

CHOOSING A KODAK PROJECTION LENS

Kodak offers a variety of lenses to meet the many slide projection uses. It is important to purchase the right lens for your application in order to get the most satisfactory image. The Screen Image Size chart to the right identifies the range of image sizes obtained using KODAK Zoom Lenses at various projection distances. The Projection Lens Selection Chart on the reverse side helps you select a lens using the screen image size and projection distance.

Choosing between a zoom or fixed lens

A zoom lens allows you to change the screen image size without moving the projector. A fixed lens projects one image size from any given distance.

SELECT Flat Field Lenses

KODAK EKTAPRO SELECT Projection FF lenses offer brilliant optical quality to satisfy the most demanding projection requirements. Features include multicoating, metal housing, high contrast, and precision manufacturing.

| | |
|---------------------|--------------|
| 36 mm | CAT 712 5446 |
| 93 mm | CAT 712 5453 |
| 150 mm | CAT 712 5461 |
| 75 to 120 mm | CAT 712 5479 |
| 87 to 200 mm | CAT 712 5487 |
| 200 to 300 mm | CAT 712 5495 |

Flat-Field Lens

Recommended for most applications

KODAK Slide Projection FF lens:

| | |
|---------------------|--------------|
| 85 mm | CAT 712 5503 |
| 100 mm | CAT 163 4500 |
| 180 mm | CAT 712 5529 |
| 75 to 120 mm | CAT 847 0346 |
| 100 to 150 mm | CAT 143 3432 |
| 100 to 200 mm | CAT 712 5743 |

Screen Image Sizes for KODAK Zoom Lenses

| | 75-120 mm | 87-200 mm | 200-300 mm | 100-150 mm | 100-200 mm | 102-152 mm |
|-----|-------------|------------|------------|-------------|------------|-------------|
| 6' | 2.8'-1.7' | 2.0'-1.0' | 0.9'-0.6' | 2.1'-1.4' | 1.7'-0.9' | 2.0'-1.4' |
| 8' | 3.7'-2.3' | 3.2'-1.4' | 1.4'-0.9' | 2.8'-1.8' | 2.7'-1.4' | 2.7'-1.8' |
| 10' | 4.6'-2.9' | 3.9'-1.7' | 1.7'-1.1' | 3.5'-2.3' | 3.4'-1.7' | 3.4'-2.3' |
| 12' | 5.5'-3.5' | 4.7'-2.1' | 2.1'-1.4' | 4.2'-2.7' | 4.1'-2.1' | 4.0'-2.7' |
| 14' | 6.4'-4.0' | 5.5'-2.4' | 2.4'-1.6' | 4.8'-3.2' | 4.8'-2.4' | 4.7'-3.2' |
| 16' | 7.3'-4.6' | 6.3'-2.7' | 2.7'-1.8' | 5.5'-3.7' | 5.5'-2.7' | 5.4'-3.6' |
| 18' | 8.2'-5.2' | 7.1'-3.1' | 3.1'-2.1' | 6.2'-4.1' | 6.2'-3.1' | 6.1'-4.1' |
| 20' | 9.2'-5.7' | 7.9'-3.4' | 3.4'-2.3' | 6.9'-4.6' | 6.9'-3.4' | 6.8'-4.5' |
| 22' | 10.1'-6.3' | 8.7'-3.8' | 3.6'-2.5' | 7.6'-5.0' | 7.2'-3.6' | 7.4'-5.0' |
| 24' | 11.0'-6.9' | 9.5'-4.1' | 4.1'-2.7' | 8.3'-5.5' | 8.2'-4.1' | 8.1'-5.4' |
| 26' | 11.9'-7.5' | 10.3'-4.4' | 4.5'-3.0' | 9.0'-5.9' | 8.9'-4.5' | 8.8'-5.9' |
| 28' | 12.8'-8.0' | 11.1'-4.8' | 4.8'-3.2' | 9.7'-6.4' | 9.6'-4.8' | 9.5'-6.3' |
| 30' | 13.7'-8.6' | 11.9'-5.1' | 5.1'-3.4' | 10.4'-6.9' | 10.3'-5.1' | 10.1'-6.8' |
| 32' | 14.6'-9.2' | 12.7'-5.5' | 5.5'-3.7' | 11.1'-7.3' | 11.0'-5.5' | 10.8'-7.2' |
| 34' | 15.6'-9.8' | 13.5'-5.8' | 5.8'-3.9' | 11.8'-7.8' | 11.7'-5.8' | 11.5'-7.8' |
| 36' | 16.5'-10.3' | 14.3'-6.2' | 6.2'-4.1' | 12.5'-8.2' | 12.3'-6.2' | 12.2'-8.1' |
| 38' | 17.4'-10.9' | 15.0'-6.5' | 6.5'-4.3' | 13.2'-8.7' | 13.0'-6.5' | 12.8'-8.6' |
| 40' | 18.3'-11.5' | 15.9'-6.8' | 6.9'-4.6' | 13.8'-9.2' | 13.7'-6.9' | 13.5'-9.0' |
| 42' | 19.2'-12.1' | 16.7'-7.2' | 7.2'-4.8' | 14.5'-9.6' | 14.4'-7.2' | 14.2'-9.5' |
| 44' | 20.1'-12.6' | 17.5'-7.5' | 7.5'-5.0' | 15.2'-10.1' | 7.5'-5.0' | 14.9'-9.9' |
| 46' | 21.0'-13.2' | 18.3'-7.9' | 7.9'-5.3' | 15.9'-10.5' | 15.8'-7.9' | 15.5'-10.4' |
| 48' | 22.0'-13.8' | 19.1'-8.2' | 8.2'-5.5' | 16.6'-11.0' | 16.5'-8.2' | 16.2'-10.8' |
| 50' | 22.9'-14.4' | 19.9'-8.5' | 8.6'-5.7' | 17.3'-11.4' | 17.1'-8.6' | 16.9'-11.3' |

