

# Objectives

| Type  | Use   | Model                  | Immersion | NA                  | W.D. (mm)           | Cover glass thickness | Correction ring | Spring loaded | Brightfield | Darkfield | DIC   | Phase contrast | Polarizing | Fluorescence  |       | Ti2-E PFS |  |
|---|---|------------------------|-----------|---------------------|---------------------|-----------------------|-----------------|---------------|-------------|-----------|-------|----------------|------------|---------------|-------|-----------|--|
|   |   |                        |           |                     |                     |                       |                 |               |             |           |       |                |            | Visible light | UV    |           |  |
| Achromat  | Brightfield (CFI)                             | 4X                     |           | 0.10                | 30.00               | —                     |                 |               | ⊙           |           |       |                | △          | ○             |       |           |  |
|   |   | 10X                    |           | 0.25                | 7.00                | —                     |                 |               | ⊙           | △         |       |                | △          | ○             |       |           |  |
|   |   | LWD 20X                |           | 0.40                | 3.90                | 0.17                  |                 |               | ⊙           | ⊙●        |       |                | △          | ○             |       |           |  |
|   |   | 40X                    |           | 0.65                | 0.65                | 0.17                  |                 | ✓             | ⊙           | ⊙●        |       |                | △          | ○             |       |           |  |
|   |   | LWD 40XC               |           | 0.55                | 2.70-1.70           | 0-2.00                | ✓               |               | ⊙           | ⊙●        |       |                | △          | ○             |       |           |  |
|   |   | 60X                    |           | 0.80                | 0.30                | 0.17                  |                 | ✓             | ⊙           | ●         |       |                | △          | ○             |       |           |  |
|   |   | 100X Oil               | Oil       | 1.25                | 0.23                | 0.17                  |                 | ✓             | ⊙           |           |       |                | △          | ○             |       |           |  |
|   | 100XS Oil                                     | Oil                    | 0.50-1.25 | 0.23                | 0.17                |                       | ✓               | ⊙             | ⊙●          |           |       | △              | ○          |               |       |           |  |
|   | Polarizing (CFI)                              | P 4X                   |           | 0.10                | 30.00               | —                     |                 |               | ⊙           | △         |       |                | ⊙          | ○             |       |           |  |
|   |   | P 10X                  |           | 0.25                | 7.00                | —                     |                 |               | ⊙           | △         |       |                | ⊙          | ○             |       |           |  |
|   |   | LWD P 20X              |           | 0.40                | 3.90                | 0.17                  |                 |               | ⊙           | ⊙●        |       |                | ⊙          | ○             |       |           |  |
|   |   | P 40X                  |           | 0.65                | 0.65                | 0.17                  |                 | ✓             | ⊙           | ⊙●        |       |                | ⊙          | ○             |       |           |  |
|   |   | P 100X Oil             | Oil       | 1.25                | 0.23                | 0.17                  |                 | ✓             | ⊙           |           |       |                | ⊙          | ○             |       |           |  |
|   | Phase contrast (CFI)                          | DL 10X                 |           | 0.25                | 7.00                | —                     |                 |               | ○           | △         |       | ⊙ PH1          | △          | △             |       |           |  |
|   |   | LWD DL 20X             |           | 0.40                | 3.90                | 0.17                  |                 |               | ○           | ⊙●        |       | ⊙ PH1          | △          | △             |       |           |  |
|   |   | LWD DL 20XF            |           | 0.40                | 3.10                | 1.20                  |                 |               | ○           |           |       | ⊙ PH1          | △          | △             |       |           |  |
|   |   | DL 40X                 |           | 0.65                | 0.65                | 0.17                  |                 | ✓             | ○           | ⊙●        |       | ⊙ PH2          | △          | △             |       |           |  |
|   |   | LWD DL 40XC            |           | 0.55                | 2.70-1.70           | 0-2.00                | ✓               |               | ○           | ⊙●        |       | ⊙ PH2          | △          | △             |       |           |  |
|   |   | DL 100X Oil            | Oil       | 1.25                | 0.23                | 0.17                  |                 | ✓             | ○           |           |       | ⊙ PH3          | △          | △             |       |           |  |
|   | Apodized phase contrast (CFI)                 | ADL 10XF               |           | 0.25                | 6.20                | 1.20                  |                 |               | ○           |           |       | ⊙ PH1          | △          | △             |       |           |  |
|   |   | LWD ADL 20XF           |           | 0.40                | 3.10                | 1.20                  |                 |               | ○           |           |       | ⊙ PH1          | △          | △             |       |           |  |
|   |   | LWD ADL 40XC           |           | 0.55                | 2.10                | 1.20                  |                 |               | ○           |           |       | ⊙ PH1          | △          | △             |       |           |  |
|   | Advanced modulation contrast (CFI)            | NAMC 10XF              |           | 0.25                | 6.20                | 1.20                  |                 |               | ○           |           |       |                |            | △             |       |           |  |
|   |   | LWD NAMC 20XF          |           | 0.40                | 3.10                | 1.20                  |                 |               | ○           |           |       |                |            | △             |       |           |  |
|   |   | LWD NAMC 40XC          |           | 0.55                | 2.70-1.70           | 0-2.00                | ✓               |               | ○           |           |       |                |            | △             |       |           |  |
