



KONICA MINOLTA

# COMPETITIVE ENCOUNTER

**bizhub i-SERIES**  
**C450i/ C550i/ C650i**

June 2021 updated version: 2.0



**RETHINK IT**



Giving Shape to Ideas

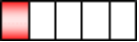




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## Introduction

With the “Competitive Encounter” for the bizhub C450i, C550i and C650i sales representatives will get a helpful tool pointing out outstanding strengths to show the competitiveness of this new colour device.

The specifications are weighted against each other and marked with traffic lights to indicate the weaknesses and disadvantages but also to be prepared for existing advantages or special highlights of a competitor’s system.

-  very poor / no support (of specification)
-  poor support
-  average support
-  good support
-  very good / full support



All judgements are based upon the current state-of-the-art in colour MFP market (segment 4).

## **bizhub C450i / C550i / C650i**

Simple and Secure



## Canon iR ADVANCE C5540i III/ C5550i III/ C5560i III **EOS!**

### Speed Adv. C5540i III

A4 colour/BW: 40/40 ppm

A3 colour/BW: 22/22 ppm

### Speed Adv. C5550i III

A4 colour/BW: 50/50 ppm

A3 colour/BW: 27/27ppm

### Speed Adv. C5560i III

A4 colour/BW: 60/60 ppm

A3 colour/BW: 32/32ppm

End of Sales! Successor series available.

Generation III 3rd Edition (III) launched February 2019




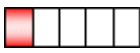

























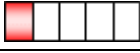















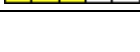


### Highlights / Advantages

- Enhanced 10.1" colour multi-touch display; Main and Express menu are both on one Home screen with an integrated timeline
- High speed models (40ppm to 60ppm) with std. UFP Fan/ Filter system to reduce the UFP emission values and to get BAM
- Add. features firmware platform V3.9 : SIEM + BIOS Boot secure, Forced hold print, DIN A6 support, add. IRIS OCR engine
- Std. embedded McAfee Embedded control security with latest V3.9 firmware platform (since Nov 2019)
- WUT (from Off mode) – 20sec. until Copy Ready (with Boot Secure On 45sec.); Energy Star 2.0 TEC 1,9 / 2,4 / 2,9 kWh/week
- External finisher types with std. extra manual stapling feature and 4-pages Eco stapleless stapling
- Standard true Adobe Postscript support; Std. searchable PDF/XPS and OOXML scan format (OCR)
- Opt. second 250GB or 1TB HDD mirroring and removable HDD kits; Std. and opt. WiFi / NFC and mobile print features
- Std. or High toner yield (High: CMY 60k, K 69k); High drum yield (CMYK 386k)
- Optional Voice Guidance/ Operation kit available
- Std. motion detection sensor (wake up from sleep)
- Std. DSPF multi-feed ultrasonic detection sensor

### Disadvantages

- High security level but nothing available like Bitdefender real-time virus scan support
- No IWS or MarketPlace app comparable support for individual UI customisation
- UI is a mix out of standard and tablet-style handling plus many HW keys
- Std. 250GB HDD (rotating hard disc drive) vs. std. much faster 250 GB SSD (Solid State Drive) of bizhub i-Series
- Max. paper capacity 6350 sheets; Paper weight auto duplex max. 220 g/m<sup>2</sup>
- No finisher Letter/Tri-C-fold support with external finisher model; No optional Z-fold unit available
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- SRA3 paper format only via Bypass tray; No 2-tray Post Inserter support
- Remote panel operator SW optional; UI WebBrowser kit optional
- No CSRC remote service or WW Remote Service platform support
- No std. PPML variable data support (only with optional Fiery controller)
- Shared performance with Dual Core 1.75GHz CPU

Why is the  
**bizhub C550i**  
a better solution?

bizhub C550i		Canon iR Adv C5550i III	
	Unique Bitdefender real time virus / malware scan	Not supported (McAfee is application whitelisting)	
	Std. auto paper weight detection sensor	Not supported – manual paper weight setting	
	High performance Quad Core 1.6GHz CPU	Dual Core 1.75GHz CPU	
	Auto Duplex A5-SRA3 up to 256 g/m <sup>2</sup>	Auto Duplex A5-A3 up to 220g/m <sup>2</sup>	
	SRA3 via paper tray, Bypass and Duplex	SRA3 only via Bypass tray supported	
	Std. NFC pairing and authentication support	Opt. NFC pairing / no NFC authentication	
	Opt. WiFi AP and WiFi Direct for Mobile print	Std. WiFi / WiFi Direct but no real WiFi AP	
	Std. 8GB RAM + fast 250GB SSD SolidStateDrive	Std. 4GB RAM + 250GB HDD (rotating)	
	Optional fast 1TB SSD supported	Optional 1TB HDD supported	
	Image Quality Copying above competitor average	Image Quality Copying below competitor average	
	DSPF with std. ultrasonic double feed sensor	DSPF with std. ultrasonic double feed sensor	
	300sheets DSPF simplex 140ipm / duplex 280ipm	160sheets DSPF simplex 80ipm / duplex 160ipm	
	IWS customisation + KM Marketplace apps	Individual customisation but no direct app support	
	Std. OpenAPI, IWS 2.5 + WebBrowser	Std. MEAP open platform, WebBrowser	
	Std. Letter/Tri-fold with booklet finisher	Not supported	
	Optional 2tray Post Inserter + Z-fold unit available	Both not supported	
	50 or 100sheets staple or booklet finisher type	Only 50 sheets staple or booklet finisher	
	Dynamic ECO Timer / Eco Meter	Std. weekly timer / No Eco indicator	
	Std. PPML (VDP) variable data support	Only with optional Fiery controller	
	Scan to box (HDD) / 1000 user	Scan to Mailbox / max. 100 user	
	OOXML print & scan support (docx,xlsx,pptx)	OOXML (pptx, docx) scan support	
	Developer yield CMYK 1.000k	Developer yield CMYK 720k	
	Fusing unit yield 1.000k	Fusing unit yield 400k	