DISTANCE FROM SCREEN

Range of screen image sizes obtained by
KODAK Zoom Lenses at various projection distances.

See your AV dealer for these and other KODAK accessories that will enhance your slide presentation. To find a dealer near you, call the Kodak Information Center at 1-800-242-2424 ext. 10.
www.kodak.com/go/projectors

PRESENTATION TECHNOLOGIES



PROJECTION LENS SELECTION CHART (IN MILLIMETRES)

SCREEN IMAGE SIZE* (IN FEET)

| PROJECTOR DISTANCE FROM SCREEN (IN FEET) | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 30' | 32' | 34' | 36' | 38' | 40' | 42' | 44' | 46' | 48' | 50' |
|--|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 3' | 103 | 51 | 34 | 26 | 21 | 17 | 15 | 13 | 11 | 10 | 9 | 9 | 8 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |
| 4' | 137 | 69 | 46 | 34 | 27 | 23 | 20 | 17 | 15 | 14 | 12 | 11 | 11 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 3 | 3 |
| 5' | 171 | 86 | 57 | 43 | 34 | 29 | 24 | 21 | 19 | 17 | 16 | 14 | 13 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 7 | 6 | 6 | 5 | 5 | 5 | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 3 |
| 6' | 206 | 103 | 69 | 51 | 41 | 34 | 29 | 26 | 23 | 21 | 19 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 8 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 4 | 4 | 4 |
| 7' | 240 | 120 | 80 | 60 | 48 | 40 | 34 | 30 | 27 | 24 | 22 | 20 | 18 | 17 | 16 | 15 | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 5 |
| 8' | 274 | 137 | 91 | 69 | 55 | 46 | 39 | 34 | 30 | 27 | 25 | 23 | 21 | 20 | 18 | 17 | 16 | 15 | 14 | 14 | 13 | 12 | 12 | 11 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 6 | 6 | 6 | 5 |
| 9' | 309 | 154 | 103 | 77 | 62 | 51 | 44 | 39 | 34 | 31 | 28 | 26 | 24 | 22 | 21 | 19 | 18 | 17 | 16 | 15 | 15 | 14 | 13 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 7 | 6 | 6 |
| 10' | 343 | 171 | 114 | 86 | 69 | 57 | 49 | 43 | 38 | 34 | 31 | 29 | 26 | 24 | 23 | 21 | 20 | 19 | 18 | 17 | 16 | 16 | 15 | 14 | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 8 | 8 | 7 | 7 | 7 |
| 11' | 377 | 189 | 126 | 94 | 75 | 63 | 54 | 47 | 42 | 38 | 34 | 31 | 29 | 27 | 25 | 24 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 16 | 15 | 15 | 14 | 13 | 13 | 12 | 11 | 10 | 10 | 9 | 9 | 9 | 8 | 8 | 8 |
