

Lenses for LC-WGC500

Resolution: WXGA (1280x800)
Aspect Ratio: (10 High by 16 Wide by 18.87 Diagonal)
True Aperture: 0.81 in. wide

Screen Dimensions (H & W in ft., D in in.).

| | | | | | | | |
|----|------|------|------|------|------|------|------|
| H' | 1.30 | 2.20 | 4.40 | 5.50 | 6.60 | 8.80 | 13.3 |
| W' | 2.12 | 3.53 | 7.08 | 8.83 | 10.6 | 14.1 | 21.2 |
| D" | 29.8 | 50 | 100 | 125 | 150 | 200 | 300 |

| Standard Lens | Ref. | T/W | Shift/Limits | Standard Lens | Xtend | EFL | Distance (expressed in feet). | | | | | | | | | | | | |
|----------------|------|------|--------------|-------------------------|--------|------|-------------------------------|-----|------|------|------|------|------|--|--|--|--|--|--|
| Standard Lens | | 1.61 | 10:0~1:1 | 1.30"~1.69" Power, Zoom | 0.0" | 1.30 | - | 5.7 | 11.4 | 14.2 | 17.1 | 22.8 | 34.2 | | | | | | |
| 645 093 9068 | S11 | 2.10 | | (33~43 mm) f:1.7~2.1 | 0.0 mm | 1.69 | 4.5 | 7.4 | 14.9 | 18.6 | 22.3 | 29.7 | - | | | | | | |
| (aka AH-23421) | | | | | | | | | | | | | | | | | | | |