# Canon iR ADVANCE DX C5740i / C5750i / C5760i **EOS!**

## Speed Adv DX C5740i / DX C5750i

A4 colour/BW: 40/40 ppm / 50/50 ppm

A3 colour/BW: 22/22 ppm / 27/27 ppm

## Speed Adv DX C5760i

A4 colour/BW: 60/60 ppm

A3 colour/BW: 32/32 ppm

Series 35 up to 60ppm models

**Launched February 2020!**

**End of Sales since 02/2021!**

**Successor available with iR Adv DX C5800 series**


























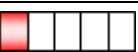

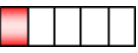

















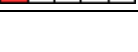


## Highlights / Advantages

- Tablet like keyless 10.1" multi-touch display; Main and Express menu and integrated timeline + new indicator LED lights
- Firmware platform V3.9 : Std. SIEM + BIOS Boot secure, Forced hold print, new IRIS OCR + McAfee emb. Control + TLS 1.3
- Higher speed models (50ppm to 60ppm) with new UFP Fan / Filter system to sharply reduce the UFP emission values
- Fast WUT (from Off mode) – 10sec. until Copy Ready (not Print reservation); Energy Star 2.0 TEC 1,6 / 2,0 / 2,6 kWh/week
- External Y1 finisher types with std. extra manual stapling feature and 4-pages 'Eco staple' stapleless stapling
- Optional ImagePass P2 Fiery print controller; Extended Cloud connectivity + re-usable formats; std. uniflow Online Express
- Standard true Adobe Postscript support; Std. searchable PDF/XPS and OOXML scan format (OCR)
- New std. 200sheets 1PASS DSPF C1 doc feeder type – scan speed simplex 135ipm and duplex up to 270ipm (300dpi)
- Std. DSPF ultrasonic multi-feed detection sensor and new anti-streak original scan glass technology
- Opt. second 250GB or 1TB HDD mirroring and removable HDD kits; Std. and opt. WiFi / NFC and mobile print features
- Std. (26k) or high toner yield (High: CMY 60k, K 69k); High drum yield (CMYK 386k);
- Optional Voice Guidance/ Operation kit available; Std. front motion detection sensor (wake up from sleep)

## Disadvantages

- No IWS or MarketPlace app comparable support for individual UI customisation and personalisation
- High security level but nothing available like Bitdefender real-time virus scan support
- Std. 250GB HDD (rotating hard disc drive) vs. std. much faster 250 GB SSD (Solid State Drive) of bizhub i-Series
- Max. paper capacity 6350 sheets; Paper weight auto duplex max. 220 g/m<sup>2</sup>; SRA3 paper format only via Bypass tray
- No finisher Letter/Tri-C-fold support with external booklet finisher model; No optional Z-fold finishing unit supported;
- No 2-tray Post-Insert support; Only shared performance with Dual Core 1.75GHz CPU
- No optional UFP filter support to minimize emissions (only available for high speed models from 50 to 60ppm)
- WiFi Direct support but no real embedded WiFi AP router mode to be separated from customer network
- No optional unique auto paper weight detection sensor supported – for paper weight always manual setting
- Remote panel operator SW optional; No BAM certificate (Blue Angel Mark) **only available for iR DX C5735i**
- No CSRC remote service or WW Remote Service platform support
- No std. PPML variable data support (only with optional Fiery controller)

Why is the  
**bizhub C550i**  
a better solution?

bizhub C550i		Canon iR Adv DX C5750i	
	10.1" hard key less multi-touch 'tablet like' UI	Enh. 10.1" multi-touch panel with tablet like UI	
	WUT 15sec./ TEC 1,5 KWh / Sleep 0,5 Watt	WUT 10sec./ TEC 2,0 KWh/week; Sleep 0,8 Watt	
	High performance Quad Core 1.6GHz CPU	Dual Core 1.75GHz CPU	
	Auto Duplex A5-SRA3 up to 256 g/m <sup>2</sup>	Auto Duplex A5-A3+ up to 220g/m <sup>2</sup>	
	SRA3 via paper tray, Bypass and Duplex	SRA3 only via Bypass tray supported	
	Std. NFC pairing and authentication support	Opt. NFC pairing / no NFC authentication	
	Opt. WiFi AP and WiFi Direct for Mobile print	Std. WiFi / WiFi Direct but no real WiFi AP	
	Std. 8GB RAM and 250GB SSD / opt. 1TB SSD	Std. 5GB RAM and 250GB HDD / opt. 1TB HDD	
	300sheets DSPF simplex 140ipm / duplex 280ipm	200sheets DSPF simplex 135ipm / duplex 270ipm	
	Std. OpenAPI, IWS 2.5 + WebBrowser	Std. MEAP open platform , WebBrowser	
	IWS customisation + KM Marketplace apps	Individual customisation but no direct app support	
	DIN A6 + Banner paper support (297x1200 mm)	DIN A6 + Banner paper support	
	Opt. unique auto paper weight detection sensor	Not supported	
	Std. Letter/Tri-fold with booklet finisher	Not supported	
	Dynamic ECO Timer / Eco Meter	Std. weekly timer / No Eco indicator	
	Std. highest data security incl. HCD-PP	Std. high data security incl. CC 15408	
	Unique Bitdefender real time virus scan (option)	Not supported (but emb. McAfee / Whitelisting)	
	Std. PPML (VDP) variable data support	Only with optional Fiery controller	
	Scan to box (HDD) / 1000 user	Scan to Mailbox / max. 100 user	
	OOXML print & scan support (docx,xlsx,pptx)	OOXML (pptx, docx) scan support	
	Developer yield CMYK 1.000k	Developer yield CMYK 720k	
	Fusing unit yield 800k	Fusing unit yield 400k	
	Opt. UFP cleaning filter to minimize emissions	Not supported (only avail. for 50/60ppm models)	

## Canon iR ADV DX C5840i/ C5850i/ C5860i/ C5870i **NEW!**

### Speed Adv DX C5840i / DX C5850i

A4 colour/BW: 40/40 ppm / 50/50 ppm

A3 colour/BW: 22/22 ppm / 27/27 ppm

### Speed Adv DX C5860i / DX C5870i

A4 colour/BW: 60/60 ppm / 70/70 ppm

A3 colour/BW: 32/32 ppm / 36/36 ppm

### iR Adv DX C5800 series (40 to 70ppm)

launched February 2021

Successor of iR Adv DX C5700 series

and DX C5870i model also the successor of  
iR Adv DX C7765 and DX C7770 !


























