I tism which became very slight by 1.16. Slight skew ray flare was present to 1.11 with very slight lateral color. Slight ephanical aberration to

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Slight spherical aberration to till was seen on axis at 210mm. There was slight doma to fill with very sight lateral color

100-200mm ONE-TOUCH ZOOM FROM OLYMPUS

Specifications: 100-200mm f 5 8 Zuko mount for Olympus bayonet. No. 104 140. accepts 49mm fiters f 5 to f 32 full-stop detents minifoc dist 8 ft (2.4m 5% ning), 2% ningam. 147 x 60mm fit b 4 oz. .567 6gr \$235.00



Zuiko's first push-pull zoom provides fast handling, quality optics, in a feather-weight mount.

Practical comments: Relative ght weight bush-pullizoom balances well on Olympus bodies descite is length. Zoom and cous are controlled by a broad 21 in a amond knurled rubber as ar Zeems out to 200mm with allellet. Main stroke Aticlosest focusing distance, with colads ble hood extended is close to 9 in song but is easy handling because of its slim light weight poay 4 numerals are large and eas, egible. Zoom range is ca prated in green at 100, 120, 150 and 200mm ifootage scales n crange and metric scales in white. Apertures are set by a harrow 14 h. ring next to the bayanet mount. Depth of field préview button is on the mount at 9 a alook in conventiona: Olympus stying instrument black finish Field test slides: Our Kodachrome 64 transparencies were sharp and crisp—fine detail rendering was noted even at f.5 A de-open. Performance was abble average for a zoom of this range Flare control was averfor a multi-element zoon

Optical bench analysis (for optical experts only). At 100mm on axis—very signt flare iperformance near diffraction limits by 111 Off-axis, very sight astigmatism gone by 111 very signt ateral color. At 150mm, on axis, very sight flare idisappearing by 18 very signt ateral color.

By 200mm, on avis. very slight lateral color, again near diffraction lim zis by f.8. Off-axis, slight flare disappeared by f.8. Slight lateral color throughout.

PERFORMANCE

Our Standard	as rested
Focal length: ±5°°	
(95.00-105.00mm)	104.66mm
(190.00-210.00mm)	194.36mm
Aperture: =5°°	
100mm (f-4.75-5.25)	f 5.24
200mm: (f. 4.75 – 5.25)	f 5.25
Distortion:	
100mm: (±2%) 1.1	3% (barrel)
200mm: (±2.5° _o)	
less than 10%	pincushion)
Light falloff: at f-8	
-1 stop from theoretica	ıl limit
100mm: (0-1.1 stops)	0.1 stops

RESOLUTION

0.4 stops

200mm: (0 - 1.0 stops)

		100- 100n 1:49	nm	
f	Center (1 mm)		Corner (1 mm	
5	Excellent	55	Excellent	55
8	Excellent	62	Excellent	55
11	V. Good	55	Excellent	55
16	Good	49	Excellent	44
22	Accept	44	Excellent	44
32	Accept	35	Excellent	35

RESOLUTION

(00 - 50n :49	nm	
f	Center (1 mm)		Corner (1 mm)	
5 8 11 16 22 32	Excellent Excellent Excellent V. Good V. Good Excellent	55 62 49 4 44 39	Excellent Excellent Excellent Excellent Excellent Excellent	44 49 55 44 44 39

RESOLUTION

7.000		200n 1:5	nm	
f	Center (1 mm)		Corner (1 mm)	
5 8 11 16 22 32	Excellent Excellent Excellent Excellent Excellent Excellent Excellent	56 50 50 45 45 40		50 50 45 45 40

CONTRAST OLYMPUS 100-200mm f 5

	at 100mm at 30 lines mm					
f	Center (%)		Corr (°c			
5 8 11	High High	62	High High	32 52		
16	High High High	54	High High High	50 42 38		
32	High		High	36		



