

IPIX® Interactive Studio™ Glossary

Here are some definitions of terms we have used throughout the IPIX Web site infomedia.ipix.com, and within our new IPIX® Interactive Studio™ software.

Activation

Activation is the process of enabling your IPIX Interactive Studio software to run on one or more computers. The IPIX Interactive Studio is Activated through the online IPIX Store. Once Activated, the software is fully licensed to operate as either in Single-User, Multi-User Enterprise, or Photographer Network mode. The particular features that are Activated depend on whether the Essentials or the Enhancer Pack was purchased.

Applet

A small piece of code that can be transported over the Internet and executed on the recipient's machine.

Archive IPIX Image

An Archive image is an IPIX Full-360° legacy image saved as either an archive .ipa or .gbu. The new IPIX Interactive Studio will load the legacy formatted IPIX images. Output of an uncompressed .tif file eliminates the need for a special Archive format in the IPIX Interactive Studio.

Bitmap

A data structure in memory that represents information in the form of a collection of individual bits. A commonly-used format of uncompressed image file used as source images.

Brochure

IPIX Brochure is a powerful Internet Marketing tool that allows you to create compelling email brochures using both IPIX Full-360° images as well as flat images. The combination of text and interactive images in a single easy to view electronic communication allows you to tell your story like never before! The IPIX Brochure one of the tools found on the IPIX Multimedia Toolkit product.

Combining

Combining is a feature of the Enhancer Pack that allows multiple Scenes to be combine into one for stitching and processing. The default Combiner in the IPIX Interactive Studio is a High-Dynamic Range Combiner.

Cube Strip Image

The Cube image represents all picture information of an IPIX image projected into a rectangular space with the seam appearing as a continual line. Cube strips can be JPEG files (.jpg), TIFF files (.tif) or Bitmap files (.bmp).

Equirectangular Image

An IPIX Full-360° output in an equirectangular format can be used in a number of open source 3rd party image viewers. The equirectangular image format projects a complete 360°x180° sphere onto a 2D image plane. The equirectangular image format is equivalent to the Mercator projection common in cartography.

Face Image

A face image is one side of a cube. You can open six face images in the IPIX Interactive Studio to create an IPIX image. Face images are useful if you are creating an image from rendered flat images.

Filter

A Filter is a Full-360° enhancement tool used in the IPIX Interactive Studio to alter the image as a whole such as changing brightness / contrast or levels.

Fisheye Lens

A camera lens capable of capturing 180° and greater fields-of-view. The lens is convex, rather like a fish's eye, hence the name.

Fisheye Parameters

The X-radius, Y-radius, X-center, Y-center, and rotation values used to build an IPIX image from hemisphere images.

Flat Image

A graphic file that is not a hemisphere file that is used to make up an IPIX image. Examples include bitmaps, JPEGs and TIFF files.

Floating Activation

A Floating Activation enables the sharing of a license for the IPIX Interactive Studio across more than one machine. There are two ways the Activation of the IPIX Interactive Studio can float. The first is on a LAN using a Network License Manager. The second is through the use of a USB Dongle Activation.

FTP

Acronym for File Transfer Protocol. This is a protocol used on the Internet for transferring files between computers. Files can be sent in different formats: text, binary, hexadecimal, etc.

Full 360° IPIX image

This image type allows you to pan left and right, look up and down, and zoom in or out. This type of image is different from a Panoramic IPIX image which does let you pan left and right in a full circle and zoom in or out, but does not allow you to look up and down.

Hemisphere

A hemisphere is the term used to describe one half of a Full 360° IPIX image, captured with a fisheye lens.

Hemisphere View

A view that displays the flat source hemisphere image and provides pan, tilt, and zoom controls.

Hotspot

The position in a mouse pointer (such as the tip of an arrow, the intersection of the lines in a cross or a box) that marks the exact location that will be affected by the mouse action, such as a click. With IPIX images, a hotspot is an area of an image that is a link to another image, sound, text, or another URL. You can add hotspots to some images using the i-Linker.

