# CellWriter™ 960

## FEATURES AND BENEFITS

- Automated Cell Dropping
- Automated Probe/DAPI Dispensing
- Integrated Hybridization
- Improve Metaphase Spread Quality
- Perform Up To 8 Assays On One Slide
- Reduce Probe/Assay Cost
- Remove The Need For Rubber Cement
- 96 Slide Processing Capability

## RESULTS

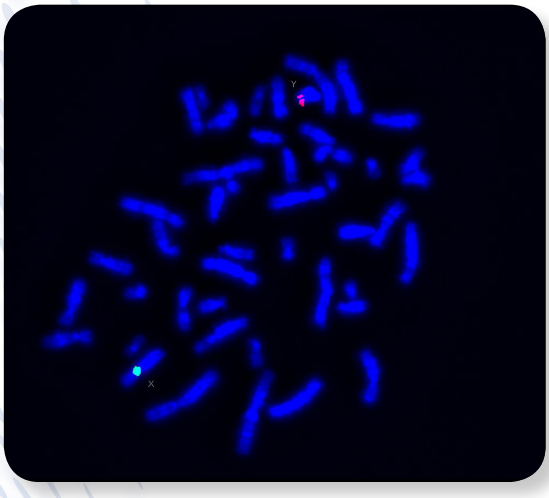

Image 1: Metaphase cell labeled with X Centromere (green) and Y Centromere (red) probes. Cells couterstained with DAPI plus Vectashield. Image taken with the Zeiss Axio Imager. M1 using the 100x Oil objective.

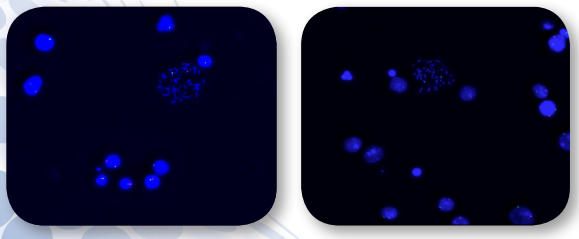

Image 2 & 3 : Male metaphase and interphase cells labeled with X Centromere (green) and Y Centromere (red) probes. Cells couterstained with DAPI plus Vectashield. Image taken with the Zeiss Axio Imager. M1 using the 20x objective.

The dropping process has remained a highly manual technique for years, leaving an automation void between harvesters and microscopes. CellWriter now completes the continuum, by automating the dropping process to deliver quality spread interphase and metaphase nuclei for analysis.

The CellWriter 960 is a robotic workstation that produces slides for both Karyotyping and FISH. By integrating BioDot's nanoliter dispenser (BioJet™) with exquisite temperature and humidity control, we have developed a highly efficient system that produces quality slides.

BioDot further simplifies the workflow by introducing a new, patented slide technology. CellWriter Slides™ enable multiplexed FISH assays and eliminate the need for rubber cement when preparing for hybridization (a step that is both messy and time consuming).

The CellWriter 960 processes 96 slides per batch.

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## PERFORMANCE

**Dispense Volume Dynamic Range**
- 100nl to 10ul

**Dispense Volume Precision**
- ± 5%

**Humidity Control**
- Ambient to 70% RH ± 5%

**Slide Temperature**
- 4°C to 100°C +/- 1°C

**Fume Filtering**
- Specialty-blended Filter Media
[i.e. Acid Gas, Mercury, Aldehyde, Ammonia]

## SPECIFICATIONS

**Dimensions (L x W x H)**
- 1730 mm x 1520 mm x 1520 mm
(68 in x 60 in x 60 in)

**Power Requirement**
- 110/220 VAC; 50/60 Hz

**Weight**
- 363 kg (800 lb)

**Vacuum Requirement**
- 2.1 CFM

**Air Requirement**
- 45-60 psi

## CONFIGURATION

**Dispense Channels per System (Sample/Probe)**
- 1 to 4

**Dispense Channels per System (FIX)**
- 1

**Slides per Batch**
- Up to 96

**Samples per Batch**
- Up to 96

**Barcode Scanning**
- Linear (All Standard Formats), 2D (Data Matrix, QR), Stacked (PDF417, GS1 Databar)

## OPTIONS

- **CellWriter 960 STS with Automated Sample Normalization**
- **LIMS Integration**
- **FISHArray Slides**

## FISHArray Technology

**Don't simply automate the workflow. Improve it.**

BioDot introduces the FISHArray™ technology, enabling labs to perform as many as 8 different FISH assays on a single slide. One sample can be tested across multiple probes. Alternatively, 8 separate samples can be interrogated by the same probe. Simultaneously.

This new approach leads to fewer washes, fewer hybridizations, and fewer slides to analyze.

Patent No. US 7754439 & US 8323882

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