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MegaPlus® II

Picture Perfect Imaging Solutions



Introducing Redlake New *Mega*Plus *II*



MegaPlus® II

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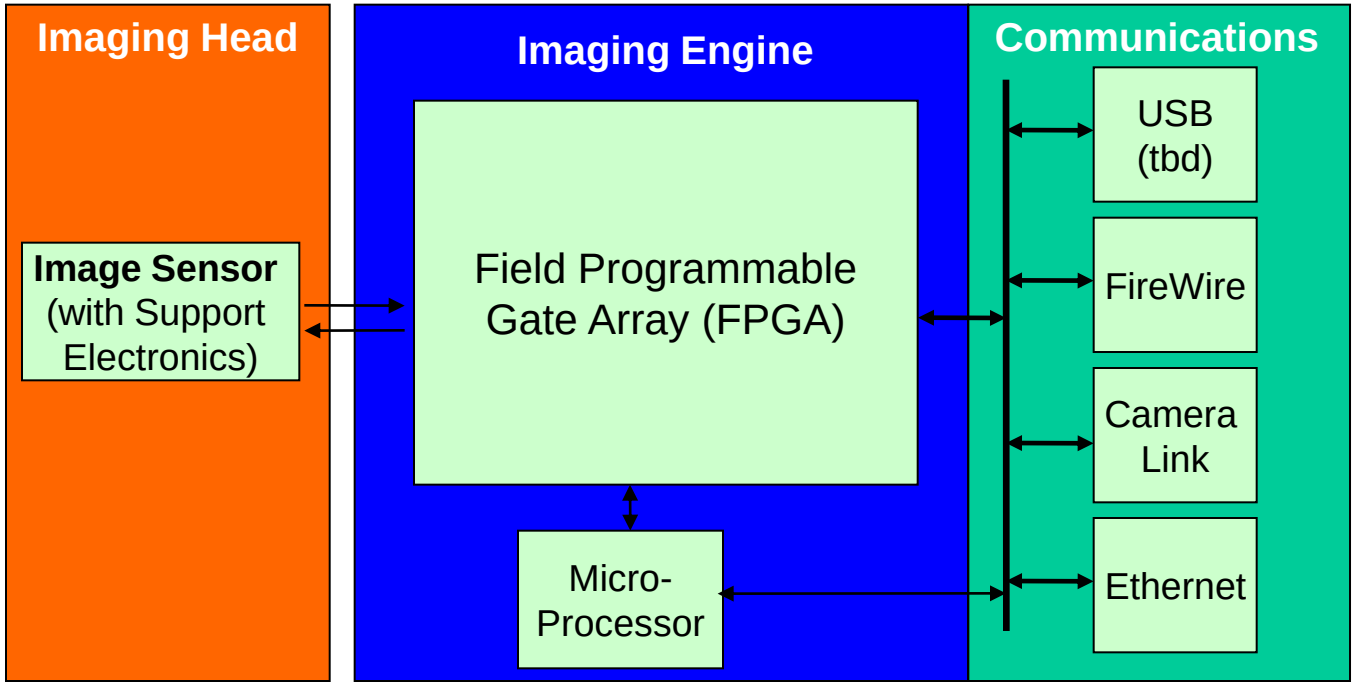
New *Mega*Plus *II* Architecture

- **Modular design**
  - **Controller with image processing hardware**
  - **Simple and small imaging heads**
  - **Digital link: imaging head to controller**
  - **Mix-and-match imaging heads on the same controller**
  - **Multiple imaging heads available**

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New *Mega*Plus *II* Architecture

- **Modular design**



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New *Mega*Plus *II* Customer Benefits

- ***Mega*Plus *II* - Customer Benefits**
  - **Flexibility**
  - **Ease of Use**
  - **Image Quality**
  - **Value**



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New *Mega*Plus *II* Customer Benefits

- ***Mega*Plus *II* - Flexibility**
  - **Mix-and-match different type imaging heads**
  - **Upgrade to new imaging heads without rewriting interface**
  - **Camera Link or Firewire output**
  - **Imaging heads based on new sensors can be brought to market quickly**

FireWire

CAMERA Link™

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New *Mega*Plus *II* Customer Benefits

- ***Mega*Plus *II* - Ease of Use**
  - **Embedded Ethernet for software field upgrades**
  - **Direct video output (via DVI)**
  - **Extra Serial control via RS-232e**
  - **Small size camera head with variable cable lengths**
  - **Easy to use control software**
  - **Automatic camera head detection**
  - **Software interface: SDK and DLL**

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New *Mega*Plus *II* Customer Benefits

- ***Mega*Plus *II* - Image Quality**
  - **Low noise (all heat generating electronics are in the controller)**
  - **8, 10 or 12 bit dynamic range**
  - **Flat field normalization**
  - **Internal Bayer demultiplexing**
  - **Programmable Gamma**
  - **Sophisticated image correction software**
  - **Latest high QE sensors (up to 85%)**

