DTM Medical
Product Overview

A Complete Identification Solution

On-Slide and Direct-To-Cassette Printing With Fully Integrated PTLab™ Software

Primera's Signature Slide and Cassette Printers with integrated PTLab™ software can significantly increase your lab's efficiency while helping to reduce the risk of specimen misidentification. Labs can now print directly onto slides and cassettes, even in colour, eliminating handwriting or expensive and difficult-to-apply labels. Print text, graphics and logos, along with 2D bar codes, making workflow more efficient while increasing patient safety.

Minimize Risk.
Maximize Efficiency.
Even with their high-resolution, full-colour printing capabilities, Primera's Signature Printing Solutions cost less than all other monochrome-only slide and cassette printers currently available. Small and space-efficient, you can likely afford – and almost certainly cost-justify – an on-demand manual cassette

at the grossing stations and a slide printer at each microtome workstation. By placing printers at each station, you'll reduce or even eliminate mishandling and subsequent error rates. Workflow becomes more efficient, saving you time and money by inventorying only white slides and white cassettes.

A FULLY INTEGRATED SYSTEM FOR IMPROVED EFFICIENCY

SPECIMEN →

YOUR LIS

PTLab™ SOFTWARE

Features & Benefits

For Primera Signature® Slide and Cassette Printing Solutions

- On-demand, black or colour printing

- Prints directly on slides or cassettes – eliminates handwriting or difficult-to-apply labels

- Chemical-resistant ink – ensures reliable identification of slides or cassettes

- PTLab™ Software – included software ensures that the exact information you require gets printed every time; optional Pro version allows configurable input/output data streams to the LIS systems

- High-speed USB 2.0 interface – ability to integrate with Laboratory Information Systems

- Small footprint – slide printer and manual cassette printer fit perfectly at the workstation

- Reduce inventory and purchasing activity – your inventory of multiple slide colours and cassettes can be eliminated, since you can now print colours

- Thermal-transfer printing at razor-sharp 300 dpi

- On-demand or batch mode printing

- Very low noise emission

Robotic Feed (SCP-R)

Primera's Signature Cassette Printer can significantly increase the efficiency of your lab while helping to reduce the risk of misidentification of specimens. You can print text, graphics and logos along with linear and 2D bar codes directly onto the face of the cassettes, making your workflow more efficient while increasing patient safety.

2 operating methods of the Signature cassette printer are possible:

Labs can first purchase a manual printer and later upgrade that printer with robotics to make it a completely automated system. The small size of SCP-M allows labs to place a direct-to-cassette printer at each grossing station.

Robotic Version

Up to 160 cassettes are automatically loaded by the robotoc. Print speed is extremely fast at about 8 seconds per cassette.

Key Features and Benefits

- Modular Design, the Signature Cassette printer can be installed on in seconds

- 160 cassettes capacity for on-demand or batch mode printing

- 4 transparent cassette hoppers with 40 cassettes capacity each

- Feeds standard cassettes with 35° to 45° angles with either lid on or lid off, no adjustments needed

- Output capacity: 7 cassettes expandable by ten up to 47 cassettes with external transporter carriers which also can be used to carry the job to the processing table

- Speed up to 8 cassettes per minute

- Extremly quite operation

- LCD Display for status messages and fill capacity levels with 4 cross button user interface

- Environment friendly lowest energy consumption in the market and recyclable non hazard materials

Easy to Use

Signature is designed for efficient, hands-free operation. Taped cassettes are easily loaded into individual hoppers. The level of cassettes remaining is easily viewed through the front of the hopper's transparent blue LED backlit case and is displayed on the LCD screen.

Add Several Configurations

Printers are available for 3rd party integration as well as in complete, stand-alone systems which include printer, software, scanner, keyboard, mouse and mini-PC.

