

Pixel Viewer

for Sony CLIÉ

User Guide

Copyright © Picssel 2003

Neither the whole nor any part of the information contained in, or the product described in, this document may be used, sold, transferred, adapted or reproduced in whole or in part in any manner or form or in any media except with the prior written permission of the copyright holder.

The product described in this document is subject to continuous development and improvement. All particulars of the product and its use contained in this document are given by Picssel in good faith. However, the content of this document is provided "as is", without warranties of any kind with regard to its accuracy or reliability, and specifically excluding all implied warranties, for example of merchantability, fitness for purpose, title and non-infringement. In no event shall Picssel be liable for any special, indirect or consequential damages whatsoever resulting from loss of use, data or profits, arising out of or in connection with the use of this document. Picssel reserves the right to revise the document or withdraw it at any time without prior notice.

No licence is granted (nor any rights of whatsoever nature granted), express or implied, to any intellectual property by this document. Picssel, the Picssel cube device, IFV, Picssel Browser and ePAGE are trademarks or registered trademarks of Picssel Technologies Ltd.

Throughout this document, the trade names and trademarks of some companies and products have been used. No such uses are intended to convey endorsement of or other affiliations with the document.

This document is proprietary to Picssel.

Document number PICSEL-EUG-0007-S

December 2003

Picssel EMEA Office
Picssel Technologies Ltd
Titanium House
Braehead Business Park
Kings Inch Road
Glasgow, G51 4BP,
UK

Tel: +44 (0) 141 885 5588
Fax: +44 (0) 141 885 5599
<http://www.picssel.com/>

Picssel USA Office
Picssel Technologies Inc.
228 Hamilton Ave.
Suite 319
Palo Alto
CA 94301
USA

Tel: +1 (650) 798 5177
Fax: +1 (650) 798 5001
<http://www.picssel.com/>

Picssel Japan Office
Picssel Technologies K.K
Burex Kyobashi 5F
2-7-14, Kyobashi Cyuo-ku
Tokyo 104 – 0031
Japan

Tel: +81 (0) 3 5159 2111
Fax: +81 (0) 3 5159 2112
<http://www.picssel.com/>

Contents

Introduction	4
Getting Started	5
Panning and Zooming a document	6
Opening Documents	7
Using Picsel Viewer	8
Document View	8
Folder View	11
Document Format Restrictions	13
History View	15
Bookmark View	16
Other Options	17
Configuring Picsel Viewer	18
Acknowledgements	21
Questions and Answers	23

Introduction

PicseL Viewer is a revolutionary product for document browsing on thin-client computing platforms. Its leading edge technology allows you to view documents on your CLIE without any file-conversion or loss of content. Powerful real-time zooming and panning of documents using intuitive gestures allows close examination and broad overviews with equal ease.

PicseL's patented ePAGE™ document display environment is the core technology which brings new levels of satisfaction to your experience. It allows you to view almost all documents in almost all permutations.

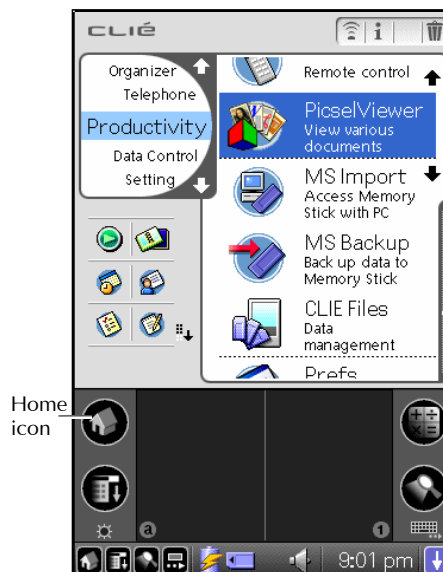
Central to its appeal is ePAGE's ability to read files from desktop environments in their native form. No conversion from the original format or compromise is required.

PicseL Viewer's intuitive user interface makes navigating documents easier than ever. Simply by touching the stylus to the device's screen, you can pan (scroll) your document sideways or vertically to view larger pages on a smaller screen. With a gesture of the stylus you can zoom in or out to view intricate details or overviews. Moving to the next page is as simple as turning a leaf in a book and a sophisticated yet attractive menu is available with a tap on the icon in the corner of the screen.

