



# PupilCAM® 10 PACK

## 1410KEM

**NEW 2.07 Megapixel**

**EduCam  
optimized**



**Detailed Specifications (July 2013)**

|          |                              |     |                                                                                                                                                                                                                                                 |
|----------|------------------------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera   | <b>Image Sensor</b>          | KAV | <b>CMOS 2.07 Megapixel</b>                                                                                                                                                                                                                      |
|          | <b>Pixel Count</b>           | ACT | <b>1920(H) X 1080(V)</b>                                                                                                                                                                                                                        |
|          | Frame Rate                   | Yes | Variable with selected screen size<br>Default 13 fps at max resolution of 1920 X 1080 (2.07)<br>VGA 30 fps at resolution of 640 X 480                                                                                                           |
|          | OSD                          | Yes | Controlled by software buttons                                                                                                                                                                                                                  |
|          | <b>Output Resolution</b>     | Yes | <b>HD 1080P</b>                                                                                                                                                                                                                                 |
|          | Output                       | Yes | VGA, RGB (DVI, HDMI depending on your computer's configuration)                                                                                                                                                                                 |
|          | RS232                        | Yes | via Software interface of computer                                                                                                                                                                                                              |
|          | USB Connection               | Yes | USB 2.0 compliant                                                                                                                                                                                                                               |
|          | USB Cable                    | Yes | Factory installed 1.7 m USB 2.0                                                                                                                                                                                                                 |
|          | Operating Temperature        | Use | 0° C - 50° C                                                                                                                                                                                                                                    |
|          | Lighting                     | Use | Low Lighting to work with electrical microscopes                                                                                                                                                                                                |
|          | Power Source                 | N/A | 5 VDC, 200 mA from USB port ONLY meeting green initiative                                                                                                                                                                                       |
|          | Cross Platform OS            | Yes | Windows, Mac, LINUX                                                                                                                                                                                                                             |
|          | UVC Driverless               | Yes | Works on Windows, MAC, and Linux                                                                                                                                                                                                                |
|          | MSI support                  | Yes | installation, maintenance, and removal of software via Microsoft server                                                                                                                                                                         |
|          | Memory                       | Yes | Image / Video<br>Image Recording: 400 minimum* average 132,000 images per standard hard drive space of 20GB at 1920 X 1080<br>Video Recording: 8 minutes minimum* OR 4 hours per standard hard drive space of 20 GB at AVI resolution 640 X 480 |
|          | Advance Imaging              | Yes | For Science Studies to include 3D rendering, measurement of varied angles, counting, and much more                                                                                                                                              |
|          | Average Set up time          | N/A | less than 5 minutes for 1 – 1,000 units using MSI for Cross platform software installations                                                                                                                                                     |
|          | Free Updates                 | Yes | For the life of the product on software and hardware                                                                                                                                                                                            |
|          | IWB Compliant                | Yes | Interactive White Board Compliant for most current boards.                                                                                                                                                                                      |
|          | Viewing Angle                | Yes | 60 degree: diagonal, 50 degree: Horizontal                                                                                                                                                                                                      |
|          | <b>Connect to Microscope</b> | Yes | <b>Built-in 28mm 10x eyepiece replaces microscope eyepiece</b>                                                                                                                                                                                  |
|          | Lens                         |     | N/A                                                                                                                                                                                                                                             |
| Controls | Digital Zoom                 | Yes | Controlled by software buttons up to 16x                                                                                                                                                                                                        |
|          | Focus                        |     | Factory Set for optimal viewing                                                                                                                                                                                                                 |
|          | White Balance                | Yes | Auto or manual controlled by software buttons                                                                                                                                                                                                   |
|          | Color/B&W                    | Yes | Black and White controlled by software buttons                                                                                                                                                                                                  |
|          | Gamma Adjustment             | Yes | Auto or manual controlled by software buttons                                                                                                                                                                                                   |
|          | Negative/Positive            | Yes | Controlled by software buttons                                                                                                                                                                                                                  |
|          | Image Rotation               | Yes | 360° in both directions controlled by software buttons                                                                                                                                                                                          |
|          | Capture/Freeze               | Yes | Freeze image via software button                                                                                                                                                                                                                |
|          | Audio Recording              | Yes | Synchronized recording via software buttons                                                                                                                                                                                                     |

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|                               |                      |                                                                                                                 |
|-------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------|
| Image Compression             | Yes                  | JPEG                                                                                                            |
| Annotation                    | Yes                  | in software or working with Interactive Whiteboard interfaces                                                   |
| Light Control                 | Yes                  | Software controlled                                                                                             |
| Full Screen                   | Yes                  | desktop enabled icon and single click software button via software                                              |
| Image Compression             | Yes                  | Software Enabled JPEG                                                                                           |
| Split Screen                  | Yes                  | Software                                                                                                        |
| Multiple Camera Support       | Yes                  | Minimum of 2; up to 8 running simultaneously                                                                    |
| Time Lapse Recording          | Yes                  | Both Image and Video playback                                                                                   |
| Drawing                       | Yes                  | Multiple pallet tools                                                                                           |
| Video Playback                | Yes                  | Through varied programs                                                                                         |
| Image Orientation             | Yes                  | Single Click software buttons                                                                                   |
| Auto Format Image             | Yes                  | 16:9 format and/or 4:3 format auto or manual select by software                                                 |
| Distance Learning             | Yes                  | Single Click software button UVC compliant                                                                      |
| Export to MS Office           | Yes                  | Drop down to MS Word or EXCEL                                                                                   |
| Other Information             | Size                 | 5.125" X 1.75" X 5.125" / 13 cm X 4.5 cm X 13 cm                                                                |
|                               | Weight               | 1 lb / 0.45 kgs                                                                                                 |
|                               | Boxed Size           | 16" X 12" X 10" / 40.6 cm X 30.5 cm X 25.4 cm                                                                   |
|                               | Boxed Weight         | 10 lbs / 9.1 kgs                                                                                                |
|                               | Additional Parts     | N/A None, all required components are attached or downloadable                                                  |
|                               | Certifications       | CE, FCC, RoHS, ISO 9001-2008                                                                                    |
|                               | Warranty             | 1 Year                                                                                                          |
| Optional Accessories          | USB EXTENDER         | USB Extender Cable 16ft (4.8m) up to 80ft (24.3m) with 4 pieces                                                 |
| Windows/Mac Software          | Applied Vision 4     | <b>Free windows XP+ and Mac 10.6+ enabled</b>                                                                   |
|                               | Full Screen          | desktop enabled icon and single click software button via software                                              |
|                               | Image Compression    | JPEG                                                                                                            |
|                               | Split Screen         | Through the software                                                                                            |
|                               | Multiple Camera      | 2 - 8 running simultaneously                                                                                    |
|                               | Time Lapse Recording | Both Image and Video playback                                                                                   |
|                               | Drawing              | Multiple pallet tools                                                                                           |
|                               | Video Playback       | Through varied programs                                                                                         |
|                               | Document Orientation | Single Click Hardware button                                                                                    |
|                               | Auto Format Image    | 16:9 format and/or 4:3 format auto or manual select by software                                                 |
|                               | Distance Learning    | Single Click software button UVC compliant                                                                      |
|                               | Export to MS Office  | Drop down to MS Word or EXCEL<br>Vector graphics - .svg extension                                               |
| Tablet / Smartphone / Desktop | EduCam               | <b>Student App for iOS, Android, Mac, and Windows.</b><br><b>Collaboration and instant assessment software.</b> |