Multifunctional Products and Printers for Healthcare

Convenience and control customized for Healthcare
Transform your healthcare workflows

As healthcare becomes more accountable, you have never been more pressured to boost productivity and streamline your HIPAA compliance processes. Ricoh introduces its next generation of healthcare printing devices with a built-in locking-tray and security firmware to help accelerate your innovation. Learn how our printing devices and healthcare business services can help you optimize workflow efficiency in healthcare environments ranging from acute care to admissions, pharmacies and nursing stations with limited space.

Key Benefits

• Avoid workflow interruptions by printing on regulated media (e.g., prescription forms) and non-regulated media with the same printing device

• Maximize productivity with a unique multifunction printer that can safeguard regulated media across print, copy and fax modes

• Install almost anywhere thanks to a small footprint and low profile allowing the device to fit below a shelf and into other tight spaces

• Add optional paper feed units (locking or non-locking) to increase total paper capacity up to 1,600 sheets
Unlock your true productivity

FIND THE RIGHT HEALTHCARE BUSINESS PARTNER

As both the manufacturer of your locking-tray hardware and developer of your locking-tray security firmware, Ricoh uniquely tailors healthcare printing devices to help you optimize your HIPAA compliance workflows—today and in the future as you face changing regulations and new potential threats. Additionally, Ricoh healthcare business services can help you reach your goals faster so you can spend more time caring for your patients, less time managing your printing workflows.

GAIN FREEDOM OF DEPLOYMENT

You may find it difficult or impossible to designate unique secure locations to process regulated media, particularly, pre-printed prescription forms. With a built-in locking tray, you can deploy a Ricoh healthcare printing device where it makes the most sense to streamline your workflow. Process jobs with both regulated media and non-regulated media on a single device instead of limiting print jobs with regulated media to designated devices tucked away behind locked doors.

TAKE ON INCREASED WORKLOADS

Spikes in patient flow do not have to disrupt your workflows. Or perhaps you need to increase the workload for a particular print device. With Ricoh, convert your print station into a dynamic hub of productivity. Configure Ricoh healthcare printing devices to handle large workloads with optional paper feed units that can increase total paper capacity up to 1,600 sheets. Added paper trays can be locking or non-locking—depending on what makes the most sense for your workflows.
How it works

Explore key innovations on Ricoh healthcare printing devices to help you thrive in critical healthcare environments.

**LOCKING TRAY HARDWARE**

A standard built-in locking tray and optional additional locking trays help to secure regulated stock such as pre-printed prescription forms. Maximum paper capacity: 1,600 sheets.

**LOCKING TRAY SECURITY FIRMWARE**

Advanced security firmware helps to safeguard regulated media from theft and unauthorized viewing when:

- In copy mode: Prevents the ability to see and select locking tray(s) from the Operation Panel and Web Image Monitor (remote management tool).
- Print, copy and fax modes (on Ricoh healthcare multifunction printers): Disables access to the locking tray(s) for the Auto Tray Switching function, which might otherwise take paper from a locking tray if a non-locking tray were to become empty during a job.
- All modes: Disables access to the locking tray(s) by the local hard drive.
- All modes: When printing from a mobile device or storage device such as a USB drive, access to the locking tray is disabled.
- All modes: With an optional or standard HDD installed, automatically overwrites latent images on the hard drive via DataOverwriteSecurity System (DOSS).

**PORTABLE PRINT CONFIGURATIONS**

Store and export your device settings to an SD card so you can configure a different device quickly and easily.
Empower your modern workstyle

COST-EFFECTIVE OWNERSHIP, SIMPLE MAINTENANCE

When you combine print jobs with both regulated and non-regulated media on a single printer or MFP, you can gain significant cost savings in many areas. Via simple print management tools, limit your healthcare personnel to print only what they need when they need it. Also, set limits for total print volumes per user, workgroup or department. Save time and costs with maintenance that is so easy, no training is required for normal tasks such as replacing toner or other consumables.