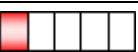

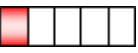

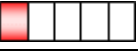















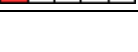


### Highlights / Advantages

- Tablet like keyless 10.1" multi-touch display; Main and Express menu and integrated timeline + new indicator LED lights
- Firmware platform V3.9 : Std. SIEM + BIOS Boot secure, Forced hold print, new IRIS OCR + McAfee emb. Control + TLS 1.3
- **New:** Std. 5GB RAM and 256GB SSD; Opt. second 250GB or 1TB SSD mirroring and removable SSD kits
- Fast WUT (from Off mode) – 6sec. until Copy Ready (not Print reservation/ this takes longer)
- EnergyStar 2.0 TEC 2,0 kWh/week / EnergyStar TEC 3.0: 0,48 / 0,58 / 0,71 / 0,87 kWh/week
- **New** AB1 external finisher types with std. extra manual stapling feature and enhanced 8-pages 'Eco staple' stapleless stapling
- Optional ImagePass R1 Fiery print controller; Extended Cloud connectivity + re-usable formats; std. uniflow Online Express
- Standard true Adobe Postscript support; Std. searchable PDF/XPS and OOXML scan format (OCR)
- Std. 200sheets 1PASS DSPF C1 doc feeder type – scan speed simplex 135ipm and duplex up to 270ipm (300dpi)
- Std. DSPF ultrasonic multi-feed detection sensor and **anti-streak original scan glass** technology
- Std. WiFi / Wlan ; Opt. NFC and BluetoothLE mobile print features; Paper weight auto duplex up to 256 g/m<sup>2</sup>
- Std. (26k) or high toner yield (High: CMY 60k, K 71k); High drum yield (CMYK 386k);
- Optional Voice Guidance/ Operation kit available; Std. front motion detection sensor (wake up from sleep)

### Disadvantages

- No IWS or MarketPlace app comparable support for individual UI customisation and personalisation
- High security level but nothing available like Bitdefender real-time virus scan support
- Max. paper capacity 6350 sheets; SRA3 paper format only via Bypass tray
- No finisher Letter/Tri-C-fold support with external booklet finisher model; No optional Z-fold finishing unit supported
- No optional UFP filter support to minimize emissions; No 2-tray Post-Insertor support
- WiFi Direct support but no real embedded WiFi AP router mode to be separated from customer network
- No optional unique auto paper weight detection sensor supported – for paper weight always manual setting
- Remote panel operator SW optional; No CSRC remote service or WW Remote Service platform support
- No std. PPML variable data support (only with optional Fiery controller)
- Only shared performance with Dual Core 1.75GHz CPU

Why is the  
**bizhub C650i**  
a better solution?

bizhub C650i		Canon iR Adv C5860i	
	10.1" hard key less multi-touch 'tablet like' UI	10.1" hard key less multi-touch tablet like UI	
	Std. DSPF ultrasonic doublefeed detection sensor	Std. DSPF ultrasonic doublefeed detection sensor	
	High performance Quad Core 1.6GHz CPU	Dual Core 1.75GHz CPU	
	Auto Duplex A5-SRA3 up to 256 g/m <sup>2</sup>	Auto Duplex A5-A3+ up to 256g/m <sup>2</sup>	
	SRA3 via paper tray, Bypass and Duplex	SRA3 only via Bypass tray supported	
	Std. NFC pairing and authentication support	Opt. NFC pairing / no NFC authentication	
	Opt. WiFi AP and WiFi Direct for Mobile print	Std. WiFi / WiFi Direct but no real WiFi AP	
	Std. 8GB RAM and 250GB SSD / opt. 1TB SSD	Std. 5GB RAM and 250GB SSD / opt. 1TB SSD	
	300sheets DSPF simplex 140ipm / duplex 280ipm	200sheets DSPF simplex 135ipm / duplex 270ipm	
	Std. OpenAPI, IWS 2.5 + WebBrowser	Std. MEAP open platform , WebBrowser	
	IWS customisation + KM Marketplace apps	Individual customisation but no direct app support	
	DIN A6 + Banner paper support (297x1200 mm)	DIN A6 + Banner paper support	
	Opt. unique auto paper weight detection sensor	Not supported	
	Std. Letter/Tri-fold with booklet finisher	Not supported	
	Optional 2tray Post Inserter + emb. Z-fold unit	Both not supported	
	Std. highest data security incl. HCD-PP	Std. high data security incl. CC 15408	
	Unique Bitdefender real time virus scan (option)	Not supported (but emb. McAfee / Whitelisting)	
	Std. PPML (VDP) variable data support	Only with optional Fiery controller	
	Scan to box (HDD) / 1000 user	Scan to Mailbox / max. 100 user	
	OOXML print & scan support (docx,xlsx,pptx)	OOXML (pptx, docx) scan support	
	Developer yield CMYK 1.000k	Developer yield CMYK 720k	
	Fusing unit yield 800k	Fusing unit yield 400k	
	Opt. UFP cleaning filter to minimize emissions	Not supported	

## Canon WG 7540 / 7550 / 7550F (inkjet)

### Speed WG 7540

A4 colour/BW: 40/40 ppm

A3 colour/BW: 20/20 ppm

### Speed WG 7550/ F

A4 colour/BW: 50/50 ppm

A3 colour/BW: 25/25ppm



Canon first **A3 inkjet** system launched Spring 2019

Canon own page wide **Fine-line print head technology**

US market with different naming: **WG7240/ 7250F/ Z**














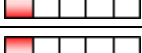



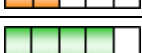









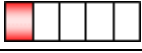









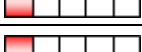

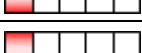



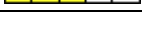


### Highlights / Advantages

- Developed for small to mid size companies as an A3 MFP alternative ink model against laser/toner based systems
- Two speed modes with general quality 40 / 50ppm (600x600dpi) and draft quality up to 70 / 80ppm (300x300dpi)
- Ink based systems w/o UFP emission and strongly reduced consumables and spare parts and low Energy consumption
- Canon own developed page wide fine-line print head technology (no moving print head)
- Low ES 2.0 TEC 1,25 kWh/week; max. power consumption 300 Watt
- Std. WiFi/ AP or WiFi Direct, Mopria, AirPrint and Google Cloud print support (No NFC support) - (not available with WG7540)
- Std. print languages: UFR II (GDI), PCL6 and Adobe PS3; Max. print resolution 1200 x 1200 dpi (but strongly reduced speed)
- Acceptable ink yield with XL cartridges K 20k, CMY 16,5k
- SRA3 and Banner paper (default setting Off) support via Bypass paper tray