PicseL Viewer supports HTML and all significant image formats (JPEG, GIF, PNG, BMP, etc.), as well as most popular document types including PDF, Word, Excel and PowerPoint. These prove the package as a leading-edge multimedia and document environment

Getting Started

Now that you have a Sony CLIE handheld powered by PicseL Viewer, you're ready to see it in action! It is available from the CLIE Application Launcher screen, so to begin, tap the Home icon at the bottom of your CLIE's screen. Your device may differ slightly from the pictures shown here. Please consult the "Read This First" operating instructions for details of your model.



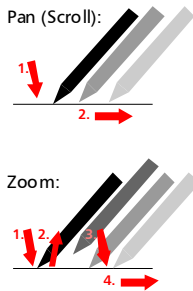
CLIE application launcher showing PicseL Viewer

Tap the 'PicseL Viewer' icon in the application launcher. This will launch the application, briefly showing its starting screen. After launching, you should open a document using the Folder View, described later in this user guide.

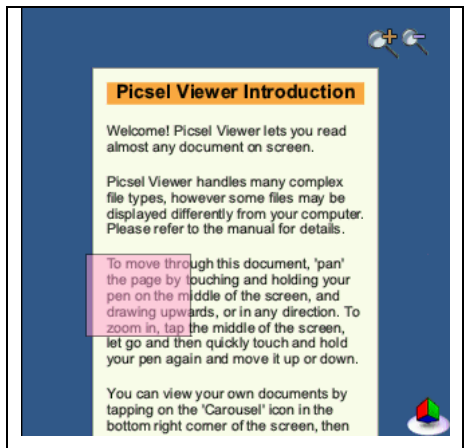
Panning and Zooming a document

The document you wish to see is normally larger than the screen space available. There are two ways to see more of it.

To pan (or 'scroll') to a different part of the document, simply stroke your stylus across the screen in the direction you would like the page to move. To pan the page up, touch and hold your stylus somewhere near the middle of the screen and draw a line towards the top, then take your stylus off the screen. You can do this repeatedly so that you can view any size of document. Further, you can 'throw' the document across the screen, and it will continue moving after you have released the stylus. This gives you time to start another stroke. This inertia can be used to save time while you pan around the document.



You can change the size of the document, so that more or less of it is visible at a different size. Simply tap on the "+" magnifying glass icon in the top right corner to zoom in, or on the "-" to zoom out. You can also zoom in or out with a stylus movement; the tap-and-stroke gesture for this is to tap your stylus briefly near the middle of the screen then tap and hold it again in the same place. Now stroke your stylus up to zoom in or down to zoom out. Release your stylus when you reach the scale you like. Using this, you can view small print details on diagrams or get an overview of a whole page.



The zoom box, showing in pink the area that will be expanded using the horizontal tap-and-stroke gesture.

A further method for zooming into a specific area of the document is available in PicseL Viewer, called 'Zoom Box'. Use the same tap-and-

stroke gesture as above, starting at the top-left corner of the area you would like to fill the screen. However, you should then stroke your stylus to the right instead of vertically. A coloured box will appear showing the area that will be enlarged. Move your stylus to make this cover the area of interest, and release it.

While you hold your stylus down on the screen, the quality of the image may be poorer. This is to make the zooming more responsive to your movement. When you release your stylus, the quality will improve.

You can also pan the document up and down using the Jog Dial Navigator on your CLIÉ. If you briefly press and release the Jog Dial, you will then be able to pan horizontally by turning it again. Press it once more to return to vertical panning. You can also zoom in and out by pressing and holding the Jog Dial in and turning it at the same time.

Opening Documents

You can create documents on your desktop PC and copy them to storage media. PicseL Viewer can read your favourite document formats such as HTML, PDF, Word, Excel and PowerPoint without any re-processing.

To look at files on your storage media, tap the PicseL Viewer carousel icon and then tap the Folder View icon, from where you can select documents to view. Tap your stylus on any of the files and after a moment it will appear on screen. You can move it around, and zoom in or out, using the stylus gestures you learnt earlier.



