



GLScan[®]
FP and SP
Gellifter imaging systems

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For over a decade the GLScan systems have proven to be an excellent tool for imaging marks on black Gellifters, even marks which do not appear to be present when the lifter is examined with the naked eye. Two models are available: the GLScan FP developed for fingerprint departments and the GLScan SP for footwear or imaging departments.

Camera

The scanning units are fitted with a highly sensitive CMOS camera. The camera in the SP unit scans the Gellifters at a resolution of over 1000 ppi. The FP unit even scans at a resolution of over 1350 ppi which makes 3rd level detail in fingerprints clearly visible. Images obtained with the GLScan SP and FP can be loaded into most automated fingerprint and palm print identification systems (AFIS and APIS).

Light sources

For the GLScan FP and SP imaging systems a LED light source was developed to illuminate the Gellifter during scanning. These LED light sources provide for an even illumination of the entire surface of the Gellifter. The SP system contains two light sources almost coaxially illuminating the surface.

Depending on the kind of mark lifted, this can be a very faint dust mark or a highly reflective fingerprint powder, one or two lamps can be used. In addition the intensity of all LED lamps are fully adjustable.

The high intensity light enables the camera to work with shorter exposure times while delivering an excellent image within less than a minute.

In the SP scanning unit a third LED lamp is available providing near to oblique illumination. This lamp is intended to be used when scanning marks on Gellifters of which most of the reflective black gelatin surface is covered with dust.

The variable exposure time and adjustable light intensity allows for imaging of nearly invisible marks to highly contrasting marks on the black Gellifters: from faint dust marks or direct lifts of latent marks, to those developed with cyanoacrylate, to marks developed with silver coloured fingerprint powders.

The control software for the GLScan FP and SP system is as easy to use as the acclaimed software used to control the original model. The GLScan software now comes with a host of new features like:

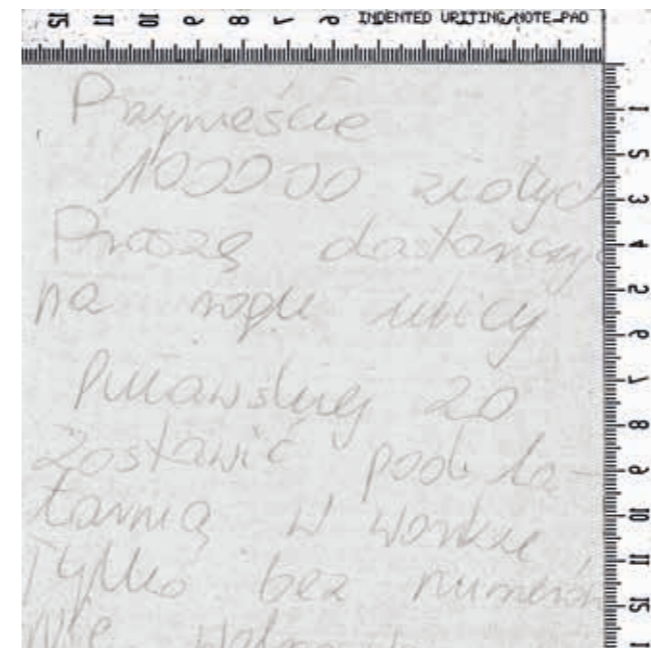
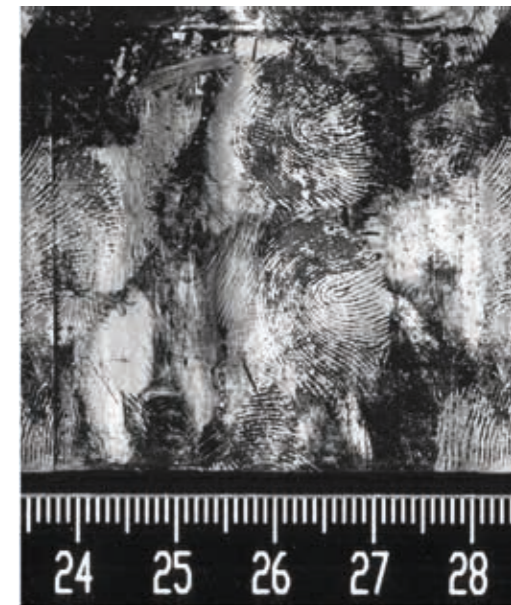
- Bi-directional scanning for instant re-scanning of the Gellifter at optimal exposure and illumination settings calculated by the software.
- Real time adjustment of illumination and exposure settings. These parameters can be adjusted during scanning while the image builds up on screen. This helps find the right settings while the scan is in progress, subsequent use of the bi-directional scanning facility shortens the time needed to get the best final image.
- Image enhancement features such as invert, rotate, flip, histogram and brightness and contrast adjustments.
- Image comparison tool which allows the operator to compare two images side by side.