HTML

Acronym for Hyper Text Markup Language. HTML is the authoring language used to create Web pages.

Immersive Image

Another name for a Virtual Tour or for an IPIX Full-360° image. Immersive images put you in the center of the picture with the ability to rotate the view a full 360°. Because it feels as if you were actually standing there, our images are also known as immersive.

Initial View Or Initial Viewpoint

The initial viewpoint is the view that appears when an IPIX image is first opened. The default view is the middle of the front hemisphere file.

IPIX Image Faces

IPIX image Faces are individual faces of a cube. This type of source image can be used to create an image in the Builder Software from rendered images from many 3D rendering softwares. Each face is created by rendering a square image with a 90° angle of view in each of the six principle directions (front, back, left, right, up, and down).

IPIX Image

An IPIX image is created by two opposing images, called hemispheres, to view a full-environment, Full-360° still photograph (or rendering from 3D application), viewable on the Web or CD-ROM. It has the capacity to perform a variety of multimedia functions, such as automatic navigation, zooming, playing background music, and linking to text, audio, standard photographs, URLs, video, and other IPIX images.

JAR File

A Java Archive file contains all components to run a Java applet, including images, class files, sounds, and other multimedia files. This format allows for a higher compression ratio and decreases download times.

Java™

Java™ is a brand of general purpose programming language with a number of features that make it ideal for use on the World Wide Web. Small Java applications, called applets, can be downloaded and run using a Java-capable browser like Netscape Navigator or Microsoft Internet Explorer.

JPEG

Acronym for Joint Photographic Experts Group. A standard for storing images in compressed form. Graphics stored in this format will have the ".jpg" file extension.

MIDI

Acronym for Musical Instrument Digital Interface. MIDI is a standard of the electronic music industry for controlling electronic musical devices. In general use, it is an audio file.

MIME

Acronym for Multipurpose Internet Mail Extensions. A formatting specification for non-ASCII messages so that they can be sent over the Internet. Many email clients now support MIME, which enables them to send and receive graphics, audio, and video files via email. Web browsers that support MIME types can display or output non-HTML files.

Multimedia

Multimedia is the combination of sound, graphics, animation, and video. IPIX images can have multimedia enhancements added to them through IPIX tools as well as other third party vendors.

Multi-User Enterprise License

For companies / organizations that will directly employ two or more photographers, the Multi-User Enterprise License enables the IPIX Interactive Studio software to be shared across multiple photographers within a single site. This option is ideal for companies, small to large, that have multiple photographers processing images using one or more IPIX Interactive Studio software Activated CPU seats. The Multi-User Enterprise License can be Activated to internally float on a Local Area Network (LAN) using a Network License Manager Activation, or by using a USB Dongle Activation.

Network License Manager Activation

Network License Manager Activation allows anyone on a LAN to use the IPIX Interactive Studio, assuming they have the software loaded on their computer. The Network License Manager is Activated with the number of seats purchased. The Network License Manager keeps track of how many active users are using the software, allowing the IPIX Interactive Studio to run concurrently on computers, up to the number of seat licenses purchased.

Node-Locked Activation

Node-Locked Activation enables the IPIX Interactive Studio software to be run on one specific computer / CPU only. Once the IPIX Interactive Studio software is download onto a specific machine, it can be Activated through the IPIX online store. The Activation process will enable the Essentials or Enhancer level features to run on that specific machine.

Null viewpoint:

The viewpoint of an IPIX image that points directly at the center of the front hemisphere.

Paint Tools

Paint Tools are Full-360° enhancement tools used in the IPIX Interactive Studio to alter the image such as painting colored pixels or cloning portions of the Scene.

Panoramic Image or Panoramic Virtual Tour

A Panoramic image lets you pan to the left and right in a full circle, but not up and down.

PhotoCD

A digitizing systems from Kodak that allows 35mm film pictures, negatives, slides, and scanned images to be stored on a compact disk. Images stored on a PhotoCD can usually be viewed by any computer with CD-ROM capabilities and the software required to read Kodak PhotoCD IMAGE PAC File Format, or PCD.