CONSERVE ENERGY, PROTECT YOUR BUDGET

Complete your document jobs without compromising your eco-friendly commitment. Save paper with automatic, double-sided printing and eliminate printing blank pages. Conserve energy by using pre-set on/off settings, a low-power mode and the ECO-Night Sensor (on printers only). Ricoh healthcare printing devices meet EPEAT® Silver® criteria, and are certified with the latest ENERGY STAR® specifications. Plus, the RICOH Resource Smart Return Program makes it easy to recycle your used consumables.

COLLABORATE AND SHARE INFORMATION EASILY

Connect to and work in the cloud and take your information with you. On Ricoh Healthcare MFPs, use the optional Integrated Cloud Environment (ICE) service to print from, or scan to, apps like DocumentMall™, Evernote™, Dropbox™ or Google Drive™, all without using expensive on-site servers, system integration or software updates. Also store and access your documents in the places you prefer for convenient anytime sharing.

MONITOR YOUR PERFORMANCE

It’s easy to say you’re saving money and increasing efficiency. It’s another thing to prove it. Use Ricoh’s Web Image Monitor to check system status, change settings, manage job queues and expedite maintenance right from the desktop. You can even assign up to 1,000 user codes to track volumes and trends by individual users, and leverage the information to improve print behavior. Need to manage multiple devices? Then install Ricoh’s free management utility Device Manager NX Lite to manage up to 250 devices. Simplify installation, configuration and monitoring of multiple networked devices.
Build your healthcare printer fleet with Ricoh innovative printers and multifunction printers that offer everyday convenience and security features to accommodate specific healthcare requirements. Choose the system that best fits the unique demands of your organization.

**SP 4510DNTE with Locking Tray and Security Firmware**

**Black and White Printer**

* Smart, energy-efficient solution to help protect regulated media
  * Prints up to 42 ppm
  * 1200x1200 dpi max print resolution
  * Paper capacity up to 1,600 pages
  * Standard automatic double-sided printing
  * Easy-to-read, four-line-LCD panel

**SP 4510SFTE with Locking Tray and Security Firmware**

**Black and White Multifunction Printer (MFP)**

* Helps to protect regulated media across multiple MFP modes
  * Prints up to 42 ppm, copy, scan, fax
  * 1200x1200 dpi max print resolution
  * Paper capacity up to 1,600 pages
  * Standard automatic double-sided printing
  * Tilting 4.3” color touch panel with shortcuts

---

**Ricoh Printers/MFPs for Healthcare**

<table>
<thead>
<tr>
<th>Device Type</th>
<th>SP 4510DNTE</th>
<th>SP 4510SFTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Built-in Locking Paper Tray</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Locking Tray Security Firmware</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Portable Print Configuration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Locked Print</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>DataOverwrite Security System</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Hard Disk Drive Encryption</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Optional 250-Sheet Locking Tray</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional 500-Sheet Locking Tray</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*With optional hard disk drive (HDD).*
**Engine Specifications**

