

# HIGH QUALITY REMANUFACTURED DEVICES SUITABLE FOR ANY OFFICE ENVIRONMENT

imageRUNNER ADVANCE 4500 ES II Series

The imageRUNNER 4500 ES II Series of remanufactured black and white A3 multifunction devices help boost your sustainability goals. Highly reliable and robust with a large colour touchscreens, fast scanning and flexible connectivity makes them perfect for busy offices.



## SUSTAINABILITY FOCUS

Remanufactured to extend machines lifespan and to support the circular economy. Energy efficiency and built-in advanced technologies such as low melting point toner help to reduce the impact on the environment.

## ENHANCED SECURITY

Office documents, devices and networks are protected with comprehensive security features offered as standard, with an additional security solutions and services offered for a complete piece of mind.

## INTUITIVE USER EXPERIENCE

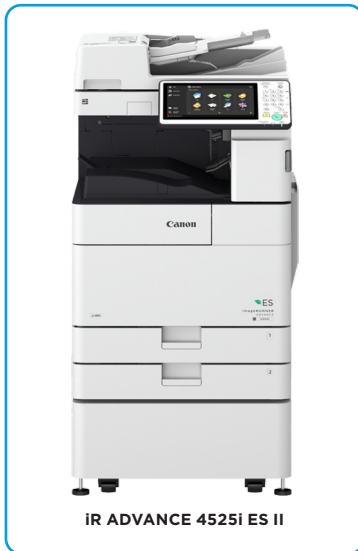
10.1" intuitive touchscreen with smartphone-like usability, tailored to individual user's needs. Support for hybrid working and remote collaboration thanks to advanced mobile solutions and easy integration with cloud services.

## PRODUCTIVITY

Duplex printing as standard and speeds of up to 45ppm ensure high business productivity. Capacity for printing and scanning of small size media supports documents digitisation and in-house printing.

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## CONFIGURATION OPTION



This flat configuration is for illustration purpose only. For a complete list of options and the exact compatibility relationships, please refer to the online [product configurator](#).

# TECHNICAL SPECIFICATIONS

## imageRUNNER ADVANCE 4500 ES II Series

MAIN UNIT	
<b>Machine Type</b>	A3 Monochrome Laser Multifunctional
<b>Core Functions</b>	Print, Copy, Scan, Send, Store and Optional Fax
<b>Processor Speed</b>	Canon Dual Custom Processor (Shared) 1.75 Ghz
<b>Control Panel</b>	25.6 cm (10.1 inch) TFT LCD WSVGA Colour Touch panel
<b>Memory</b>	Standard: 3.0 GB RAM
<b>Storage</b>	Standard: 250 GB HDD
<b>Interface Connection</b>	<p>NETWORK Standard: 1000Base-T/100Base-TX/10Base-T, Wireless LAN (IEEE 802.11 b/g/n)</p> <p>OTHERS Standard: USB 2.0 (Host) x2, USB 3.0 (Host) x1, USB 2.0 (Device) x1</p>
<b>Paper Supply Capacity (A4, 80 gsm)</b>	<p>4545i ES II: 2,285 Sheets 4 x 550-sheet cassettes (80 gsm) 85-sheet multi-purpose tray (80 gsm)</p> <p>4525i ES II: 1,185 Sheets 2 x 550-sheet cassettes (80 gsm) 85-sheet multi-purpose tray (80 gsm)</p>
<b>Paper output capacity (A4, 80 gsm)</b>	Standard: 250 sheets Maximum: 545 sheets (with Inner Finisher)
<b>Finishing capabilities</b>	Collate, Group With Inner Finisher : Collate, Group, Offset, Staple, Staple-Free Staple, Staple On Demand
<b>Supported media types</b>	<p>Cassettes: Thin paper, Plain paper, Recycled paper, Colour paper, Pre-punched paper, Thick paper</p> <p>Multi-purpose tray: Thin paper, Plain paper, Recycled paper, Colour paper, Pre-punched paper, Thick paper, Bond paper, Transparency, Labels, Tracing paper, Envelope</p>
<b>Supported media sizes</b>	<p>Upper Cassette 1: Standard size: A4, A4R, B4, B5, B5R, A5R Custom size: Min. 139.7 mm x 182 mm up to 297 mm x 390 mm</p> <p>Lower Cassettes 2/3/4*: Standard size: A4, A4R, A3, B4, B5, B5R, A5R Custom size: Min. 139.7 mm x 182 mm up to 297 mm x 431.8 mm *4545i ES II only</p> <p>Multi-purpose tray: Standard size: A4, A4R, A3, B4, B5, B5R, A5, A5R, Envelopes (No. 10(COM 10), Monarch, ISO-C5, DL) Free Size: Min. 98 mm x 148 mm up to 297 mm x 431.8 mm</p>
<b>Supported media weights</b>	Cassettes: 60 to 128 gsm Multi-purpose tray: 52 to 220 gsm Duplex: 60 to 105 gsm
<b>Warm-up Time</b>	From Power On: 24 Seconds or Less! From Sleep Mode: 10 Seconds or Less Quick Start-up Mode: 4 Seconds
<b>Dimensions (W x D x H)</b>	587 mm x 750 mm x 926 mm
<b>Installation Space (W x D)</b>	889 mm x 1,181.9 mm (with Multi-purpose tray open)
<b>Weight</b>	Approx. 80.7 kg including toner
PRINT SPECIFICATIONS	
<b>Print Speed (BW/CL)</b>	4545i ES II: 45 ppm (A4), 22 ppm (A3), 32 ppm (A4R), 18 ppm (A5R) 4525i ES II: 25 ppm (A4), 15 ppm (A3), 17 ppm (A4R), 14 ppm (A5R)
<b>Print Resolution</b>	1,200 dpi x 1,200 dpi
<b>Page description languages</b>	UFR II, PCL 6 (Standard) Genuine Adobe PostScript Level 3 (Option)
<b>Double Sided Printing</b>	Automatic (Standard)

