REPRODUCTION RATIOS OBTAINABLE WITH PB-6 — continued

Subject 144 x x × х x х x X Х × Mounting Lens Remarks 240 120 position Reproduction 1/\infty x 1/10 x 1/5 x 1/4 x 1/3 x 1/2 x 1 x 10 x 11 x 12 x ratio Extension ● (3.8 ×) Normal Image quality is best at f/8. 55mm f/2.8 Working distance 8.8 5.0 53.5 45.5 18.0 AF Extension 118 128 183 208 Micro • (3.5 x) Reverse (1.8 x) Image quality is best at f/8. Working distance 163.9 61 51.8 49.4 48 58 Extension 174 208 (3.6 x) Normal Unsuitable for copying. Working distance 74 61.7 32.7 23.0 19.9 58mm f/1 2 Noct 183 208 Corner image quality deteri-Extension Reverse ♠ ●- (3.4 x) orates at smaller reproduc-Working distance 76 63 53 50 tion ratios 180 208 Extension • (3,5 x) Normal 60mm f/2.8 Image quality is best at f/8 Working distance 26 23.2 AF and deteriorates at smaller Extension 154 208 Micro aperture. (2.9 x) Reverse Working distance 76.4 63.5 54.2 48 85 170 208 The further the lens is Extension Normal (1/1.8 x) • (2.4 x) stopped down, the better Working distance 210 140 97 90 the image quality. 85mm f/2 146 208 Corner image quality deteri-Extension (1/3.0 x) • (1.7 x) Reverse orates at smaller reproduc-Working distance 200 120 83 tion ratios. The further the lens is stopped 48 84.8 170 308 Extension ● (2.5 x) Normal down, the better the image quality. Working distance 177 112 69 4 61 6 Unsuitable for copying. 85mm f/1.8AF 102 124 208 Extension Reverse • (2.0 x) Image quality is best at f/8. Working distance 76 1 147 118 48 53 105 Extension (1/2.2 x) Normal (20 x) Working distance 330 310 205 at Use f/11-f/16 for the better 190 208 image quality. Extension Reverse Working distance 105mm f/2.8 1084 454 349 244 189 Micro Extension (3.0 x) Normal Working distance 158 123 Image quality is best at 0.41m f/5.6—f/11. 153 160 179 193 208 Extension Reverse (1/1.5 x) Working distance 6150 816 322 239 157 112 48 53 105 208 The further the lens is Extension (2.0 x) Normal (1/2.2 x) stopped down, the better f/4 Micro Working distance 300 280 170 the image quality 105mm f/2.5 151 168 208 Corner image quality deteri-Extension f/1.8 (1/6.1 x) Reverse • (1/1.1 x) orates at smaller reproduc-Working distance tion ratios.

(mm)

^{*}The closer the focus distance, the better the image quality.

REPRODUCTION RATIOS OBTAINABLE WITH PB-6

																					(m
Lens	Mounting position	Subject field Reproduction ratio	∞ × ∞	360 × 240	180 × 120	144 × 96	108 × 72	72 × 48	36 × 24	18 × 12	12 × 8	9 × 6	7.2 × 4.8	6 × 4	5.1 × 3.4		4 × 2.7 9×	3.6 × 2.4	3.3 × 2.2	3 × 2	Remarks
20mm f/2.8 f/3.5	Reverse	Extension Working distance	1,000	10 ^	7,^	1	73.	72 7	Î	Î		(5.0 >	86	106	127	147	167	188	208	11.0×)	
24mm f/2.8, f/2.8AF	Reverse	Extension Working distance									(3.9×		111	135	160	184	208	(9.0×)			Image quality is best at f/8.
f/3.5PC 28mm f/2.8, f/2.8AF f/2	Normal	Extension						(1	.7×)			• (3.7	38.4 '×)	37.6	37	36.6	36.2	+	+		The further the lens is stopped down, the better the
	Reverse	Working distance Extension		+		+			9.	6 6.7	1.9 76 3.2 ×) ●		129	158	187	208	7×)		+	+	image quality. The further the lens is stopped down, the better the
		Working distance Extension		+	+	+	-	+		8 72		144		38.3			-	+	+	+	image quality. The further the lens is
35mm f/2 f/1.4	Normal	Working distance Extension			+			(1.3		9.6	3.6 89 105	0.6		×)			_	_		+	stopped down, the better the image quality.
	Reverse	Working distance							,	4	7.6 45.5		40.7	39.6	(5.9×)					Image quality is best at f/8.
35mm f/2.8 f/2.8PC	Normal	Extension Working distance						(1.3	3×) 🍨	72 • • • 15.2	108 ф 9,1	144 6.2	180 4.4	208 •	(5.8×)						The further the lens is stopped down, the better the image quality.
Series E 35mm f/2.5	Reverse	Extension Working distance							(2	.4×)	83 105 • • • 5 45.5	•	177 40.7	208 39.6	(5.9 ×)				` .	Image quality is best at f/8.
f/1.8, 50mm f/1.4, f/1.3 f/1.4AF	Normal	Extension Working distance					(1/	1.1×)	8 52 2 54.3	103	155	208	(4.0 ×)								The further the lens is stopped down, the better the image quality. *
	Reverse	Extension Working distance							79 ×) •	102	153	205 20	(4.1 ×)								Image quality: Image quality is best at f/8.
50mm f/1.8AF	Normal	Extension Working distance					(1	/1.1×)	B 51.6	103	155	208	4.0 ×)						T		The further the lens is stopped down, the better the
	Reverse	Extension Working distance							(×)	110	31 161 50.7	26.6 208 46.7	(3.9 ×)							image quality *** Image quality is best at at f/8.
f/2.8 Micro	Normal	Extension Working distance					(1)	1.1×)	8 55	110	165	208	(3.8 ×)		1	+	1		T		Image quality is best at f/8
55mm f/3.5 Micro f/1.2	Reverse	Extension Working distance					-	(1.5	×) ●	128	183	208	5×)							1	and deteriorates at smaller agerture. The 55mm f/1.2 len is unsuitable for copying.