**RICOH SP 4510DNTE**

### System Specifications

- **Part #**: 407924
- **Technology**: LED
- **Printing Process**: Electro-photographic printing
- **Toner Type**: Dry, single component
- **Maximum Monthly Volume**: 10,000 pages
- **Maximum Monthly Duplex**: 150,000 prints
- **First Page Out Time**: 5 seconds
- **Warm-Up Time**: 17 seconds
- **Print Resolution**: Up to 1200 x 1200 dpi
- **Controller Specifications**: Automatic (standard)
- **Duplexing**: Plain, Recycled, Thick, OHP (Transparency), Letterhead, Preprinted and Envelopes
- **Power Consumption**:
  - (Operating): 561.7 W
  - (Standby): Less than 1 W
- **Power Requirements**:
  - (Dimensions): (160 V, 60Hz, 10A)
- **Toner Type**: Black & White
- **Weight**: 34.2 lbs. (15.5 kg)
- **Dimensions (WxDxH)**:
  - Standard: 14.6" x 15.4" x 12.0" (370 x 392 x 306 mm)
  - Medium Cabinet: 17.8" x 19.4" x 21.7" (453 x 491.5 x 552 mm)
  - Tall Cabinet: 17.8" x 19.4" x 21.7" (453 x 491.5 x 552 mm)
- **Memory**: 512 MB/1 GB RAM
- **Memory Unit Type N**:
  - Type P1: Part # 407150MU
- **Board Type A**:
  - Type P1: Part # 407349
  - Type T1: Part # 407351
- **Controller Options**:
  - Hard Disk Drive Option: Part # MX407348RA
  - Memory Unit Type N: Part # 407113
  - Unit Type O: Part # 411699
  - Board Type A: Part # 407218
  - IPDS Type P1: Part # 407349
  - XPS Direct Print Type P1: Part # 407351
- **Controller Features**:
  - **Printer Languages**:
    - Standard: PCL6e, Adobe® PostScript®3™, PDF, Direct
    - Optional: IPDS*, XPS
  - **Font Support**:
    - PCL6: 45 fonts, PCL5: 45 fonts + International fonts 13 fonts, PostScript3: 136 fonts, IPDS: 108 fonts (optional)
  - **Network Protocols**:
    - Windows XP/2003/2003R2/2008/2008R2/2012/2012R2, Mac OS X (10.5 or later) FS only; UNIX filters for Sun Solaris, HP-UX, Red Hat Linux, SCO OpenServer, IBM AIX, SAP R/3; Citrix Presentation Server 4.5/4.6/5.0, 5.0, 6.0, 6.5, 7.0, 8.0/8.1/8.2/8.3/8.4/8.5*/AF4000*/
  - **Device Management**: Manager NX, Web SmartDeviceMonitor, Web Image Monitor
  - **Utilities**:
    - Remote, SmartDeviceMonitor, Device Manager, Web SmartDeviceMonitor, Web Image Monitor
  - **Security Features**:

---

**Configuration**

- **Desktop**

**Consumables & Yields**

- **Part #**: 407320
- **Yield**: 12,000 pages*
- **Part #**: 407316
- **Yield**: 6,000 pages*
- **Part #**: 407319
- **Yield**: 3,000 pages*
- **Part #**: 407321
- **Yield**: 20,000 pages
- **Part #**: 407324
- **Yield**: 120,000 pages

---

*Declared yield values in accordance with ISO/IEC 19752. Actual yields may vary based on images printed and other factors.
### Engine Specifications

**SP 4510SFTE**  
Part #: 407920

- **Configuration**: Desktop
- **Technology**: LED
- **Color/B&W**: Black & White
- **Printing Process**: Electrophoretic photographic printing
- **Scanning Element**: CCD
- **Toner Type**: Dry, single component
- **B&W Print Speed (Letter)**: 42 ppm
- **Maximum Monthly Volume**: Up to 10,000 prints
- **Maximum Monthly Duty Cycle**: 150,000 prints
- **First Page Out Time**: 5.1 seconds
- **Warm-up Time**: 14 seconds
- **Standard Paper Capacity**: 1 x 500-Sheet Tray + 100-Sheet Bypass Tray
- **Maximum Paper Capacity**: 1,600 sheets
- **Standard Output**: 1 GB/1.5 GB RAM
- **Print Resolution**: 1200 dpi
- **Copy Resolution**: 600 x 600 dpi

### Facsimile Specifications

- **Fax Resolution**: Up to 200 dpi
- **Fax Scanning Speed**: 22-spm (Letter)
- **Modem Speed**: 33.6 kbps with auto fallback
- **Fax Compression**: MH, MR, MMR, IJG
- **Method**: 4 MBit (approximately) 320 sheets
- **Transmission Speed**: G3: 2 seconds per page (G3 Compression)
- **Quick Dial**: 1,000 standard, 2,000 with HDD
- **Group Dial**: 100 groups
- **Standard Fax Features**: Dual Access, Duplex Reception, 12-Hour Backup, LAN-Fax, Internet Fax (37.5), Fax to E-mail