| 12' | 411 | 206 | 137 | 103 | 82 | 69 | 59 | 51 | 46 | 41 | 37 | 34 | 32 | 29 | 27 | 26 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 16 | 15 | 15 | 14 | 13 | 12 | 11 | 11 | 10 | 10 | 9 | 9 | 9 | 8 |
| 13' | 446 | 223 | 149 | 111 | 89 | 74 | 64 | 56 | 50 | 45 | 41 | 37 | 34 | 32 | 30 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 13 | 12 | 12 | 11 | 11 | 10 | 10 | 9 | 9 |
| 14' | 480 | 240 | 160 | 120 | 96 | 80 | 69 | 60 | 53 | 48 | 44 | 40 | 37 | 34 | 32 | 30 | 28 | 27 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 18 | 17 | 16 | 15 | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 10 | 10 |
| 15' | 514 | 257 | 171 | 129 | 103 | 86 | 73 | 64 | 57 | 51 | 47 | 43 | 40 | 37 | 34 | 32 | 30 | 29 | 27 | 26 | 24 | 23 | 22 | 21 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 14 | 13 | 12 | 12 | 11 | 11 | 10 |
| 16' | 549 | 274 | 183 | 137 | 110 | 91 | 78 | 69 | 61 | 55 | 50 | 46 | 42 | 39 | 37 | 34 | 32 | 30 | 29 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 14 | 13 | 12 | 12 | 11 | 11 |
| 17' | 583 | 291 | 194 | 146 | 117 | 97 | 83 | 73 | 65 | 58 | 53 | 49 | 45 | 42 | 39 | 36 | 34 | 32 | 31 | 29 | 28 | 26 | 25 | 24 | 23 | 22 | 21 | 19 | 18 | 17 | 16 | 15 | 14 | 14 | 13 | 12 | 12 | 11 | 11 |
| 18' | 617 | 309 | 206 | 154 | 123 | 103 | 88 | 77 | 69 | 62 | 56 | 51 | 47 | 44 | 41 | 39 | 36 | 34 | 32 | 31 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 13 | 12 | 12 |
| 19' | 652 | 326 | 217 | 163 | 130 | 109 | 93 | 81 | 72 | 65 | 59 | 54 | 50 | 47 | 43 | 41 | 38 | 36 | 34 | 33 | 31 | 30 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 20 | 19 | 18 | 17 | 16 | 16 | 15 | 14 | 14 | 13 |
| 20' | 686 | 343 | 229 | 171 | 137 | 114 | 98 | 86 | 76 | 69 | 62 | 57 | 53 | 49 | 46 | 43 | 40 | 38 | 36 | 34 | 33 | 31 | 30 | 29 | 27 | 26 | 25 | 24 | 23 | 21 | 20 | 19 | 18 | 17 | 16 | 16 | 15 | 14 | 14 |
| 21' | 720 | 360 | 240 | 180 | 144 | 120 | 103 | 90 | 80 | 72 | 65 | 60 | 55 | 51 | 48 | 45 | 42 | 40 | 38 | 36 | 34 | 33 | 31 | 30 | 29 | 28 | 27 | 26 | 24 | 23 | 21 | 20 | 19 | 18 | 17 | 16 | 16 | 15 | 14 |
| 22' | 754 | 377 | 251 | 189 | 151 | 126 | 108 | 94 | 84 | 75 | 69 | 63 | 58 | 54 | 50 | 47 | 44 | 42 | 40 | 38 | 36 | 34 | 33 | 31 | 30 | 29 | 28 | 27 | 25 | 24 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 16 | 15 |