### Disadvantages

- No WebBrowser, IWS or MarketPlace app comparable support for individual UI customisation
- Small 5" LCD touchscreen user interface is a standard UI with limited tablet-style handling and w/o open platform MEAP
- Std. and max. 2GB RAM and basically without any standard or optional HDD or SSD support
- Max. paper capacity 2250 sheets; Only 50sheets Bypass tray
- Paper weight auto duplex max. 220 g/m<sup>2</sup>; Paper weight simplex max 256 g/m<sup>2</sup>
- Basically without any kind of finishing support (only US market with WG7250Z model include built-in shift tray sorter)
- Max. output tray capacity 250sheets (A4) and 100sheets (A3)
- 100sheets DSPF doc feeder (CIS scan technology) with limited scan speed BW/Colour simplex 40ipm / duplex 65ipm
- No OOXML scan format support (PPTX, DOCX, XLSX); 'Scan to' send resolution max. up to 300 x 300dpi for Colour + BW
- WG7540 model type without any Mobile printing support like WiFi / WiFi Direct, Mopria, AirPrint (also not optional available)
- Extremely reduced speed in 1200 x1200dpi mode; Only 300 x 300dpi (draft quality) print resolution in high speed mode
- Slow duplex copy and print productivity – only 50% of simplex speed – 20ppm / 25ppm
- Shared performance with Cortex A9 Dual Core 800MHz CPU
- Basic network security level; no optional Security upgrades and nothing available like Bitdefender real-time virus scan support
- Fax G3 only available with WG7550F model type; Fax G3 is not optional available for WG7540/ 7550

Why is the  
**bizhub C450i / C550i**  
a better solution?

bizhub C450i / C550i		Canon WG 7550	
	10.1" hard key less multi-touch 'tablet like' UI	5" touchscreen panel w/o open platform support	
	ES 2.0 TEC 2,1 / 2,8 KWh / Sleep mode 0,5 Watt	ES 2.0 TEC 1,25 KWh / Sleep mode 1,9 Watt	
	High performance Quad Core 1.6GHz CPU	Dual Core 0,8GHz CPU	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. 2GB RAM / no HDD or SSD support	
	DSPF with std. ultrasonic double feed sensor	Std. DSPF / no ultrasonic double feed sensor	
	300sheets DSPF simplex 140ipm / duplex 280ipm	100sheets DSPF simplex 40ipm / duplex 65ipm	
	Std. OpenAPI, IWS 2.5 + WebBrowser	All not supported	
	IWS customisation + KM Marketplace apps	Not supported	
	100% Copy and Print duplex productivity	Only 50% duplex productivity (25ppm)	
	WiFi / AP, Direct, Mopria, AirPrint, Google ect.	WG7550/ F: Standard (WG7540: Not supported!)	
	Opt. Fax G3 support for complete model series	Fax G3 only with WG7550F model / not optional	
	Paper capacity up to 6650 sheets	Max. paper capacity 2250 sheets	
	Auto Duplex A5-SRA3 up to 256 g/m <sup>2</sup>	Auto Duplex A5-A3 up to 220g/m <sup>2</sup>	
	SRA3 via paper tray, Bypass and Duplex	SRA3 only via Bypass tray supported	
	Different finisher types / staple, booklet, folding	Finishing not supported	
	Dynamic ECO Timer / Eco Meter	Std. weekly timer / No Eco indicator	
	Std. highest data security incl. HCD-PP	Only basic network security – no optional security	
	Unique Bitdefender real time virus scan (option)	Not supported	
	Std. PPML (VDP) variable data support	Not supported	
	Scan to box (HDD) / 1000 user	Not supported	
	OOXML print & scan support (docx,xlsx,pptx)	Not supported	
	Std. NFC pairing and authentication support	Not supported	
	HD Polymerized toner yield CMY 28k / K 28k	XL ink cartridges yield CMY 16,5k / K 20k	

## Ricoh IM C4500 / IM C5500 / IM C6000 SP or ASP

### Speed IM C4500SP / ASP

A4 colour/BW: 45/45 ppm

A3 colour/BW: na/na ppm

### Speed IM C5500SP / ASP

A4 colour/BW: 55/55 ppm

A3 colour/BW: na/na ppm

### Speed IM C6000ASP

A4 colour/BW: 60/60 ppm

A3 colour/BW: na/na ppm



Launched February 2019
















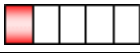



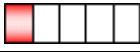











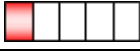














### Highlights / Advantages

- New structured FW platform with enhanced cloud based platform, new workflow solutions (scalable) and webbased support
- New 'Always current technology' to activate new features, apps and firmware updates to be always up to date
- Improved V2.5 SOP UI (modernized Homescreen); Faster 10.1" Android 6 based smart operation panel with std. WebBrowser
- Enhanced Direct Application Suite app support via User Interface
- MFP controller Quad Core 1.6GHz CPU
- WUT – 21 seconds / ES 2.0 TEC 1,8 / 2,5 / 2,7 kWh/week / Sleep Mode 0,6 Watt
- Std. 220sheets DSPF (ASP model) or std. 100sheets RADF (SP model) document feeder
- Faster DSPF scan speed up to 120ipm simplex / 240 ipm duplex + optional ultrasonic double feed detection sensor
- External 1000sheet hybrid finisher type with 'stapleless' stapler (up to max. 5 pages) and normal stapler (up to 50sheets)
- New internal FD3010 multi-fold unit (half-fold, center-fold, z-fold) to enhance functionality for the external booklet finisher type
- FD3010 multi-fold unit can be used independently or as bridge-unit for the external finisher types

### Disadvantages

- Std. 320GB HDD (rotating hard disc drive) vs. std. much faster 250GB or 1TB SSD (Solid State Drive) of bizhub i-Series
- Ultrasonic double feed detection sensor is always an option
- Paper capacity max. 4700 sheets
- Developer yield CMY only 160k (K 600k)
- SRA3 support optional via bypass tray (but optional 'Image area extension unit' required)
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- No letter fold/ Tri fold support with optional booklet finisher type; No opt. 2try Post Inserter supported
- No OOXML (pptx, xlsx, docx) scan/ print support; Encrypted PDF not supported
- Enhanced Common Criteria 15408 HDD certified Security kit optional
- High standard and optional security level but nothing available like Bitdefender real-time virus scan support
- True Adobe Postscript 3 and PDF Direct Print kit optional; XPS direct print optional
- WiFi Direct via Android panel but no WiFi AP (Access Point) mode available; NFC authentication and pairing optional
- Only 50sheets staple or booklet finisher available
- No optional UFP cleaning filter support to minimize emissions

Why is the  
**bizhub C450i**  
a better solution?

