Appendix A Block Diagrams, Boards and Pinouts

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MEIA Optics Assembly

Pump Assembly

Heater Assembly

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APPENDIX OVERVIEW (pg 1 of 3)

This appendix includes:

- block diagrams and signal pathways
- illustrations of the board layouts
- pinouts and connectors

The five boards described in this appendix are (in alphabetical order):

- Analog Board
- Digital I/O Board
- Liquid Level Sense Board
- Motor Driver Board
- Power Supply

The eight system functions/operations described in this appendix are (in alphabetical order):

- Bar Code Reader
- **Boom Arm Operation**
- Carousel movement
- Dispense operation
- Heater operation
- Input/Output
- Level Sense operation
- MEIA Optics operation

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Pinouts and Connectors

This appendix includes pinout and connector information. The information for a board follows the illustrations of that board. Information is provided for these connections:

- Analog Board to:
 - CPU Board
 - Digital I/O Board
 - Lamp Power Supply
 - Motor Driver
 - Optics Assembly
 - PMT HV Supply
 - Sensors

- Digital I/O Board to:
 - Display
 Keyboard
 - Keyboard
 - Motor Driver
- To Liquid Level Sense Board from:
 - Probe COAX
 - Analog
 - Power Supply
 - Carousel Receiver COAX

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Reagent Receiver COAX

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Pinouts and Connectors (cont)

- Motor Driver to:
 - Digital I/O
 - Analog
 - Heaters
 - **Carousel Motor**
 - Boom Assembly
 - Pump Assembly
 - Power Supply

- Power Supply to:
 - 110/Motor Driver
 - Analog/Motor Driver
 - Card Cage
 - Display Printer

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