| 23' | 789 | 394 | 263 | 197 | 158 | 131 | 113 | 99 | 88 | 79 | 72 | 66 | 61 | 56 | 53 | 49 | 46 | 44 | 42 | 39 | 38 | 36 | 34 | 33 | 32 | 30 | 29 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 16 |
| 24' | 823 | 411 | 274 | 206 | 165 | 137 | 118 | 103 | 91 | 82 | 75 | 69 | 63 | 59 | 55 | 51 | 48 | 46 | 43 | 41 | 39 | 37 | 36 | 34 | 33 | 32 | 30 | 29 | 27 | 26 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
| 25' | 857 | 429 | 286 | 214 | 171 | 143 | 122 | 107 | 95 | 86 | 78 | 71 | 66 | 61 | 57 | 54 | 50 | 48 | 45 | 43 | 41 | 39 | 37 | 36 | 34 | 33 | 32 | 31 | 29 | 27 | 25 | 24 | 23 | 21 | 20 | 19 | 19 | 18 | 17 |
| 26' | 892 | 446 | 297 | 223 | 178 | 149 | 127 | 111 | 99 | 89 | 81 | 74 | 69 | 64 | 59 | 56 | 52 | 50 | 47 | 45 | 42 | 41 | 39 | 37 | 36 | 34 | 33 | 32 | 30 | 28 | 26 | 25 | 23 | 22 | 21 | 20 | 19 | 19 | 18 |
| 27' | 926 | 463 | 309 | 231 | 185 | 154 | 132 | 116 | 103 | 93 | 84 | 77 | 71 | 66 | 62 | 58 | 54 | 51 | 49 | 46 | 44 | 42 | 40 | 39 | 37 | 36 | 34 | 33 | 31 | 29 | 27 | 26 | 24 | 23 | 22 | 21 | 20 | 19 | 19 |
| 28' | 960 | 480 | 320 | 240 | 192 | 160 | 137 | 120 | 107 | 96 | 87 | 80 | 74 | 69 | 64 | 60 | 56 | 53 | 51 | 48 | 46 | 44 | 42 | 40 | 38 | 37 | 36 | 34 | 32 | 30 | 28 | 27 | 25 | 24 | 23 | 22 | 21 | 20 | 19 |
| 29' | 994 | 497 | 331 | 249 | 199 | 166 | 142 | 124 | 110 | 99 | 90 | 83 | 76 | 71 | 66 | 62 | 58 | 55 | 52 | 50 | 47 | 45 | 43 | 41 | 40 | 38 | 37 | 36 | 33 | 31 | 29 | 28 | 26 | 25 | 24 | 23 | 22 | 21 | 20 |
| 30' | 1029 | 514 | 343 | 257 | 206 | 171 | 147 | 129 | 114 | 103 | 94 | 86 | 79 | 73 | 69 | 64 | 61 | 57 | 54 | 51 | 49 | 47 | 45 | 43 | 41 | 40 | 38 | 37 | 34 | 32 | 30 | 29 | 27 | 26 | 24 | 23 | 22 | 21 | 21 |
| 32' | 1097 | 549 | 366 | 274 | 219 | 183 | 157 | 137 | 122 | 110 | 100 | 91 | 84 | 78 | 73 | 69 | 65 | 61 | 58 | 55 | 52 | 50 | 48 | 46 | 44 | 42 | 41 | 39 | 37 | 34 | 32 | 30 | 29 | 27 | 26 | 25 | 24 | 23 | 22 |
| 34' | 1166 | 583 | 389 | 291 | 233 | 194 | 167 | 146 | 130 | 117 | 106 | 97 | 90 | 83 | 78 | 73 | 69 | 65 | 61 | 58 | 56 | 53 | 51 | 49 | 47 | 45 | 43 | 42 | 39 | 36 | 34 | 32 | 31 | 29 | 28 | 26 | 25 | 24 | 23 |
| 36' | 1234 | 617 | 411 | 309 | 247 | 206 | 176 | 154 | 137 | 123 | 112 | 103 | 95 | 88 | 82 | 77 | 73 | 69 | 65 | 62 | 59 | 56 | 54 | 51 | 49 | 47 | 46 | 44 | 41 | 39 | 36 | 34 | 32 | 31 | 29 | 28 | 27 | 26 | 25 |