<b>Direct Print</b>	Supported file types <sup>2</sup> : TIFF, JPEG, PDF, EPS, and XPS
<b>Printing from mobile and cloud</b>	A range of software and MEAP-based solutions is available to provide printing from mobile devices or internet-connected devices and cloud-based services depending on your requirements. Please contact your sales representative for further information
<b>OS Standard Printing</b>	Android/Windows® 10/Windows® 11/Chrome OS/macOS (11.2.2 or later) /iOS (15.2 or later)/iPadOS
<b>Fonts</b>	PCL fonts: 93 Roman, 10 Bitmap fonts, 2 OCR fonts, Andalé Mono WT J/K/S/T* (Japanese, Korean, Simplified and Traditional Chinese) , Barcode fonts** PS fonts: 136 Roman *Requires optional PCL INTERNATIONAL FONT SET-A1 **Require optional BARCODE PRINTING KIT-D1
<b>Print Features</b>	Suspend Job Timeout, Subset Finishing (PS only), Profile Settings, Secured Print, Watermark, Page Border, Header/Footer, Page Layout, Two-sided Printing, Collating, Booklet Printing, Grouping, Mixed Paper Sizes/ Orientations, Offsetting, Printing on Transparencies, Front/Back Covers, Toner Reduction, Poster Printing, Job hold printing
<b>Operating System</b>	UFR II: Windows® 10/11/Server2016/ Server2019/ Server2022, macOS (10.14 or later) PCL: Windows® 10/11/Server2016/ Server2019/ Server2022 PS: Windows® 10/11/Server2016/ Server2019/ Server2022, macOS (10.14 or later) PPD: Windows® 10/11/Server2016/ Server2019/ Server2022, macOS (10.14 or later)

COPY SPECIFICATIONS	
<b>Copy Speed</b>	4545i ES II: 45 ppm (A4), 22 ppm (A3), 32 ppm (A4R), 18 ppm (A5R) 4525i ES II: 25 ppm (A4), 15 ppm (A3), 17 ppm (A4R), 14 ppm (A5R)
<b>First-Copy-Out Time (BW/CL)</b>	iR-ADV 4545i ES II: Approx. 3.8 seconds or less iR-ADV 4525i ES II: Approx. 5.2 seconds or less
<b>Copy resolution</b>	Reading: 600 dpi x 600 dpi Printing: Up to 1,200 dpi x 1,200 dpi
<b>Multiple Copies</b>	Up to 999 copies
<b>Copy Exposure</b>	Automatic or Manual (9 Levels)
<b>Magnification</b>	Variable zoom: 25% to 400% (1% Increments) Preset reduction/enlargement: 25%, 50%, 70%, 100%(1:1), 141%, 200%, 400%
<b>Basic Copy Features</b>	Preset R/E Ratios by Area, Paper Setting, Previous Setting, Favourite Setting, Finishing, Two-Sided, Density Adjustment, Exposure Adjustment, Original Type Selection, Interrupt Mode, Setting Confirmation/Cancel
<b>Special Copy Features</b>	Book to Two Pages, Two-sided Original, Finishing, Booklet, Job Build, N on 1, Add Cover, Insert Sheets, Different Size Originals, Density Adjustment, Original Type Selection, Transparency Cover Sheets, Page Numbering, Copy Set Numbering, Sharpness, Erase Frame, Secure Watermark, Print Date, Shift, Gutter, Print & Check, Negative/Positive, Repeat Images, Merge Job Blocks, Job Done Notice, Mirror Image, Print on Tab, Store in Mail Box, Superimpose Image, Cascade Copy, Copy ID Card, Multi Sheet Feed Detection, Free Size Original