Photoshop Editable IPIX

The legacy IPIX file format .ipp is no longer needed with the IPIX Interactive Studio software. Images can be edited directly within the software, or exported in a standardize imaging format (.tif, .jpg, or .bmp) in one of several open projections (Cube Strip, Equirectangular, or 6 Face Cube).

Plug-in

A file containing data used to alter, enhance, or extend the operation of a parent application program. Plug-ins are used within the IPIX Interactive Studio to enable features such as Image Loading, Stitching, Filters, Mixing, or Image Output. Plug-ins also are used by Internet Web browsers to play formats not directly supported, such as animation, video, and audio files. IPIX offers a plugin for selected browsers that enables the viewing of IPIX Full-360° images.

Reference Viewpoint

The viewpoint of an IPIX image that represents North (or straight ahead) relative to the null viewpoint of that image.

Rotator

The IPIX Rotator keeps the camera and tripod stable while perfectly positioning the camera for an exact 180° turn for each hemisphere of an IPIX image.

SDK

Acronym for Software Developers' Kit. The Software Developer's Kit allows programmers to incorporate IPIX image viewing capabilities into third-party applications.

Seam View

A view that displays the seam of the IPIX image, extracted into a flat rectangular image.

Seam

The area where two hemispheres meet.

Seaming

The process of joining two hemisphere files into a whole, removing distortion, and blending the line where the hemispheres meet.

Single Hemisphere

An image taken with a fisheye lens and forming one half of a Full 360° IPIX image. A single hemisphere can be used as a source file. If a single hemisphere is used to form an image, the other half of the image can either be "mirrored" (the same image will be used) or be viewed as just a black image. Hemisphere images can be in the following formats: JPEG (.jpg), TIFF (.tif) or Windows Bitmap (.bmp).

Single-User License

The single-user license is for the individual photographer who will shoot and process his/her own images. The single-user license is typically Activated as a Node-Locked license. The features Activated in a Single-User License will depend on if the Essentials or the Enhancer Pack is purchased.

Source

A source is an original image that is used to build an IPIX image. Sources are categorized by the type of image file(s) used to build an image that they contain.

Stitching

The process of create a single Full-360° image from 2 or 3 Source Hemisphere images.

Thumbnail IPIX Image

A thumbnail is a scaled down preview of a full-size image. You can use these thumbnails to provide a link to a larger file on a Web page.

TIFF

Acronym for Tagged Image File Format or Tag Image File Format. A standard file format commonly used for scanning, storage, and interchange of gray-scale graphic images.

Tripod

A tripod is an adjustable three-legged stand used for supporting photography equipment during a shoot. Tripods are included in some IPIX Camera Kits, and some tripods can be purchased separately through IPIX.

Tripod Cap

A tripod cap is a graphic that is placed at the area of the bottom of an IPIX image. Because IPIX photography captures an entire environment, the photographer's tripod is also captured in the image. A tripod cap graphic file is provided with our software products, or you can insert your own graphic. A tripod cap graphic must be a Windows Bitmap (.bmp), JPEG (.jpg), or a TIFF (.tif) file.

Two Hemisphere

Two hemisphere files of most often used to create an IPIX image. Hemisphere images can be in the following formats: JPEG (.jpg), TIFF (.tif) or Windows Bitmap (.bmp).



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USB Dongle Activation

The USB dongle provides an alternative method for Floating Activation. In this case, a single dongle represents a single Activation. A single seat of the IPIX Interactive Studio software can therefore float from computer to another by moving the dongle from one computer to the other.

URL

Acronym for Uniform Resource Locator. A location and sometimes a path for Web browsers to use when locating a Web address.

Virtual Tour

A virtual tour is a full color 360° photographic image that lets viewers navigate within the scene and experience the sensation of actually standing there. This term is typically used to refer to groups of 360° images relative to one location.

WAVE

Stands for sound WAVE. The format for storing sound in files developed jointly by Microsoft and IBM. Support for .WAV files was built into Windows 95 making it the de facto standard for sound. Some IPIX Software allows you to link .WAV files to IPIX images via hotspots.