bizhub C450i		Ricoh IM C4500SP/ ASP	
	Max. paper capacity 6650 sheets	Max. paper capacity 4700 sheets	
	WUT 13sec./ TEC 2,1 KWh / Sleep 0,5 Watt	WUT 21sec./ TEC 1,8 KWh / Sleep 0,6 Watt	
	10.1" UI, std. OpenAPI, IWS 2.5 + WebBrowser	10.1" UI, std. ESP, Android + Apps + WebBrowser	
	Opt. WiFi AP and WiFi Direct for Mobile print	No WiFi AP but WiFi Direct for Mobile print	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. 2GB / 320GB HDD (max. 4GB RAM)	
	300sheets DSPF simplex 140ipm / duplex 280ipm	220sheets DSPF simplex 120ipm / duplex 240ipm	
	Std. DSPF ultrasonic doublefeed detection sensor	Opt. DSPF ultrasonic doublefeed detection sensor	
	Unique Bitdefender real time virus scan (option)	Not supported	
	Std. encrypted PDF scan format	Not supported	
	Std. OOXML (docx, xlsx, pptx) direct print	Not supported	
	Full OOXML (pptx, docx, xlsx) scan support	Not supported	
	Std. unique auto paper weight detection sensor	Not supported – manual paper weight setting	
	Booklet finisher up to 80 orig. / 20 sheets	Booklet finisher up to 60 orig. / 15 sheets	
	Letter/ Tri-fold / C-fold finishing + opt. Z-fold unit	With optional multi-fold unit + external finisher	
	Std. highest data security incl. HCD-PP	Certified Common criteria kit CC 15408 optional	
	Optional 2tray Post Inserter support	Not supported	
	50 or 100sheets stapler with ext. finisher types	Max. 50sheets stapler with ext. finisher types	
	Dynamic ECO Timer + Eco Meter indicator	Std. weekly timer + Eco Meter Indicator	
	Std. PPML (variable data print - VDP)	Not supported (only with opt. Fiery controller)	
	Fusing unit yield 800k	Fusing unit yield 200k	
	Opt. Fax G3 up to 600x600dpi resolution	Opt. Fax G3 200dpi / with opt. RAM 400dpi	
	Developer yield CMYK 1.000k	Developer yield CMY 160k, K 600k	
	Toner exchange "On the fly"	System stop for toner exchange	

## Xerox AltaLink C8045 / C8055 / C8070

**EOS!**

**Speed AltaLink C8045:**  
A4 colour/BW: 45/45 ppm  
A3 colour/BW: 22/22 ppm

**Speed AltaLink C8055 / C8070:**  
A4 colour/BW: 50/55 ppm / 70/70 ppm  
A3 colour/BW: 25/28 ppm / 35/35 ppm

**Launched June 2017**  
**2<sup>nd</sup> ConnectKey FW update Dec 2019!**



**Engine + finisher very close to former WC 78xxi series!**  
**LED Print Head technology! (no laser)**
























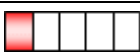



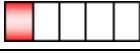


















### Highlights / Advantages

- ConnectKey update with enhanced security like 'Watchdog' functionality (protected from unauthorized interference)
- Detection of undesired changes of security settings (HW and Print engine nothing has been changed)
- High beam LED technology instead of Laser; Remote control panel access
- Standard PDF/A-1b, XPS, searchable PDF (OCR), linearised PDF and encrypted PDF scan format support
- Std. 130 sheet DSPF document feeder; Std. Adobe Postscript support ; Print resolution up to 1200 x 2400dpi
- 10.1" UI and Xerox ConnectKey controller with App Gallery support (direct upload of additional apps)
- Std. McAfee embedded control security (Whitelisting) + optional McAfee Integrity Control Enablement kit
- Std. 8GB RAM + 250GB HDD with CC 15408 full system certification; 1.9GHz Intel Atom Quad core CPU
- Office Finisher LX + booklet modul or BR Finisher type or BR Booklet Finisher type plus optional C-fold/ Z-fold modul
- Mobile print support: AirPrint, Mopria, opt. Wlan and WiFi Direct (USB), Google Cloud and NFC pairing

### Disadvantages

- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- Nothing available like Bitdefender real-time virus scan support (McAfee security is for Whitelisting)
- Std. 250GB HDD (rotating hard disc drive) vs. std. much faster 250GB or 1TB SSD (Solid State Drive) of bizhub i-Series
- Only 130sheets DSPF dual scan Document feeder with scan speed: simplex 80ipm; duplex 139ipm
- DSPF ultrasonic double feed detection sensor is not supported
- Long WUT - 92 seconds from Off mode (Main switch) / High Sleep mode power consumption 3,8 Watt
- No OOXML (PPTX, DOCX, XLSX) scan format / No OOXML Direct print support
- Max. 50sheets staple or booklet finisher; No Post Inserter available; LCT/ large capacity tray only for A4 paper format
- LX finisher type (only for 8045 / 8055) with booklet maker only with crease/saddle stitch (real V-folding only with BR type)
- Letter/ Tri-fold / C-fold finishing requires extra space/ footprint with an extra optional Z-fold / C-fold unit modul
- Booklet saddle stitch max 60originals/ 15 sheets; No banner paper (297x1200mm) support
- No optional UFP cleaning filter support to minimize emissions; Higher 2.0 TEC values with 3,8 / 4,4 / 5,6 kWh/week
- Lower life time of consumables and fusing unit, Low lab tested Print and Copy duplex productivity (only 50 to 60%)

Why is the  
**bizhub C550i / C650i**  
a better solution?

bizhub C550i / C650i		AltaLink C8055 / C8070	
	WUT – 15 seconds; Sleep mode 0,5 Watt	WUT – 92 seconds; Sleep mode 3,8 Watt	
	Energy Star TEC 2,8 / 3,5 kWh/week	Energy Star TEC 4,4 / 5,6 kWh/week	
	Up to 100% Print and Copy duplex productivity	Only 50% Copy and 60% Print duplex productivity	
	Opt. WiFi AP and WiFi Direct for Mobile print	Opt. Wlan/ WiFi Direct via USB / No WiFi AP	
	Std. NFC authentication and pairing	NFC pairing; No NFC authentication	
	Max. paper capacity 6650 sheets	Max. paper capacity 5140 sheets	
	Auto Duplex paperweight 52–256 g/m <sup>2</sup>	Auto Duplex paperweight 64–220 g/m <sup>2</sup>	
	Std. unique auto paper weight detection sensor	Not supported – manual paper weight setting	
	300sheets DSPF simplex 140ipm / duplex 280ipm	130sheets DSPF simplex 80ipm / duplex 139ipm	
	Std. DSPF ultrasonic doublefeed detection sensor	Not supported	
	Unique Bitdefender real time virus scan (option)	McAfee security (different security approach)	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. 8GB RAM and 250GB HDD	
	Banner paper (297x1200mm) support	Not supported	
	Opt. Copy Guard / Password copy security	Not supported	
	OOXML (pptx, docx, xlsx) scan + Direct print	Not supported	
	Std. Tri-fold/ C-fold with booklet finisher + Z-fold	With add. option C-fold/ Z-fold unit for BR finisher	
	Booklet finisher up to 80 orig. / 20 sheets	Booklet finisher up to 60 orig. / 15 sheets	
	Dynamic ECO Timer / Eco Meter indicator	Not supported (only std. weekly timer)	
	Fusing unit yield – 1.000k	Fusing unit yield 200k	
	Developer yield CMYK – 1.000k	Print cartridges (Drum/Dev IU) CMYK 125k	
	Drum yield CMY 165k, K 240k	Print cartridges (Drum/Dev IU) CMYK 125k	
	Toner yield CMY 28k / K 28k	Toner yield CMY 15k / K 26k	
	Std. PPML variable data (VDP) support	Only with optional Fiery controller	

