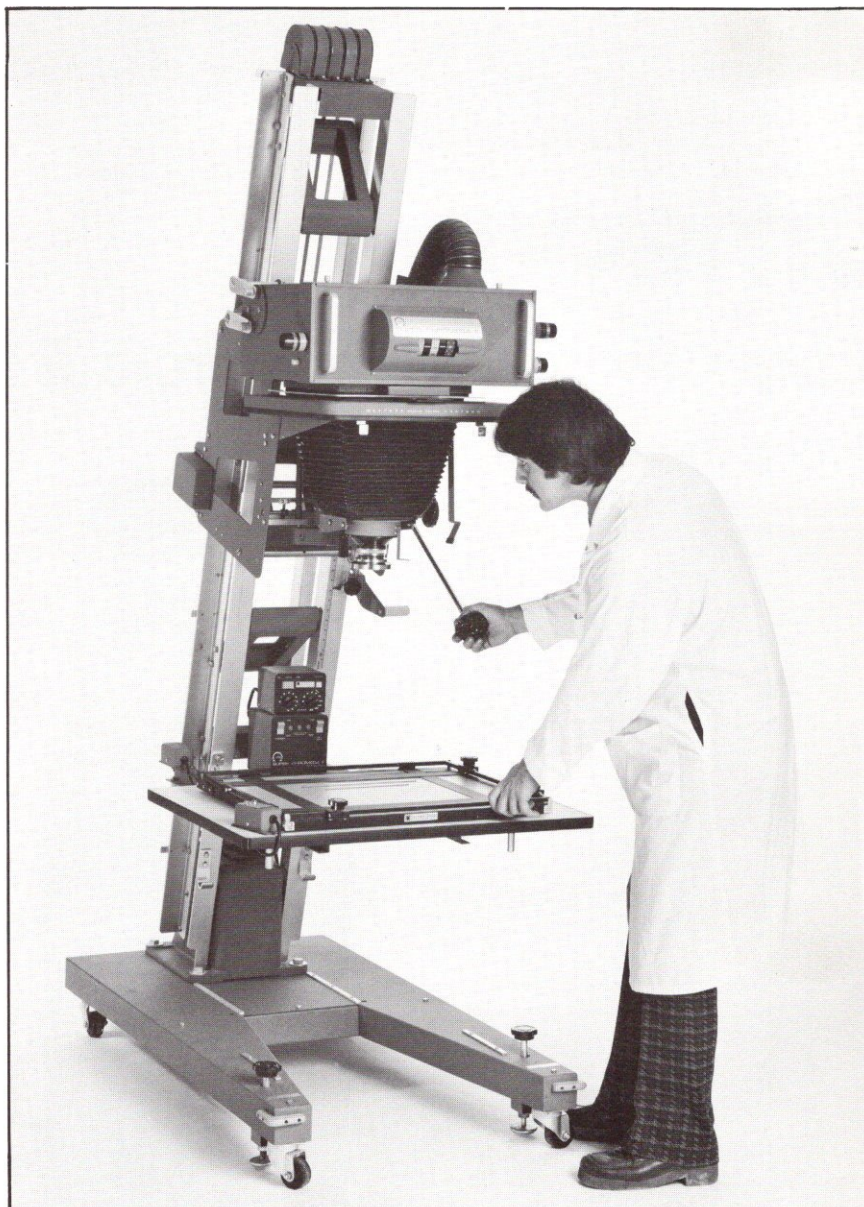
A large handcrank raises or lowers the counterbalanced lamphouse assembly quickly and easily. Optionally, the same function may be performed by a pushbutton-operated remote control accessory, the Omega Powerlift.

Lever action raises or lowers the entire lamphouse, providing for dust control between the lamphouse and the negative carrier. This also simplifies the insertion or removal of the negative carrier, and provides for positive pressure alignment of the film plane for film flatness.

10"x10" Negative Stage

With a full 10"x10" negative stage for horizontal or vertical orientation of 8"x10" negatives or the use of a 9-1/2" aerial film, the Super Chromega F is designed to meet the large format color printing requirements of professional and in-house industrial color laboratories.

The main film stage accepts a simple book-type universal glass negative carrier for film sizes up to 10"x10". This unit may be rotated 180°.



Super Chromega F (10"x10") Dichroic II Enlarger

Fourway, individually adjustable masks permit masking of the negative, down to 4"x5" size with pre-calibrated settings.

