SMI GROUP

MarKo Line

MK10

MM MK10 MM

Mar**K**o Line…new generation of digital minilabs!

MarKo Line is a new modular expandable line that offers you different models of digital minilabs to choose from…the right choice for your present and future needs! The Line provides you the capacity and the formats you need for your business.

The distinctive features of the new MarKo line are:

Small footprint, large performance •
Maximum image quality, minimum makeovers •
More flexibility, less operator training •

…and the proprietary Swiss made LCD printing technology.

SMIGROUP

MAXIMUM COMPACTNESS

STATE-OF-THE-ART TECHNOLOGIES

EXTREME MULTITASKING AND VERSATILITY

W/W RENOWNED COLOR SCIENCE TECHNOLOGIES

UNIQUE USER INTERFACE

HIGH MODULARITY

MarKoLine

MWMK10
WWM

Maximum Compactness

Great performances and high-space economy: both in a digital minilab!

MK10, the top-of-the-new MarKo line, is a high performance digital minilab that occupies only 14 sq.ft. (1.3 m^2).
Its extremely compact architecture allows greater flexibility and makes the perfect choice for retailers with floor space restriction. In addition, it can be connected with in-store terminals to increase the overall system efficiency and facilitate business growth.

A film and paper processor, a high capacity film scanner, a digital printer, a workstation are included in one single unit.

Small footprint…great performances!

1,000 p/h

Max Format:

12x18"
(30x45 cm)

from either digital input or conventional films

Footprint:

14 sq.ft.
(1.3 m^2)

As a high-capacity digital minilab, **MK10** produces 1,000 p/h 4x6" (10x15 cm). It is also set up to produce large-size prints up to format 12x18" (30x45 cm) – enabling you to offer services to all segments of the market. Even at large dimension the prints have beautiful image quality and crystal-clear resolution.

State-Of-The-Art Technologies

Proprietary Swiss made LCD/LED

At the heart of **MK10** is the proprietary Swiss made LCD printing technology, enriched with the highly reliable LED lighting system.

This innovative technique ensures an extremely accurate pixel structure that practically eliminates overlapping of adjacent pixels. It is designed to produce all types of prints in premium quality for maximum productivity.

A high-resolution LCD ensures a resolution of 500 dpi (4″) resulting in very homogeneous and highly contrasted pictures. Even for 12″ enlargements, 300 dpi of resolution is guaranteed.

This state-of-the-art technology is very stable and reliable, rarely requiring maintenance.
In addition, the LED light source, compared to regular lamps, lasts longer. Therefore, it increases your work-flow efficiency, leading to reduced failures and service costs.

LCD printing system

Maximum Quality….minimum makeovers!

The consistent and steady LCD printing technology together with automatic image enhancement and the unique software interface assure hands-off operation. This results in fewer rejects, first-run quality prints and more time for your customer.

SMI Group digital imaging technologies make the difference in quality output!

RESOLUTION
300 DPI
AT 12″

Extreme Multitasking and Versatility

Business-building opportunities in real time

MK10 is the only minilab equipped with multitasking software that allows you to make many operations and CD burning simultaneously without affecting machine speed.

While processing an order the attention can be directed to the next one or to other specialty services. On the same equipment, of course, because **MK10** includes everything in one single unit and performs all services in real time.
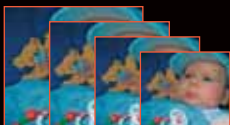
Films

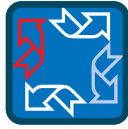Digital Cameras

Digital Media

INPUT

OUTPUT

Prints

Digital Services

Digital Writing Services

Extreme Multitasking and Versatility

Business-building opportunities in real time

MK10 helps you satisfy the whims of your customers simply and quickly: calendars up to 12x18″ (30x45 cm) with individual pictures, a distinctive border around the most promising photos, conversion of color images to B&W…
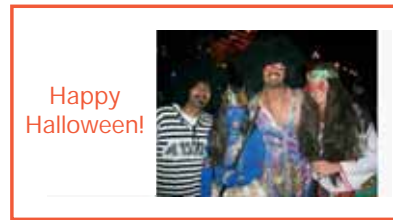the possibilities are boundless!

Built-in CD-burning in real time

Frames and Calendars

Text Addings and Greeting Cards
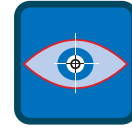

Happy
Halloween!