*PicseL Viewer
carousel icon*



Folder View icon

Using PicseL Viewer

The main place for controlling Viewer is the carousel, which you can open by tapping the PicseL logo in the bottom right corner of the screen or by pressing the 'Back' button on your CLIÉ twice. The table on page 10 lists keys to press. Your CLIÉ may not have a Back button. From here you can go to the Folder View, the History View or return to your document. You can also change your preferences for the way the system operates. If you tap and hold your stylus on any of the options, a tool-tip will appear to explain its purpose. The carousel will close after an option has been selected.



Document View



Document View icon

Most of the time, you are looking at the '**Document View**', in which you see the content of your chosen document. There are, however, four different views in PicseL Viewer. If you want to return to the document view when you are in a different mode, you can choose the document view icon on the carousel, as shown.

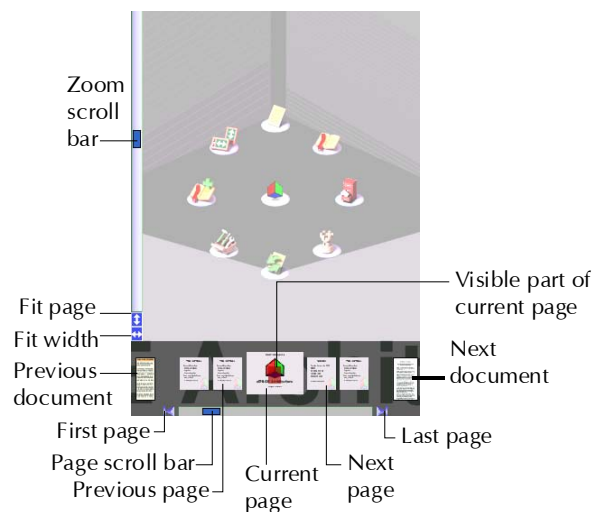
While in this view, you can pan (scroll) around the page simply by stroking your stylus over the page in the direction you want it to move.

For example, to see what is lower down, press and hold your stylus near the middle of the screen and stroke it upwards.

To zoom in, briefly tap the screen near the middle then press and hold it in the same place. Now, stroking upwards will zoom in and stroking downwards will zoom out.

While you are zooming or panning, the document will appear less clearly and will then 'sharpen up' when you release the stylus. This is perfectly normal, and the clarity and speed with which the document moves are part of the unique power of PicseL's ePAGE technology.

There are three ways to move to a different page in a document. You can draw a 'page flick' stroke across the bottom of the screen, as if you were holding a page of a book (start in the middle at the bottom, then stroke to the left to reach the next page, or the right to return to the previous page). Alternatively, you can click on the carousel and use the thumbnail copies of pages or the scroll bar along the bottom to find the page you want.



The navigation controls which appear around the carousel

The tools around the side of the carousel offer more features. The scroll bar along the bottom of the screen moves between pages and can be moved by stroking your stylus over the box to move through the thumbnails for all of the pages of the current document. The arrows at the end of the scroll bar move directly to the first and last pages of the document, respectively. The page scroll bar is only useful for multi-page documents, which do not include HTML pages or pictures.

You can also return to the previous document you viewed by tapping on the 'previous document' thumbnail or page icon on the left of the carousel, and after that, can move forward again to the 'next document' if you wish. You can go back several steps by tapping on the 'previous document' repeatedly as it changes, although you may find the History View more helpful. These thumbnails are displayed as page icons if you move very quickly between documents.

The zoom scroll bar, to the left of the carousel, allows you to enlarge or reduce the document without using the tap-and-drag gesture. Simply stroke your stylus up or down over the box in the scroll bar. PicseL Viewer can also scale the document automatically to fit on the screen with the 'fit page' icon, or to fit the width of the document into the width of the screen using the 'fit width' icon.

The visible part of the current page is shown on the current page thumbnail as a red area which you can also move around with your stylus, should you wish to.