SPECIFICATIONS	AUTOLOADER
Printing technology:	Thermal transfer
Print speed (cassettes/minute):	Up to 8 (monochrome) Up to 5 (solid colours) Up to 4 (process colours)
Print resolution:	300 dpi
Ink type:	Resin thermal transfer
Ribbon types:	CMYK: 550 prints, Black: 4300 prints
Printable colours:	8 solid colours; plus pattern options
Cassette types:	Prints on standard smooth-faced cassettes with 35° to 45° angles with either lid on or lid off, no adjustments needed
Autoloader capacity:	4 hoppers with 40 cassettes each = 160 Total
Output tray capacity:	7 cassettes / 17 with extension tray
Construction:	Steel frame with powder-coated steel covers
Cabinet colour:	Medical white
Data interface:	USB 2.0 compatible
Printer drivers:	Windows™ 7/10
Height:	490.2 mm
Width:	304.8 mm
Depth:	657.9 mm
Weight:	33.6 kg
Power requirements:	100-240 VAC, 50/60 Hz, 60 watts
Warranty:	Two years warranty (after product registration within 6 months)

Manual Feed (SCP-M)

Signature Cassette Printer is available as a stand-alone, manual printer or as a fully automated, complete system.
Labs can first purchase a manual printer and upgrade that printer at a later time with robotics to make it a completely automated system.

Manual Version

One cassette is manually loaded at a time. Print speed is extremely fast at about 6 seconds per cassette.

Key Features and Benefits

- On-demand, full-colour or black printing text, graphics, linear and 2D Barcodes

- Reduce inventory hassle of various coloured cassettes by using just a white cassette and print with color

- Print speeds at up to 9 cassettes per minute

- Prints on standard cassettes with 35° to 45° angles with either lid on or lid off, no adjustments needed

- Virtually silent while printing

- No smell or smoke and no venting needed

- Chemical and UV resistant print to withstand processes, commonly used in laboratories. Even after several years cassettes can be reliably identified

- Free PTLab Software – template-driven software for your individual design and data workflow and configurable data stream connection to LIS systems

- USB Interface for easy direct connection to Windows based PC´s and Tablets

- Environment friendly lowest energy consumption in the market and recyclable non hazard materials

SPECIFICATIONS	MANUAL PRINTER
Printing technology:	Thermal transfer
Print speed (cassettes/minute):	Up to 9 (monochrome) Up to 6 (solid colours) Up to 5 (process colours))
Print resolution:	300 dpi
Ink type:	Resin thermal transfer
Ribbon types:	CMYK: 550 prints, Black: 4300 prints
Printable colours:	8 solid colours; plus pattern options
Cassette types:	Prints on standard smooth-faced cassettes with 35° to 45° angles with either lid on or lid off, no adjustments needed
Autoloader capacity:	none
Output tray capacity:	1 cassette
Construction:	Steel frame with powder-coated steel covers
Cabinet colour:	Medical white
Data interface:	USB 2.0 compatible
Printer drivers:	Windows™ 7/10
Height:	244 mm
Width:	222 mm
Depth:	244 mm
Weight:	7.5 kg
Power requirements:	100-240 VAC, 50/60 Hz, 60 watts
Warranty:	Two years warranty (after product registration within 6 months)

Primera Signature® Slide Printer
Printing Slides On-Demand Reduces Errors and Increases Efficiency

Primera Disc Publisher and Disc Printer
For Healthcare Industry and Laboratories

Primera's Signature Slide Printer can significantly increase the efficiency of your lab while helping to reduce the risk of misidentification of specimens. It prints directly onto slides, eliminating handwriting or expensive, difficult to apply xylene-resistant labels. With impressive 300 dpi print resolution, you can print text, graphics and logos along with high-resolution linear and 2D bar codes on every slide you process.

Signature is also the world's first and only COLOR slide printer. This revolutionary feature lets you purchase and keep inventory of only one slide colour – plain white. With Signature, you can print a wide range of colours and patterns for faster identification.