The GLScan imaging system consist of either the GLScan SP or FP scanning unit, a Windows operated PC, a large 30" monitor, a vacuum pump and vacuum table(s) for scanning Gellifters from 5 x 5 cm / 2 x 2" to 18 x 36 cm / 7.2 x 14.4".

The GLScan FP system is supplied with a single vacuum stage for Gellifters from 5 x 5 / 2 x 2" cm to 13 x 18 cm / 5.2 x 7.2".

Software features

FINGERMARKS ON A AA SIZE BATTERY DEVELOPED WITH CYANOACRYLATE. BATTERY WAS THEN ROLLED OVER A BLACK GELLIFTER. AFTER LIFTING THE MARKS WERE EASILY IMAGED AND SHOW UP IN GOOD CONTRAST.

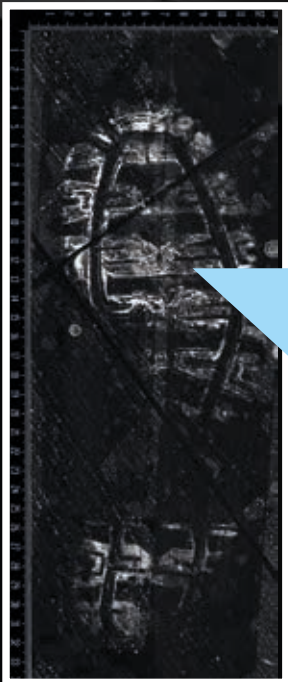


INDENTED WRITING LIFTED WITH A BLACK GELLIFTER FROM A NOTE PAD. IMAGE IS INVERTED AND FLIPPED.

GLScan®SP

Gellifter imaging system for

- **Fingermarks**
- **Footwear impressions**



Wet origin footwear impression on a tile floor lifted with a black Gellifter, image captured with GLScan SP.

The GLScan SP imaging system is our most versatile imaging system for Gellifters. The system allows for scanning Gellifters as small as 5 x 5 cm / 2 x 2" up to full size Gellifters of 18 x 36 cm / 7.2 x 14.4" intended for lifting of footwear marks. This system is the ideal choice for footwear examiners as well as imaging departments providing their services to both the fingerprint and trace evidence departments.

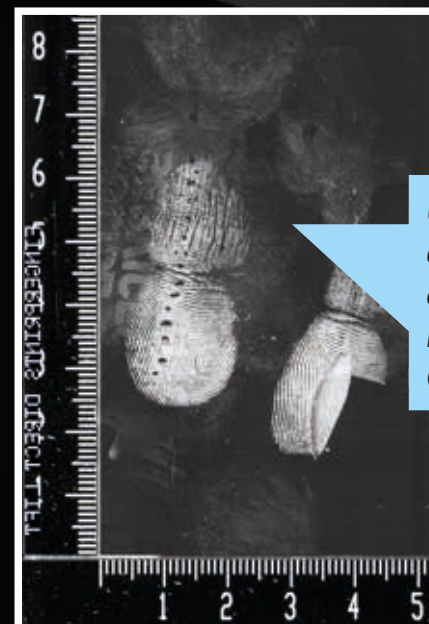
FEATURES:

- Auto Exposure
- LED light sources with variable light intensity
- LED light source for near oblique illumination
- Image enhancement tools
- Instant re-scanning of marks increases efficiency
- Real time adjustment of exposure and illumination settings
- Settings Wizard and Assistant to obtain the right image in a single scan
- Image enhancement tools
- On screen comparison of images

GLScan® FP

Gellifter imaging system for

- Fingermarks
- Palm marks



Undeveloped fingerprint directly lifted from a coffee cup with a black Gellifter, image scanned with GLScan FP.

FEATURE	FP	SP
High angle LED light source with adjustable intensity	1	2
Low angle LED light source with adjustable intensity	–	1
Low angle diffuse illumination	1	–

Preset scan sizes:		
5 x 5 cm / 2 x 2"	*	*
5 x 10 cm / 2 x 4"	*	*
7,6 x 10 cm / 3 x 4"	*	–
9 x 13 cm / 3.6 x 5.2"	*	*
13 x 18 cm / 5.2 x 7.2"	*	*
13 x 36 cm / 5.2 x 14.4"	–	*
18 x 36 cm / 7.2 x 14.4"	–	*

Full resolution scan	> 1350 PPI	> 1000 PPI
Custom resolution	1000, 800, 500 and 300 PPI	
Standard file formats in automatic storage mode	TIFF and/or JPEG	
Other file formats manual storage	most Windows image formats	

GLScan software suite	*	*
PC running Windows OS	*	*
30" monitor	*	*
Vacuum pump	*	*

Dimensions scanning unit (W x D x H)	66 x 45 x 57cm 26.4 x 18 x 22.8"	102 x 53 x 66cm 40.8 x 21.2 x 26"
Mains power scanning unit, PC and monitor	100 - 240V, 50 - 60 Hz	100 - 240V, 50 - 60 Hz
Mains power vacuum pump	120V / 60 Hz or 240V / 50Hz	120V / 60 Hz or 240V / 50Hz



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