Keys

As well as tapping icons on the screen to perform actions in PicseL Viewer, you can also press certain physical buttons, as follows:

Context	Button	Action
All views including Document, History, Bookmark and Folder Views	Page Up or Left*	Previous page
	Page Down or Right*	Next page
Document View	Turn Jog Dial	Pan vertically or horizontally
	Push Jog Dial	Change between horizontal and vertical panning
	Push and Turn Jog Dial	Zoom in or out
	Back* (multiple presses)	1. Zoom to fit width 2. Open Carousel 3. Exit PicseL Viewer
History, Bookmarks, Folder Views	Back*	1. Open Carousel 2. Exit PicseL Viewer
	Turn Jog Dial	Change selected document
	Push Jog Dial	Open document
*Your device may not have all of these buttons. The same features are available on-screen.		

Folder View



Folder View icon

You can look at documents stored on storage media using the **'Folder View'**. To see it, click on the Folder View icon as shown.

Initially, you will see an icon for your storage media card. Simply tap with your stylus on the icons to explore the files stored on each card.

The name of the current folder's path location is shown at the top of the screen and you can go to the folder above that in the folder structure by tapping the 'Up-Folder' icon in the corner. You can also move to a higher folder by clicking on the name at the top of the screen.



Up-Folder icon



Folder View

The folders, which contain further documents, are shown in yellow with tabs in the corners. Documents look like sheets of paper in various other colours, depending on their type. You can tap a folder icon to see its contents, or tap a document icon to open it with Picisel Viewer.

The following document formats are supported:

Document Type	Icon
HTML	
Adobe PDF	

Microsoft Word	
Microsoft PowerPoint	
Microsoft Excel	
Plain Text	
Pictures	

In the Folder View you can only access documents on the storage media, including any folders you may have created on them.

If you have a lot of documents, or have documents with long names, you may wish to fit more on the screen by having smaller icons. If you open the carousel, you will see icons for displaying the smaller 'name' list or larger 'icon' list. When the list is too long to fit on the screen, you can use the scroll bar on the right to move through the list.



Icon list



Name list



*Sort by Type
icon*



*Sort by
Name icon*

You can also sort the order of documents listed, either by name or by document type, by opening the carousel and tapping one of the sort icons as shown.

You can select documents by turning the Jog Dial Navigator, on the side of your CLIÉ, and open (view) the documents by pressing it. To return to the folder above the current level, turn the Jog Dial Navigator up past the first document to select the 'Up Folder' icon. You can also use the Page Up and Page Down buttons (or Left and Right on some CLIÉ models) to move through a long list of files.

Document Format Restrictions

Picse! Viewer can display documents with a high level of accuracy, however, some features may not be displayed in certain document formats.

Overall restrictions

- Bold, italic font and font changes are not supported in Japanese text because there is only one Japanese font installed. Characters are displayed in the standard font. Western text can be displayed in standard fonts including bold and italic once the English language pack has been installed.
- With respect to the font format, only the font size and character color can be changed using the installed Japanese font.
- Background colours and patterns are not fully supported.
- When documents of other formats are inserted in Microsoft Office documents, the inserted data may not be displayed.
- The resolution of images in a document may be reduced to conserve internal memory.
- Large document files may not be opened, depending on the memory limits of the device and compression used within the document. It is recommended that you keep more than 500Kb of free internal memory on your CLIE.
- Characters in Shift_JIS and Latin1 fonts are supported, but documents may contain unsupported characters.

Microsoft Word restrictions

- Documents created in Word 97/2000/2002 can normally be displayed, excluding "Word 97-2000&95"
- Certain types of pictures are not supported (3-D Style, WordArt, AutoShape Connectors and Callouts, bitmap background patterns, etc). Text Box is also not supported.
- Figures created using Word 95 may not be displayed.
- Columns created with the Columns command under the Format menu may not be displayed correctly.
- Equations, including Japanese "Ruby" are not supported.
- Page headers and footers may not appear correctly on all pages.
- Asian-language numbered lists and localisations are unsupported.

Microsoft Excel restrictions

- Documents created in Excel 97/2000/2002 can normally be displayed, but not always "Excel 97-2000&95".
- Certain types of pictures and autoshapes are not supported (3-D Style, WordArt, AutoShape Connectors and Callouts, etc).
- With respect to the chart function, only column and, line charts are supported. Some features of charts, including those created in Excel 95 may not be displayed.
- Some line chart features are not fully supported. Pie charts are not supported.
- Dashed lines, dotted lines and borders may not be displayed as specified.
- Formulas are not supported.
- Some cell formats, including some date and accounting formats, are not supported.
- Text boxes do not support formatted or vertical text.