|   | Brightfield (CF) For YS100 MV LED             | 4X                     |           | 0.10                | 25.00               | -                     |                 |               | ⊙           |           |       |                |            |               |       |           |  |
|   |   | 10X                    |           | 0.25                | 5.60                | -                     |                 |               | ⊙           |           |       |                |            |               |       |           |  |
|   |   | 40X                    |           | 0.65                | 0.60                | 0.17                  |                 | ✓             | ⊙           |           |       |                |            |               |       |           |  |
|   |   | 60X                    |           | 0.80                | 0.24                | 0.17                  |                 | ✓             | ⊙           |           |       |                |            |               |       |           |  |
|   |   | 100X Oil               | Oil       | 1.25                | 0.14                | 0.17                  |                 | ✓             | ⊙           |           |       |                |            |               |       |           |  |
|   | Plan Achromat                                 | Brightfield (CFI Plan) | 1X        |                     | 0.04                | 3.20                  | —               |               |             | ⊙         |       |                |            | △             | △     |           |  |
|   |   |                        | 2X        |                     | 0.06                | 7.50                  | —               |               |             | ⊙         |       |                |            | △             | △     |           |  |
|   |   |                        | 4X        |                     | 0.10                | 30.00                 | —               |               |             | ⊙         |       |                |            | △             | ○     |           |  |
|   |   |                        | 10X       |                     | 0.25                | 10.50                 | —               |               |             | ⊙         | △     |                |            | △             | ○     |           |  |
|   |   |                        | 20X       |                     | 0.40                | 1.20                  | 0.17            |               |             | ⊙         | ⊙●    |                |            | △             | ○     |           |  |
| 40X   |   |                        |           | 0.65                | 0.56                | 0.17                  |                 | ✓             | ⊙           | ⊙●        |       |                | △          | ○             |       |           |  |
| 50X Oil   |   |                        | Oil       | 0.90                | 0.35-0.18           | 0-0.17                |                 | ✓             | ⊙           | ●         |       |                | △          | ○             |       |           |  |
| Phase contrast (CFI Plan)                       |   | DL 10X                 |           | 0.25                | 10.50               | —                     |                 |               | ○           | △         |       | ⊙ PH1          | △          | △             |       |           |  |
|   |   | DL 20X                 |           | 0.40                | 1.20                | 0.17                  |                 |               | ○           | ⊙●        |       | ⊙ PH1          | △          | △             |       |           |  |
|   |   | DL 40X                 |           | 0.65                | 0.56                | 0.17                  |                 | ✓             | ○           | ⊙●        |       | ⊙ PH2          | △          | △             |       |           |  |
|   |   | DL 100X Oil            | Oil       | 1.25                | 0.20                | 0.17                  |                 | ✓             | ○           |           |       | ⊙ PH3          | △          | △             |       |           |  |
| No cover glass (CFI Plan)                       |   | NCG 40X                |           | 0.65                | 0.48                | 0                     |                 | ✓             | ⊙           | ⊙●        |       |                | △          | ○             | △     |           |  |
|   |   | NCG 100X               |           | 0.90                | 1.00                | 0                     |                 | ✓             | ⊙           | ●         |       |                | △          | ○             | △     |           |  |
| Phase contrast (CFI BE Plan) For E100           |   | DL 10X                 |           | 0.25                | 6.70                | 0.17                  |                 |               | ○           |           |       | ⊙ PH1          |            |               |       |           |  |
|   |   | DL 40X                 |           | 0.65                | 0.60                | 0.17                  |                 | ✓             | ○           |           |       | ⊙ PH2          |            |               |       |           |  |
|   |   | DL 100X Oil            | Oil       | 1.25                | 0.14                | 0.17                  |                 | ✓             | ○           |           |       | ⊙ PH3          |            |               |       |           |  |
| Brightfield (CFI BE Plan) For E100              |   | 4X                     |           | 0.10                | 25.00               | —/0.17                |                 |               | ⊙           |           |       |                |            |               |       |           |  |
|   |   | 10X                    |           | 0.25                | 6.70                | 0.17                  |                 |               | ⊙           |           |       |                |            |               |       |           |  |
|   |   | 20X                    |           | 0.25                | 6.70                | 0.17                  |                 |               | ⊙           |           |       |                |            |               |       |           |  |
|   |   | 40X                    |           | 0.65                | 0.60                | 0.17                  |                 | ✓             | ⊙           |           |       |                |            |               |       |           |  |
|   |   | 100X Oil               | Oil       | 1.25                | 0.14                | 0.17                  |                 | ✓             | ⊙           |           |       |                |            |               |       |           |  |
| Brightfield (CFI E Plan) For E200               |   | 4X                     |           | 0.10                | 30.00               | 0                     |                 |               | ⊙           |           |       |                | △          | ○             |       |           |  |
|   |   | 10X                    |           | 0.25                | 7.00                | 0                     |                 |               | ⊙           | △         |       |                | △          | ○             |       |           |  |
