

Mimicking
Human Sight
To Mine Image Content.

piXsearch

Visual Search for Digital Images and Videos

Product Highlights

- Automatically index digital Photos and video files, no manual intervention required.
- Search for images and video segments that contain what you are looking for, quickly and reliably.
- Search for text that may appear on the image or video frame.
- Simple API, easy to integrate
- Scaleable, multithreaded library, written in C++

Release 2.0



Turbocharge the Functionality of Your Multimedia Application

The piXsearch Application Programming Interface (API) provides a simple and convenient way to incorporate the power of visual search into your application.

The piXsearch libraries analyze images and video frames, and create a searchable index of their contents. The index is based on an automatically generated description of the visual objects in the image. The piXsearch libraries are able to “see” the visual objects in an image, and can compare images based on how similar these objects are. You can use the piXsearch API to add visual search capabilities to your application, including:

- Automatically index digital images and video files.
- Find digital images and video segments based on visual content.
- Find pictures and videos that contain specific text on the image/video
- Integrate your application’s metadata with the visual contents of the image

Product Features

- [Automatic Indexing of Visual Objects](#)
Use the piXsearch libraries to automatically index the contents of images and video files that are processed by your application. No manual intervention or data entry required. piXsearch “sees” what is in the image and automatically creates records that describe the shape, the position, the size, the color, etc. of the discernable objects in the image. Whatever is in the image is automatically indexed.
- [Automatic Indexing of Text](#)
Use the piXsearch libraries to automatically index text that may be visible on an image or on a video. Traditional OCR technologies have difficulty identifying and recognizing colored text against complex colored backgrounds. piXsearch leverages its core visual object based image analysis and is able to deal with the most complex situations. The piXsearch text recognition capabilities are language independent and define a new and unparalleled benchmark of accuracy in the industry.

Product Features (Cont'd)

- [Powerful Search Functionality](#)
 - ⇒ Use an arbitrary image being displayed in the user interface of your application to search for images/video segments that contain the same or similar items
 - ⇒ Use the mouse to point to an area of the image to indicate which item should be searched for
 - ⇒ Type a text string to search pictures/videos where that string appears in the field of view
 - ⇒ Framework supports simple as well as logical complex searches (Ex: select two objects from two different pictures to retrieve a video segment where both appear in the same frames (“AND” search).
 - ⇒ Supports combined visual search and external metadata search (Ex: image keywords).
 - ⇒ User selectable search preferences (color and shape of the object, confidence level of returned results)
- [Elegant Architecture](#)
 - ⇒ C++ API
 - ⇒ Windows dll's
 - ⇒ Java Native Interface
 - ⇒ Compact database (XML format, typically less than 2% of the size of the original image files)
 - ⇒ Compact footprint (<3MB total; core <1MB)
 - ⇒ Multi-threaded and scaleable
 - ⇒ API Interface allows use of third party modules to read/display images/ videos in standard formats
- [Flexible Implementations](#)
Client/Server applications
Desktop applications
PDA/Mobile applications
- [Flexible Licensing](#)
Release 2.0—Full scope functionality
Release 2.0C— Simplified functionality for consumer applications

**piXsearch, Release 2.0 and 2.0C are available now.
Please contact piXlogic for additional information.**



The Visual Search Company

About the Company

piXlogic is a leading supplier of visual search solutions. Its breakthrough software automatically “sees” visual objects and text in digital images and video files, and creates searchable index records of their contents. piXlogic’s products provide unparalleled visual search capabilities that help customers make the most of their media assets.

piXlogic serves customers in the content management, security, and mobile devices marketplaces.

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