## Xerox AltaLink C8145 / C8155 / C8170

**NEW!**

### Speed AltaLink C8145 / C8155:

A4 colour/BW: 45/45 ppm / 55/55 ppm

A3 colour/BW: 23/23 ppm / 27/27 ppm

### Speed AltaLink C8170:

A4 colour/BW: 70/70 ppm

A3 colour/BW: 35/35 ppm

Launched 09/2020

**New faster DSPF doc feeder**

**only for high speed model C8170 !**

**LED Print Head technology! (no laser)**




















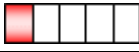







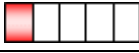



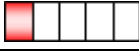
















### Highlights / Advantages

- ConnectKey with security 'Watchdog' functionality (protected from unauthorized interference)
- Post-network update: McAfee® ePolicy Orchestrator®, McAfee Enterprise Security Manager3, LogRhythm + Splunk SIEM3
- High beam LED technology instead of Laser; Remote control panel access
- Standard PDF/A-1b, XPS, searchable PDF (OCR), linearised PDF and encrypted PDF scan format support
- **Only for AltaLink C8170** std. 8 GB RAM and 250 sheet DSPF document feeder w. simplex 135ipm / duplex up to 270ipm
- 10.1" UI and Xerox ConnectKey controller with App Gallery support and enhanced adaptive learning features
- Std. McAfee Embedded Control Whitelisting security, TPM + optional McAfee Integrity Control, McAfee ePolicy
- Std. 128GB SSD or opt. 500GB HDD (rotating)with CC 15408 system certification; 1.9GHz Intel Atom Quad core CPU
- Office , BR Business + BR Booklet finisher types with optional C-fold/ Z-fold unit; Banner paper support (320x1320mm)
- Mobile print support: AirPrint, Mopria, opt. Wlan and WiFi Direct (USB) and NFC pairing; Motion detection sensor
- Paperweight all paper trays 52 – 300g/m<sup>2</sup>; Print resolution up to 1200 x 2400dpi; Std. true Adobe Postscript support

### Disadvantages

- Std. only 4GB RAM and 128GB SSD vs. std. 8GB RAM and 256 GB SSD (Solid State Drive) opt. 1TB SSD of bizhub i-Series
- Std. 130sheet DSPF Document feeder scan speed: simplex 82ipm; duplex 141ipm (only C8170 DSPF up to 270ipm)
- Long WUT - 85 seconds from Off mode (Main switch) / Sleep mode power consumption 0,8 Watt
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- Nothing available like Bitdefender real-time virus scan support (McAfee security is for Whitelisting)
- DSPF ultrasonic double feed detection sensor is not supported
- No OOXML (PPTX, DOCX, XLSX) scan format / No OOXML Direct print support
- Max. 50sheets staple or booklet finisher; No Post Inserter available; LCT/ large capacity tray only for A4 paper format
- Office finisher type with opt. Booklet maker only with crease/score saddle stitch (real V-folding only with BR finisher type)
- Letter/ Tri-fold / C-fold finishing requires extra space/ footprint with an extra optional Z-fold / C-fold unit
- BR Booklet finisher saddle stitch max 64originals/ 16 sheets
- No optional UFP cleaning filter support to minimize emissions; Lower consumable yields (drum, developer, fusing unit)

Why is the  
**bizhub C450i / C550i**  
a better solution?

bizhub C450i / C550i		AltaLink C8145/ C8155	
	WUT – 15 seconds; Sleep mode 0,5 Watt	WUT – 85 seconds; Sleep mode 0,8 Watt	
	Std. unique auto paper weight detection sensor	Not supported – manual paper weight setting	
	Up to 100% Print and Copy duplex productivity	Only 60% Copy and 70% Print duplex productivity	
	Opt. WiFi AP and WiFi Direct for Mobile print	Opt. Wlan/ WiFi Direct via USB / No WiFi AP	
	Std. NFC authentication and pairing	NFC pairing; No NFC authentication	
	Max. paper capacity 6650 sheets	Max. paper capacity 6140 sheets	
	Opt. A4 or A3/SRA3 LCT (large capacity trays)	Only 3000 sheet A4 LCT tray supported	
	300sheets DSPF simplex 140ipm / duplex 280ipm	130sheets DSPF simplex 82ipm / duplex 141ipm	
	Std. DSPF ultrasonic doublefeed detection sensor	Not supported	
	Unique Bitdefender real time virus scan (option)	McAfee security (different approach/ Whitelisting)	
	Std. 8GB RAM and 250GB SSD / opt. 1TB SSD	Std. 4GB RAM and 128GB SSD/ opt. 500GB HDD	
	Toner exchange “On the fly”	System stop for toner exchange	
	Optional 2tray Post Inserter support	Not supported	
	50 or 100sheets stapler with ext. finisher types	Max. 50sheets stapler with ext. finisher types	
	OOXML (pptx, docx, xlsx) scan + Direct print	Not supported	
	Std. Tri-fold/ C-fold w. booklet finisher + opt. Z-fold	Only w. add. opt. C-fold/ Z-fold unit + BR finisher	
	Booklet finisher up to 80 orig. / 20 sheets	Booklet finisher up to 64 orig. / 16 sheets	
	Dynamic ECO Timer / Eco Meter indicator	Not supported (only std. weekly timer)	
	Fusing unit yield – 1.000k (C450i : 800k)	Fusing unit yield 200k	
	Developer yield CMYK – 1.000k	Print cartridges (Drum/Dev IU) CMYK 180k	
	Drum yield CMY 165k, K 240k	Print cartridges (Drum/Dev IU) CMYK 180k	
	Opt. Copy Guard / Password copy security	Not supported	
	Std. PPML variable data (VDP) support	Only with optional Fiery controller	

