Canon

SUPER E20





A Higher Standard in Studio Lenses That Will Not Compromise Your Budget





E20x8B IE 8-160mm 1:1.5



Canon proudly announces the latest addition to our line of economical yet high quality studio lenses. "SUPER E20". The "SUPER E20", also known as the E20X8BIE, incorporates many of the same features and functions as the J20 Super, the standard of the broadcast industry with more than 2000 units sold worldwide.

Those features include our exclusive "IF" Internal Focus System and the optional "CROSSOVER" System for seamless 4X3 and 16X9 production on switchable cameras.

When used in conjunction with portable cameras, the "SUPER E20" features a unique Built In Supporter for the lens and camera combination.

HIGH MTF PERFORMANCE

The height of the 16:9 format is 20% shorter than that of the current 4:3 format, thus the scanning lines are 20% greater. As a result, higher resolution is required for the 16:9 format. In order to achieve this, the "SUPER E20" Provides minimum aberrations by the employment of 3 group IF (Internal Focusing), Hi-UD glasses (High Index Ultra Low Dispersion glass) and Canon's unique fluorite. The "SUPER E20" succeeds in having higher MTF performance, correspondent to 6MHz, that is necessary for the 16:9 format.

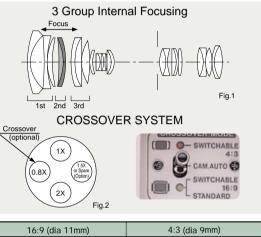
3 Group Internal Focusing

In Canon's unique IF system, the front section is divided into three groupsconcave, convex convex-and the middle lens moves for focusing. (Fig.1) By employing the 3 group IF system, the lens can achieve minimized variation

of aberrations while focusing, minimized distortion and a high optical performance even though SUPER E20 has a wide angle thats starts from 8mm.

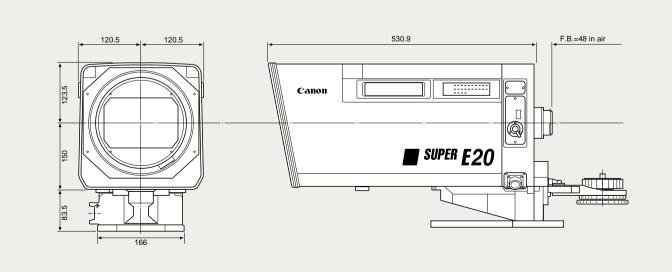
CANON"CROSSOVER"SYSTEM

All the Super series of lenses, including the new SUPER E20 are now optionally available with "CROSSOVER" compatibility for most 16:9/4:3. The 4 position extender turret incorporates a 0.8x "CROSSOVER" unit in addition to the normal extenders i.e. 1.0x, 1.5x, or 2.0x (Fig.2). When the camera switches to the 4:3 mode, the extender turret rotates to the 0.8x position. The 0.8x "CROSSOVER" unit reduces the diameter of the image from 11mm to 9mm thus shortening the focal length to produce an identical picture angle of view. In essence, the 0.8x "CROSSOVER" unit acts as a 1.0x extender for the switched 4:3 aspect ratio. (Fig.3)

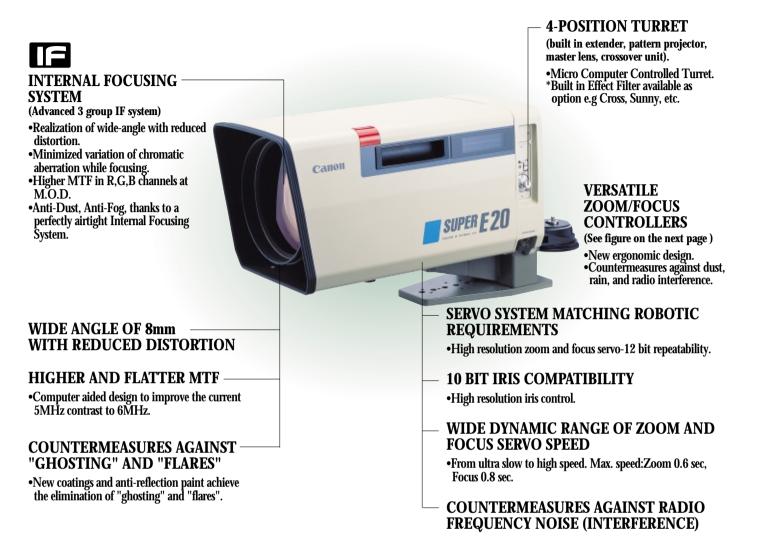


16	5:9 (dia 11m	m)	4)	
Extender	Focal Length	F stop	Extender	Focal Length	F stop
0.8X			1.0X	6.6-132mm	1.5
1.0X	8-160mm	1.5	1.2X	8-160mm	1.5
2.0X	16-320mm	3.0	2.4X	16-320mm	3.0
					Fig. 2