| 38' | 1303 | 652 | 434 | 326 | 261 | 217 | 186 | 163 | 145 | 130 | 118 | 109 | 100 | 93 | 87 | 81 | 77 | 72 | 69 | 65 | 62 | 59 | 57 | 54 | 52 | 50 | 48 | 47 | 43 | 41 | 38 | 36 | 34 | 33 | 31 | 30 | 28 | 27 | 26 |
| 40' | 1372 | 686 | 457 | 343 | 274 | 229 | 196 | 171 | 152 | 137 | 125 | 114 | 106 | 98 | 91 | 86 | 81 | 76 | 72 | 69 | 65 | 62 | 60 | 57 | 55 | 53 | 51 | 49 | 46 | 43 | 40 | 38 | 36 | 34 | 33 | 31 | 30 | 29 | 27 |
| 42' | 1440 | 720 | 480 | 360 | 288 | 240 | 206 | 180 | 160 | 144 | 131 | 120 | 111 | 103 | 96 | 90 | 85 | 80 | 76 | 72 | 69 | 65 | 63 | 60 | 58 | 55 | 53 | 51 | 48 | 45 | 42 | 40 | 38 | 36 | 34 | 33 | 31 | 30 | 29 |
| 44' | 1509 | 754 | 503 | 377 | 302 | 251 | 216 | 189 | 168 | 151 | 137 | 126 | 116 | 108 | 101 | 94 | 89 | 84 | 79 | 75 | 72 | 69 | 66 | 63 | 60 | 58 | 56 | 54 | 50 | 47 | 44 | 42 | 40 | 38 | 36 | 34 | 33 | 31 | 30 |
| 46' | 1577 | 789 | 526 | 394 | 315 | 263 | 225 | 197 | 175 | 158 | 143 | 131 | 121 | 113 | 105 | 99 | 93 | 88 | 83 | 79 | 75 | 72 | 69 | 66 | 63 | 61 | 58 | 56 | 53 | 49 | 46 | 44 | 42 | 39 | 38 | 36 | 34 | 33 | 32 |
| 48' | 1646 | 823 | 549 | 411 | 329 | 274 | 235 | 206 | 183 | 165 | 150 | 137 | 127 | 118 | 110 | 103 | 97 | 91 | 87 | 82 | 78 | 75 | 72 | 69 | 66 | 63 | 61 | 59 | 55 | 51 | 48 | 46 | 43 | 41 | 39 | 37 | 36 | 34 | 33 |
| 50' | 1715 | 857 | 572 | 429 | 343 | 286 | 245 | 214 | 191 | 171 | 156 | 143 | 132 | 122 | 114 | 107 | 101 | 95 | 90 | 86 | 82 | 78 | 75 | 71 | 69 | 66 | 64 | 61 | 57 | 54 | 50 | 48 | 45 | 43 | 41 | 39 | 37 | 36 | 34 |

To determine the lens needed for your application:

- 1) Find the distance your projector will be from the screen (left column)
- 2) Find the screen image size you want (top or bottom row)
- 3) Locate the number where the row and column intersects, this is the lens size (in mm) needed for your application.

Example:

- 1) Find 21' PROJECTOR DISTANCE (from left column)
- 2) Find 6' SCREEN IMAGE SIZE (from top row)
- 3) Lens size needed is 120 mm (intersection of steps 1 and 2)

Kodak lenses are indicated in red.

Lens measurements are in millimetres. To convert to inches multiply by .0394.

*The SCREEN IMAGE SIZE is the longest side of a projected image, regardless of orientation.

