*Mega*Plus *II* Family

The *Mega*Plus *II* family of cameras features a unique design consisting of our *Mega*Plus *II* controller and up to four camera heads. The camera controller allows for easy camera configuration, and provides the intelligence for each camera head such as color space conversion, gamma control, and flat field correction. This family of digital CCD cameras includes both color and monochrome cameras with resolutions up to 11megapixels.

By making it possible to use multiple camera heads on a single controller, the *Mega*Plus *II* system easily supports applications requiring large horizontal resolution or acquiring images from multiple angles. The *Mega*Plus *II* system also lets you mix and match camera heads on a single controller.

*Mega*Plus *II* ES 11000
The ES 11000 consists of an 11-megapixel interline-transfer camera head and controller, offering both CameraLink and Firewire interfaces selectable via our control software - *Mega*Plus Central. The camera supports up to 12-bit monochrome images or 36-bit color images at 4.63 fps for full resolution, and over 13 fps with 4 x 4 binning.

With outstanding image quality and flexibility, the ES 11000 and controller are ideal for most ophthalmology, document scanning, aerial photography, and scientific imaging applications.

*Mega*Plus *II* ES 11000 with controller

*Mega*Plus *II* controller (back)

A P P L I C A T I O N S

- **Flat Panel Inspection**
- **Ophthalmology**
- **Remote Sensing**
- **Digital Photography**
- **Scientific Imaging and Microscopy**

▮▮MegaPlus® II ES 11000

PERFORMANCE SPECIFICATIONS

CCD Imager

Imaging Device	Kodak KAI-11000CM with microlens, solid-state, interline CCD
Sensor Readout	Interline, progressive scan
Pixel Size	9.0 µm^2
Resolution	4008 x 2672 pixels (10.71 Mpixel)
Imager Size (diagonal)	42.52 mm
Active Area	36.0 mm horizontal x 24.0 mm vertical
Spectral	RGB Bayer Color or Monochrome
Bit Depth	8, 10 or 12 bits per color
Dynamic Range	66 dB full resolution
Frame Rate	CameraLink: 4.63 fps at 30MHz
	Firewire: 3 fps monochrome
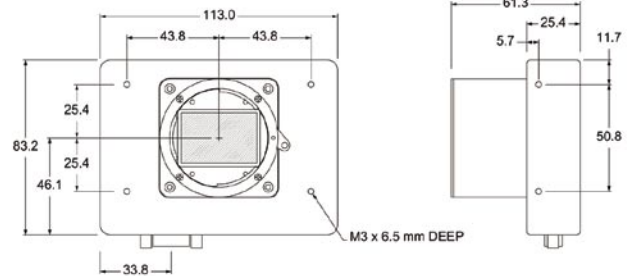
Camera Control and Features

Gain Control	0-36 dB
Binning Frame Rates	2 x 2 at 27.4 fps at 30MHz or 10.34 fps at 38MHz
	3 x 3 at 10.98 fps at 30MHz or 13.9 fps at 38MHz
	4 x 4 at 13.23 fps at 30MHz or 16.75 fps at 38MHz
Pixel Clock Rate	30 MHz per channel
Minimum Integration Time	192µs in continuous mode; 140µs in triggered mode
Sensitivity	13µV/electron
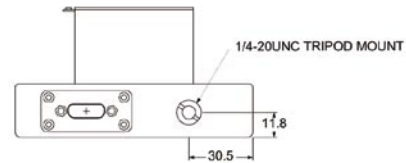
Controller Features

Input Voltage	12VDC
Power Consumption	16W (DVI off)

Mechanical Description

Lens Mount	F mount
Camera Head Dimensions	F-mount: 113 x 61.3 x 83.2 mm (L x D x H)
Controller Dimensions	157 x 157 x 50.8 mm (L x D x H)
Camera Head Weight	450g
Controller Weight	1140g
Tether Cable Length	2m, 5m

Environmental Requirements

Operating Temperature	0 - 40° C, non-condensing
Vibration	10-500 Hz, 3G, sinusoidal
Shock	5G

Safety

Certifications	CE

Note: Specifications are subject to change

SPECTRAL RANGE

Color with Microlens Quantum Efficiency

Monochrome with Microlens Quantum Efficiency

ES 11000 05/05

CE

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