## Kyocera TASKalfa 4053ci / 5053ci / 6053ci

### Speed TASKalfa 4053ci:

A4 colour/BW: 40/40 ppm

A3 colour/BW: 20/20 ppm

### Speed TASKalfa 5053ci / 6053ci:

A4 colour/BW: 50/50 / 55/60 ppm

A3 colour/BW: 25/25 / 27/30 ppm

### Launched March 2019

\* = not available in all countries


























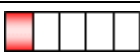



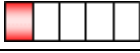


















### Highlights / Advantages

- Standard system security level (std. HDD data security ISO 15408 EAL2 / IEEE2600.2 level + Secure boot + Integrity check)
- Standard 1200 x 1200dpi (2Bit) print resolution in system speed
- Additional higher speed (duplex 220ipm) Dual Scan Document feeder (DP-7130) with ultrasonic double-feed detection sensor
- New designed and structured 'tablet like' 10.1" User Interface with less HW keys and optional number keypad
- Std. NFC support, Optional WiFi lan and Wi-Fi Direct support
- 7-bin Mailbox sorter available / Booklet finisher types with std. Letter/ C-fold support
- A6 to SRA3 and Banner paper (320x1220mm) support / Bypass tray up to 300g/m<sup>2</sup>
- ES 2.0 TEC value 1,9 / 2,5 / 3,1 kWh/week; Optional Fiery controller available
- Inner staple finisher type supported (+ optional punch unit) and three external finisher types + booklet modul types
- Drum yield CMYK 200k (OPC drum type)
- Paper capacity up to 7150 sheets

### Disadvantages

- Shared performance with Dual Core 1.2GHz CPU
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- Nothing available like Bitdefender real-time virus scan support
- OOXML (pptx, xlsx, docx) scan format support only with optional Scan Extension kit (A)
- No OOXML (pptx, xlsx, docx) direct print support (only PDF / XPS)
- No UI direct remote operator panel access
- No CSRC remote service or WW Remote Service platform support
- HyPAS open platform support but no IWS 2.5 comparable support for individual panel customisation
- Nothing comparable to MarketPlace direct app support
- Opt. WiFi Direct support but opt. WiFi without embedded WiFi AP router mode to be separated from customer network
- NFC only for starting the mobile print job – no real IP pairing and no authentication
- No optional UFP cleaning filter support to minimize emissions
- DSPF ultrasonic double feed detection sensor only with special DSPF doc feeder (DP-7130)

Why is the  
**bizhub C450i / C550i**  
a better solution?

bizhub C450i / C550i		Kyocera TASKalfa 5053ci	
	10.1" hard key less multi-touch 'tablet like' UI	10.1" multi-touch 'tablet like' UI (less hardkeys)	
	WUT – 14 / 15 sec. / TEC – 2,1 / 2,8 kWh/week	WUT - 17 sec. / TEC 2,5 kWh/week	
	Std. 300sheet DSPF 140 ipm / Duplex 280 ipm	Opt. 270sheet DSPF 110 ipm / Duplex 220 ipm	
	Std. unique auto paper weight detection sensor	Not supported – manual paper weight setting	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. 4GB RAM + 8GB SSD + 320GB HDD	
	High performance Quad Core 1.6GHz CPU	1.2GHz Dual Core system CPU	
	Opt. WiFi AP and WiFi Direct for Mobile print	Opt. WiFi Direct kit; No opt. WiFi AP mode	
	OOXML (pptx, docx, xlsx) scan support	Only with optional Scan extension kit (A)	
	Std. OOXML (pptx, docx, xlsx) direct print support	Not supported	
	IWS customisation + KM Marketplace apps	No individual panel customisation, No app portal	
	Booklet finisher up to 80 orig. / 20 sheets	Booklet finisher types 64/16sheets or 80/20sheets	
	Opt. embedded Z-fold unit (space saving)	Z-fold in general not supported	
	Opt. 2tray Post Inserter support	Not supported	
	Opt. LCT/ large capacity tray for A4 or SRA3	Opt LCT paper tray only for A4 paper format	
	Opt. UFP cleaning filter to minimize emissions	Not supported	
	Std. PPML (variable data / VDP) support	Not supported (only w. opt. Fiery controller)	
	Std. highest data security incl. HCD-PP	Std. CC 15408 EAL2 / IEEE2600.2 (HDD optional)	
	Unique Bitdefender real time virus scan (option)	Not supported	
	Standard Internet fax functionality	Internet fax kit optional	
	UI Remote panel and CSRC remote service	Both not supported (only email notification)	
	Dynamic ECO Timer / Eco Meter Indicator	Std. Weekly timer / No Eco Indicator	
	Polymerized Toner yield CMY 28k / K 28k	Toner yield CMY 20k / K 30k	
	Fusing unit 1.000k / Developer CMYK 1.000k	Fusing unit and Developer CMYK 600k	

## Sharp MX-4051 / MX-5051 / MX-6051

### Speed MX-4051 (MX-4061)

A4 colour/BW: 40/40 ppm

A3 colour/BW: 20/20 ppm

### Speed MX-5051 / MX-6051

A4 colour/BW: 50/50 ppm / 60/60 ppm

A3 colour/BW: 26/26 ppm / 30/30 ppm



### Launched 03/2019

MX-4061 model with up to 1200dpi print and std. WiFi


























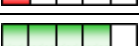




















### Highlights / Advantages

- 10,1" 'tablet like' customisable multi touch panel; optional OSA open platform support; opt. Alexa Voice command
- New Sharp App portal (Spring 2019), Expanded Cloud services, simplified icon customisation (drag and drop)
- Standard PDF Direct Print with embedded Adobe print engine (former optional)
- Improved security features: Whitelisting, FW attack prevention and self-recovery capability
- Remote control panel access; Optional WiFi Direct + AP; Std. AirPrint, Mopria for mobile printing
- Scan and Box Preview and Editing functionality; Optional stapleless + manual stapling finisher
- Toner cover lock mechanism; Energy Star TEC 2,3 / 3,2 / 3,7 kWh/week
- SRA3 and Banner paper support (297x1200mm); Drum yield CMY – 200k, K 250k; Developer CMYK 1.200k
- Optional second LAN network card available for two individual network areas

### Disadvantages

- Nothing available like Bitdefender real-time virus scan support
- Std. only PCL6 - PostScript 3 always optional; XPS print kit optional; Internet Fax kit always an extra option
- Max. 600x600 dpi print resolution for Colour and BW (MX-5051 and MX-6051 can print with 1200dpi but for BW only)
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- Only 100 sheets RADF reverse Document feeder / No DSPF and no ultrasonic double feed detection sensor supported
- Low RADF reverse doc feeder scan speed - simplex 80 ipm and duplex only 25 ipm
- Opt. Compact PDF; No OOXML (docx, xlsx, pptx) scan format support; OOXML (docx, xlsx, pptx) direct print only optional
- Only 1,75GHz Dual Core CPU
- No Letter/Tri-fold/ C-fold finishing supported; No optional Z-fold unit support; No opt. Post Inserter available
- No Fiery print controller optional available
- Low Fusing unit + transfer belt yield - 300k
- No CSRC remote service or WW Remote Service platform support (only email notification)
- Slower data access: HDD (rotating hard disc drive) vs. much faster SSD (Solid State Drive) of bizhub i-Series
- Sharp OSA open platform support require three additional optional modules
- Common Criteria 15408 HDD data security kit optional
- No optional UFP cleaning filter support to minimize emissions