Microsoft PowerPoint restrictions

- Documents created in PowerPoint 97/2000/2002 can normally be displayed, but not always "PowerPoint 97-2000&95".
- Certain types of pictures are not supported (3-D Style, WordArt, AutoShape Connectors and Callouts, etc).
- Animation effects, buttons and links are not supported.
- Some background patterns are not supported.

Adobe Portable Document Format (PDF) restrictions

- With respect to the table border styles, only single solid line and double solid line are supported.
- Document and page information is not supported.
- Some embedded fonts cannot be displayed.

HTML restrictions

- HTML 3.2 and 4.0 are supported.
- With respect to the table border styles, only single solid line and double solid line are supported.
- Superscripts, subscripts and scrolling texts are not supported.

Plain text restrictions

- Plain 7-bit ASCII text, Latin-1 text and Japanese are supported.

- The wrap display function is not supported, thus text is displayed on one line until a line feed is encountered.

Image format restrictions

- JPEG, PNG, GIF and BMP are supported.
- JPEG 2000 and thumbnail images are not supported.

Microsoft and related products for Windows (Microsoft Word, Microsoft Excel, Microsoft PowerPoint) are registered trademarks of Microsoft Corporation in the United States and other countries.

Adobe® and Acrobat® are trademarks of Adobe Systems Incorporated.

Company names and product names in this document are trademarks or registered trademarks of their respective holders. The trademark symbol (TM) and registered trademark symbol (®) are omitted in this document.

Please refer to the manual for more detailed support contact information.

History View

If you've looked at a lot of documents, you may want to return to one you saw earlier. The **'History View'** shows your previously visited documents. A thumbnail image is shown for documents visited in this session of using Picseel Viewer, and a document-type icon is shown for those visited earlier. It also shows the document's name (file name or title), location, and the date of your viewing. To see this view, click on the history view icon in the carousel, as shown.



History View icon



History View

To return to any of the documents from the history view, tap the thumbnail picture of that page twice. After one tap the thumbnail will animate to indicate that you have selected it.



Sort by URL



Sort by Date

Once you have visited a large number of pages, the history will record more than it can display on screen. You can pan through the history view using the scroll bar on the right, as in the Folder View.

Documents will remain on the history list until a certain number of days have passed. You can control this period in the preferences (between 0 and 28 days), as described later. You can sort the order of entries in the history view. At the bottom of the carousel are icons to sort by date visited, by file name, and by document name (title) alphabetically. The thumbnail icons for the files are not stored between sessions.

The Jog Dial Navigator can also be used to select previous documents in the History View. Turn it up or down to highlight a thumbnail image, then press it to return to that document.

The date format used to display the time when the document was last viewed is set in the Palm OS "Formats" preferences, so you can choose between a range of national and international date formats.

Bookmark View



Bookmark View icon

For your favourite documents, you can keep a list in the '**Bookmark View**'. This looks similar to the history view but includes only those pages you have explicitly added. For each document, it shows a page icon and the title, file name and the date it was added. As before, tap the Bookmark View icon to see the bookmarks, then to return to one of the documents, tap its icon twice.



Add bookmark icon

The first time you look at the bookmarks, the page will probably be empty. To add the current page (from the Document View) to the bookmarks, you can use the '**Add Bookmark**' icon, shown here. If you wish to delete one of your bookmarks, tap the small icon image of the page, then tap on the dustbin icon in the corner.



Dustbin icon



Bookmark View

The Jog Dial Navigator can also be used to select documents in the Bookmark View. Turn it up or down to highlight a thumbnail image, then press it to return to that document.

As with the History View, the formatting of the date when you last viewed each document can be set in the “Formats” section of your Palm OS preferences.

Other Options



Help icon

The **Help** icon, at the top of the carousel, takes you to a document explaining how to use Picxel Viewer. You can scroll the text up and down using the scroll bar on the right, or change to another page using the drop-down menu at the top.

To exit from Picxel Viewer, tap on the Home icon at the bottom of your screen, which will return you to the Application Launcher. If the carousel is open, you can also press the Back button on your CLIÉ (if it has one) to exit from Picxel Viewer. As the same button opens the carousel from other views, pressing ‘Back’ two or three times is a convenient way to finish (see the table on page 10 for details of keys to press).



