### XT-V Series Specifications

**Technologies**
- Fluorescent flow (cytometry method): WBC, RBC, MCHC, MCH, HGB, HCT, Plt, MCV, MCH, IRF, Reticulocytes
- DC sheath flow method: WBC, HCT, Plt, MCV, MCH, IRF

**Animal Species**
- Monkey, rat, mouse, dog, cat, rabbit, guinea pig, cow, pig, horse, and 20 "other species" categories
- Unlabeled profile creation with manual gating function

**Parameters**
- WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, Neut, Lymph, Mon, Eo, Baso
- Neut%, Lymph%, Mon%, Eo%, Baso%
- Neut#, Lymph#, Mon#, Eo#, Baso#
- RDW-SD, MPV, RET, %RET, #RET

**Throughput**
- 80 samples/hour

**Aspiration Volume**
- Autosampler or manual closed mode: 150 μL
- Manual open mode: 85 μL
- Capillary mode: 40 μL

**Data Storage**
- 5,000 samples (incl. graphics)
- 1,000 sample information
- 1,000 selective test orders

**Quality Control**
- Comprehensive QC files including "Current" and "New" lot feature

**Interfaces**
- Host, graphic printer

**Dimensions/Weights**
- Main unit: 20.5"x24.8"x19.7"/114.6 lbs
- Sampler: 20.5"x8.7"x4.3"/15.4 lbs
- Pneumatic unit: 11.2"x14"x15.8"/35.3 lbs

**Standard**
- Rack Sampler for 50 sample tubes
- Hand-held barcode scanner

**Linearity**
- WBC: 0-310,000/μL
- RBC: 0-8,000,000/μL
- HGB: 0-25 gm/dL
- HCT: 0-60%

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**For Animal Use Only**
- XT-V Not for Human Sample Analyses

*XT-2000iV only*
Reliable detection of abnormal samples is a vital issue in the toxicology and veterinary laboratory.

The XT-V Series from Sysmex changes that.

**Accurate RBC, PLT, Retic*, WBC and WBC differential results are essential for meaningful clinical studies.** Today’s progressive toxicology lab managers are finding that the traditional limits of hematology analyzers constrain their effectiveness and productivity. The XT-V Series from Sysmex changes that.

**Gain unprecedented support to imagine unprecedented performance**

The XT-V Series, including the XT-2000i-V and XT-1800i-V brings Sysmex’s advanced, patented fluorescent flow cytometry technology and state-of-the-art cell counting methodologies to your animal laboratory. This series provides more versatility for better testing, more comprehensive data and more targeted analysis.

By supporting an unlimited number of species and strains, the XT-V Series provides the flexibility to structure your tests for your needs.

Plus, this system supports unique gating for individual cell populations by study protocol, and the ability to conduct manual analysis by user-set parameters.

Sysmex Automated Hematology Analyzers are renowned throughout the industry for performance, reliability and responsiveness.

**Imagine The Possibilities**

**Imagine Improved Diagnostic Results with XT-V Series Technology**

For enhanced diagnostics, WBC cell populations are measured using fluorescent flow cytometry with side scatter and side fluorescence.

**Laser Technology**

For better reliability, longer life and more efficiency, the XT-V Series utilizes an avalanche photodiode with a small laser bench and integrated electronic boards.

**Non-cyanide Hemoglobin**

For safety and to assure accuracy in hemoglobin measurement, the XT-V Series utilizes Sysmex’s cyanide-free SLS method for hemoglobin measurement. SLS provides accurate HGB results compared to reference methodology.

**Comprehensive Erythrocyte and Platelet Diagnostics**

For better accuracy in cell count and sizing, the XT-V Series utilizes hydrodynamic focused red cell and platelet counting. In addition to the standard impedance count, the XT-V Series offers fluorescent-platelet and retic analysis, which can minimize interferences such as microcytes, BPC fragments and giant platelets as well as detect cell immaturity or activation.

**Imagine Improving Study Integrity with Unique Gating Flexibility**

**Imagine Enhanced Lab Productivity with Streamlined Workflow**

- User-defined random access testing — full 80 samples per hour
- Consistent throughput — 80 samples per hour with reticulocyte measurement
- Single-quality control product
- No customer calibrations required
- Supports small sample requirements
- Manual open mode — 85 μL, automatic — 150 μL

**Imagine Delivering Proven System Reliability with Sysmex**

- Ranked best in hematology system performance, system reliability and service response by MD Buyline (MD Market Outlook, January 2010)
- Ranked best in instrument performance and reliability for the tenth consecutive year in 2009 annual IMV ServiceTrack™ customer satisfaction survey
- Software meets US requirement for toxicology study designs and is compliant with FDA 21 CFR Part 11
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WBC Differential Scattergram
For enhanced diagnostics, WBC cell populations are measured using fluorescent flow cytometry with side scatter and side fluorescence.