SCAN SPECIFICATIONS	
<b>Standard Type</b>	Standard: Duplexing Automatic Document Feeder (DADF)
<b>Pull Scan Specifications</b>	Color Network ScanGear2 for both TWAIN and WIA
<b>Scan Resolution</b>	100 x 100 dpi, 150 x 150 dpi, 200 x 100 dpi, 200 x 200 dpi, 200 x 400 dpi, 300 x 300 dpi, 400 x 400 dpi, 600 x 600 dpi
<b>Supported media size/s</b>	A4, A4R, A3, B4, B5, B5R, A5, A5R, B6

# TECHNICAL SPECIFICATIONS

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<b>Supported media weight/s</b>	1-sided scanning: 38 to 128 gsm/64 to 128 gsm (BW/CL) 2-sided scanning: 50 to 128 gsm/64 to 128 gsm (BW/CL)
<b>Scan Method</b>	Send functionality available on both models Scan to USB Memory Key: Available on both models Scan to Mobiles or internet-connected devices: A range of solutions is available to provide scanning to mobile devices or internet-connected devices depending on your requirements. Please contact your sales representative for further information. Scan to cloud-based services: A range of solutions is available to provide scanning to cloud-based services depending on your requirements. Please contact your sales representative for further information. TWAIN/WIA Pull scanning available on all models
<b>Scan Speed (BW/CL; A4)</b>	1-sided scanning: 70 ipm (300 dpi)/ 51 ipm (600 dpi) 2-sided scanning: 35 ipm (300 dpi)/ 25.5 ipm (600 dpi)
<b>Document Feeder Paper Capacity (80 gsm)</b>	100 Sheets
<b>Double sided scanning</b>	2-sided to 2-sided (Automatic)

### SEND SPECIFICATIONS

<b>Optional / Standard</b>	Standard
<b>Destination</b>	E-mail/Internet FAX (SMTP), SMB, FTP, WebDAV, Mail Box, Super G3 FAX (Optional), IP Fax (Optional)
<b>Colour Mode</b>	Auto Colour Select (Full Colour, Grayscale) Auto Colour Select (Full Colour/ Black-and-White) Full Colour, Grayscale, and Black-and-White
<b>Address Book/Speed dials</b>	LDAP (2,000)/Local (1,600)/Speed dial (200)
<b>Send resolution</b>	Push: up to 600 x 600 Pull: up to 600 x 600
<b>Communication protocol</b>	File: FTP, SMB v3.0, WebDAV E-mail/I-Fax: SMTP, POP3, I-Fax (Simple, Full)
<b>File Format</b>	Standard: TIFF, JPEG, PDF (Compact, Searchable, Apply policy, Optimize for Web, PDF A/1-b, Encrypted, Device Signature), XPS (Compact, Searchable, Device Signature), Office Open XML (PowerPoint, Word), PDF/XPS (Digital Signature) Optional: PDF (Trace & Smooth, User Signature), XPS (User Signature)
<b>Universal Send Features</b>	Original Type Selection, Two-sided Original, Book to Two Pages, Different-size Originals, Density Adjustment, Sharpness, Copy Ratio, Erase Frame, Job Build, Sender's Name (TTI), Select Line, Direct Send, Delayed Send, Preview, Finished Stamp, Job Done Notice, File Name, Subject/Message, Reply-to, E-mail Priority, TX Report, Original Content Orientation, Skip Blank Originals, Multi Sheet Feed Detection.