Key Features and Benefits
- On-demand, full-colour or black printing text, graphics, linear and 2D Barcodes
- Reduce inventory hassle of various coloured slides by using just a white Slide and print with color
- Print speed up to 9 slides per minute
- Output capacity: 15 slides internally / unlimited externally
- 100 slide capacity cassettes with programmable identification chip and slide counter
- Prints directly onto slides – eliminates handwriting or labels that are hard to apply and can potentially fall off or cause jams in your slide processing instruments
- Small footprint – fits perfectly next to the microtome or the slide processor
- Chemical and UV resistant print to withstand processes, commonly used in laboratories. Even after several years slides can be reliably identified
- Free PTLab Software – template-driven software for your individual design and data workflow and configurable data stream connection to LIS systems
- USB Interface for easy direct connection to Windows based PC´s and Tablets
- Environment friendly lowest energy consumption in the market and recyclable non hazard materials

Easy to Use
Signature is designed for efficient, hands-free operation. Slides are stored in easy-to-load cartridges – away from dust and other potential contaminants. It takes just a few seconds to change out the cartridge if you need standard slides for one study and positively-charged slides for others. The level of slides remaining in a cartridge is easily viewed through the cartridge's transparent blue LED backlit case.

Several Configurations Available
Printers are available for 3rd party integration as well as in complete, stand-alone systems which include printer, software, scanner, keyboard, mouse and mini-PC. Most components (except the printer and mini-PC) are medical-grade IP68-rated for water-resistance. IP68-rated components can be disinfected with typical hospital cleaning solutions.

SPECIFICATIONS	SLIDE PRINTER
Printing technology:	Thermal transfer
Print speed:	Up to 9 slides/minute (monochrome) Up to 5 slides/minute (solid colours) Up to 4 slides/minute (process colours)
Print resolution:	300 dpi
Ink type:	Resin thermal transfer
Ribbon types:	CMYK: 1000 prints Black: 5000 prints
Printable colours:	8 solid colours; plus pattern options
Slide types:	Slides with white respectively coloured matte end, suitable for thermotransfer printing, preferably with clipped corners of 45° and ground edges
Slide capacity:	100 slides
Output tray capacity:	15 slides
Construction:	Steel frame with powder-coated steel and plastic covers
Cabinet colour:	Medical white
Data interface:	USB 2.0
Printer drivers:	Windows™ 7/10
Height:	218.4 mm
Width:	179.8 mm
Depth:	319.5 mm
Weight:	7.62 kg
Power requirements:	100-240 VAC, 50/60 Hz, 60 watts
Warranty:	Two years warranty (after product registration within 6 months)

Primera's disc publishers offer a higher level of performance and reliability at a lower cost than other "legacy" disc publisher manufacturers. This means that the types of automated systems previously available only to the largest hospitals and imaging centers can now be utilized by virtually any clinic. Even mobile imaging centers are now installing Primera's compact and affordable CD/DVD disc publishers for fast and affordable on-the-spot disc production.

Specialized practices such as mammography, orthopedics and cardiology are also increasingly utilizing localized CD/DVD disc publishers for similar requirements and benefits – even when data is received from an off-site PACS system.

Features of Primera's Disc Publisher
- USB 3.0 - for the fastest possible recording speeds on CD-R, DVD-R and BD-R discs
- 4800 dpi direct-to-disc printing
- One tri-colour ink cartridge

Benefits of automated disc creation
- Significant cost savings from the reduction or elimination of analog film
- Fast, easy and effective distribution of patient studies and related images at a fixed cost per disc, regardless of content size
- Ability to embed a DICOM viewer with images
- Ability to provide HIPAA compliant disaster recovery archives on optical media
- Customized disc printing for easy identification and cataloging as well as marketing of imaging services

Disc Publisher SE-3
- 20-disc capacity
- One recordable CD/DVD drive
- Optional Blu-ray Disc™ drive

Disc Publisher 4052
- 50-disc capacity
- One recordable CD/DVD drive
- Optional Blu-ray Disc™ drive

Disc Publisher 4201
- 100-disc capacity
- One recordable CD/DVD drive
- Optional Blu-ray Disc™ drive

Disc Publisher 4202
- 100-disc capacity
- Two recordable CD/DVD drives
- Optional Blu-ray Disc™ drives

Disc Publisher 4200
- 100-disc capacity
- Print only – no recordable drives

Disc Publisher 4202 XRP
- 100-disc capacity
- Two recordable CD/DVD drives
- Optional Blu-ray Disc™ drives

Primera LX500e Color Label Printer
Print Specimen Labels, ID Badges, Wristbands and Other Types of Narrow Format Output

MDP-K – DICOM Import-Tool

Primera's LX500e Color Label Printer is a compact, full-colour, label printer designed for use in labs and other medical environments. It is ideal for printing labels, name badges, wristbands and other types of narrow format output including many waterproof substrates.