Imagine Improving Study Integrity with Unique Gating Flexibility

• Open architecture supports monitoring of unlimited species and strains
• Unique gating feature permits adjustment as needed by study parameters for individual cell populations within your protocols
• Manual gating of cell populations by parameter of RBC, PLT, Reticulocyte* and WBC and WBC differential provides versatility in monitoring results over the course of the study protocol by cell population

Imagine Enhanced Lab Productivity with Streamlined Workflow

• User-defined random access testing—full 80 samples per hour
• Consistent throughput—80 samples per hour with reticulocyte measurement
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The XT-V Series employs intuitive, easy-to-use software and standardized display formats to simplify sample information management.

The XT-2000i-V and XT-1800i-V provide discrete WBC differential sub population identification utilizing fluorescent flow cytometry.

With the XT-V Series, WBC differential sub populations are easily gated manually, enabling the research team to visualize the data in real-time, providing immediate change to study protocol or change.
Imagine The Possibilities
Reliable detection of abnormal samples is a vital issue in the toxicology and veterinary laboratory.

Accurate RBC, PLT, RET, WBC and WBC differential results are essential for meaningful clinical studies. Today’s progressive toxicology lab managers are finding that the traditional limits of hematology analyzers constrain their efficiency and productivity. The XT-V Series from Sysmex changes that.

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By supporting an unlimited number of species and strains, the XT-V Series provides the flexibility to structure your tests for your needs. Plus, this system supports unique gating for individual cell populations by study protocol, and the ability to conduct manual analysis by user set parameters. Sysmex Automated Hematology Analyzers are renowned throughout the industry for performance, reliability and responsiveness.

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Non-cyanide Hemoglobin
For safety and to assure accuracy in hemoglobin measurement, the XT-V Series utilizes Sysmex’s cyanide-free SLS method for hemoglobin measurement. SLS provides accurate HGB results compared to reference methodology.

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• Manual gating of cell populations by parameter of RBC, PLT, RET, WBC and WBC differential permits versatility in monitoring results over the course of the study protocol by cell population

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• User-defined random access testing — full 80 samples per hour
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The XT-V Series employs intuitive, easy-to-use software and standardized display formats to simplify sample information management.

• Discrete WBC differential sub population identification utilizing fluorescent flow cytometry.

With the XT-V Series, WBC differential cell populations are easily gated manually, enabling the researcher to discriminate cell populations throughout a study as sample populations change due to protocol or disease.

Fluorescent Optical Platelet

* Reticulocytes and IRF only available on XT-2000iV.

Inside Brochure
**XT-V Series Specifications**

### Technologies
- Fluorescent flow (cytometry method): WBC, RBC, HGB, HCT, MCV, MCH, MCHC, Neut, Lymph, Mono, Eo, Baso, IRF, RDW-SD, RDW-CV, MPV, RET%
- DC sheath flow method: WBC, HCT, MCHC
- Cyanide-free SLS method: HGB

### Animal Species
- Monkey, rat, mouse, dog, cat, rabbit, guinea pig, cow, pig, horse, and 20 other species
- Unlimited profile creation with manual gating feature

### Parameters
- Neut %, Lymph %, Mono %, Eo %, Baso %, Neut #, Lymph #, Mono#
- RDW-SD, RDW-CV, MPV, RET %, RET #

### Throughput
- 80 samples/hour

### Aspiration Volume
- Autosampler or manual closed mode: 150 μL
- Manual open mode: 85 μL
- Capillary mode: 40 μL

### Data Storage
- 3,000 samples (incl. graphics)
- 5,000 sample information
- 1,000 selective test orders

### Quality Control
- Comprehensive QC files including “Current” and “New” lot feature

### Interfaces
- Host, graphic printer

### Dimensions/Weights
- Main unit: 20.5 x 24.8 x 19.7 in/114.6 lbs
- Sampler: 20.5 x 8.7 x 4.3 in/15.4 lbs
- Pneumatic unit: 11.2 x 14 x 15.8 in/35.3 lbs
- Standard Rack Sampler for 50 sample tubes
- Hand-held barcode scanner
- FDA 21 CFR Part 11 Compliant Software
- Linearity
  - WBC: 0-310 x 10^3/μL
  - RBC: 0-8 x 10^6/μL
  - HGB: 0-25 g/dL
  - HCT: 0-60%

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For Animal Use Only

XT-V Not for Human Sample Analysis
# XT-V Series Specifications

## Technologies
- Fluorescent flow (Cybernetic method)
  - WBC, RBC, HCT, MCHC, MCV, MCH
  - DC, sheath flow method: WBC, HCT, PLT, Cyanine dye 530 method: MCH

## Animal Species
- Monkey, rat, mouse, dog, cat, rabbit, guinea pig, cow, pig, horse, and 20 "other species" categories
- Unlisted profile creation with manual gating feature

## Parameters
- WBC, RBC, HGB, HCT, MCV, MCH, MCHC, MCHC, MCHV, HCT, Lymph, Mon, Eosin, Baso, IRF, RBC, MCHC, MCHV
- 80x, 90x, 90x, 90x, 90x, 90x

## Throughput
- 80 samples/hour

## Aspiration Volume
- Manual open mode: 150 μL
- Manual closed mode: 85 μL
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