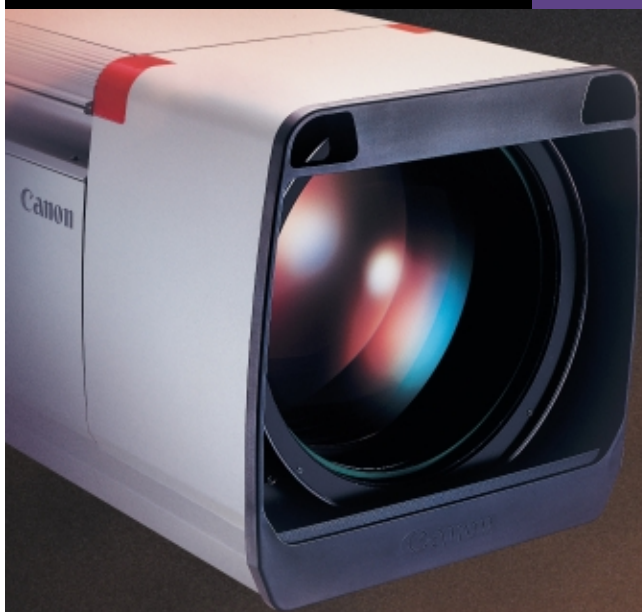


Canon

SUPER E47



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



SUPER E47 **A Higher Standard in Field Lenses That Will Not Compromise Your Budget**

E47x9.5B IE 9.5-450mm 1:1.4



Canon proudly announces the latest addition to our line of economical yet high quality field lenses, "SUPER E47". The "SUPER E47", also known as the E47X9.5BIE, incorporates many of the same features and functions as the industry standard Super Series of field lenses. Those features include the optional "CROSSOVER" System for seamless 4X3 and 16X9 production on switchable cameras.

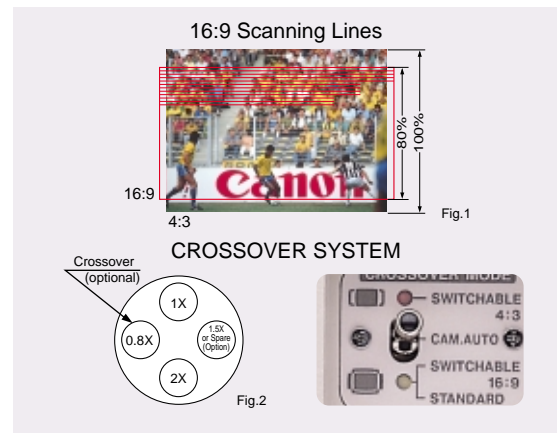
When used in conjunction with portable cameras, the "SUPER E47" features a unique Built In Supporter for the lens and camera combination.

HIGH MTF PERFORMANCE

The next generation of 16:9 format has become more widespread world-wide. 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 (Fig. 1). As a result, higher resolution is required for the 16:9 format. In order to achieve this, the SUPER E47 provides minimum aberrations by Hi-UD glasse (High Index Ultra Low Dispersion glass) and Canon's unique fluorite. The SUPER E47 succeeds in having the higher MTF performance, correspondent to 6MHz, necessary for the 16:9 format.