Print Colour Labels On-Demand

LX500e can significantly increase the efficiency of your lab while helping to reduce the risk of misidentification of specimens. Full-colour printing adds significant impact to the printed output and helps reduce errors by eliminating handwriting. With impressive 4800 dpi print resolution, you can print text, graphics, colour alerts and logos along with high-resolution linear and 2D bar codes on every label, wristband or ID badge you print.

Print times are fast, producing a typical 2" x 3" label in only a few seconds. The printer's small size and compact footprint allows it to be installed in labs, on counters or many battery operated medical carts that have limited space.

Features of Primera's LX500e

- Optional built-in label cutter
- Small, compact size
- Prints up to 101.6 mm (4") wide
- 4800 dpi full-colour printing

LX500ec model, featuring a built-in guillotine cutter

The built-in cutter allows you to cut die-cut, reflective and continuous label stock and offers several cut options.

SPECIFICATIONS	LX500e
Printing technology:	Inkjet
Print resolution:	4800 x 1200 dpi, 2400 x 1200 dpi, 600 x 600 dpi
Ink Cartridges:	Colour (CMY)
Colours:	16.7 million
Colour Matching:	Z-Color™ Colour Matching Software integrated in printer driver
Print Width:	0.75" (19 mm) to 4" (101.6 mm)
Print Length:	0.75" (19 mm) to 24" (609.6 mm)
Media Width:	1" (25.4 mm) to 4.25" (108 mm)
Media Types:	Roll-fed pressure-sensitive labels, roll-fed tags, fan-fold labels or tags
Media Sensing:	Moveable see-through sensor for die-cut labels; Reflective for labels and tags with black stripe; Continuous label stock; Preprinted label stock
Supply Roll:	5" (127 mm) maximum diameter on 2" (50.8 mm) core. Core has additional restrictions — see manual.
Ink Level Warning:	Calculates actual number of prints remaining based upon ink usage of graphics being printed (patent-pending)
Indicator Lights:	Power, Ink
Controls:	Pause, Load/Feed, Unload
Operating Systems:	Windows® 7/10+ or Mac OS X 10.7 or higher
Recommended Minimum System:	PC: Pentium® IV computer or better, 512MB RAM, 5GB free hard drive space, USB 2.0 or USB 1.1 Mac: 700 Mhz G4 or higher with 512MB RAM, 5GB free hard drive space, USB 2.0 or USB 1.1
Label Design Software:	NiceLabel® Free 2019 DTM Edition included. Can also be used with most other popular label design software programs.
Electrical Rating:	12 VDC, 5.0 A
Power Requirements:	100-240 VAC, 50/60 Hz, 60 watts
Certifications:	UL, UL-C, CE
Weight:	7.0 lbs. (3.2 kg)
Dimensions:	10.4"W x 15.3"D x 7.1"H (closed), 17.4" (open) 264 mmW x 388.6 mmD x 180 mmH (closed), 442 mmH (open)
Options:	Ink Cartridge, Tri-Color #53374 LX500e #74274 LX500ec #74276 (with cutter)

What is MDP-K?

MDP-K is a software for importing DICOM archive media. Besides the well-known digital archiving on hard disks or in the cloud, the archive DVD still represents a medium that performs a completely different physical storage. Hearing of an attack on data storage, the focus is often on online media and digitally volatile media. Data loss often occurs when using hard disk systems. Storing the media on an unchangeable medium, that is physically separated from every network, by using DVDs or BDs often offers the safest solution.

Problem

For many years, all common CD/DVD burning stations have offered to additionally back up daily or weekly productions on DVD or BD. This continues to be a useful feature because optical media cannot be manipulated afterwards and take up very little space. If a medium should actually be defective, the loss of data is manageable, but with tape, fixed pallet or cloud backup it is a big loss. Optical media are also robust against magnetism and normal fluctuations in temperature and humidity. Due to the always automatic labeling, the media can always be easily assigned.

The doctor is on the safe side until the day the online archive, for example, is broken and all backup media have to be restored. A disaster of time and effort, because many burning stations have no reading algorithm.