| Auxiliary Lenses | Ref. | T/W | Shift/Limits | Auxiliary Lenses | Xtend | EFL | Distance (expressed in feet). | | | | | | | | | | | | |
|------------------|------|------|------------------|----------------------|-------|-------|-------------------------------|-----|-----|-----|-----|----|------|--|--|--|--|--|--|
| 0001-4298 | 1625 | 0.78 | 1:1 (On Axis) | 0.629" Manual, Fixed | 3.5" | 0.629 | 1.7 | 2.8 | 5.5 | 6.9 | 8.3 | 11 | 16.6 | | | | | | |
| | | | | (16 mm) f:2.5 | 89 mm | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|----------|-----|------|------------------|----------------------|--------|-------|-----|-----|-----|-----|-----|------|------|--|--|--|--|--|--|
| AH-23631 | W11 | 0.81 | 1:1 (On Axis) | 0.065" Manual, Fixed | 0.0" | 0.650 | 1.7 | 2.8 | 5.7 | 7.1 | 8.5 | 11.4 | 17.1 | | | | | | |
| | | | | (16.51 mm) f:2.3 | 0.0 mm | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|-----------|------|------|------------------|----------------------|-------|-------|-----|-----|-----|-----|------|------|------|--|--|--|--|--|--|
| 0001-4300 | 2125 | 1.03 | 1:1 (On Axis) | 0.826" Manual, Fixed | 4" | 0.826 | 2.2 | 3.6 | 7.3 | 9.1 | 10.9 | 14.5 | 21.7 | | | | | | |
| | | | | (21 mm) f:2.5 | 102mm | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|-----------|------|------|---------|--------------------|-------|------|-----|-----|-----|----|------|------|------|--|--|--|--|--|--|
| 0001-4264 | 1028 | 1.24 | 8:1~1:1 | 1.0" Manual, Fixed | 2.5" | 1.00 | 2.6 | 4.4 | 8.8 | 11 | 13.1 | 17.5 | 26.3 | | | | | | |
| | | | | (25.4 mm) f:2.8 | 64 mm | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|----------|-----|------|----------|--------------------------|--------|------|-----|-----|------|------|------|------|------|--|--|--|--|--|--|
| AH-23511 | W10 | 1.24 | 10:0~1:1 | 1.0"~1.3" Power, Zoom | 0.0" | 1.00 | 2.6 | 4.4 | 8.8 | 11 | 13.1 | 17.5 | 26.3 | | | | | | |
| | | 1.61 | | (25.4~33.0 mm) f:2.3~2.6 | 0.0 mm | 1.30 | 3.4 | 5.7 | 11.4 | 14.3 | 17.1 | - | - | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|----------|-----|------|----------|----------------------------|-------|------|-----|-----|------|------|------|----|----|--|--|--|--|--|--|
| AH-23541 | T10 | 2.12 | 10:0~1:1 | 1.71"~2.74" Power, Zoom | 1.0" | 1.71 | 4.5 | 7.5 | 15 | 18.7 | 22.5 | 30 | 45 | | | | | | |
| | | 3.40 | | (43.43~69.49 mm) f:2.0~2.6 | 25 mm | 2.74 | 7.2 | 12 | 24.1 | 30 | 36 | - | - | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|------|----------------------------|-------------------------|-------|------|-----|------|------|------|------|------|------|--|--|--|--|--|--|
| 0001-4269* | 275 | 2.45 | 10:0~1.1 max w/a stripe | 1.97~2.76" Manual, Zoom | 1.5" | 1.97 | 5.2 | 8.6 | 17.3 | 21.6 | 25.9 | 34.6 | 51.8 | | | | | | |
| | | 3.43 | | (50~70 mm) f:2.5 | 38 mm | 2.76 | 7.3 | 12.1 | 24.3 | 30.3 | 36.3 | 48.4 | 72.6 | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|----------|-----|------|----------|---------------------------|-------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| AH-23661 | T11 | 3.38 | 10:0~1.1 | 2.72"~4.30" Power, Zoom | 1.14" | 2.72 | 7.2 | 11.9 | 23.9 | 29.8 | 35.8 | 47.7 | 71.6 | | | | | | |
| | | 5.34 | | (69.1~109.3 mm) f:2.1~2.5 | 29 mm | 4.30 | 11.3 | 18.8 | 37.8 | 47.1 | 56.5 | 75.4 | 113 | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|------|-----------------------------|--------------------------|--------|------|------|------|------|------|------|------|------|--|--|--|--|--|--|
| 0001-4266* | 500 | 3.41 | 10:0~1.1 midrange stripe | 2.75"~5.00" Manual, Zoom | 4" | 2.75 | 7.2 | 12.1 | 24.2 | 30.1 | 36.2 | 48.2 | 72.4 | | | | | | |
| | | 6.21 | | (70~120 mm) f:2.8 | 102 mm | 5.00 | 13.2 | 21.9 | 43.9 | 54.8 | 65.7 | 87.7 | 132 | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-------|-----------------------------|------------------------|--------|------|------|------|------|------|------|------|-------|--|--|--|--|--|--|
| 0001-4267* | 087 | 6.46 | 10:0~1.1 max tele stripe | 5.2"~8.7" Manual, Zoom | 8" | 5.20 | 13.7 | 22.8 | 45.7 | 57 | 68.4 | 91.2 | 136.9 | | | | | | |
| | | 10.80 | | (132~220 mm) f:3.0 | 203 mm | 8.70 | 22.9 | 38.1 | 76.5 | 95.4 | 114 | 153 | 229 | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|------------|-----|-------|------------------------------|--------------------------|--------|------|------|------|------|------|------|-----|-------|--|--|--|--|--|--|
| 0001-4268* | 900 | 7.58 | 10:0~1.1 telephoto stripe | 6.00"~9.00" Manual, Zoom | 7" | 6.00 | 15.8 | 26.3 | 52.7 | 65.8 | 78.9 | 105 | 157.9 | | | | | | |
| | | 11.36 | | (152~229 mm) f:3.5 | 178 mm | 9.00 | 23.7 | 39.4 | 79.1 | 98.7 | 118 | 158 | 236.9 | | | | | | |

| Image Width for 4:3: height stays the same as 16:10 (ignore Diagonal). | W | 1.7 | 2.9 | 5.9 | 7.3 | 8.8 | 11.7 | 17.7 |
|--|---|-----|-----|-----|-----|-----|------|------|
|--|---|-----|-----|-----|-----|-----|------|------|

* Limits - Lenses marked with an asterisk (*) generate a focused stripe of light outside the projected image at some point in their zoom.

Xtend - This column indicates the amount the lens protrudes from the front face of the cabinet at maximum extension.

How to use the T/W column. - If your screen size does not appear on this chart, use the T/W column to find the lens you need. Divide the Throw distance by the screen Width to get your "target T/W number". Then, look for a lens with a T/W range that covers it.

Understanding Shift/Limits. - The numbers in the Shift/Limits column express the projector positions possible as a ratio of the image heights Above:Below a line drawn perpendicular to the screen between the lens and the screen. 1:1 = center of the image. 10:0 = top of the image.

These charts are a simulation. - Effective Focal Length (EFL) most accurately represents lens behavior, and drives the calculations.. Calculations are from the front glass of the lens and accurate to approximately +/- 3%. Specifications are subject to change without notice.



205 Westwood Ave, Long Branch, NJ 07740
Phone: 866-94 BOARDS (26273) / (732)-222-1511
Fax: (732)-222-7088 | E-mail: sales@touchboards.com