(mm)

^{*}Use f/5.6 or smaller apertures with 50mm f/1.2; unsuitable for copying.

** The further the lens is stopped down, the better image quality the 50mm f/1.2 offers; unsuitable for copy work at smaller reproduction ratios.

*** To get a better image at any aperture with an reproduction ratio 2X or more, use the reverse ring.

(mm)

Lens	Mounting position	Subject field Reproduction	∞ × ∞	360 x 240	180 x 120	144 x 96	108 x 72	72 x 48	36 x 24	18 x 12	12 x 8	9 x 6	7.2 X 4.8	6 x 4	5.1 X 3.4	4.5 x 3	4 x 2.7	3.6 X 2.4	3.3 x 2.2	3 x 2	Remarks
		ratio	1/∞ x	1/ ₁₀ x	1/ ₅ x	1/ ₄ x	1/ ₃ X	1/ ₂ X	1 x	2 x	3 x	4 x	5 x	6 x	7 x	8 x	9 x	10 x	11 x	12 X	The further the lens is
135mm 1/2.8	Normal	Extension			(1/2)	8 x) •	Ţ	133 2	(1.5									- 1		stopped down, the better	
		Working distance			(172.0		410 280	280 2		^^/										the image quality.	
f/2 Series E 135mm f/2.8	Reverse	Extension	180 194	194	208	(1/4.8 x)														Corner image quality deteriorates at infinity.
		Working distance	- C	∞ 1400	680			1													
180mm f/2.8ED f/2.8ED AF	Normal	Extension		(1/3.7 x)	48	60	90	180 2	208 • (1.2 x	2 x)										Image quality is best at f/8.	
		Working distance	1		(826	691	511	331 3		``										
200mm f/4	Normal	Extension		Τ,	1/4.2 x) 120	48	67	100	208	1.0 x)											The further the lens is stopped down, the better the image quality.
		Working distance					920	720	520	1.0 %											
200mm f/4 IF Micro	Normal	Extension		1,	1/4.2 x	48 50	67	100	208	1.0 x)											The further the lens is stopped down, the better
		Working distance	(1)4		90 957	754	557	349	Ĺ											the image quality.	

Working distance: Distance between the subject plane in focus and the front edge of the lens barrel; with the lens mounted in reverse, the distance is between the subject and the rear edge of the lens barrel.

Note: 1) Reproduction ratios are those obtained at infinity.

2) If more than one lens is included in each lens column (i.e., 24mm f/2.8 and f/2), the reproduction ratios apply only to the first lens (i.e., 24mm f/2.8).

3) The 180mm f/2.8, 180mm f/2.8 ED, 135 mm f/2, 85mm f/1.4, 28mm f/3.5 PC and AF 180mm f/2.8 ED lenses cannot be used in the reverse position because of the larger size of their attachments. To mount the Nikkor 20mm f/2.8 or 105mm f/1.8 in the reverse position, use the optional Nikon Macro Adapter Ring BR-5.

4) For close-ups and macrophotography, the following lenses are especially recommended: 55mm f/2.8 Micro, 55mm f/3.5 Micro, 105mm f/2.8 Micro, 105mm f/4 Micro, 200mm f/4 IF Micro, 50mm f/1.8, Series E 50mm f/1.8, etc.