### Security Features

- **Other Features**: SMNPv3, IPP Authentication, Kerberos Authentication Encryption, Wireless LAN Security (WEP, WPA2/ WPA-PSK), Protect document data with Locked* and Stored Print*, Unauthorized Copy Prevention, Compulsory Security Stamp, HDD Data Overwrites* and Encryption*  
*Hard disk drive required.

### Hardware Options

- **Paper Feed Unit PB1060**: Part #: 407720  
  - Paper Capacity: 250 sheets
- **Supported Paper Sizes**: 3.94” x 5.82” – 8.5” x 14” (100 x 148 – 216 x 356 mm)
- **Dimensions (WxDxH)**: 16.5” x 16.8” x 19” (419 x 427 x 484 mm)
- **Weight**: 50 lbs. (23 kg)
- **ENERGY STAR**: Certified
- **EPEAT**: Silver

### Copy Specifications

- **Copy Resolution**: Up to 600 x 600 dpi
- **Document Feeder Type**: Automatic Reversing Document Feeder (ARDF)
- **Document Feeder Capacity**: 50 sheets
- **Document Feeder Weight**: 8.5” x 14” – 5.5” x 8.5” (A4 – A6)
- **Document Feeder Original Size**: Custom: up to 8.5” x 35.43”
- **Document Feeder Paper Size**: Simplex: 14 – 34 lb. Bond (52 – 128 g/m²)
- **Document Feeder Weight**: Duplex: 16 – 28 lb. Bond (60 – 105 g/m²)
- **Maximum Original Size**: 8.5” x 11” (216 x 297 mm)
- **Maximum Scan Size**: 8.5” x 11” (216 x 297 mm)
- **Maximum Copy Quantity**: 99 copies
- **Reduction Rate**: 65%, 78%, 93%, 129%, 155%
- **Image Rotation**: 25% to 400% in 1% increments

### Copier Features

- **ID Card Copy**, Auto/Manual Density Control, Auto Start, Batch Mode
- **Mix Size Originals**: Copy Mode - Text, Text/Photo and Photo, Mixed Size Originals
- **Image Rotation**: 25% to 400% in 1% increments
- **Optional Counter**: Interface Unit Type A

### Scan Specifications

- **Scanner Resolution**: Color and B&W: up to 600 dpi
- **Scanning Speed (Letter)**: 22-spm (Letter)
- **Platen Size**: 8.5” x 11” (216 x 297 mm)
- **Maximum Scan Size**: 8.5” x 13.6” (216 x 600 mm)
- **Scan Modes**: Text, Text/LINE Art, TEXT/Photo, Photo, Glossy Photo Color (26 bit), Gray Scale (8 bit)
- **File Formats**: JPEG, Single/MultiPage TIFF, PDF, High Compression PDF, PDIAS, OCR
- **Scan-to-Mode**: Scan to Email (with LDAP support), Scan-to-Folder ( SMB/FTP), Scan-to-URL, Network TWAIN, Scan-to-Media (USB/SD), WSD Scanner
- **Scan Protocols**: Network: TCP/IP, Email: SMTP, POP3, IMAP4, Scan-to-Folder: SMB, FTP, WSD Scanner

### Document Server Specifications*

- **Capacity**: 38 GB (shared with other functions)
- **Maximum Stored Documents**: 3,000 documents
- **Maximum Pages**: 1,000 pages  
  - (per document)
- **Maximum Pages**: 9,000 pages  
  - (all stored documents)

*OCP option required.

### Document Server Specifications

- **Print Cartridge**: 407316
- **Yield**: 12,000 pages*