

## DMX-10 and EMX-10 Compact Iris Recognition Systems

**DMX-10****EMX-10**

The affordable desktop DMX-10 and wall mount EMX-10 iris recognition systems offer unprecedented usability and image quality in compact form-factors. Available now in USB-tethered configurations, the DMX-10 and EMX-10 are ideally suited for large scale enrollment and authentication applications.

### Features

- Intuitive and patented subject guide indicator system enables fast and repeatable subject positioning that minimize FTE and FTA rates.
- The EMX-10 system provides automatic motor-driven height adjustment for wall mount or kiosk applications such as access control and time & attendance.
- High speed, simultaneous dual imagers capture both iris images within 0.5 seconds, once the user is inside the operating range.
- Image quality exceeds all industry standards.
- MPIC (Mega-Pixel Iris image Capture) SDK interface available for Windows XP / 7 platforms.
- SDK outputs iris diameter and inter-pupillary distance (IPD) that is accurate to within  $\pm 1.0$  mm.

### User Interface

- Simplest and most repeatable subject interface available:
  - ✓ Subject places eyes in middle of partially transparent mirrors, then
  - ✓ Adjusts distance according to easy-to-use 3 color indicator.



Item	Description
Dimension	6 x 2 x 2" (150 x 50 x 47mm) for DMX-10 8 x 3.7 x 2.5" (202 x 94 x 62mm) for EMX-10
Operating Range	12.4 to 13.6" (315 to 345mm)
Iris Diameter	240 pixels for average 11.5mm iris diameter (200 to 285 pixels for full range of 9.5 to 13.5mm diameters)
Iris Image Output	640 x 480 pixels, 8 bit Multiple output formats supported
Inter-Pupillary Distance Range	1.77 to 3.35" (45 to 85mm)
Focal Distance Range (Standoff)	12.4 to 13.6" (315 to 345mm)
Subject Positioning Indicators	Circular indicator inside mirror should be located at the center of both eyes. Distance indicator utilizes proprietary stereoscopic techniques for subject distance indicators: <ul style="list-style-type: none"> <li>• None : Subject not detected</li> <li>• Blue : Eyes too far – move closer</li> <li>• Green : OK / Ready – eyes within focal range</li> <li>• Red : Eyes too close – move away</li> </ul>
Maximum User Speed for Iris Capture	5"/sec (125mm/sec)
Iris Imager Frame Rate	30 fps
IR Illumination	Blend of 850nm (50%) and 750nm (50%) nominal LED illuminators
Interface	USB2.0 High Speed
Power	5VDC 2A Adaptor
Certificates (in progress)	FCC, CE, USB-IF, Eye Safety, WHQL

## MPIC SDK (Mega-Pixel Iris image Capture SDK)

- System requirements:
  - ✓ Subject places eyes in middle of partially transparent mirrors, then
  - ✓ Adjusts distance according to easy-to-use 3 color indicator.
- Supplementary information available from the device through MPIC SDK:
  - ✓ Live image streaming for display.
  - ✓ The distance of each eye in near real-time if eyes are detected.
  - ✓ The estimated iris image center coordinate and the iris diameter after the image capture process are completed.
  - ✓ The average measured value of inter-pupillary distance.
  - ✓ Movement in X-Y and Z directions.
- Adjustable parameters in image capture:
  - ✓ Iris image brightness.
  - ✓ Color indicator intensity.
  - ✓ Maximum amount of movement in X-Y and Z direction.
- Sample Programs
  - ✓ Qt and Visual Studio C++ sample programs will be provided.