|   |   | 40X                    |           | 0.65                | 0.65                | 0.17                  |                 | ✓             | ⊙           | ⊙●        |       |                | △          | ○             |       |           |  |
|   |   | 100X Oil               | Oil       | 1.25                | 0.23                | 0.17                  |                 | ✓             | ⊙           |           |       |                | △          | ○             |       |           |  |
| IMSI (CFI Plan)                                 | LWD IMSI 100XC                                |                        | 0.85      | 1.30-0.95 (1.15 *1) | 0.60-1.30           |                       | ✓               | ○             | ●           | ○         |       | ○              | ○          |               |       |           |  |
|   | LWD 20XC                                      |                        | 0.70      | 1.30-2.30           | 0-1.8               | ✓                     |                 | ⊙             | ⊙●          | ○         |       | ○              | ○          | ⊙             | ●     |           |  |
| Brightfield (CFI S Plan Fluor)                  | ELWD 20XC                                     |                        | 0.45      | 8.20-6.90 (7.40 *2) | 0-2.00              | ✓                     |                 | ⊙             | ⊙●          | ○         |       | ○              | ○          | ⊙             | ●     |           |  |
|   | ELWD 40XC                                     |                        | 0.60      | 3.60-2.80 (3.11 *2) | 0-2.00              | ✓                     |                 | ⊙             | ⊙●          | ○         |       | ○              | ○          | ⊙             | ●     |           |  |
|   | ELWD 60XC                                     |                        | 0.70      | 2.60-1.80 (2.19 *3) | 0.10-1.30           | ✓                     |                 | ⊙             | ⊙●          | ○         |       | ○              | ○          | ⊙             | ●     |           |  |
|   | LWD ADM 20XC                                  |                        | 0.70      | 1.30-2.30           | 0-1.8               | ✓                     |                 | ○             | ⊙●          |           | ⊙ PH2 | ○              | ○          | ○             | ●     |           |  |
|   | ELWD ADM 20XC                                 |                        | 0.45      | 8.20-6.90 (7.40 *2) | 0-2.00              | ✓                     |                 | ○             | ⊙●          |           | ⊙ PH1 | ○              | ○          | ○             | ●     |           |  |
| Apodized phase contrast (CFI S Plan Fluor)      | ELWD ADM 40XC                                 |                        | 0.60      | 3.60-2.80 (3.11 *2) | 0-2.00              | ✓                     |                 | ○             | ⊙●          |           | ⊙ PH2 | ○              | ○          | ○             | ●     |           |  |
|   | ELWD ADL 60XC                                 |                        | 0.70      | 2.60-1.80 (1.85 *2) | 0.10-1.30           | ✓                     |                 | ○             | ⊙●          |           | ⊙ PH2 | ○              | ○          | ○             | ●     |           |  |
|   | ELWD NAMC 20XC                                |                        | 0.45      | 8.20-6.90 (7.40 *2) | 0-2.00              | ✓                     |                 | ○             |             |           |       | ○              | ○          |               |       |           |  |
| Advanced modulation contrast (CFI S Plan Fluor) | ELWD NAMC 40XC                                |                        | 0.60      | 3.60-2.80 (3.10 *2) | 0-2.00              | ✓                     |                 | ○             |             |           |       | ○              | ○          |               |       |           |  |
|   | ELWD NAMC 20XC                                |                        | 0.45      | 8.20-6.90 (7.40 *2) | 0-2.00              | ✓                     |                 | ○             |             |           |       | ○              | ○          |               |       |           |  |
| Super Fluor                                     | Brightfield (CFI Super Fluor)                 | 4X                     |           | 0.20                | 15.50               | —                     |                 |               | ⊙           |           |       |                | △          | ⊙             | ⊙ 340 | ●         |  |
|   |   | 10X                    |           | 0.50                | 1.20                | 0.17                  |                 | ✓             | ⊙           | ⊙●        | ○     |                | △          | ⊙             | ⊙ 340 | ●         |  |
|   |   | 20X                    |           | 0.75                | 1.00                | 0.17                  |                 | ✓             | ⊙           | ⊙●        | ○     |                | △          | ⊙             | ⊙ 340 | ●         |  |
|   |   | 40XC                   |           | 0.90                | 0.34-0.26 (0.30 *4) | 0.11-0.23             | ✓               |               | ⊙           | ●         | ○     |                | △          | ⊙             | ⊙ 340 | ●         |  |
|   |   | 40X Oil                | Oil       | 1.30                | 0.22                | 0.17                  |                 | ✓ w/stopper   | ⊙           |           | ○     | EXT PH3-40X    | △          | ⊙             | ⊙ 340 | ●         |  |
|   |   | 100XS Oil              | Oil       | 0.50-1.30           | 0.20                | 0.17                  |                 | ✓             | ⊙           | ⊙●        |       |                | △          | ⊙             | ⊙ 340 | ●         |  |
| Universal Plan Fluor                            | No cover glass polarizing (TU Plan Fluor EPI) | P 5X                   |           | 0.15                | 23.50               | 0                     |                 |               | ⊙           |           |       |                | ⊙          | ⊙             | ⊙     |           |  |
|   |   | P 10X                  |           | 0.30                | 17.50               | 0                     |                 |               | ⊙           | ○         |       |                | ⊙          | ⊙             | ⊙     |           |  |
|   |   | P 20X                  |           | 0.45                | 4.50                | 0                     |                 |               | ⊙           | ○         |       |                | ⊙          | ⊙             | ⊙     |           |  |
|   |   | P 50X                  |           | 0.80                | 1.00                | 0                     |                 | ✓             | ⊙           |           |       |                | ⊙          | ⊙             | ⊙     |           |  |
|   |   | P 100X                 |           | 0.90                | 1.00                | 0                     |                 | ✓             | ⊙           |           |       |                | ⊙          | ⊙             | ⊙     |           |  |