What happens if the data on the hard disks has been destroyed?

Now you realize that thousands of media have accumulated in recent years and all of them now have to be read in again manually. The joy of still having the data at all quickly turns into frustration when you look at the work ahead. You had the DVDs created by a robot. Why shouldn't the robot read them in again?

Solution

Now you have to look for manufacturers who offer a fast solution or it must be bought even a further expensive software. Every Primera robot has been able to read media automatically, so why not using them to solve the problem?

This is exactly where MDP-K successfully comes to use

The small tool reads the DICOM media, stores them temporarily and then sends them to any DICOM node. Through the DICOM transmission, the online DICOM archive can now also update the local databases. The archive is immediately ready for use and gets closer and closer to the last database with every DVD. This allows you to restore your data in a short time. Ultimately, you could also migrate this way. The already existing robot, an already existing PC and the already existing DICOM network make a simple and optimal data recovery possible at any time.

How it works

1. The existing Primera robot (also older types) is already connected to a PC.
2. Install the new software on this PC.
3. Configure DICOM destination node.
4. Inserting DVDs.
5. Press Start.
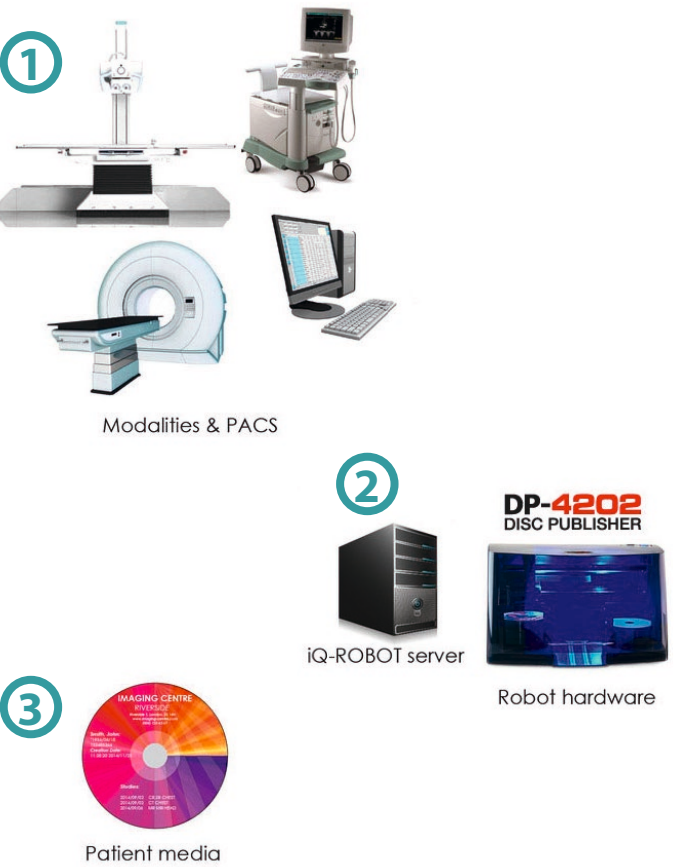6. Add DVDs if required, otherwise enjoy leisure time.

iQ-ROBOT is the convenient robot solution for managing the burning and printing of patient media from any modality or workstation using PRIMERA robot systems.

iQ-ROBOT is designed for low-cost/ high-quality distribution of digital imaging studies and reports on portable optical media, such as DVD-R or Blu-ray Disc. Imaging centers of any size and data volume can employ iQ-ROBOT for fully automated media creation including burning and labeling.

Media created with iQ-ROBOT are compatible with IHE PDI and DICOM-CD regulations, enabling any recipient of imaging media to easily read or process the contained information. Any portable DICOM viewer, e.g. iQ-LITE, may be included on the media, allowing for flexible viewing of the studies later on.

iQ-ROBOT PRO can simultaneously receive data from a combination of DICOM modalities, such as CT, MRI ultrasound, and x-ray, as well as from archives or viewers. It can collect the data and automatically create DICOM media according to the user's preferences (e.g. all data concerning a patient, a patient visit, or a study).

Additionally, users can design various print layouts for the media labels. This is an especially important feature for imaging centers that produce patient media for multiple institutions. The design possibilities are virtually endless: Besides patient demographics and study data, labels may include logos, special features of the practice, opening hours, etc.

