

Optical bench analysis: On axis, at maximum aperture we detected slight yellow-orange flare and slight overcorrected spherical aberration. However, the flare was greatly reduced by $f/2$, the lens virtually free of all defects (diffraction limited) by $f/2.8$ and completely free of all defects by $f/8$. Off axis, there was some skew-ray flare with slight coma and astigmatism at $f/1.4$ with all but the astigmatism disappearing by $f/8$.

**No Gimmicks
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Kodak FILM SPECIALS

Factory packed
 Fresh Dated With
 processing by Kodak
 Minimum order
 10 rolls (could be mixed)
 AGFA 64 135/36 w/p **4.45**

KR or KM 135/20 w/p.....	4.47
Fuji R 100/36 E6 Process.....	4.75
KR or KM 135/26 w/p.....	6.44

Kodachrome 1 super 8	6.25
Ektachrome Super 8 160	7.50
Kodachrome Sound w/p	8.40
Ektachrome Sound	8.75
16mm Movie	5.75
PR 10	5.59
SX70 Film	5.85
SX70 Film	5.60

CPS 120	1.80	CG 400/36	3.30
VPS 135/20	2.40	CG 400/24	2.75

VPS 135/36	3.20	ED 135/20	2.85
CI 135/36	2.59	ED 135/36	4.70
ELA 400/20			4.50
Telesar Bulk Loader			7.95
TX PX 100/36			15.20
TX or PX 135/20			2.65
TX or PX 135/20			1.40
ELA 400/36			5.49

KODAK PREPAID MAILERS

DP 20-3R	5.50	DP 36-3R	9.89
DP 20-3R		PK 36 Slides	2.45
DP25 1st R or Super R			2.25
PK24			7.20

KODAK SLIDE PROJECTOR

Tray & Lens Extra

650H	11 000
750H	121 00
76 H	143 00
800HC	189 50
86 CHC	21 00
For Zoom, add	40 00



850H	16 Q00
Projector Case	15.95

ELH Bulb.....	11.95
Kodak Carousel Accessories	
80-slide trays each.....	3.90 ea.
140-slide Trays, ea.....	5.60

Box of 10: 140-trays	54.50
STACK-LOADER.....	16.99

Stack-Loader OUTFIT	26.00
25 ft. Remote ext. cord	8.90
Sound Synchronizer #3	39.99
ECK S/S Dissolve unit	325.00
Model D CASE.....	27.00

Bell & Howell Headquarters

REBATES  #1 IN MOVIES	88 I-APR.....	\$44.00
	CP 40.....	\$4.00
	For Zoom Add.....	16.00
	Sound Star Autofocus.....	\$370.00
	Sound Star 4 Macro.....	\$196.00
	Great Buy 600 Proj.....	\$180.00
	1638 Z.....	\$5.00
	2144 Silent Camera.....	\$165.00
	Auto NC 1000 f1.7.....	\$149.95
	Cube Library.....	\$9.95
	ZE 50 F2.....	\$179.00

16mm ProjectorsCALL

SANKYO BUYS	
XL 620.....	359.00
XL 800 S.....	209.00
#700 Projector.....	259.00
61-200.....	319.00
XL 600S.....	219.00
Boom Mike.....	39.95


POLAROID SPECIALS

NEW! SX-70 Alpha-1 Sonar..	156.00
Alpha-1 model-2.....	89.95
Pronto Sonar-One Step	69.95
One Step	29.95
Polaroid Reporter.....	49.00

EUMIG-PROJECTORS-CAMERAS

#905.....	175.00	#910 D.....	210.00
#810 D.....	249.00	#804 D.....	230.00
RS 3000.....	235.00	65 XL.....	259.00
44 XL.....	245.00	Nautica.....	285.00
#604.....			125.00
#822.....			288.00

TOKINA LENSES

	35-105 Macro Zoom... 190.00
	100-300..... 168.00
	70-150..... 139.00

70-220	196.00
28-85	228.95

New 80-200	129.00
35/70	154.00
80/200 CF	159.00

OLYMPUS XA

\$118⁹⁵

NEW XA II..... 78.00

CHINON SPECIALS

200/8 XL.....529.00

40SMXL w/Boom.....	319.90
60SMXL w/Boom.....	337.90

Pacific 60SMR w/Boom	396.00
Pacific 80SMR w/Boom	396.00
Pacific 12SMR.....	535.00
#9500 2-Track Delux.....	345.00
#7500 Sound-on-Sound	230.00

186.00	
124.00	
25.00	
509.00	

SMC Pentax 50mm f/1.4

at 1:50 magnification				
f/no.	Center Lines/mm		Corner Lines/mm	
1.4	V. Good	50	Excellent	40
2	V. Good	56	Good	40
2.8	V. Good	71	Good	50
4	V. Good	71	V. Good	56
5.6	Excellent	80	V. Good	63
8	Excellent	80	V. Good	63
11	V. Good	63	Excellent	56
16	Good	56	V. Good	50
22	Accept.	56	V. Good	50

SMC Pentax 50mm f/1.4

at 30 lines/mm				
f/no.	Center %		Corner %	
1.4	Low	34	Low	20
2	Low	46	Low	20
2.8	Low	50	Low	32
4	Low	58	Low	42
5.6	Low	54	Medium	47
8	Low	51	Medium	46
11	Low	48	Medium	44
16	Low	45	Low	39
22	V. Low	38	V. Low	34

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All of my nature pictures are on Kodachrome 25 which provides maximum sharpness, in my opinion. Exposures are those indicated by the meters in my cameras which automatically compensate for bellows extension. I don't carry a separate meter, since I've found the built-ins both accurate and reliable.

Generally, the shutter is set at 1 sec., and whatever lens aperture produces correct exposure at that speed is the one that is used. Working apertures are in the f/16 to f/32 range.

The three gadgets described here will help make your nature photographs more effective, but remember that nature photography is mostly experimental. Conditions in the field seldom repeat themselves; so the overall effectiveness of these tools depends on a combination of imagination and the ability to visualize the impact of each device on your final picture.—THE END