Note 1. Model name  
The below letters, when included in the model names, indicate the respective features.  
F: for use with 1.2mm-thick cover glass  
C: with correction ring  
AC: with correction ring compatible with Auto Correction Collar  
NCG: for use without cover glass  
S: with iris  
WI: water immersion type  
W: water dipping type  
Mi: multi immersion (oil, water, glycerin) type  
IMSI: compatible with IMSI only  
DS: compatible with dispersion staining microscopy

Note 2. Cover glass thickness  
— : can be used without cover glass  
0: use without cover glass

Note 3. Darkfield microscopy  
Possible with the following  
△ : universal condenser (dry) and darkfield ring  
○ : above and darkfield condenser (dry)  
● : darkfield condenser (oil)

Note 4. Phase rings are classified by objective NA  
PHL, PH1, PH2, PH3: condenser cassette modules.  
EXT PH3, EXT PH4: external phase contrast modules for Ti2-E.

Note 5. Fluorescence microscopy (UV)  
△ : possible with visible light that has a longer wavelength than the excitation light used for DAPI  
○ : suitable  
⊙ : recommended for best results  
340: high transmittance with an ultraviolet wavelength range of up to 340nm

| Type                                  | Use                                      | Model                      | Immersion            | NA   | W.D. (mm)                            | Cover glass thickness | Correction ring | Spring loaded | Brightfield | Darkfield | DIC          | Phase contrast               | Polarizing | Fluorescence  |    |     | Ti2-E PFS |
|---------------------------------------|--|----------------------------|----------------------|--|--------------------------------------|-----------------------|-----------------|---------------|-------------|-----------|--------------|------------------------------|------------|---------------|----|-----|-----------|
|                                       |  |                            |                      |  |                                      |                       |                 |               |             |           |              |                              |            | Visible light | UV | NIR |           |
| Plan Fluor                            | Brightfield (CFI Plan Fluor)             | 4X                         |                      | 0.13   | 17.20                                | —                     |                 |               | ○           |           |              |                              | △          | ○             | ○  |     |           |
|                                       |  | 10X                        |                      | 0.30   | 16.00                                | 0.17                  |                 |               | ○           | △         | ○            |                              | ○          | ○             | ○  |     | ●         |
|                                       |  | 20X                        |                      | 0.50   | 2.10                                 | 0.17                  |                 |               | ○           | ○●        | ○            |                              | ○          | ○             | ○  |     |           |
|                                       |  | 20XC MI                    | Water, Glycerin, Oil | 0.75   | 0.49-0.33<br>0.51-0.34<br>0.51-0.35  | 0-0.17                | ✓               | ✓             | ○           | ○●        | ○            |                              | ○          | ○             | ○  |     |           |
|                                       |  | 40X                        |                      | 0.75   | 0.66                                 | 0.17                  |                 | ✓             | ○           | ○●        | ○            |                              | ○          | ○             | ○  |     | ●         |
|                                       |  | 40X Oil                    | Oil                  | 1.30   | 0.24                                 | 0.17                  |                 | ✓ w/stopper   | ○           |           | ○            | EXT PH3-40X                  | ○          | ○             | ○  |     | ●         |
|                                       |  | 60XC                       |                      | 0.85   | 0.40-0.31 (0.35 *4)                  | 0.11-0.23             | ✓               | ✓             | ○           | ●         | ○            |                              | ○          | ○             | ○  |     |           |
|                                       |  | 60XS Oil                   | Oil                  | 0.50-1.25  | 0.22                                 | 0.17                  |                 | ✓             | ○           | ○●        | ○            | EXT PH3-60X                  | ○          | ○             | ○  |     |           |
|                                       |  | 100X Oil                   | Oil                  | 1.30   | 0.16                                 | 0.17                  |                 | ✓ w/stopper   | ○           |           | ○            |                              | ○          | ○             | ○  |     | ●         |
|                                       |  | 100XS Oil                  | Oil                  | 0.50-1.30  | 0.16                                 | 0.17                  |                 | ✓             | ○           | ○●        | ○            |                              | ○          | ○             | ○  |     |           |
|                                       | Phase contrast (CFI Plan Fluor)          | DL 4XF                     |                      | 0.13   | 16.50                                | 1.20                  |                 |               | ○           |           |              | ○ PHL                        |            | ○             | ○  |     |           |
|                                       |  | DLL 10X                    |                      | 0.30   | 16.00                                | 0.17                  |                 |               | ○           | △         |              | ○ PH1                        |            | ○             | ○  |     | ●         |
|                                       |  | DL 10XF                    |                      | 0.30   | 15.20                                | 1.20                  |                 |               | ○           | △         |              | ○ PH1                        |            | ○             | ○  |     | ●         |