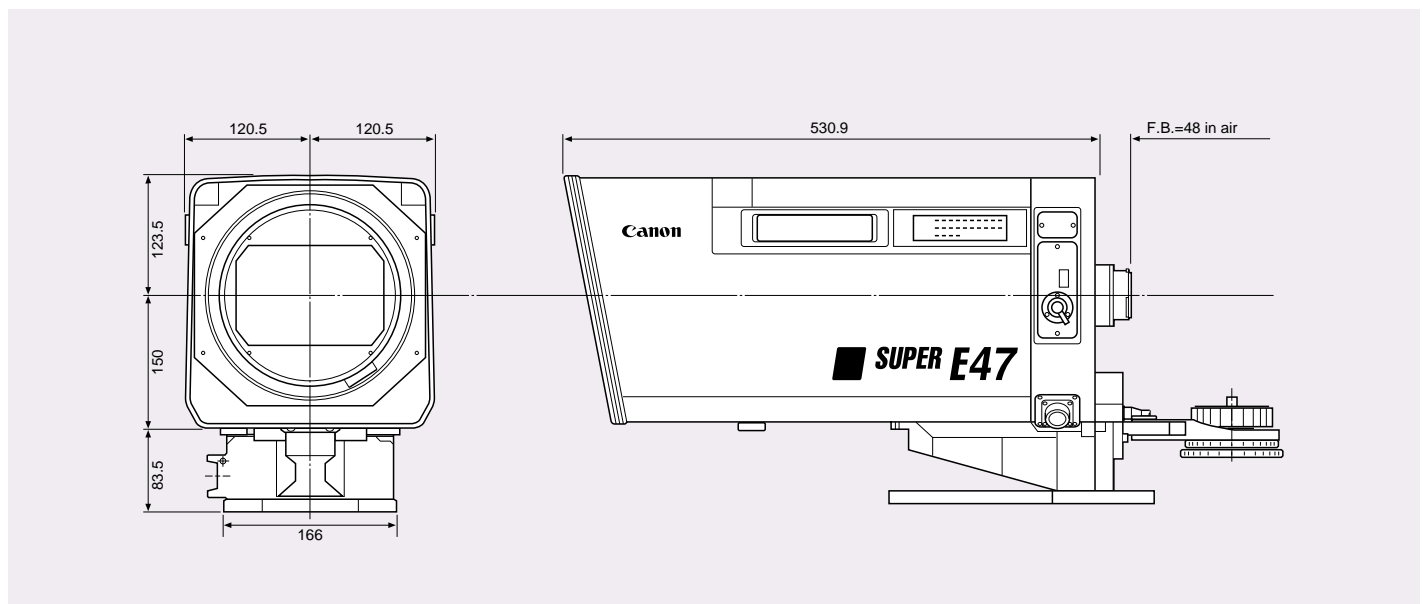
CANON "CROSSOVER" SYSTEM

All the Super series of lenses, including the new SUPER E47 are now optionally available with "CROSSOVER" compatibility for most 16:9/4:3 switchable cameras. 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 shows the relation between focal length and the magnification of the extenders.



16:9 (dia 11mm)			4:3 (dia 9mm)		
Extender	Focal Length	F stop	Extender	Focal Length	F stop
0.8X			1.0X	7.8-370mm	1.4
1.0X	9.5-450mm	1.4	1.2X	9.5-450mm	1.4
2.0X	19-900mm	2.8	2.4X	19-900mm	2.8

Fig. 3





CROSSOVER COMPATIBILITY (Optional)

- For use with 16:9/4:3 switchable cameras.

MACRO FUNCTION-M.O.D.=0.4M

EXCELLENT SERVO SYSTEM

- Faster and quieter servo system
- maximum speed zoom:0.8 sec
focus:0.8 sec
- Low power consumption

WIDE ANGLE OF 9.5MM WITH REDUCED DISTORTION (ZOOM RATIO:47X)

LATERAL CHROMATIC ABERRATION

- Full zoom range•••••maximum=6 microns

HIGH AND FLAT MTF

- Realization of high contrast in all areas of the picture (center and corner)

PROTECTION FILTER (Optional)

COUNTERMEASURES AGAINST "GHOSTING" AND "FLARES"

- New coatings and anti-reflection paint achieve the elimination of "ghosting" and "flares"



4-POSITION TURRET

(built in extender, pattern projector, master lens, crossover unit).

- Micro Computer Controlled Turret.
- *Built in Effect Filter available as option e.g Cross, Sunny, etc.

VERSATILE ZOOM/FOCUS CONTROLLERS

(See figure on the next page)

- New ergonomic design.
- Countermeasures against dust, rain, and radio interference.

COUNTERMEASURES AGAINST RADIO FREQUENCY NOISE (INTERFERENCE)