Cropping

Automatic red-eye removal

W/W Renowned Color Science Technologies

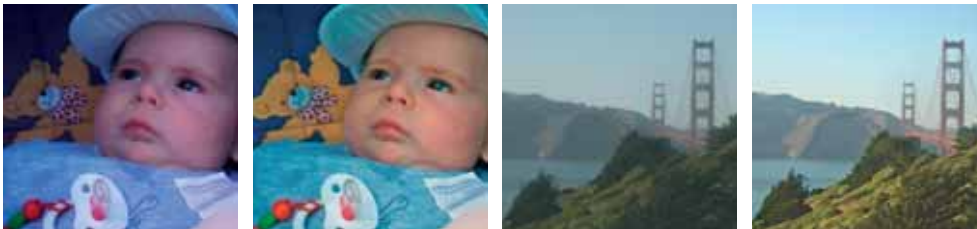## Unrivalled expertise in color science

The jewels of SMI Group technologies - image enhancement and scanning technology - are fully embedded in **MK10**. SMI Group's undisputed know-how in color science is now applied not only on films but also on digital files.

Responding to the growing number of digital images, an innovative technology has been developed specifically for automatic corrections on digital files. Based on the unmatched results obtained on films with the **Eye-Tech Scanning™** and **LODECO™** technologies the new **d!pep™** assures automatic correction and enhancement on images coming from digital files.

d!pep™: Digital Picture Enhancement Process
Automatic corrections - instead of endless tweaking - provide superior quality for all consumers: no specialist's expertise needed.
Without requiring the operator's attention it helps keep your minilab busy and your staff free to take care of customers!

Detects & enhances skin tones   Enhances pictures with vegetation and sky

Trained on more than 40,000 hand-corrected images and already tested on millions of images in leading labs, d!pep is the ideal solution for making digital images perfect! Based on an advanced image content analysis and thanks to global and local corrections, all essential aspects of images are automatically enhanced: colors become more brilliant and natural; color casts due to white balance failures are removed. Automatic black and white point selection improves the overall contrast; flat images regain their vividness. Local contrast correction reveals hidden details in shadows and simultaneously brings back lost colors in the highlights. With d!pep digital images become more pleasant, more expressive and closer to reality - automatically!

Boosts both overall and local contrast

W/W Renowned Color Science Technologies

Unrivalled expertise in color science

- **Eye-Tech Scanning**™ technology and **LODECO**™ **(LOcal DEnsity COntrol)** are the only reliable solutions for automatic corrections on films to make your image perfect.

- **Eye-Tech Scanning**™ technology guarantees reliable analysis for optimal image rendering: even difficult-to-print images are automatically corrected.

with standard film correction

with Eye-Tech Scanning™

- **LODECO**™ **(LOcal DEnsity COntrol)** assures unfailing control of flashlight, back-light, image sharpness and contrast.

Boost both overall and local contrast

Recovers details both in shadows & highlights

Unique User Interface

Intuitive icon-based user interface for easier operation

A 15″ LCD touch screen monitor (standard) with unmistakable icons increases operating comfort and the unique, proprietary software interface guarantees easy operation with minimal training. Time-consuming explanations belong to the past: when processing a new order, only two buttons are needed! No complicated procedures are required to operate the minilab. Simply clicking the appropriate icon on the main menu screen enables you to provide whatever digital service you choose. This simplicity helps to enhance the work-flow.
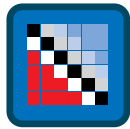
Simple & Efficient!

The overall intuitive system improves workflow management and optimizes the entire operation cycle. Procedural steps and optional choices are laid out clearly on the screen with help provided for every step of all operations. Continuous diagnostic information is available on **MK10** in real time: potential problems triggering an onscreen alert can be dealt with as quickly as possible. Remote diagnostic procedures allow you to check operator messages and view statistical data.

Dual Paper Magazine (standard) for Smooth Operation & Handling

By loading rolls of different widths the standard built-in dual paper magazine makes it easier and quicker to switch back and forth between sizes. When loaded with the same paper width, it allows smooth continuation of printing without interruptions to change paper.

State-Of-The-Art Technologies

Save time while adding professionalism!