|                                       |  | DLL 20X                    |                      | 0.50   | 2.10                                 | 0.17                  |                 |               | ○           | ○●        |              | ○ PH1                        |            | ○             | ○  |     | ●         |
|                                       |  | DLL 40X                    |                      | 0.75   | 0.66                                 | 0.17                  |                 | ✓             | ○           | ○●        |              | ○ PH2                        |            | ○             | ○  |     | ●         |
|                                       |  | DLL 100X Oil               | Oil                  | 1.30   | 0.16                                 | 0.17                  |                 | ✓ w/stopper   | ○           |           |              | ○ PH3                        |            | ○             | ○  |     | ●         |
|                                       |  | DM 40X                     |                      | 0.75   | 0.66                                 | 0.17                  |                 | ✓             | ○           | ○●        |              | ○ PH2                        |            | ○             | ○  |     |           |
|                                       |  | BM 40X                     |                      | 0.75   | 0.66                                 | 0.17                  |                 | ✓             | ○           | ○●        |              | ○ PH2                        |            | ○             | ○  |     |           |
|                                       | Apodized phase contrast (CFI Plan Fluor) | ADH 100X Oil               | Oil                  | 1.30   | 0.16                                 | 0.17                  |                 | ✓ w/stopper   | ○           |           |              | ○ PH3                        |            | ○             | ○  |     | ●         |
|                                       | Plan Apochromat                          | Brightfield (CFI Plan Apo) | Lambda 2X            |  | 0.10                                 | 8.50                  | —               |               |             | ○         |              |                              |            | ○             | ○  | △   | ○         |
| Lambda 4X                             |  |                            |                      | 0.20   | 20.00                                | —                     |                 |               | ○           |           |              |                              | ○          | ○             | △  | ○   | ●         |
| Lambda 10X                            |  |                            |                      | 0.45   | 4.00                                 | 0.17                  |                 | ✓             | ○           | △         | ○            |                              | ○          | ○             | △  | ○   | ●         |
| Lambda 20X                            |  |                            |                      | 0.75   | 1.00                                 | 0.17                  |                 | ✓             | ○           | ○●        | ○            |                              | ○          | ○             | △  | ○   | ●         |
| VC 20X                                |  |                            |                      | 0.75   | 1.00                                 | 0.17                  |                 | ✓             | ○           | ○●        | ○            |                              | ○          | ○             | ○  |     | ●         |
| Lambda 40XC                           |  |                            |                      | 0.95   | 0.25-0.16 (0.21 *4)                  | 0.11-0.23             | ✓               | ✓             | ○           | ●         | ○            |                              | ○          | ○             | △  | ○   | ●         |
| Lambda 60XC                           |  |                            |                      | 0.95   | 0.21-0.11 (0.15 *4)                  | 0.11-0.23             | ✓               | ✓             | ○           | ●         | ○            |                              | ○          | ○             | △  | ○   | ●         |
| Lambda 60X Oil                        |  |                            | Oil                  | 1.40   | 0.13                                 | 0.17                  |                 | ✓             | ○           |           | ○            | EXT PH3-60X                  | ○          | ○             | △  | ○   | ●         |
| VC 60XC WI                            |  |                            | Water                | 1.20   | 0.31-0.28 (0.29 *4)                  | 0.15-0.18             | ✓               | ✓             | ○           |           | ○            | EXT PH3-60X                  | ○          | ○             | ○  |     | ●         |
| IR 60XC WI                            |  |                            | Water                | 1.27   | 0.18-0.16 (0.17 *4)                  | 0.15-0.19             | ✓               | ✓             | ○           |           | ○            | EXT PH3-60X                  | ○          | ○             | △  | ○   | ●         |
| Lambda 100X Oil                       |  |                            | Oil                  | 1.45   | 0.13                                 | 0.17                  |                 | ✓             | ○           |           | ○            | EXT PH3-100X<br>EXT PH4-100X | ○          | ○             | △  | ○   | ●         |
| VC 100X Oil                           |  |                            | Oil                  | 1.40   | 0.13                                 | 0.17                  |                 | ✓             | ○           |           | ○            | EXT PH3-100X                 | ○          | ○             | △  |     | ●         |
| NCG 100X Oil                          |  | Oil                        | 1.40                 | 0.16   | 0                                    |                       | ✓               | ○             |             | ○         |              | ○                            | ○          | △             |    | ●   |           |
| Phase contrast (CFI Plan Apo)         |  | DM Lambda 20X              |                      | 0.75   | 1.00                                 | 0.17                  |                 | ✓             | ○           | ○●        |              | ○ PH2                        |            | ○             | △  | ○   | ●         |
