

# PRODUCT SHEET



## ZyIMAGE OCR & Barcode engines v5.0

The ZyIMAGE OCR & Barcode engines recognize the typed text or barcodes on scanned documents or imported images. The process for recognizing text is named Optical Character Recognition (OCR), which is very important because its results determine how well you can retrieve documents based on their contents. To ensure the best possible recognition, ZyLAB offers eight different OCR & Barcode engines. All eight engines can work together to guarantee that you get the best results for your specific needs.

- Related Products**
- ZyIMAGE
  - ZySCAN

- Features**
- Support for over 200 different languages
  - Automatic Language detection
  - Voting algorithm is included, which selects the OCR engine that generates the best results for each document or page.
  - The most advanced OCR engines available
  - Support for true color OCR
  - For OCR engines that do not support true color OCR, the color image is temporarily converted to a bitonal image to obtain the OCR from the image
  - Depending on the OCR engine, specific image formats can be OCR'd; if the resolution is too high for the OCR engine, the image is automatically temporarily downsized for OCR recognition
  - Recognition of barcodes with ZyIMAGE Barcode engine
  - ZySCANShellUtility automatically restarts the OCR process if bad images are encountered.

- The OCR engines that ZyLAB offers are:
- ZyIMAGE Basic OCR engine
  - ZyIMAGE Global Standard OCR engine
  - ZyIMAGE International OCR engine
  - ZyIMAGE Professional OCR engine
  - ZyIMAGE Global Professional OCR engine
  - ZyIMAGE Arabic OCR engine
  - ZyIMAGE Asian OCR engine
  - ZyIMAGE Barcode engine

Each OCR engine has specific characteristics, which are described on the next page.

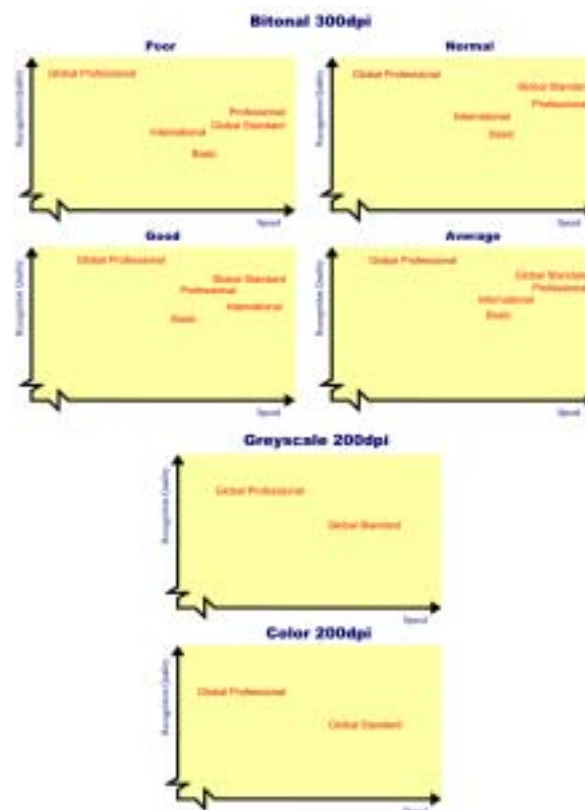


fig. 1 Displays the recognition quality versus the speed of the OCR engine.

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## ZyIMAGE OCR engines Datasheet

Note: For every scanner or digital copier a separate ZyIMAGE OCR engine license is required.

