



Leica M844 F20

Premium Optics Surgical Microscope for Ophthalmology

Living up to Life

Leica
MICROSYSTEMS

Leica M844 F20 Technical Data

Electrical data	
Power supply	100–240 VAC ($\pm 10\%$), 50/60 Hz
Power consumption	250 VA
Classification	Class I

Microscope Leica M844	
Magnification changer	APO-Zoom 6:1, motorized, with 4 separate beam paths
Magnification	3.5 \times – 21 \times (WD 175 mm, 10 \times eyepieces)
Optics	APO-chromatic corrected optics
Field diameter	7 mm – 80 mm
Working distance	175 mm, 200 mm and 225 mm
Focus range	54 mm, motorized, with automatic reset
Eyepieces	Widefield eyepieces for eyeglass wearers (8.33 \times , 10 \times , 12.5 \times) Dioptric setting ± 5 with adjustable eye cup
Objectives	Leica OptiChrome™, WD 175 mm, APO Leica OptiChrome™, WD 200 mm, APO Leica OptiChrome™, WD 225 mm, APO (WD = working distance)

Illumination	
Quick-change lamp mount	With two 12 V / 50 W halogen lamps
Filters	IR-barrier filter, UV-barrier filter, two built-in filter holders for optional filters

Stand Leica F20	
Type	Floor stand with 3 friction brakes Alternatives: Floor stand F40 with electromagnetic brakes, Ceiling mount C40 or Telescope mount CT40
Balancing	Continuously adjustable gas spring
Load	Max. 11.5 kg accessories attached to the microscope
Reach	Max. 1480 mm
Vertical range	650 mm
Transport height	Min. 1940 mm
Weight	Approx. 270 kg as a fully configured system
XY-unit	Motorized, movement range 50 x 50 mm, with automatic reset
Tilt mechanism	Motorized, +15° / –50°
Hand / foot switches	16- or 12-function foot switch with controls arranged longitudinally or transversally, with cable or wireless 12-function hand switch
Control unit	Two-in-one display, control and video display in one. The latest electronic control for the continuous governing of all motor functions and the light intensity. Data shown by means of LCD, with adjustable contrast and brightness. Operation by modern touch-panel control. ISUS™ Intelligent SetUp System, menu selection based on unique software for user specific configuration, with built-in electronic auto-diagnosis and user support.

Accessories Leica M844	
0° assistant attachment	100% stereopsis at same magnification, including documentation interface, rotatable from side to side (temporal approach), built-in fine focusing, rotatable ring for binocular tube
Double wing	For three observers simultaneously
TV / Photo	Leica 2D video systems Leica MDRS4 digital recording system Leica Zoom Video Adapter (VA) f = 35 – 100 mm, Manual VA 55/70 mm, Remote VA 55/70 mm Photo/TV dual attachment: f = 60/85/107 mm for TV, f = 250/350 mm for 35 mm camera Photo tube f = 250/350 mm
Wide-angle observation	BIOM, EIBOS
Inverters	AVI, SDI, OIVSL, ROLS
Laser	Can be fitted, adapters available from laser suppliers
Slit lamp	Motorized travel $\pm 23^\circ$, slit width 0.01 – 15 mm, length 3 – 15 mm, Rotatable 180°, quick lamp-changer, made by Leica Microsystems
Asepsis	Sterilizable components for all drive knobs, commercially available drapes

Standards	
Guideline 93/42/EEC for medical products. Classification: Class I, in compliance with appendix IX, rule 1, with reference to rule 12 of the directive. Medical Electrical Equipment, Part 1: General Requirements for Safety IEC 60601-1; EN 60601-1; UL60601-1; CAN/CSA-C22.2 NO. 601.1-M90. Electromagnetic compatibility IEC 60601-1-2; EN 60601-1-2. Leica Microsystems (Schweiz) AG holds the management system certificates for the international standards ISO 9001 / ISO 13485 and ISO 14001 relating to quality management, quality assurance and environmental management.	