The micrometer friction-drive focusing mechanism can be operated from the side or the front of the enlarger or, when the head is in the high elevation, by means of a telescoping focusing arm.

Extra-long bellows are adjustable for extreme reductions.

A warp-proof, hardwood baseboard measures 24"x32" and is usable in three

convenient positions, from 10" (for maximum magnification) to 30" (normal working height) above floor level.

OMEGA Power Lift Attachment

For ease of operation and convenience, the carriage assembly can be raised or lowered by remote control, with the use of the accessory OMEGA power lift attachment. The complete unit is supplied with a remote control switch for 117VAC, 50/60 Hz. operation.

SUPER CHROMEGA F DICHROIC II LAMPHOUSE

The Super Chromega F Dichroic II Lamphouse is designed to provide a highly accurate, repeatable, non-fading light source and color filtration system for precise and efficient enlargement of color negatives and duplication of color transparencies.

The Dichroic Lamphouse consists of the lamphouse, cooling system and power supply.

The Super Chromega "F" Dichroic II Lamphouse is adaptable to the Omega F and FC Chassis, by means of a chassis adapter kit (Cat. No. 429-139) which includes a set of crossrods and lifting lever assembly.

The Super Chromega Dichroic Lamphouse has many important features and operating advantages. Many of these features are well known to users of acetate filter Chromega Lamphouses. Others, however, are unique to this highly advanced Dichroic color head.

FEATURES

Built-in Hi-range 0-170 Stepless Dichroic Color Filtration

The Lamphouse incorporates a highly accurate variable color filtration system, whereby precise filtration is achieved by means of specially designed transmission dichroics. These second generation filters transmit the intended color component of a white light beam to match the characteristics of color emulsions, and reflect the complementary color. Unlike acetate filter systems, dichroics are virtually indestructible under constant professional use and will not fade, regardless of heat or environmental conditions. The highly sophisticated dichroic coatings are applied in multiple layers of microscopic thickness. As a result, Super Chromega Dichroic filters offer the greatest filtration range (from 0 to 170) ever achieved in dichroic filtration systems.

Filtration settings are numerically displayed on large, illuminated "drum" scales. These permit precise filtration control and repeatability with extreme accuracy. Settings are marked in increments of .05cc. The filtration control knobs are equipped with extension chains for convenient adjustment when the enlarger is elevated.



Super Chromega F (10x10") Dichroic II Lamphouse

Built-In Infrared Filtration

The lamphouse is equipped with built-in infrared filters, mounted in the entrance "ports" to the mixing chambers. They are designed to reduce the adverse effects of infrared rays on color duplication film, color negatives and color printing papers. In addition, they substantially aid in achieving repeatability and accuracy when a color analyzer is employed. Infrared filters also help give an analyzer the ability to measure the potential spectral differences between different sets of quartz halogen lamps. As a result, "down time" is reduced to an absolute minimum following lamp change and continuity of production is assured.

Quartz Halogen Lamp

The lamphouse is equipped with four 250W quartz halogen lamps, incorporating built-in dichroic reflectors. This insures uniform illumination over the full 10"x10" opening, and permits far shorter exposure times than were possible with previous illumination systems.

Moreover, the lamps will not blacken with age, ensuring that light output and color temperature remain constant throughout the lamp's operating life (nominally 50 hours).

Interchangeable Light Intensification Mask

The Super Chromega "F" Dichroic II lamphouse is a diffusion light source and is supplied with a 10"x10" tapered opal diffuser for 8"x10" and 9"x9" negatives. A set of interchangeable light intensification masks, for maximizing light output and efficiency for negative formats smaller than maximum format, is available as an accessory. The complete set is supplied with masks for 5"x7", 4"x5" and 2-1/4"x2-3/4" film formats. The masks fit into the slide-in filter drawer (in place of the 10"x10" tapered opal diffuser) at the bottom of the lamphouse.

Unused light is reflected off the white surface of the mask and redirected by multiple diffused reflections off the sidewalls of the mixing chamber, downward through the enlarger's optical path.