SERVO SYSTEM MATCHING ROBOTIC REQUIREMENTS

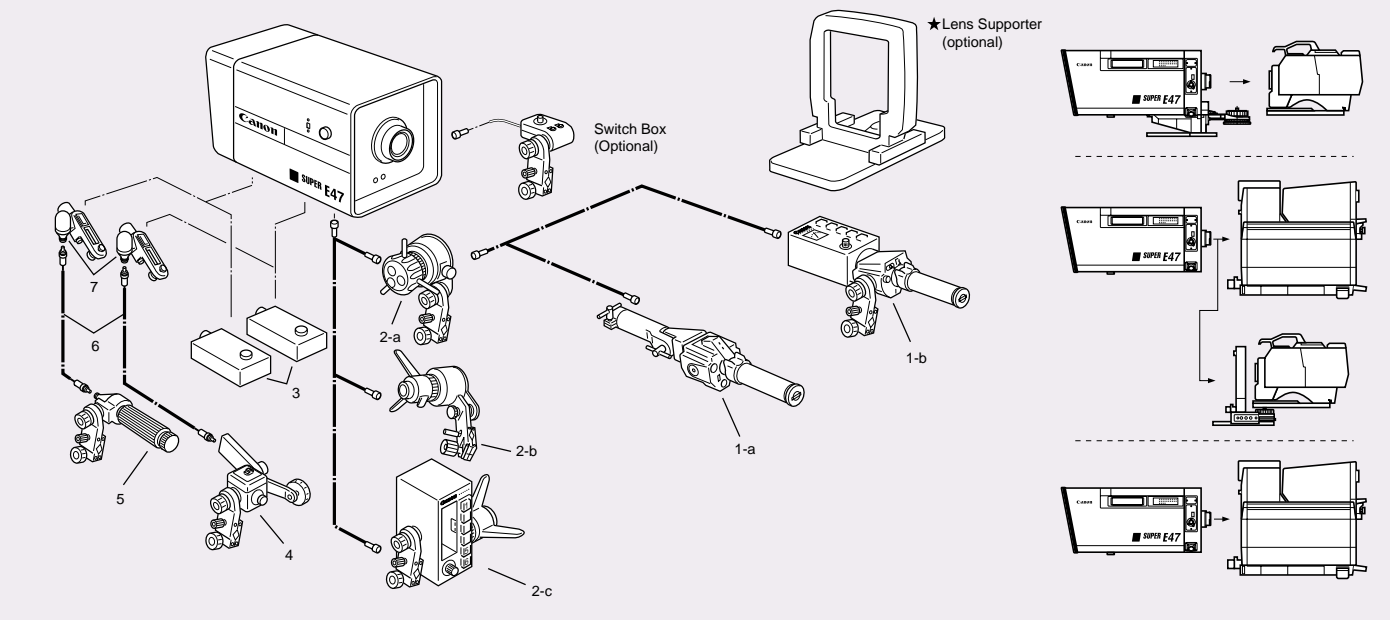
- High resolution zoom and focus servo - 12 bit repeatability

10 BIT IRIS COMPATIBILITY

- High resolution iris control

	NORMAL 4 : 3		16 : 9		SWITCHABLE 4 : 3 (with crossover unit)		
	1.0×	2.0×	1.0×	2.0×	1.0×	1.2×	2.4×
Built-in Extender	1.0×	2.0×	1.0×	2.0×	1.0×	1.2×	2.4×
Zoom Ratio	47×						
Range of Focal Length	9.5~450mm	19~900mm	9.5~450mm	19~900mm	7.8~370mm	9.5~450mm	19~900mm
Maximum Relative Aperture	1:1.4 at 9.5~202mm 1:2.5 at 450mm	1:2.8 at 19~404mm 1:5.0 at 900mm	1:1.4 at 9.5~202mm 1:2.5 at 450mm	1:2.8 at 19~404mm 1:5.0 at 900mm	1:1.4 at 7.8~216mm 1:2.15 at 370mm	1:1.4 at 9.5~202mm 1:2.5 at 450mm	1:2.8 at 19~404mm 1:5.0 at 900mm
Angular Field of View	49.7°×38.3°at 9.5mm 1.12°×0.84°at 450mm	26.1°×17.7°at 19mm 0.56°×0.42°at 900mm	53.6°×31.7°at 9.5mm 1.12°×0.69°at 450mm	28.4°×16.2°at 19mm 0.61°×0.34°at 900mm	49.6°×38.2°at 7.8mm 1.11°×0.84°at 370mm	41.5°×31.7°at 9.5mm 0.92°×0.69°at 450mm	21.5°×16.2°at 19mm 0.46°×0.34°at 900mm
Minimum Object Distance (M.O.D.)	2.2m from front lens vertex (with macro M.O.D.:0.5m)						
Object Dimensions at M.O.D.	183×137cm at 9.5mm 3.9×2.9cm at 450mm	91.5×68.6cm at 19mm 2.0×1.5cm at 900mm	200×112cm at 9.5mm 4.3×2.4cm at 450mm	99.8×56.1cm at 19mm 2.2×1.2cm at 900mm	183×137cm at 7.8mm 3.9×2.9cm at 370mm	150×112cm at 9.5mm 3.2×2.4cm at 450mm	74.9×56.1cm at 19mm 1.6×1.2cm at 900mm
Size	244(W)×273.5(H)×530.9(L)mm Excluding Supporter						
Weight (Approx)	18kg (39.7lbs)						
Built-in Pattern Projector	optionally available						

LENS SYSTEM



NO.	DESCRIPTION	CODE	NO.	DESCRIPTION	CODE
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

APPLICATION	OPERATION		COMPOSITION	
	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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