



The production of a microscope objective demands many critical skills - from the selection of different kinds of glass to the most advanced production technologies. Since the performance of a microscope can only equal the integrity of its optical system, AO Reichert has always refused to compromise on the quality of materials or manufacturing processes. Every aspect of objective production is a basic, calculated step to optical excellence.

All objectives are parcentered and parfocal to minimize focusing procedures. All objectives are color coded, for quick positioning of the desired objective into the optical path.

All essential air glass surfaces are **AMERICOTE™**, a coating process which decreases internal reflections, improves light transmission and image contrast.

Of utmost importance to the performance of AO Reichert microscopes is the revolutionary concept of the focusing nosepiece - or infinity corrected optical system. This is an exclusive design which eliminates the necessity of a fixed distance between objective and eyepiece. And it is a major contribution to the ease with which AO Reichert instruments are used.

Catalog 1303 - 63X N.A. .80 Semi Plan Achromat Objective offers an ideal alternative to oil immersion for those applications where magnification and resolution of a 40X objective are not quite adequate. Because of the high .80 numerical aperture, performance of the 1303, particularly in vertical fluorescence, is exemplary.



Catalog 1309, Catalog 1311 - 40X N.A. .66 Plan Achromat and 100X N.A. 1.25 (oil) Plan Achromat Objectives. Both are exceptionally well corrected for flatness of field and for spherical and chromatic aberrations - excellent for demanding, high-power work in Bacteriology and Cytology.



Catalog 1866, Catalog 1867 - 40X N.A. .55 Plan Achromat and 100X N.A. .90 (dry) Plan Achromat Objectives - the highest quality Plan Achromats we offer. These superb optics of long working distance are designed for use without cover glasses, and are especially suitable for Hematology applications.



BIOLOGICAL OBJECTIVES AND INSTRUMENT APPLICATIONS

| Mag. | Cat. No. | SERIES 160 | SERIES 150 | SERIES 101 | SERIES 110 | SERIES 120 | SERIES 110/120 FLUORESCENCE | SERIES 110/120 PHASE | SERIES 1820 BIOSTAR |
|---|----------|------------|------------|------------|------------|------------|-----------------------------|----------------------|---------------------|
| STANDARD ACHROMATS | | | | | | | | | |
| 4X | 130 | • | • | | | | | | |
| 10X | 131 | • | | | | | | | |
| 43X | 132 | • | | | | | | | |
| ADVANCED ACHROMATS | | | | | | | | | |
| 10X | 1026 | • | • | • | • | | | | • |
| 40X | 1891 | | | | | | • | | |
| 45X | 1116 | • | • | • | • | | | | |
| 100X | 1079 | • | • | • | • | | • | | |
| SEMI PLAN ACHROMAT | | | | | | | | | |
| 63X | 1303 | | | | • | • | • | | |
| CLINICAL PLAN ACHROMATS | | | | | | | | | |
| 4X | 1126 | | | • | | | | | |
| 10X | 1127 | | | • | | | | | |
| 40X | 1128 | | | • | • | | | | |
| 100X | 1129 | | | • | | | | | |
| ADVANCED PLAN ACHROMATS | | | | | | | | | |
| 2.5X | 1028 | | | • | • | • | | | |
| 4X | 1017 | | | • | • | • | | | • |
| 10X | 1021 | | | • | • | • | • | | |
| 20X | 1022 | | | • | • | • | • | | |
| 40X | 1309 | | | • | • | • | • | | |
| 40X | 1866 | | | • | • | • | • | | |
| 50X | 1016 | | | • | • | • | • | | |
| 100X | 1311 | | | • | • | • | • | | |
| 100X | 1014 | | | • | • | • | • | | |
| 100X | 1867 | | | • | • | • | • | | |
| PHASE PLAN ACHROMATS | | | | | | | | | |
| 10X | 1211 | | | | | | | • | • |
| 20X | 1212 | | | | | | | • | |
| 40X | 1213 | | | | | | | • | |
| 100X | 1214 | | | | | | | • | |
| LWD ACHROMATS FOR TISSUE CULTURE | | | | | | | | | |
| 20X | 1215 | | | | | | | | • |
| 20X | 1216A | | | | | | | | • |
| 45X | 1218A | | | | | | | | • |
| LWD PHASE ACHROMATS FOR TISSUE CULTURE | | | | | | | | | |
| 20X | 1223 | | | | | | | | • |
| 20X | 1217A | | | | | | | | • |
| 45X | 1219A | | | | | | | | • |

INDUSTRIAL OBJECTIVES

| Mag. | Cat. No. | SERIES 110 POL STAR | SERIES 3000 INDUSTRIAL | SERIES 110 DICV | SERIES 2560 |
|---|----------|---------------------|------------------------|-----------------|-------------|
| ADVANCED ACHROMAT FOR POLARIZATION (STRAIN-FREE) | | | | | |
| 40X | 1891S | • | | | |
| PLAN ACHROMATS FOR POLARIZATION (STRAIN-FREE) | | | | | |
| 2.5X | 1028S | • | | | |
| 4X | 1017S | • | | | |
| 10X | 1021S | • | | | |
| 20X | 1022S | • | | | |
| ADVANCED ACHROMATS, BRIGHT FIELD | | | | | |
| 6.5X | 3006 | | • | | • |
| 10X | 1026 | | • | | • |
| PLAN ACHROMATS, BRIGHT FIELD | | | | | |
| 10X | 2555 | | • | | • |
| 20X | 2556 | | • | | • |
| 40X | 2557 | | • | | • |
| 40X | 1866 LWD | | • | | • |
| 100X | 1867 LWD | | • | | • |
| PLAN ACHROMATS FOR DICV (STRAIN-FREE) | | | | | |
| 10X | 2555S | • | | • | |
| 20X | 2556S | • | | • | |
| 40X | 2557S | • | | • | |

| Mag. | Cat. No. | SERIES 110 POL STAR | SERIES 3000 INDUSTRIAL | SERIES 110 DICV | SERIES 2560 |
|---|----------|---------------------|------------------------|-----------------|-------------|
| PLAN ACHROMATS, BRIGHT FIELD/DARK FIELD | | | | | |
| 6.5X | 2564 | | | | • |
| 10X | 2565 | | | | • |
| 20X | 2566 | | | | • |
| 40X | 2567 | | | | • |
| 60X | 2568 | | | | • |
| PLAN ACHROMATS, BF/DF/DIC (STRAIN-FREE) | | | | | |
| 6.5X | 2564S | | | | • |
| 10X | 2565S | | | | • |
| 20X | 2566S | | | | • |
| 40X | 2567S | | | | • |
| 60X | 2568S | | | | • |
| 100X | 1867S* | | | | • |
| AIR SPACED OBJECTIVES FOR LASER APPLICATIONS | | | | | |
| 6.5X | K2075 | | • | | |
| 6.5X | K2259 | | • | | |
| 10X | K1610 | | • | | |
| 10X | K2246 | | • | | |

*BF/DIC Only