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New *Mega*Plus *II* Customer Benefits

- ***Mega*Plus *II* - Value**
  - **State-of-the-art DSP and FPGA hardware**
  - **Protects your investment (new sensors can be quickly integrated)**
  - **Only pay for image processing hardware once**
  - **Firewire allows low-cost interfacing to computer**

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*Mega*Plus *II* Imaging System Features

- Flat field normalization
- Advanced color management
- Automatic gain control (auto-exposure)
- Anti-blooming control
- Customer LUT download options
- Double trigger exposure
- Binning (1x1, 2x2 and 4x4)
- Manual and semi-auto white balance
- Various trigger options (BNC)
- Strobe output (BNC)

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New *Mega*Plus *II* Camera Sensors

- **Interline Sensors:**
  - **ES 11000**
  - **ES 4020**
  - **ES 2093**
  - **ES 2001**
- **Full Frame Sensors:**
  - **ES 1602**
  - **ES 3200**

- **Other camera sensors available early next year**

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*Mega*Plus *II* Imaging System



*Mega*Plus *II* ES 11000

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*Mega*Plus *II* ES 11000

- **Resolution: 4008 x 2672 pixels (11 Megapixel)**
- **Interline, progressive scan**
- **Pixel size: 9.0 µm**
- **Bit depth: 8, 10 or 12 bits per color**
- **Spectral range: color or monochrome**
- **Frame rate:**
  - **CameraLink: 5 fps dual tap, 2.5 fps single tap**
  - **Firewire:**
    - **2.5 fps (8-bit monochrome)**
    - **1.25 fps (10- or 12-bit monochrome)**
    - **1 fps (8-bit RGB)**



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*Mega*Plus *II* Imaging System



*Mega*Plus *II* ES 4020

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*Mega*Plus *II* ES 4020

- **Resolution: 2048 x 2048 pixels (4 Megapixel)**
- **Very low noise specifications**
- **Interline, progressive scan**
- **Pixel size: 7.4 µm**
- **Bit depth: 8, 10 or 12 bits per color**
- **Spectral range: color or monochrome**
- **Frame rate:**
  - **CameraLink: 16 fps**
  - **Firewire:**
    - **12 fps (8-bit monochrome)**
    - **6 fps (10- or 12-bit monochrome)**



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*Mega*Plus *II* Imaging System



*Mega*Plus *II* ES 2093

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*Mega*Plus *II* ES 2093

- **Resolution: 1920 x 1080 pixels (2 Megapixel)**
- **Interline, progressive scan**
- **Pixel size: 7.4 µm**
- **Bit depth: 8, 10 or 12 bits per color**
- **Spectral range: color or monochrome**
- **Frame rate:**
  - **CameraLink: 30 fps**
  - **Firewire:**
    - **24 fps (8-bit monochrome)**
    - **12 fps (10- or 12-bit monochrome)**



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*Mega*Plus *II* Imaging System



*Mega*Plus *II* ES 2001

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*Mega*Plus *II* ES 2001

- **Resolution: 1600 x 1200 pixels (2.0 Megapixel)**
- **Interline, progressive scan**
- **Pixel size: 7.4 µm**
- **Bit depth: 8, 10 or 12 bits per color**
- **Spectral range: color or monochrome**
- **Frame rate:**
  - **CameraLink: 30 fps**
  - **Firewire:**
    - **24 fps (8-bit monochrome)**
    - **12 fps (10- or 12-bit monochrome)**



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*Mega*Plus *II* Imaging System



*Mega*Plus *II* ES 1602

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*Mega*Plus *II* ES 1602

- **Resolution: 1536 x 1024 pixels (1.6 Megapixel)**
- **Extremely high-peak quantum efficiency (85%)**
- **Full Frame CCD**
- **Pixel size: 9 µm**
- **Bit depth: 8, 10 or 12 bits**
- **Spectral range: monochrome**
- **Interfaces:**
  - **CameraLink: 6.2 fps**
  - **Firewire: 6.2 fps**



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*Mega*Plus *II* Imaging System



*Mega*Plus *II* ES 3200

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*Mega*Plus *II* ES 3200

- **Resolution: 2184 x 1472 pixels (3.2 Megapixel)**
- **Extremely high-peak quantum efficiency (85%)**
- **Full Frame CCD**
- **Pixel size: 6.8 µm**
- **Bit depth: 8, 10 or 12 bits**
- **Spectral range: monochrome**
- **Frame rate:**
  - **CameraLink: 2.5 fps**
  - **Firewire: 2.5 fps (8-, 10- or 12-bit)**



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*Mega*Plus *II* Imaging System



*Mega*Plus *II* Controller

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