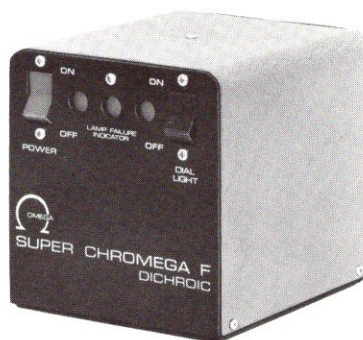
In addition, each mask has a specifically designed tapered diffuser to provide controlled light distribution of remarkable uniformity with lenses of specific focal length recommended for each negative size. Minimal fall-off is achieved with all formats from 8"x10" to 2-1/4"x2-3/4".

White Light Focusing

A convenient control lever permits full power "white light" for focusing and composing. When operated, this retracts the entire filtration assembly out of the light path without disturbing filtration settings. An indicator window on the front panel of the lamphouse will glow for your convenience when the white light focusing lever is being used. After focusing, a flick of the lever returns the filters to their pre-selected settings, blocking the indicator window.

Cooling

Efficient cooling is provided by a heavy-duty, wall-mounted fan assembly which connects to the lamphouse by means of a strong, durable, flexible coupling hose. A thermostat control located in the lamphouse will automatically turn off all four Dichroic lamps in the unlikely event that the inside temperature of the lamphouse exceeds 130°F. After the lamphouse cools down to approximately 100°F, the lamps will automatically come on and normal operation can be resumed. These two features will assure maximum lamp life.



Power Supply II

The Super Chromega Dichroic Power Supply provides low voltage to the quartz-halogen lamps and full line voltage to the cooling fan, filtration system and dial lights.

It has several unique built-in safety features which prevent overheating of the lamphouse and makeovers due to lamp failures.

In the event any of the quartz-halogen lamps fail to operate, one or more of the three white windows at the front of the

Power Supply will light, indicating a lamp failure.

Overload protection is provided by an interlock system between the blower and the lamphouse, which does not permit the lamphouse to receive power if the cooling system is inoperative.

A separate power switch for the dial light permits the operator to work in total darkness, or turn on the dial light to check and adjust filter settings.

OMEGA Power Relay

The accessory OMEGA Power Relay is especially designed to allow any photographic timer to automatically switch electrical loads up to 1000 watts. It will remove the electrical load from the timer and prevent timer overload. It must be used with timers rated below 1000 watts, in conjunction with the Super Chromega F Dichroic Lamphouse. The power relay used in combination with an electronic timer, such as the Omega Electronic Timer II or the Omega Digital Timer, will provide an ideal timing system for the most demanding professional requirements.

TECHNICAL INFORMATION On-Baseboard Magnifications			
Lens	Maximum Negative Coverage	Magnification Min. Max.	
100mm (4")	2-1/4"x2-3/4"	0.2x	16.2x
105mm* (4-1/8")	2-1/4"x2-3/4"	0.21x	15.5x
135mm (5-3/8")	4"x5"	0.29x	11.2x
150mm* (6")	4"x5"	0.33x	10.2x
180mm (7-1/4")	5"x7"	0.36x	8.9x
210mm* (8-3/8")	5"x7"	0.45x	6.7x
300mm* (12")	8"x10" and 9"x9" aerial	0.8x	4x

*These lenses are recommended for maximum light distribution result in combination with the correct light intensifications masks for the negative size to be used. Refer to the latest Omega Price List for Catalog Number and Prices.

SPECIFICATIONS Super Chromega F Dichroic II Enlarger/Chassis	
Maximum Height fully extended with lamphouse	100 inches
Minimum Height, girder only	96 inches
Floor Space Required	55"x32"
Baseboard Dimensions	24"x32"
Maximum Bellows Extension	22"
Shipping Dimensions	102"x34"x60"
Shipping Weight Chassis only	500 pounds

SPECIFICATIONS Super Chromega F Dichroic II Lamphouse	
Power Requirements:	117VAC 50/60Hz. Power Supply fitted with internal transformer taps for conversion to 100 volt or 110 volt operation.
Enlarger Lamp:	4 Quartz Halogen lamps with integral dichroic reflector, 250 watts, 22.5 volts. Cat. No. 471-029. Lamp Life approximately 50 hours.
Filtration Range:	0-170cc. Cyan, Magenta and yellow.
Cooling:	Wall mounted blower with 6 ft. flexible connecting hose.
Dimensions:	19"x26"x9-1/4"
Weight:	48 pounds
Shipping Dimensions:	40"x22"x15"
Shipping Weight:	75 pounds.

Specifications subject to change without notice.

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