|                                       |  | DM Lambda 40XC             |                      | 0.95   | 0.25-0.16 (0.21 *4)                  | 0.11-0.23             | ✓               | ✓             | ○           | ●         |              | ○ PH2                        |            | ○             | △  | ○   | ●         |
|                                       |  | DM Lambda 60XC             |                      | 0.95   | 0.21-0.11 (0.15 *4)                  | 0.11-0.23             | ✓               | ✓             | ○           | ●         |              | ○ PH2                        |            | ○             | △  | ○   | ●         |
|                                       |  | DM Lambda 60X Oil          | Oil                  | 1.40   | 0.13                                 | 0.17                  |                 | ✓             | ○           | ●         |              | ○ PH3                        |            | ○             | △  | ○   | ●         |
| Super-resolution (CFI SR Plan Apo)    |  | DM Lambda 100X Oil         | Oil                  | 1.45   | 0.13                                 | 0.17                  |                 | ✓             | ○           | ○         |              | ○ PH3                        |            | ○             | △  | ○   | ●         |
|                                       |  | IR 60XC WI                 | Water                | 1.27   | 0.18-0.16 (0.17 *4)                  | 0.15-0.19             | ✓               |               | ○           |           | ○            | EXT PH3-60X                  | ○          | ○             | ○  | ○   | ●         |
| Super-resolution (CFI HP Plan Apo)    |  | IR 60XAC WI                | Water                | 1.27   | 0.18-0.16 (0.17 *4)                  | 0.15-0.19             | ✓               |               | ○           |           | ○            | EXT PH3-60X                  | ○          | ○             | ○  | ○   | ●         |
|                                       | VC 100X Oil                              | Oil                        | 1.40                 | 0.13   | 0.17                                 |                       | ✓               | ○             |             | ○         | EXT PH3-100X | ○                            | ○          | △             |    | ●   |           |
| Super-resolution (CFI SR HP Plan Apo) | Lambda S 100XC Sil                       | Silicone Oil               | 1.35                 | 0.31-0.29<br>(0.30 *4) (23°C)<br>0.30-0.28<br>(0.29 *4) (37°C) | 0.15-0.19<br>(23-37°C)               | ✓                     |                 | ○             |             | ○         |              | ○                            | ○          | ○             |    | ●   |           |
|                                       | LWD Lambda S 20XC WI                     | Water                      | 0.95                 | 0.99-0.90 (0.95 *4)  | 0.11-0.23                            | ✓                     |                 | ○             | ●           | ○         |              | ○                            | ○          | ○             | ○  | ●   |           |
| Confocal (CFI Apo)                    | Lambda S 40XC WI                         | Water                      | 1.25                 | 0.20-0.16 (0.18 *4)  | 0.15-0.19                            | ✓                     | ✓               | ○             |             | ○         | EXT PH3-40X  | ○                            | ○          | ○             |    | ●   |           |
|                                       | LWD Lambda S 40XC WI                     | Water                      | 1.15                 | 0.61-0.59 (0.60 *4)  | 0.15-0.19                            | ✓                     |                 | ○             | ●           | ○         | EXT PH3-40X  | ○                            | ○          | ○             |    | ●   |           |
|                                       | Lambda S 60X Oil                         | Oil                        | 1.40                 | 0.14   | 0.17                                 |                       | ✓               | ○             |             | ○         | EXT PH3-60X  | ○                            | ○          | ○             |    | ●   |           |
|                                       | TIRF 60XC Oil                            | Oil                        | 1.49                 | 0.16-0.10<br>(0.12 *4) (23°C)<br>0.13-0.07<br>(0.11 *4) (37°C) | 0.13-0.19 (23°C)<br>0.15-0.21 (37°C) | ✓                     |                 | ○             |             | ○         | EXT PH4-60X  | ○                            | ○          | △             |    | ●   |           |
| Evanescent (CFI Apo)                  | TIRF 100XC Oil                           | Oil                        | 1.49                 | 0.16-0.10<br>(0.12 *4) (23°C)<br>0.15-0.09<br>(0.12 *4) (37°C) | 0.13-0.19 (23°C)<br>0.14-0.20 (37°C) | ✓                     |                 | ○             |             | ○         | EXT PH4-100X | ○                            | ○          | △             |    | ●   |           |
|                                       | TIRF 100XC Oil                           | Oil                        | 1.49                 | 0.16-0.10<br>(0.12 *4) (23°C)<br>0.15-0.09<br>(0.12 *4) (37°C) | 0.13-0.19 (23°C)<br>0.14-0.20 (37°C) | ✓                     |                 | ○             |             | ○         | EXT PH4-100X | ○                            | ○          | △             |    | ●   |           |
|                                       | TIRF 100XC Oil                           | Oil                        | 1.49                 | 0.16-0.10<br>(0.12 *4) (23°C)<br>0.15-0.09<br>(0.12 *4) (37°C) | 0.13-0.19 (23°C)<br>0.14-0.20 (37°C) | ✓                     |                 | ○             |             | ○         | EXT PH4-100X | ○                            | ○          | △             |    | ●   |           |
|                                       | TIRF 100XAC Oil                          | Oil                        | 1.49                 | 0.16-0.10<br>(0.12 *4) (23°C)<br>0.15-0.09<br>(0.12 *4) (37°C) | 0.13-0.19 (23°C)<br>0.14-0.20 (37°C) | ✓                     |                 | ○             |             | ○         | EXT PH4-100X | ○                            | ◎          | △             |    | ●   |           |