Fig.3

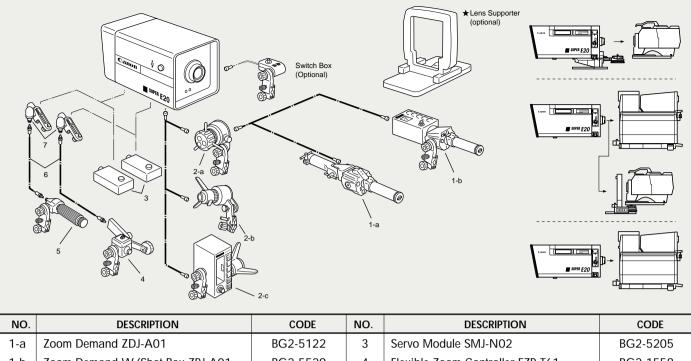






	NORMAL 4 : 3		16 : 9		SWITCHABLE 4 : 3 (with crossover unit)		
Built-in Extender	1.0×	2.0×	1.0×	2.0×	1.0×	1.2×	2.4×
Zoom Ratio	20×						
Range of Focal Length	8~160mm	16~320mm	8~160mm	16~320mm	6.6~132mm	8~160mm	16~320mm
Maximum Relative Aperture	1:1.5 at 8~118mm 1:1.9 at 160mm	1:3.0 at 16~236mm 1:3.8 at 320mm	1:1.5 at 8~118mm 1:1.9 at 160mm	1:3.0 at 16~236mm 1:3.8 at 320mm	1:1.5 at 6.6~120mm 1:1.55 at 132mm	1:1.5 at 8~118mm 1:1.9 at 160mm	1:3.0 at 16~236mm 1:3.8 at 320mm
Angular Field of View	57.6°×44.8°at 8mm 3.15°×2.36°at 160mm	30.8°×23.3°at 16mm 1.58°×1.18°at 320mm	61.9°×37.3°at 8mm 3.44°×1.93°at 160mm	33.4°×19.2°at 16mm 1.72°×0.97°at 320mm	57.2°×44.5°at 6.6mm 3.12°×2.34°at 132mm	48.5°×37.3°at 8mm 2.58°×1.93°at 160mm	25.4°×19.2°at 16mm 1.29°×0.97°at 320mm
Minimum Object Distance (M.O.D.)	0.6m from front lens vertex (with macro M.O.D:0.2m)						
Object Dimensions at M.O.D.	86.0×64.5cm at8mm 4.3×3.2cm at 160mm	43.0×32.3cm at 16mm 2.2×1.6cm at 320mm	93.8×52.8cm at 8mm 4.7×2.6cm at 160mm	46.9×26.4cm at 16mm 2.3×1.3cm at 320mm	85.3×64.0cm at 6.6mm 4.3×3.2cm at 132mm		35.2×26.4cm at 16mm 1.8×1.3cm at 320mm
Size	Size 241(W)×273.5(H)×530.9(L)mm						
Weight (Approx.)	16kg(35lbs)						
Built-in Pattern Projector	Optionally available						

Note ; SUPER E20 for 1/2 inch cameras is also available. For details , please contact your local Canon office.



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1-a	Zoom Demand ZDJ-A01	BG2-5122	3	Servo Module SMJ-N02	BG2-5205
1-b	Zoom Demand W/Shot Box ZPJ-A01	BG2-5529	4	Flexible Zoom Controller FZP-T61	BG2-1558
2-a	Focus Demand FDJ-I01	BG2-5001	5	Flexible Focus Controller FFP-T61	BG2-1557
2-b	Focus Demand FDJ-H01	BG2-5003	6	Flexible Cable 30"	
2-c	Focus Demand W/Shot Box FPJ-K02	BG2-5506	7	Flexible Module FMJ-452	BG2-5305

	OPER	ATION	COMPOSITION		
APPLICATION	ZOOM	FOCUS	ZOOM	FOCUS	
Manual	Flexible Cable Drive	Flexible Cable Drive	4, 6, 7	5, 6, 7	
Semi-Servo	Servo	Flexible Cable Drive	1, 3	5, 6, 7	
Full-Servo	Servo	Servo	1, 3	2, 3	

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