

How to make a User Defined Mask (SMARTMark or UV Watermark)

To print a user defined mask with overlay or 'F' (YMCFKO) UV ribbon

- A "User Defined Mask/Card" is an anti-forgery protective feature in IDP SMART Drivers. This feature makes SMART printers more secure by printing user definable images that are not easily seen by the untrained eye. The SMARTMark O panel feature is visible in normal light, but only at extreme card angles. The UV ribbon feature is only under visible ultra-violet light.
- To create a User Defined Mask/Card you must create a bitmap file (bmp file) of the image you wish to print on the card. The simplest way to create this is in MS Paint. Resize the MS Paint screen to a CR80 card size of 1012 pixels width and 636 pixels height. The SMART driver uses the RGB values of objects in a "user defined mask/card" to distinguish which panel to use to print the image.
- R value is for Overlay (O) panel. Value 'O' means enabled and value '255' means deactivated
- G value is for printing (YMCK) panel. Value '0' means enabled and value '255' means deactivated
- B value is for Fluorescent (F) panel. Value '0' means enabled and value '255' means deactivated
- 0 = ON, 255 = OFF
- R value '128' means 'SMARTMark Overlay". The Print head applies heat more than a normal overlay in that area.

	Activated	deactivated	SMARTMark
Red (Overlay)	0	255	128
Green (Printing, YMCK)	0	255	N/A
Blue (F, UV)	0	255	N/A

- Blue = RGB (0, 0, 255) : printing YMCK and overlay, no UV
- Pink = RGB (255, **0**, 255) : printing YMCK only, no overlay, no UV
- Purple = RGB (**128, 0**, 255) : Printing YMCK and overlay watermark, no UV
- Black = RGB (**0**, **0**, **0**) : printing YMCK, overlay and UV printing
- 3. To make a User Defined Mask/Card in MS Paint:
 - (1) Click Start, click Accessories folder, and then click Paint.
 - (2) On the File menu, click Properties and then input "1012" into the value of Width and "636" into the value of

Height.

(3) Click Edit colors in the menu bar and input "0" into Red value, "0" into Green value, and "255" into Blue

value. (See Pic. 1)

(4) Click the Fill with color button and click somewhere in an image background, then color changed blue. (See

Pic. 2)



🧭 🔒 🦻 🦿 = Untitled - P	Paint — 🗆	🧭 🔜 🄊 🥂 🖛 Untitled - Paint	-	• ×
File Home View		File Home View		~ 🔞
Clipboard Image 7 Q Tools	Brunhes State State Color Color Colors	Cleptocard with Colors	Edit with Paint 3D	Product alert
	Edit Colors ×			<u>^</u>
	Base color: Cutom color: Cutom color: Define Cutom Colors 30 OK Cencel Add to Cutom Colors			
a. 10	1012 x 636m	± 275 127mv 1□ 1012 × 626mv 100% □		,
+ '4	100 / O /			. 🐨





(5) In case of 'SMARTMark Overlay'

- a. Click Edit colors in menu bar and input "128" to Red value, "0" to Green value, and "255" to Blue value.

(Color : Purple)

- b. Design objects or text in purple are for printing with the O panel to create a SMARTMark. For example, the text "SMARTMark Overlay" is printed on Overlay panel. (See Pic. 3). X You have to save as a bitmap file.

(.bmp file)



[Pic. 3]

[Pic. 4]

(6) In case of 'UV Watermark' (The YMCFKO panel should be used.)

- a. Click Edit colors in menu bar and input "0" to Red value, "0" to Green value, and "0" to Blue value. (Color :

Black)

- b. Design objects or text in black are for printing with the fluorescent (UV) panel. For example, the text "UV



watermark" is only printed with the F (UV) panel. (See Pic. 4) 💥 You have to save as a bitmap file. (.bmp file)

- (7) Go to the printer driver, right-click to 'Printing Preferences', click on the 'Printing' tab. In the 'Media' field, select the option 'User Defined Mask'. Browse for the bitmap image and select it for each side of the card you would like to apply the user defined mask to. Apply the change and click ok to close the driver window.
- (8) Open the ID image you would like to print, click on print setup and validate that the printer settings show the user defined mask bitmap file selected. Click print to print the image with the user defined mask applied to the card.
 - (9) Validate the latent overlay or UV by viewing the card under a light source. Example: direct light for overlay,

Card Printer F	Printing Preferences			×
Layout Input / C	Output Printing Load/Sa	ive		
Do Printing Print Side Side(S) :	Тор		~	
Front		Back		
Color(C):	Color ~	Color(C):	Color \sim	
Flip :	Not Use \sim	Flip :	Not Use \sim	
Media:	User Defined Card $\!$	Media:	Standard \sim	
Mask: UV V	vatermark Watermark V watermark UV watermark	Mask:		
Printing				
Ribbon(R):	YMCKO ~	Speed(S):	Normal \sim	
Mode(M):	Partial (Print Area) 🗸 🗸	Dither(D):	Diffusion Dither \sim	
Ribbon Save:	Ribbon Split - No \sim	Anti Aliasing:	Level 2 \vee	
			OK Cancel	Apply

Black light for UV.

[Pic. 5]