You can close the carousel and return to the page you were previously viewing by tapping your stylus in the grey area where there are no icons.

The ‘silk screen’ area at the bottom of the screen can be hidden to make more space for your document viewing by tapping the small down-arrow at the very bottom. Tap the arrow again to reveal the silk screen area.

Configuring PicseL Viewer



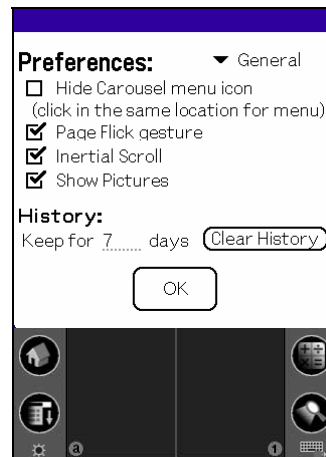
*Screen
orientation icon*

There are a number of choices you can make about the way PicseL Viewer works, to make your viewing experience more pleasant. First among these is the screen orientation. You may prefer to read lines of text across the screen more clearly, or you may wish to view a whole page at one time. To make the best use of the shape of your CLIÉ, PicseL Viewer can rotate its display by 90° when you click on the screen orientation icon as shown. When you do this, the document and other views are rotated, but not dialogue boxes or any other software running on your CLIÉ. You can tap the orientation icon again to rotate the screen back to its original form.



*Preferences
icon*

There are also a number of further options for PicseL Viewer which can be set using dialogue boxes. To see these, choose the Preferences icon, as shown. There are three pages. To move between these, use the 'settings' drop-down menu in the top-right corner.



'Preferences' dialogue box

To select any of the options in the dialogue boxes, tap your stylus in the square or enter text and numbers by tapping on one of the dotted lines and writing with the Graffiti system at the bottom of the screen. When you are finished, tap the 'OK' button.

General Preferences

'Hide Carousel menu icon' allows you to choose whether or not to see the carousel and zoom magnifying glass icons at all times in the corners of the Document View. If it is visible, you are reminded that you can zoom, open the carousel and perform other tasks. If it is hidden, the entire screen is dedicated to viewing your document, but you can still tap in the corner to see the carousel.

'Page Flick gesture' allows you to move between pages in a document by flicking your stylus across the bottom of the screen. To move to the next page, touch your stylus at the middle bottom of the screen, then draw a stroke to the left. To return to the previous page, draw a stroke to the right.

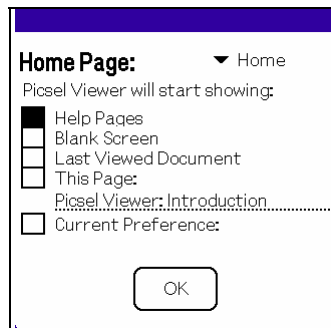
'Inertial Scroll' affects documents as you pan them around the screen. When enabled, you can 'throw' documents across the screen and they will continue to move after you lift your stylus. This gives you time to move your stylus to another point, ready to continue panning. If you find this disconcerting, you can disable it here.

'Show Pictures' saves memory in your CLIE by not displaying images in your HTML and PDF documents. This may be useful for very large documents.

'Keep for ... days' specifies the period after which the thumbnail pictures and descriptions of pages are purged from the history view.

Each entry occupies part of CLIÉ's limited memory, but also allows you to see what you were looking at not just earlier today, but some time ago. To edit the text here, tap in the box then open the on-screen keyboard and type your new number. If you reduce the period, old documents will be removed from the history immediately if appropriate. The value must be between 0 and 28 days.

The **'Clear History'** button deletes all memory of recently visited documents from your CLIÉ.



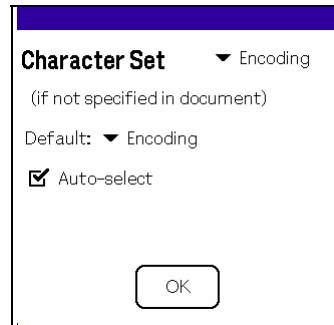
'Home' section of the preferences

Home Page Preferences

If you now select **'Home'** from the drop-down menu, you will see another page of choices. This defines what document Picisel Viewer will display when you first start it from application launcher. The default, when you first install it, is to go to the help pages. You can also choose a blank screen which will do nothing until you open a document in the Folder View. Thirdly, you can return to the same document you were viewing the last time you used Picisel Viewer. Finally, you can return to the document which is currently open at the time that you select the 'This Page' option. The fifth 'Current Preference' is displayed for your information.