	Basic	Global Standard	Professional	International	Global Professional	Arabic	Asian	Barcode
Decolumnization	No	Yes	No	Yes	Yes	No	No	-
Color OCR	Yes, converts color and grayscale images temporarily to bitonal	Yes	Yes, converts color and grayscale images temporarily to bitonal	Yes, converts color and grayscale images temporarily to bitonal	Yes	No	No	No
Auto Orientation	Yes	Yes	Yes	Yes	Yes	No	-	Yes
Language Analyst	Yes	Yes	Yes	Yes	Yes	No	No	-
Barcode	No	No	No	No	No	No	No	Codabar Code 93 EAN 13 MSI Interleaved 2 of 5 Code 39 EAN 128 EAN 8 UPC-A
White text on black background	No	Yes	No	Yes	Yes	No	No	-
Deskew	Yes	No	No	No	Yes	No	No	-
Remarks		Recognizes black text on a shaded background in bitonal documents			Good recognition on small fonts			Works in combination with the other ZyIMAGE OCR engines for text recognition
<b>Supported Languages</b>								
<b>Basic</b>	Danish, Dutch, English, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, Swedish							
<b>Global Standard</b>	Afrikaans, Albanian, Aymara, Basque, Bosnian/Croatian/Serbian (Latin), Breton, Bulgarian, Byelorussian, Catalan, Croatian, Czech, Danish, Dutch Belgium, Dutch Netherlands, English-UK, English-US, Estonian, Faroese, Finnish, French, Frisian, Friulian, Gaelic (Irish), Gaelic (Scottish), German, Greek, Greenlandic, Hawaiian, Hungarian, Icelandic, Indonesian, Italian, Kurdish, Latin, Latvian, Lithuanian, Macedonian, Malay, Norwegian, Pidgin English, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Slovenian, Sorbian Lower, Sorbian Upper, Spanish, Swahili, Swedish, Tahitian, Turkish, Ukrainian, Welsh, Zulu							
<b>Professional</b>	Danish, Dutch, English-UK, English-US, Finnish, French, German, Italian, Norwegian, Portuguese, Spanish, Swedish							
<b>International</b>	Afrikaans, Albanian, Aymara, Balinese, Basque, Bemba, Bikol, Bislama, Bosnian/Croatian/Serbian (Latin), Breton, Bulgarian, Byelorussian, Catalan, Cebuano, Chamorro, Corse, Croatian, Czech, Danish, Dutch, English-UK, English-US, Estonian, Faroese, Fijian, Finnish, French, Frisian, Friulian, Gaelic (Irish), Gaelic (Manx), Gaelic (Scottish), Galician, Ganda, German, Greek, Greenlandic, Haitian Creole, Hani, Hiligaynon, Hungarian, Icelandic, Ido, Ilocano, Indonesian, Interlingua, Italian, Javanese, Kampampangan, Kicongo, Kinyarwanda, Kurdish, Latin, Latvian, Lithuanian, Luxembourgish, Macedonian, Madurese, Malagasy, Malay, Maori, Maya, Minankabaw, Nahuatl, Norwegian (Bokmal), Norwegian (Nynorsk), Nyanja, Pidgin English, Polish, Portuguese (Brazil), Portuguese (Portugal), Quechua, Rhaetoromanic, Romanian, Rundi, Russian, Samoan, Sardinian, Serbian, Serbian (Cyrillic)/Macedonian, Serbian English, Shona, Slovak, Slovenian, Somali, Sotho, Spanish, Sundanese, Swahili, Swedish, Tagalog, Tahitian, Tok Pisin, Tongan, Tswana, Turkish, Ukrainian, Waray, Wolof, Xhosa, Zapoteco							
<b>Global Professional</b>	Abkhaz, Adyghe, Afrikaans, Agul, Albanian, Altaic, Armenian Eastern, Armenian Grabar, Armenian Western, Awar, Aymara, Azeri Cyrillic, Azeri Latin, Bashkir, Basque, Bemba, Blackfoot, Bosnian/Croatian/Serbian (Latin), Breton, Bugotu, Bulgarian, Bulgarian English, Buryat, Byelorussian, Byelorussian English, Catalan, Cebuano, Chamorro, Chechen, Chukcha, Chuvash, Corse, Crimean Tatar, Croatian, Crow, Czech, Danish, Dargwa, Digits only, Dungan, Dutch, Dutch Belgium, Dutch Netherlands, English, English-UK, English-US, Eskimo Cyrillic, Eskimo Latin, Esperanto, Estonian, Evenki, Faroese, Fijian, Finnish, French, Frisian, Friulian, Gaelic (Irish), Gaelic (Scottish), Gagauz, Galician, Ganda, German, German New Spelling, German Old Spelling, Greek, Greek English, Guarani, Hani, Hausa, Hawaiian, Hungarian, Icelandic, Ido, Indonesian, Ingush, Interlingua, Italian, Kabardian, Kalmyk, Karachay Balkar, Karakalpak, Kasub, Kawa, Kazakh, Khakas, Khanty, Kicongo, Kikuyu, Kirgiz, Kinyarwanda, Koryak, Kpelle, Kumyk, Kurdish, Lak, Lappish, Latin, Latvian, Lezgin, Lithuanian, Luba, Luxembourgish, Macedonian, Macedonian English, Malagasy, Malay, Malinke, Maltese, Mansi, Maori, Mari, Maya, Miao, Minankabaw, Mohawk, Moldavian, Mongol, Mordvin, Nahuatl, Nenets, Nivkh, Nogay, Norwegian, Norwegian (Bokmal), Norwegian (Nynorsk), Nyanja, Occitan, Ojibway, Ossetic, Papiamento, Pidgin English, Polish, Portuguese, Portuguese (Brazil), Portuguese (Portugal), Quechua, Rhaetoromanic, Romanian, Romany, Rundi, Russian, Russian English, Russian Old Spelling, Samoan, Selkup, Serbian, Serbian (Cyrillic)/Macedonian, Serbian English, Shona, Sioux, Slovak, Slovenian, Somali, Sorbian, Sotho, Spanish, Sunda, Swahili, Swazi, Swedish, Tabassaran, Tagalog, Tahitian, Tajik, Tatar, Tinpo, Tongan, Tswana, Tun, Turkish, Turkmen, Tuvin, Udmurt, Ukrainian, Ukrainian English, Uzbek Cyrillic, Uzbek Latin, Welsh, Wolof, Xhosa, Yakut, Zapoteco, Zulu							
<b>Arabic</b>	Arabic, Farsi							
<b>Asian</b>	Chinese Simplified, Chinese Traditional, Japanese, Korean							
<b>Automatic Language Recognition is supported for the following languages</b>	Afrikaans, Albanian, Arabic, Aymara, Basque, Bosnian/Croatian/Serbian (Latin), Breton, Bulgarian, Byelorussian, Catalan, Corse, Croatian, Czech, Danish, Dutch, Dutch Belgium, Dutch Netherlands, English, English-UK, English-US, Estonian, Faroese, Finnish, French, Frisian, Friulian, Gaelic (Irish), Gaelic (Scottish), Galician, German, German New Spelling, German Old Spelling, Greek, Greenlandic, Haitian Creole, Hungarian, Icelandic, Indonesian, Italian, Latin, Latvian, Lithuanian, Luxembourgish, Macedonian, Malay, Norwegian (Bokmal), Norwegian (Nynorsk), Polish, Portuguese, Portuguese (Brazil), Portuguese (Portugal), Quechua, Rhaetoromanic, Romanian, Russian, Sardinian, Serbian, Serbian (Cyrillic)/Macedonian, Serbian English, Slovak, Slovenian, Spanish, Swahili, Swedish, Turkish, Ukrainian							