



SPECIFICATIONS

CREOPTIX WAVEdelta

GENERAL

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| Noise (RMS) | <0.01 pg/mm ² @ 1 Hz |
| Drift | <0.3 pg/mm ² /min |
| Readout Frequency | 1 Hz, 10 Hz or 40 Hz |
| Association Const. Range | $k_a = 10^3 - 5 \times 10^7 \text{ M}^{-1} \text{ s}^{-1}$ (small molecules) $k_a = 10^3 - 3 \times 10^9 \text{ M}^{-1} \text{ s}^{-1}$ (large molecules) |
| Dissociation Const. Range | $k_d = 10^{-5} - 10 \text{ s}^{-1}$ |
| Analysis temperature range | 4°C - 45°C (max 20°C below ambient) |
| Molecular Weight Limit | No lower limit |

FLUIDICS

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|-------------------------|---|
| Flow Channels / Path | 4, parallel |
| Channel Referencing | Any combination of the 4 channels |
| Flow Cells | Sealed, disposable, integrated into disposable WAVEchip |
| Flow Rate | 1 - 400 µl/min |
| Crude Sample Robustness | Yes |

SAMPLE HANDLING

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| Sample Capacity | 2x microtiter plates (96 or 394 well, standard or deep well) or vial racks (48 positions of 1.5ml) |
| Buffer | Automatic switching between 4 buffers |
| Degasser | Built-in |
| Injection Volume | < 450 µl, 100 µl typical |
| Sample Volume Required | Injection volume plus 15-50 µl (application dependent) |
| Sample Storage Temperature | Ambient or 4°C - 20°C regulated |
| Sample Recovery | Yes |
| Automation | 120h of unattended operation |

DATA TREATMENT

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| Information Provided | Kinetic and affinity data (k_a , k_d , K_D) |
| Graphs | Real-time curves, multiple curve overlays, fit, report point plots |
| Data Extraction | Curves, k_a , k_d , K_D tables, graphs, reports |
| Data Analysis | Fully automated data evaluation |
| Kinetic Models | Predefined models including 1:1 interaction, mass transport, heterogenous ligand, conformational change and bivalent |

