Mailpiece Tracking

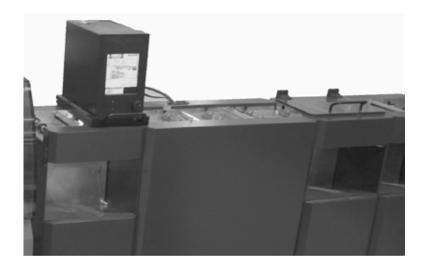### A simple solution for a complex problem

New technological capabilities and higher quality standards for output centers in general creates the demand of a fully documented production workflow.

To make this possible, SkySoft offers an easy way to introduce a quality control checkpoint at the end of an enveloping machine and thereby documenting all passing „good" mail pieces. The system compares this production to the planned production and finds discrepancies on the spot.

SkySoft is in the market of automated visual quality control systems and mail piece tracking for more than 15 years and has it made its mission to enable customers to realize a fully integrated closed loop production systems with the least possible effort.

Skysoft is independent of the supplier of the enveloping machine.

The usage of the HS94 system makes mailpiece tracking very easy:

The HS94 ist a 12 inch by 6 inch by 12 inch (300mm*150mm*300mm) box, which can installed directly over a diverter of an enveloping machine.

Everything is included: Camera, light, computer, machine interface and a user display with either joystick or touch.

This system is very easy to use while still offering maximum functionality.

SKYSOFT
imaging

Specifications

Reading System HS94/Master

System case made out of annodized aluminium, dimensions are 12 inch by 6 iunch by 12 inch (300mm*150mm*290mm (h*w*d))

Recording unit:
- High speed line scan camera, fully protected encapsulated against touch and dust
- Camera can als be integrated without the larger box, then the dimensions are 4 inch by 3 inch by 3 inch (h*w*d) (100mm * 75 mm * 75mm)
- Camera-Line max. 2048 pixel
- LED light, specially optimized to read through envelop windows
- Line frequency up to 48 kHz (variable)
- 4 inch up to 12 inch reading zone (optics, light)
- 1 inch distance light / object (optics, light)
- 150-450dpi (variuable thru optics)
- Speed up to 300 inches per seconds (8m/sec) (150dpi)

Processing unit:
- Core i7
- 8 GByte RAM, 80 GByte SSD RAID-1 array
- Fully enclosed fan-less design using heatpipes for thermal transfer
- Joystick or touch screen for easy-to-use operation
- Windows 7 Professional 64
- TFT Bildschirm 6,5" mit 640x480 Pixel portrait mode
- or optional: 15" or 22" TFT screen with touch screen
- 4 * 10/100/1000 Mbit Ethernet interface, connection for up to 3 slave units (HS94/Slave)
- 4 * RS232 Schnittstelle (2 can be used for RS485)
- I/O in the recoding unit: 8 bit input, 8 bit output, 24V, PLC for simple control purposes included(i.e. diverter)
- Power supply external 24 volt

General:
- Easy to integrate, no light switch for triggering necessary - triggering is possible

Software Specifications

Image processing:
- Modern high speed OCR, no teaching necessary
- Up to 30,000 letters / h
- Latency times under 50ms
- All „normal" barcodes, OMR also possible
- 2D-codes are supported, binary content supported (non-printable characters)
- QVCSVision software framework
- High performace memory database
- Online documenation of pictures of all letters - without influencing the system performance
- Modern 3-tier client/server application, multi-threaded, 64 bit support
Functionality:
- Documentation and storing in an archive
- Target/actual production comparison, online or offline, printing of protocols, sequence control
- Detecting and discarding of double production - bei usage of a central database also over more than one camera
- Checking of the postal address
- Discarding of „previously marked" letters
- Printing of production protocols in PDF-format - images of letters can be included
- Possibility to integrate discard trays
User interface:
- Windows application for small or large screens available (joystick or touch)
- User interface is realized using TCP/IP and can be executed on a different PC
- Remote control
Documenting:
- Fax-G4, one job with 30,000 envelopes is approx. 120MB large
- Images and data are stored in data containers, containg 1000 envelopes each
- Web-interface available
- Central server available to control multiple reading systems (i.e. produce one job on more than one system at a time)