| Use: Clearing                       | Model        | Immersion            | NA   | W.D. (mm)                       | Cover glass thickness | Correction ring | Spring loaded | Brightfield | Darkfield | DIC | Phase contrast | Polarizing | Fluorescence  |    |     | Ti2-E PFS |
|-------------------------------------|--------------|----------------------|------|---------------------------------|-----------------------|-----------------|---------------|-------------|-----------|-----|----------------|------------|---------------|----|-----|-----------|
|                                     |              |                      |      |                                 |                       |                 |               |             |           |     |                |            | Visible light | UV | NIR |           |
| Multiphoton confocal (CFI Plan Apo) | 10XC Glyc    | Water, Glycerin, Oil | 0.50 | Upright: 5.50<br>Inverted: 2.00 | 0-0.17                | ✓*5             |               | ○           | ○●        |     |                |            | ○             |    |     | ◎         |
| Multiphoton (CFI90)                 | 20XC Glyc *7 | Glycerin             | 1.00 | 8.20                            | 0                     | ✓*6             |               | △*8         |           |     |                |            |               |    |     | ◎         |

| Use: Asbestos                        | Model    | Immersion | NA   | W.D. (mm) | Cover glass thickness | Correction ring | Spring loaded | Brightfield | Darkfield | DIC | Phase contrast | Polarizing | Fluorescence  |    |     | Ti2-E PFS |
|--------------------------------------|----------|-----------|------|-----------|-----------------------|-----------------|---------------|-------------|-----------|-----|----------------|------------|---------------|----|-----|-----------|
|                                      |          |           |      |           |                       |                 |               |             |           |     |                |            | Visible light | UV | NIR |           |
| Dispersion staining (CFI)            | R-DS 10X |           | 0.25 | 7.00      | 0.17                  |                 |               |             |           |     | ◎PH1           |            |               |    |     |           |
| Dispersion staining (CFI Plan)       | C-DS 10X |           | 0.25 | 13.00     | 0.17                  |                 |               |             |           |     |                |            |               |    |     |           |
| Dispersion staining (CFI Plan Fluor) | R-DS 40X |           | 0.75 | 0.66      | 0.17                  |                 | ✓             |             |           |     | ◎PH2           |            |               |    |     |           |

