

*dBeech Associates Ltd.*



## **Intelligent Speed Dome Technology**

### **Organon**

This is FPGA-based development environment that integrates standard dome unit control with advanced video overlay and custom digital video processing capabilities. The flexible nature of the system permits rapid development of next generation dome features, reducing time from concept to market, while protecting customer IP.

#### **Technical features:**

- Flexible soft-core processor architecture with configurable peripheral set allowing 3rd party software integration with minimal development effort
- Full colour video overlay capability with individual pixel control
- Aristotle user interface
- PAL/NTSC or CMOS sensor video input
- Video out in PAL/NTSC or via selectable video codec's
- Inbuilt smoke / fire / non-motion detection as standard
- Multi stream outputs
- Application of smart video processing algorithms
- Third party IP block integration

## Speed dome module brief:

- Pixim Orca chipset
- Integrated 10 X or 35 X Autofocus lens
- True WDR capability
- Full menu access
- Sony block foot print or smaller

## Aristotle Interface

Aristotle provides an intuitive graphical interface with some novel features to give outstanding dome control. It digitises a PAL or NTSC input, processes the video in the digital domain and restores to PAL/NTSC for output.

### Features:

- Joystick cursor control of a high resolution and high information content menu
- Input command and menu 'page' traceability
- 64 camera independent privacy patches with adaptive option
- Split screen to compare 'before and after' video adjustments
- Multiple motion detection zones, programmable at individual positions
- Colour bar generator
- Bit-mapped screen overlay
- Customisable colours with customisable character sets, graphics, logos and languages including Arabic, Mandarin and many others
- Comprehensive alarm options with timed masking
- 250 alarms, 10 independent alarm masks and 15 alarm holidays
- 9.6 K baud RS485 or UTC selectable control
- Simple dip switch selection of address, protocol, and language settings
- 250 preset positions, 100 sequences, and 4 minute mimic tour program capacity
- Separate micro step adjustment for video gain and lift
- Comprehensive alarm programming
- Real time clock

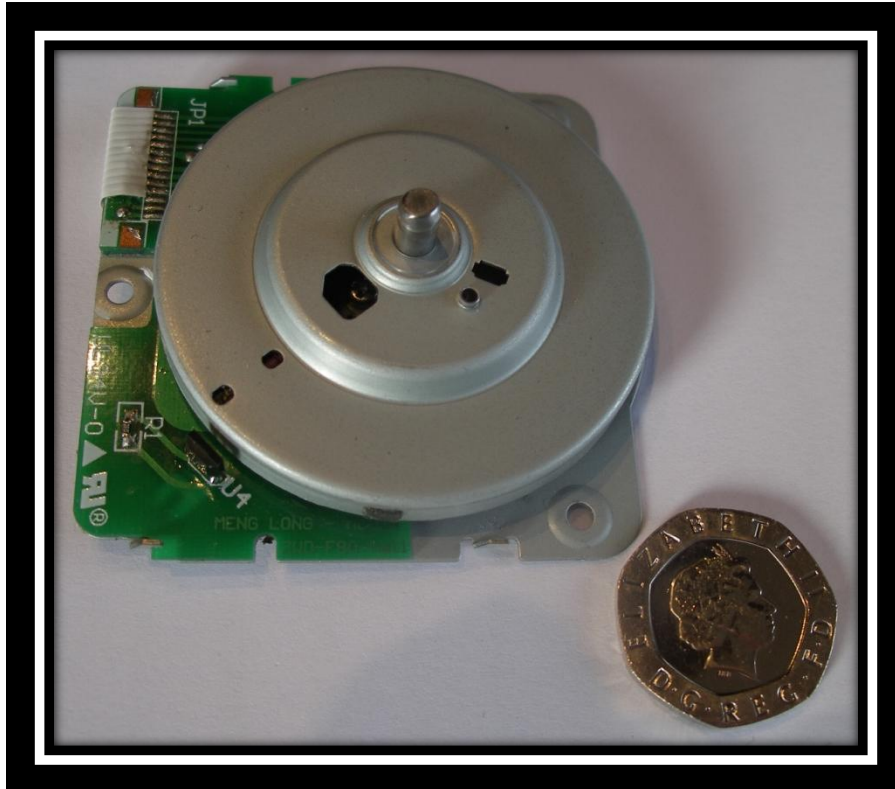
## Aristotle Interface Drive Board

The drive board controls two stepper motors and camera communications. It has a fan and a heater with thermostat. It fits between the Speed dome stepper drive mechanism and our standard camera shroud.

### Technical features:

- Pan and tilt axes driven from 0.1 to 360 degrees per second
- 28.8 K baud 2-wire serial interface to main controller
- Dedicated DSP drive control camera module interface

## Brushless DC Motor



- High torque, low heat output
- Extremely accurate
- Ultra small and lightweight
- Intelligent serial connection meaning there is less circuitry needed in the dome

## Ethernet Slip Rings

The slip rings are a very important part of any dome, so there is technology available that will enable transmission of Ethernet signals through proprietary Slip ring Technology. More details on request

Contact [dBeech@dBeech-Associates.com](mailto:dBeech@dBeech-Associates.com) for more details