The high-speed and high-resolution F335 film scanner ensures high quality pictures at first run and reduces makeovers. The high-quality 16-bit Film Scanner reveals all the image details at a speed of 42 rolls/hour (medium resolution). It accepts 135 film, black and white film,135 color reversal film and APS film.

The scanner automatically reads the DX code from 35mm film ensuring the correct frame numbering.
Higher flexibility is provided by scanning capabilities at multiple resolution up to 2000x3000.
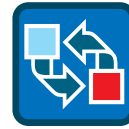
In addition, the standard Digital ICE™ software is automatically applied to remove undesired dust and scratches on the film. This technology uses infrared light to pinpoint any elements of dust and scratches and automatically corrects them by extrapolating image data from the surrounding area.
The combined use of digital ice and red-eye correction permits even higher quality printing.

High Modularity

Great and useful options for your choice

FILM PROCESSOR

Feel free to decide whether to have a film processor on board and take advantage of an all-in-one minilab…or just use your already existing processor to optimize your equipment

FILM SCANNER

A range of 3 possible units:
Pakon F335 (standard) •
Pakon F335 C, •
with magnetic code reader
Capri Scanner, •
with automatic film recognition
(135, APS, 110)

MONITOR

A range of 3 possible units:
17″ LCD touch screen •
15″ LCD touch screen (standard) •
15″ CRT •

PAPER MAGAZINES

Built-in Dual Paper Magazine (standard) to increase efficiency eliminating loss of paper upon switching magazines. At your choice, in alternative, the Single Paper Magazine.

CONSOLE

Internal or external replenishment console at your convenience.

FORMAT

Wide variety of print formats (standard): from 3,5x5″ (9x13cm) up to enlargements 12x18″ (30x45cm). Don't need the enlargements? Don't request it!

MK10. Technical Specifications.

Film Processor
Chemical Process: C-41 RA NP
Technology: LVTT (low volume thin tank)
Film Formats: 110, 135, 120, and IX-240 (APS)
Processing Capacity: 40 rolls per hour (135-24)
Chemistry Level Control: Automatic evaporation compensation

Film Scanner
Film Formats: 135 (color reversal, B&W classic, B&W chromogenic, negative)
                                     APS, APS cartridge
Scanning Capacity: 1500 frames/hour @ 8 base (1400x2100 ppi) with Digital ICE™ for 135 film
Scanning Method: Linear CCD
Resolution: 135: 2000x3000 pixels max
                                     APS: 1714x3000 pixels max

Dust & Scratch Removal: Automatically done with Digital ICE™ software
Image Viewer: Automatic image viewer of film frames saved on CD

Digital Media
Digital Input/Output: Compact Flash™, Smart Media™, Sony Memory Stick, SD, MMC, xD,
                                     USB memory stick, DVD, CD-R/RW, ZIP, Floppy Disk, Internet, LAN

Image Data Management
Automatic Correction & Optimization d!pep™ for digital picture enhancement
                                     Eye-Tech Scanning™ for under/overexposure, color shift, artificial light
                                     LODECO™ (LOcal DEnsity COntrol) for contrast and sharpening
Buffer Storage Capacity: 160 orders (135/24 exp. @ high resolution)
Composition Tools: Text, frames, calendars, packages, passport prints, greeting cards,
                                     cropping, automatic red-eye removal

Printer
Technology: LCD with LED array illumination
Resolution: 500 dpi at 4″ – 300 dpi at 12″
Print sizes: From 3.5x5″ (9x13 cm) up to 12x18″ (30x45 cm)
Capacity: 1,000 prints per hour 4x6″ (10x15 cm)
Monitor: 15″ Touch screen LCD monitor
PC: Built-in

Paper Processor
Chemical Process: RA-4 NP
Technology: LVTT (low volume thin tank)
Paper Transport System: Single Sheet
Replenishment System: Internal or external
Chemistry Level Control: Automatic evaporation compensation

Accessories
Dual Paper Magazine: Included
Back-Printing Unit: 2-line impact printing unit, max. 40 char. per line
Densitometer: Built-in (SSR Macbeth)

System
Footprint: 1.3 m² / 14 square feet
Dimensions (mm):   1560 (L) x 1370 (W) x 1975 (H) mm
Weight: 600 kg (empty), 670 kg (with chemicals)
Power Requirements: 220V/240V single or three phase (50-60 Hz)
                                     380V/415V three phase neutral (50-60 Hz)