

# Smart Screen

Award winning screening  
for the Packaging industry

Smart Screen is an award winning Flexo and Letterpress screening solution that has been developed to produce visually superior tonal ranges in highlight and shadow areas.

Smart screen requires minimal changes to be made in Prepress or in the Press room - either in process or hardware changes. As a consequence, it make jobs easier to prepare and easier to print in the Press room.

It is available as a stand-alone application or as a module within MaxPro and produces screened raster files which are compatible with both standard and high resolution imaging devices.

Smart Screen uses an innovative approach to address age-old issues associated with Flexo and Letterpress platemaking.

The resultant 1 Bit Tiff files produce smooth gradients down to 1% with highlight dots which are stable on plate and on press.

The Isi RIP provides a user-friendly interface that manages both incoming jobs and file processing. Output resolutions range from 2,000 dpi through to 4,800 dpi, with support for screen rulings of between 25 lpi and 220 lpi (10 lpcm - 85 lpcm).

As well as providing standard calibration menus which allow for various combinations of plate and press characteristics to be compensated for, the Isi RIP also controls the amount of Smart Screen applied to jobs.

Users also have the facility to determine the point Smart Screen is applied to both highlight and shadow tonal ranges.

After file processing, the resultant 1 Bit Tiff file can be transferred to the imaging device station for exposure to plate.

As a consequence, Smart Screen fits easily into existing workflows with minimal changes.





## Surface Cell

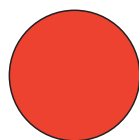


Another standard software feature to be found in the Isi RIP is Surface Cell technology.

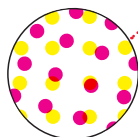
The Surface Cell feature generates a micro texture pattern on the raster file which when exposed to plate, assists in producing a higher and more efficient ink transfer in solid and shadow areas.

Again, there is also the facility for users to determine at which point the Surface Cell texture should be applied to the image area.

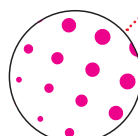
Used in conjunction with Smart Screen, it helps to improve quality in a wide range of print processes such as carton print, corrugated, labels and flexible packaging.



Surface Cell for efficient ink laydown and high density solids on the final print.



High resolution raster files deliver sharp, accurate dots and text at platemaking stage.



Smooth gradients down to 1% with dots which are stable on plate and on press.



### Input formats

- RGB/CMYK Tiff
- PostScript Level 1, 2 & 3
- PDF 1.1 - 1.7
- PDF/X-1a:2001  
PDF/X-3:2002/3 /X-4 &/X-4p
- DCS, DCS2, EPS



Innovation in PrePress  
Winner 2012

### System requirements

- Running on Mac OS 10.8 and above, Smart Screen is optimized for Quad Core or 6 Core Intel processors.
- Recommended hardware (minimum) - 8GB RAM, 200GB spare hd capacity, 100 Base T Ethernet.

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