### FAX SPECIFICATIONS

<b>Optional / Standard</b>	Optional
<b>Maximum Number of Connection Lines</b>	2
<b>Modem Speed</b>	Super G3: 33.6 kbps G3: 14.4 kbps
<b>Compression Method</b>	MH, MR, MMR, JBIG
<b>Resolution</b>	400 x 400 dpi, 200 x 400 dpi, 200 x 200 dpi, 200 x 100 dpi
<b>Sending/Recording Size</b>	A5* and A5R* to A3 *Sent as A4
<b>FAX Memory</b>	Up to 30,000 pages
<b>Speed Dials</b>	Max. 200
<b>Group Dials/Destinations</b>	Max. 199 dials
<b>Sequential Broadcast</b>	Max. 256 addresses

<b>Memory Backup</b>	Yes
<b>Fax Features</b>	Original Type Selection, Two-sided Original, Book to Two Pages, Different-size Originals, Density for Scanning, Sharpness, Copy Ratio, Erase Frame, Job Build, Specifying the Sender's Name (when sending fax), Sender's Name (TTI), Selecting the Telephone Line (when sending fax), Direct Send, Delayed Send, Preview, Finished Stamp, Job Done Notice, TX Report, Multi Sheet Feed Detection

### STORE SPECIFICATIONS

<b>Mail Box (Number supported)</b>	100 User Inboxes, 1 Memory RX Inbox, 50 Confidential Fax Inboxes 30,000 Maximum Pages Stored
<b>Advanced Space</b>	Communication Protocol: SMB or WebDAV Supported Client PC: Windows 10/11 Concurrent Connections (Max.): SMB: 64, WebDAV: 3
<b>Advanced Space available disc space</b>	Standard: Approx. 16 GB
<b>Advanced Space Features</b>	Disabling Advanced space, Storage Filtering, Authentication for Advanced Space Log-in, Search Function, Sort Function, Printing a PDF File with a Password, imageWARE Secure Audit Manager Support
<b>Memory Media</b>	Standard: USB Memory

### SECURITY SPECIFICATIONS

<b>Authentication &amp; Access Control</b>	Standard: User Authentication (Picture Login, Picture and PIN Login, Card Login*, Username and Password Login, Function Level login, Mobile Login), Department ID Authentication (Department ID and PIN Login, Function Level Login), uniFLOW Online** (PIN Login, Picture Login, Picture and PIN Login, Card Login, Card and PIN Login, Username and Password Login, Department ID and PIN Login, Function Level Login), Access Management System (Access Control), Cloud Connector** (PIN Login) and Microsoft Entra ID (PIN Login, Card Login) *optional, activation required **subscription required
<b>Network</b>	Firewall functionality (IP/Mac Address Filtering), IPSec, TLS 1.3 Encrypted Communication, SNMP V3.0, IEEE 802.1X Authentication, IPv6, SMTP Authentication, POP Authentication before SMTP, WPA3 support, Dual Network Support (Wired LAN/ Wireless LAN, Wired LAN/ Wired LAN)
<b>Document</b>	Print Security (Secure Print, Encrypted Secure Print, Forced Hold Printing, uniFLOW Secure Print*), Receive Data Security (Confidential Fax Inbox Forwarding Received Documents Automatically), Scan Security (Encrypted PDF, Device Signature PDF/XPS, User Signature PDF/XPS, Adobe LiveCycle® Rights Management ES2.5 Integration), BOX Security (Mail Box Password Protected, Advanced Space Access Control), Send Data Security (Setting for requesting password input per transmission, Restricted E-mail/File send functions, Confirming FAX number, Allow/Restrict Fax Driver Transmissions, Allow/Restrict Sending from History, S/MIME Support), Document Tracking (Secure Watermark) * Requires uniFLOW Online/uniFLOW
<b>Device</b>	Standard: Trusted Platform Module (TPM), Hard Disk Password Lock, Hard Disk Drive Erase, Mail Box Password Protection, Hard Disk Drive Encryption (AES-256bit/CBC, FIPS140-2 Validated), Protecting MFP Software Integrity, Checking MFD Software Integrity (Verify System at Startup, Runtime Intrusion Detection enabled with Trellix Embedded Control), Common Criteria Certification
<b>Device Management &amp; Auditing</b>	Administrator Password, Remote Management Two-factor Authentication, Digital Certificate And Key Management, Audit Log, Cooperating with External Security Audit System (Security Information and Event Management), Image Data Logging, Security Policy Setting