Modalities & PACS

iQ-ROBOT server

DP-4202 DISC PUBLISHER
Robot hardware

Patient media

Need less?
iQ-ROBOT BASIC is a cost-effective alternative for specialists (e.g. orthopedic surgeons, chiropractors, and internal specialists) to add to their iQ-VIEW station. In this workflow, burn jobs are sent directly to iQ-ROBOT from iQ-VIEW instead of via DICOM communication.

Need more?
iQ-ROBOT PREMIUM includes a back-up functionality by collecting data and creating portable optical archive media, e.g. CD-R or DVD-R, on a defined schedule such as on selected days, every weekday, or at any other preferred interval.

Hardware & software requirements

SPECIFICATIONS	iQ-ROBOT	
	Minimum	Recommended
Operating System:	Windows® 7 Professional SP1, Windows Server 2008 R2	Windows 8.1 and 10 Professional, Windows Server 2012 R2
Robotic Device:	Primera Disc Publisher SE-3, Disc Publisher 4200 Series	Primera Disc Publisher 4202 XRP
CPU:	Intel® Pentium® Dual Core	Intel Core™ i5
RAM:	3 GB main memory	4 GB main memory
Harddrive:	80 GB hard disc drive (HDD) or Solid-State-Drive (SSD)	80 GB hard disc drive (HDD) or Solid-State-Drive (SSD)
Network:	100 Mbit/s	1 Gbit/s
Graphics:	Resolution of 1024 x 768 dpi	Resolution of 1280 x 1024 dpi or more
Computer-Hardware:		Dell® Hardware
DICOM viewer (optional)*:		iQ-LITE

Note: iQ-ROBOT does not include any hardware or operating systems.
* The iQ-LITE DICOM viewer is not included in the iQ-ROBOT installation, but delivered separately

Medical Grade 2D Barcode scanner & keyboard for PTLab
The key mission of scanners in the healthcare industry is to improve the quality of patient care while reducing medication errors. Additionally, healthcare environments have requirements that scanners need to be regularly cleaned and disinfected. The Primera Medical Grade 2D Bar Code Scanner is specifically developed for healthcare applications with Disinfectant-Ready enclosures treated with anti-microbial additives and is designed to withstand daily cleaning with harsh disinfectant solutions.

Industrial Medical Grade silicon sealed mini Keyboard
The white Medical Clinical Keyboard with various Layouts is a compact silicone keyboard with a built in touchpad. It's fully waterproof to IP68 standards, it can be submerged in liquid and cleaned with soapy water, disinfectants or other cleaning agents.

Stand-alone / Network Connected System Complete Kit
White All-in-One 15,4" Touchscreen PC with 8 GB RAM, 120 GB SSD, Windows 10 Pro, medical grade IP68 keyboard with trackpad, 2D Datalogic medical grade Scanner and stand - Fully installed with PTLab SE and PTtemplate Designer and all necessary drivers.

PTNet Network Box
The PTNet Box is an interface to connect the Signature printers to the network. This stand-alone box is connected to a power supply, the USB port of the printer and the local network. During installation you can choose in the device driver between the USB device or the network-compatible device. The unique ID of the PTNet box is used for differentiation. With a Signature printer in the network, several PTLab clients or several laboratory information systems connected by the driver can use the printer. The functionality of the printer is not limited, but extended by the broad control. The PTNet box is automatically configured and thus requires no further user intervention.

Optional PTLab™ Software
PTLab Software was designed by Primera specifically for use with Signature-Series Printers. It can be installed on any Windows 7/10 PC, including Primera's optional all-in-one touch screen PC. With PTLab, you'll be up and running and printing full-colour slides and cassettes in just minutes.

First, the lab administrator designs the templates that define the information that is required on the slides including fixed and variable fields. The print area is completely customizable. Or, you can choose from any of the included standard templates.

The lab tech then scans the 2D bar code printed on the vial, tissue cassette or other specimen container. Information contained in the bar code is automatically populated on the slide. Information can also be entered via the keyboard or touch-screen PC. The number of slides that have been ordered for that study are then automatically printed.