Encoding Preferences

Text documents that you open may contain writing in a range of possible 'character encodings' which your CLIÉ must identify. This can be controlled in the third page of preferences.



'Home' section of the preferences

PicseL Viewer can attempt to **'Auto-select'** the character encoding, finding one which is compatible with and seems to be relevant for the document you are opening. This is normally correct, and so should normally be enabled.

Most document formats contain encoding information directly, and are not affected by these preferences. If you find documents which are displayed with meaningless characters, you may switch off Auto-select and make a choice of **'Default Encoding'**. In Japan this is often Shift_JIS, and in Western countries is normally ISO-8859-1.

The fourth page of the preferences dialogue box gives copyright notices and acknowledgements for the product.

Acknowledgements

PicseL are grateful to the developers of various libraries used within this product, who have asked that the following text be shown here.

libjpeg

This software is based in part on the work of the Independent JPEG Group, copyright (C) 1991-1998, Thomas G. Lane. All Rights Reserved except as specified.

libpng:

libpng versions 1.0.7, July 1, 2000, through 1.2.2, April 15, 2002, are Copyright (c) 2000-2002 Glenn Randers-Pehrson

zlib:

Copyright (C) 1995-2002 Jean-loup Gailly and Mark Adler. This software is provided 'as-is', without any express or implied warranty. In

no event will the authors be held liable for any damages arising from the use of this software.

Fonts:

European character fonts are based upon the typefaces owned by the Electronic Font Foundry Ltd. They are distributed under licence to PicseI Technologies Ltd. The fonts are only for use within PicseI Viewer. You may not modify, reverse engineer or redistribute them in any way.

Questions and Answers

We hope that your experience with PicseL Viewer is painless and pleasant. However, a number of questions may arise that have simple solutions, such as the following.

Why is there no document on screen?

PicseL Viewer may have failed to open a document (perhaps because the file had been corrupted), and left you with a blank screen. The simplest solution is to tap on the carousel icon in the bottom right corner of the screen and use the folder view to open a document.

Why is there no carousel icon on screen?

The button which you tap to show the carousel (menu) can be hidden according to an option in the preferences. Even when it is hidden, you can still tap the same place on the screen to show the carousel. If you don't know whether your screen is in landscape or portrait orientation, hold the device the normal way round and try tapping in the bottom right and the top right corners. See the section above entitled 'Configuring PicseL Viewer' for instructions on restoring the icon.

PicseL Viewer has run out of memory. What do I do?

PicseL Viewer has to load each document into memory and process it, in order to display it on screen. If your CLIE is running very low on available RAM, then PicseL Viewer may be unable to display some documents. Depending on the document, it may help to switch off '**Show Pictures**' in the preferences. The only other solutions are to delete some files or applications from memory or to view a different document.

Why can't I access any Internet Web sites?

PicseL Viewer for CLIE has no Internet access capability.

Why are some characters not appearing in my document?

PicseL Viewer comes with a broad range of font characters as standard, but it may not include certain symbols that you may use.

Why do the fonts look different from my PC?

PicseL Viewer includes a range of fonts, but not all of those you have on your PC, so it has to substitute them for the nearest it has.

How can I get the most out of using PicseL Viewer?

Practice the gestures for panning and zooming, as well as the page flick to other pages, in order to get where you want quickly and accurately.

Use the panning inertia to move around documents quickly. With brisk strokes you can scroll the page and it will keep moving while you lift the stylus, ready for another stroke.

The icons are designed to be large enough for you to use a finger or the back of your finger nail to select options and navigate the page. So you may not need your stylus at all! Be careful not to scratch the screen.

Rotating the screen orientation is easy and convenient for viewing documents at different times depending on your wishes. Landscape format may allow you to read text across the width of the page, while portrait format gives you an overview of each page.