# TECHNICAL SPECIFICATIONS

## imageRUNNER ADVANCE 4500 ES II Series

ENVIRONMENTAL SPECIFICATIONS	
<b>Operating Environment</b>	Temperature: 10 to 30 °C (50 to 86 °F) Humidity: 20 to 80 % RH (Relative Humidity)
<b>Power Source</b>	220-240 V (±10 %), 50/60 Hz (±2 Hz), 5.2 Amp
<b>Power Consumption</b>	Maximum: Approx. 1.5 kW Printing: 862 Wh or less Standby: Approx. 37 Wh Sleep mode: Approx. 0.9 W <sup>3</sup> Plugin Off: Approx. 0.3W Typical Electricity Consumption (TEC) rating <sup>4</sup> : 0.64 kWh  For detailed information relating to Erp:Lot6/26 regulation, please go to: <a href="https://www.canon-europe.com/business/lot26/">https://www.canon-europe.com/business/lot26/</a>
<b>Noise Levels (BW/CL)</b>	Sound Power Level (LwAd) Active (BW): 74.8 dB or Less, Standby: 53 dB or Less <sup>5</sup>  Sound Pressure (LpAm) Bystander's position: Active (BW): 51 dB or Less, Standby: 21 dB or Less <sup>6</sup>
SOFTWARE & PRINTER MANAGEMENT	
<b>Tracking and reporting</b>	Standard: Universal Login Manager (ULM), Optional: uniFLOW Online* *For more information, please refer to uniFLOW Online
<b>Remote Management Tools</b>	iWEMC eMaintenance Content Delivery System
<b>Scanning Software</b>	Network ScanGear:
<b>Optimisation Tools</b>	Canon Driver Configuration Tool
<b>Platform</b>	MEAP (Multifunctional Embedded Application Platform)
<b>Document Management</b>	Optional: Therefore™
CONSUMABLES	
<b>Toner Cartridge/s</b>	C-EXV 53 TONER BK
<b>Toner (Estimated Yield @ 5%/6% Coverage)</b>	C-EXV 53 TONER BK: 42,100 pages

OUTPUT OPTIONS	
<b>Inner Finisher</b>	Name: INNER FINISHER-J1 ES Number of Trays: 2 Tray A (Upper) Capacity: A4, B5, A5R 45 sheets, A4R, A3, B4, B5R 45 sheets Tray B (Lower) Capacity: A4, B5, A5R 500 sheets, A4R, A3, B4, B5R 250 sheets Paper Weight: 52 to 220 gsm Staple Position: Corner, Double Staple Capacity: Corner and Double Stapling: A4/B5: 50 sheets (52 to 90 gsm) A4R/A3/B4: 30 sheets (52 to 90 gsm) Eco Staple: A4/A3/B4/B5: 5 sheets (52 to 64 gsm) 4 sheets (65 to 81.4 gsm) 3 sheets (81.5 to 105 gsm) Staple On Demand: 40 sheets (80 gsm) Dimensions (W x D x H): 604 mm x 535 mm x 205 mm (when the extension tray is extended) Weight: Approx. 7.2 kg
HARDWARE ACCESSORIES	
<b>Card Readers</b>	Various card readers are available, e.g. MiCard Plus. Please contact your local Canon Office for more details.
SYSTEM AND CONTROLLER OPTIONS	
<b>Print Accessories</b>	PCL INTERNATIONAL FONT SET-A1 - Adds PCL support for Andalé Mono WT J/K/S/T (Japanese/Korean/Simplified Chinese/Traditional Chinese).
<b>Send Options</b>	UNIVERSAL SEND DIGITAL USER SIGNATURE KIT-C1 - Ensures the authenticity of a PDF/XPS by identifying the user that sent the document through a visible and/or invisible digital signature.  UNIVERSAL SEND TRACE & SMOOTH PDF KIT-A1 - Enables the device to create and send Trace and Smooth PDF
<b>Barcode Printing</b>	BARCODE PRINTING KIT-D1 - Provides the ability to print 1D and 2D barcodes on output using jet caps technology.
OTHER OPTIONS	
<b>Stapler Accessories</b>	Staple P1 - For stapling (2 x 5,000 pcs)
<b>Other</b>	Antimicrobial Film - Various Sheets designed to fit the devices most common touch points*. *Application by a Service engineer is recommended  Instant Stapler - B1

### Footnotes:

1. Time between device power-on and when the start key is enabled. Quick startup Mode ON
2. Only PDF print from websites is supported
3. 0.9W sleep mode is not available in all circumstances due to certain settings.
4. As per Energy Star v 3.2
5. Declared noise emission in accordance with ISO 7779
6. Data taken from ECO declaration



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