CONTRAST OLYMPUS 100-200mm f/5

at 150mm at 30 lines/mm				
Center (%)		Corne (%)	r	
High	52	Medium	24 34	
High	57	High :		
High	60	High	42	
	54	High	44	
	50	High	36	
High	46	High	33	
	at 30 Cente (%) High High High High High High	at 30 lines Center (%) High 52 High 57 High 60 High 54 High 50	at 30 lines/mm Center (%) Corne (%) High 52 High High 50 High High 54 High High 54 High High High	

CONTRAST OLYMPUS 100-200mm f/5

	at 200mm at 30 lines/mm					
f/	Center (%)		Corner (%)			
5 8 11 16 22 32	High High High High High High	73 78 70	Medium Medium Medium Medium Medium High	22 24 32 34 35 36		

UPDATED SUPERFAST NORMAL FOR OLYMPUS

Specifications: 5pmm f/1.2 Zuiko Auto-S; fixed mount for Olympus SLRs; No. 100538; Accepts 49mm filters; f/1.2 to f/16 with full-stop detents; min. foc. dist. $1\frac{1}{2}$ ft. (0.45m); $1\frac{1}{2}$ in. long, $2\frac{1}{2}$ in. diam. (42 × 62mm); $10\frac{1}{6}$ oz. (288.5g);



Zuiko 50mm f/1.2 is compact for superfast normal lens.

Practical comments: The new more compact Zuiko 50mm f/ 1.2 replaces the earlier 55mm f/ 1.2 with enhanced performance, reduced size. Compact, medium weight, ultra-high speed normal lens offering 7 elements in 6 groups. Balances well on compact Olympus bodies yielding an ultra-bright focusing image. Limited depth of field for very easy focus. Front mounted aperture control with easy to read white numerals clicked at full stops; focal length marked in green. % in. diamond pattern rubber focusing focuses from 18 in. to infinity with smooth

ditional Olympus bayonet release stud at top and stop down button at 8 o'clock positions. Metric distance numbers are in white, footage scale in orange. Finish is instrument black.

Field test slides: Remarkably sharp images for a lens of this speed. Although there was a slight lack of detail and snap fully open at f/1.2, images were crisp and snappy at smaller stops. Flare was very well corrected throughout.

Optical bench analysis (for optical experts only): Off-axis we saw very slight violet flare at f/2 which was almost gone by f/2.8. Slight spherical aberration was greatly improved by f/5.6, gone by f/8. Off-axis there were slight traces of skew ray flare. Very slight astigmatism was greatly improved by f/5.6. Performance was near diffraction limits by f/11. Very slight lateral color was present.

PERFORMANCE

Our Standard

as Tested

Focal length: (47.50-52.50r		52.48mm
Aperture: ±5' (f/1.14-1.26)	%	f/1.26
Distortion: (±1.5%)	less tha	an 1%(barrel)
Light falloff: +1 stop from (0-1.5 stops)	theoretic	cal limit 0.3 stops

RESOLUTION

	ZUIKO 50mm f/1.2 at 1:50					
f/	Center (1/mm)		Corner (1/mm)			
1.2	V. Good	45	Excellent	35		
2	Good		Excellent	40		
2.8	Good	56	Good	45		
4	V. Good	63	V. Good	50		
5.6	V. Good	63	Excellent	56		
8	V. Good	63	Excellent	56		
11	V. Good		Excellent	50		
16	V. Good	56		45		

CONTRAST

ZUIKO 50mm f/1.2 at 30 lines/mm					
f/	Center (%)		Corner (%)		
1.2	High	58	Medium	26	
2	High	60	Medium	30	
2.8	High	64	High	44	
4	High	68	High	60	
5.6	High	76	High	73	
8	High	78	High	74	
11	High	75	High	66	
16	High	67	High	61	

Would you like to test your own lens? Get MODERN'S Lens Test kit, \$12.95. Write to Lens Test Kit, MODERN PHOTOGRAPHY, 825 7th Ave., NY, NY 10019. Please allow 4-6 weeks for delivery.