

# COMBIMATRIX

## Manufacture Commercial-Grade Custom-Content Microarrays

### CustomArray™ Synthesizer

Do you need the ability to manufacture high quality commercial-grade microarrays? The CustomArray Synthesizer enables researchers to make custom microarrays to their exact specifications with complete control over the content. Researchers can fulfill their existing microarray requirements in addition to taking microarrays to new frontiers by exploring unique and novel applications.

The platform consists of the CustomArray™ DNA Synthesizer and CustomArray™ microarrays. CustomArray™ technology consists of a modified semiconductor adapted for biological applications. The integrated circuits built into CustomArray™ contain microelectrodes that are individually addressable using embedded logic circuitry on the microarray. Placed in a specially designed fluidic chamber, the software digitally directs the molecular assembly of oligonucleotides. During this process several thousand different oligonucleotide probes can be synthesized simultaneously.

#### CustomArray™ Synthesizer provides:

**Production Efficiency:** Manufacture 32 custom arrays in less than 24 hours.

**Flexibility:** Run one to 32 arrays in one synthesis.

**Versatility:** Use the same design or different designs in a single run.

**Control:** Manage designs and production schedule.

**Cost Efficiency:** Each array can be made for under \$70.\*

Arrays are re-usable up to three times.

Oligonucleotides no longer need to be ordered or held in inventory.

#### CustomArray™ Synthesizer Specifications:

**Min/Max Oligo Length:** Up to 50 'mer

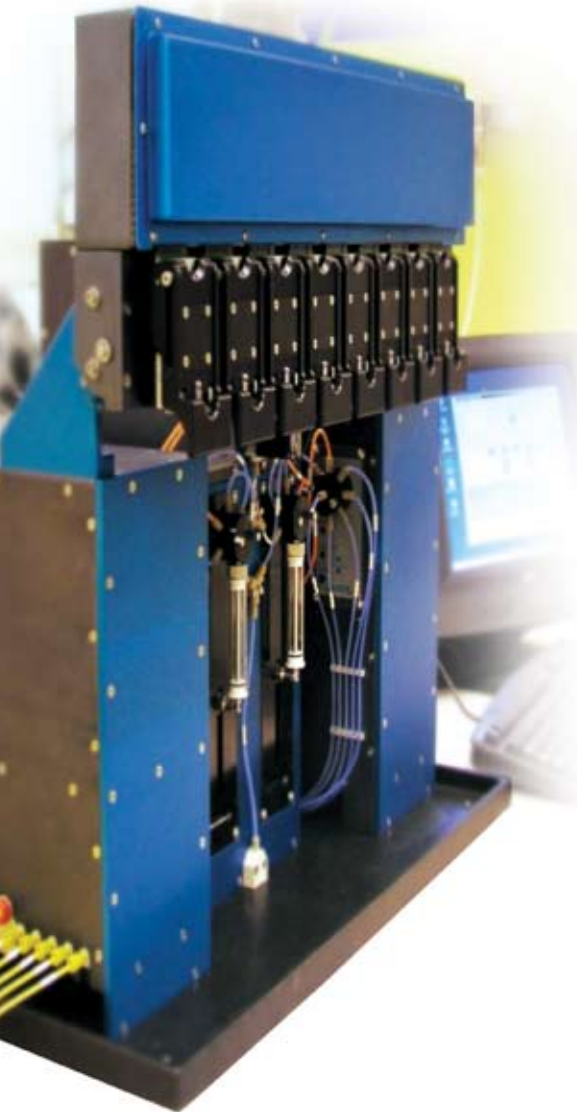
**Min/Max Feature Capacity for Array:** 2,240, 12,000, 42,000\*\*, 90,000\*\*

**Microarray Format:** 1" x 3", CustomArray™ slide

**Production Capacity:** One to eight slides synthesized per production run

\* Cost Estimate pertains to CustomArray™ 4x2K

\*\* Pending availability in 2006



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