| Use: Water dipping               | Model          | Immersion | NA   | W.D. (mm) | Cover glass thickness | Correction ring | Spring loaded | Brightfield | Darkfield | DIC | Phase contrast | Polarizing | Fluorescence  |    |     | Near-infrared DIC |
|----------------------------------|----------------|-----------|------|-----------|-----------------------|-----------------|---------------|-------------|-----------|-----|----------------|------------|---------------|----|-----|-------------------|
|                                  |                |           |      |           |                       |                 |               |             |           |     |                |            | Visible light | UV | NIR |                   |
| Multiphoton confocal (CFI75 Apo) | 25XC W *7      | Water     | 1.10 | 2.00      | 0                     | ✓               |               | ○           | ●         | ○   |                | ○          | ○             | ○  | ○   |                   |
|                                  | 25XC W 1300 *7 | Water     | 1.10 | 2.00      | 0                     | ✓               |               | ○           | ●         | ○   |                | ○          | ○             | ○  | ○   |                   |
| DIC (CFI Plan Fluor)             | 10X W          | Water     | 0.30 | 3.50      | 0                     |                 |               | ○           | △         | ○   |                | ○          | ○             | ○  | ○   |                   |
| IR-DIC (CFI Apo)                 | NIR 40X W      | Water     | 0.80 | 3.50      | 0                     |                 |               | ○           | ●         | ○   |                | ○          | ○             | △  | ○   |                   |
|                                  | NIR 60X W      | Water     | 1.00 | 2.80      | 0                     |                 |               | ○           | ●         | ○   |                | ○          | ○             |    | ○   |                   |
| DIC (CFI Plan)                   | 100XC W        | Water     | 1.10 | 2.50      | 0                     | ✓               |               | ○           | ●         | ○   |                | ○          | ○             | ○  | ○   |                   |
| DIC (CFI75)                      | LWD 16X W *7   | Water     | 0.80 | 3.00      | 0                     |                 |               | ○           | ●         | ○   |                | ○          | ○             | ○  | ○   |                   |

Note 6. Brightfield/DIC/Fluorescence (visible light) microscopy  
 △ : possible but not recommended  
 ○ : suitable  
 ◎ : recommended for best results

Note 7. Polarizing  
 △ : possible but not recommended  
 ○ : suitable  
 ◎ : retardation measurement is possible with a polarizing microscope

Note 8. Ti2-E PFS

● : compatible with PFS

\*1 With cover glass thickness of 0.9 mm  
 \*2 With cover glass thickness of 1.2 mm  
 \*3 With cover glass thickness of 0.7 mm  
 \*4 With cover glass thickness of 0.17 mm  
 \*5 With correction for refractive index of immersion medium (1.33-1.51)  
 \*6 With correction for refractive index of immersion medium (1.44-1.50)  
 \*7 Dedicated for FN1 and Ni-E focusing nosepiece type  
 \*8 Correction wavelength range: from 587nm, can be used as a finder