

**Introduction:**

There is a confusing variety of different ways (TYPES) for representing a 'Bitmap' in BlackBox. Each type has particular capabilities which complement each other. This Module implements some of these types, and provides some useful type transfer functions.

Useful type transfer combinations for reading and writing to file are pre-packaged in [CasketKeeper](#).

A (partial ?) catalogue of types is:

'TYPE'	Module	View ?	Comment ...
File	-	No	Types include '*.odc', '*.bmp', & 'General graphics'. General graphics is '*.bmp', '*.jpg', '*.png', & '*.tif'.
FIBITMAP	FreeUtils	No	Part of the Free Image package. Provides 'General graphics' reading & writing. Provides image manipulation functions. (Free Image implements other (View) types.)
HBITMAP	WinApi	No	Required for compatibility with Windows. Used to actually draw or print a <i>Bitmap</i> .
StdView / Model	HostBitmaps	Yes	'Native' BlackBox type. Provides '*.bmp' reading & writing.
View / BitMap	CpcBitmaps	Yes	Provides (Pac) compressed '*.odc' reading & writing.
Winmap	CasketBitmaps	No	Intermediate type supporting type transfer functions.
View / Bitmap	CasketBitmaps	Yes	Provides 'mouse operations' etc. Provides (Pac) compressed '*.odc' reading & writing.

Note:

- All View types can be displayed, printed, and saved to file in '\*.odc' (or '\*.pac') format.

The Type Transfer functions are:

Source	Destination	Procedure	Comment ...
*.odc	Any View	Menu 'Open'	
*.odc	CpcBitmaps.View	Menu 'Open'	Supports compression (Pac ?).
*.pac	Any View	Menu 'Open'	Provided Pac is installed.
*.bmp	HostBitmaps.StdView	HostBitmaps.ImportBitmap	Use Converters.Register.
*.png etc	FreeUtils.FIBITMAP	FreeUtils.Load	
FreeUtils.FIBITMAP	WinApi.HBITMAP	FreeUtils.FImageToHBitmap	
WinApi.HBITMAP	CasketBitmaps.Winmap	CasketBitmaps.NewWinmap	Fast
CasketBitmaps.Winmap	CasketBitmaps.Bitmap	CasketBitmaps.Winmap.ToBitmap	
CasketBitmaps.Bitmap	CasketBitmaps.View	CasketBitmaps.NewView	Fast

CasketBitmaps.Bitmap	CasketBitmaps.Winmap	CasketBitmaps.Bitmap.ToWinmap	
CasketBitmaps.View	CasketBitmaps.Bitmap	CasketBitmaps.View.bitmap	Fast
CasketBitmaps.Winmap	WinApi.HBITMAP	CasketBitmaps.Winmap.hBmp	Fast
WinApi.HBITMAP	FreeUtils.FIBITMAP	FreeUtils.HBitmapToFImage	
FreeUtils.FIBITMAP	*.png etc	FreeUtils.Save	
HostBitmaps.StdView	*.bmp	HostBitmaps.ExportBitmap	Use Converters.Register.
CpcBitmaps.View	*.odc	Menu 'Save'	Supports compression (Pac ?).
Any View	*.pac	Menu 'Save'	Provided Pac is installed.
Any View	*.odc	Menu 'Save'	
Any View	HostBitmaps.StdView	HostBitmaps.ViewToBitmap	
Any View	CasketBitmaps.Winmap	CasketBitmaps.ViewToWinmap	
Any View	CasketBitmaps.View	CasketBitmaps.ViewToNewView	
Any View	CpcBitmaps.View	CpcBitmaps.Copy	Does a screen 'Grab'.

Singleton    CpcBitmaps.View    Docu

First View    Prev = View    Next = View

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☐ CpcBitmaps.View    ☐ Fized shape  
☐ HostBitmaps.StdView    ☐ Resizeable

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Next View    Prev = View    Next = View

☒ CasketBitmaps.View    ☒ Inert    ☒ Fized size  
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