Why is the  
**bizhub C450i / C550i**  
a better solution?

bizhub C450i / C550i		Sharp MX-5051	
	10.1" hard key less multi-touch 'tablet like' UI	10.1" multi-touch panel w. 'tablet like' UI	
	IWS customisation + KM Marketplace apps	Enhanced UI customisation, Sharp web app portal	
	Std. OpenAPI, IWS 2.5 + WebBrowser	Opt. OSA support, Opt. Web Browser	
	True print resolution up to 1200x1200 dpi	Print resolution 600x600dpi / 1200dpi only for BW	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. 5GB RAM and 500GB HDD	
	300sheet DSPF up to 140 ipm / Duplex 280 ipm	Only 100 sheet RADF 80 ipm / Duplex 25 ipm	
	High performance Quad Core 1.6GHz CPU	1,75GHz Dual Core system CPU	
	WUT 15sec./ TEC 2,1 / 2,8 KWh / Sleep 0,5 Watt	WUT 31 - 45sec./ TEC 3,2 KWh / Sleep 0,6 Watt	
	Std. OOXML (docx, xlsx, pptx) Direct print	Requires optional Direct print kit	
	OOXML scan support (pptx, docx, xlsx)	Not supported	
	Std. Compact PDF scan format support	Compact PDF scan requires optional kit	
	NFC + BluetoothLE authentication and pairing	Both not supported	
	Booklet finisher up to 80 orig. / 20 sheets	Booklet finisher up to 80 orig. / 20 sheets	
	Opt. UFP cleaning filter to minimize emissions	Not supported	
	Std. highest data security incl. HCD-PP	HDD CC 15408 data security kit optional	
	Unique Bitdefender real time virus scan (option)	Not supported	
	Std. auto paper weight detection sensor	Not supported – manual paper weight setting	
	Std. PPML (variable data / VDP) support	Not supported	
	Std. Postscript 3 PDL support	Postscript 3 support optional	
	Letter/Tri-fold / C-fold finishing	Not supported	
	Optional Fiery controller available	Not supported	
	Fusing unit yield – 1.000k	Fusing unit yield – 300k	
	Toner exchange "On the fly"	System stop for toner exchange	

## Sharp MX-4071 / MX-5071 / MX-6071

### Speed MX-4071

A4 colour/BW: 40/40 ppm

A3 colour/BW: 20/20 ppm



### Speed MX-5071 / MX-6071

A4 colour/BW: 50/50 ppm / 60/60 ppm

A3 colour/BW: 26/26 ppm / 30/30 ppm

Launched 03/2019

















































### Highlights / Advantages

- 10,1" 'tablet like' customisable multi touch panel with retractable keyboard; OSA open platform; opt. Alexa Voice command
- New Sharp App portal (Spring 2019), Expanded Cloud services, simplified icon customisation (drag and drop)
- Standard PDF Direct Print with embedded Adobe print engine (former optional)
- Improved security features: Whitelisting, FW attack prevention and self-recovery capability
- Remote control panel access; Std. WiFi Direct / AP/ Cloud / AirPrint / Mopria for mobile printing
- 1.9GHz Quad Core CPU; Std. 5GB RAM and 500GB HDD
- Std. 150sheets DSPF with 110ipm / 220ipm; Drum yield CMY 200k, K 250k; Toner cover lock mechanism
- Scan and Box Preview and Editing functionality
- Optional stapleless + manual stapling finisher
- SRA3 and Banner paper support (297x1200mm)
- Std. searchable PDF and compact PDF scan format
- Walk-up motion sensor to reduce recovery time; Energy Star TEC 2,3 / 3,2 / 3,7 kWh/week

### Disadvantages

- Nothing available like Bitdefender real-time virus scan support
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- No Fiery print controller optional available; No optional biometric authentication (finger vein)
- Std. DSPF but no ultrasonic double feed detection sensor supported
- Common Criteria 15408 Data security kit optional
- No Letter/Tri-fold/ C-fold finishing supported; No optional Z-fold unit support; No opt. Post Inserter available
- Low Fusing unit + transfer belt yield - 250k
- No CSRC remote service or WW Remote Service platform support (only email notification)
- Neither standard nor optional NFC authentication or NFC pairing support
- No optional UFP cleaning filter support to minimize emissions
- First step of new Sharp App web portal (will come up in May/ June 2019)
- Slower data access: HDD (rotating hard disc drive) vs. much faster SSD (Solid State Drive) of bizhub i-Series

Why is the  
**bizhub C550i / C650i**  
a better solution?

bizhub C550i / C650i		Sharp MX-5071 / 6071	
	10.1" hard key less multi-touch 'tablet like' UI	10.1" multi-touch w. 'tablet like' UI + std. keyboard	
	IWS customisation + KM Marketplace apps	Enhanced UI customisation, Sharp web app portal	
	Std. OpenAPI, IWS 2.5 + WebBrowser	Opt. OSA support, Std. Web Browser	
	True print resolution up to 1200x1200 dpi	True print resolution max. 1200x1200 dpi	
	300sheet DSPF up to 140 ipm / Duplex 280 ipm	150sheet DSPF up to 110 ipm / Duplex 220 ipm	
	Std. DSPF ultrasonic double feed detect. sensor	Not supported	
	High performance Quad Core 1.6GHz CPU	High performance Quad Core 1.9GHz CPU	
	WUT 15sec./ TEC 2,8 / 3,5 KWh / Sleep 0,5 Watt	WUT 31-45sec./ TEC 3,2 / 3,7 KWh/ Sleep 0,6 W	
	Std. OOXML (docx, xlsx, pptx) Direct print	Std. OOXML (docx, xlsx, pptx) Direct print	
	OOXML scan support (pptx, docx, xlsx)	Not supported	
	Std. Compact PDF scan format support	Std. Compact PDF scan format support	
	NFC + BluetoothLE authentication and pairing	Both not supported	
	Booklet finisher up to 80 orig. / 20 sheets	Booklet finisher up to 80 orig. / 20 sheets	
	Opt. UFP cleaning filter to minimize emissions	Not supported	
	Std. highest data security incl. HCD-PP	HDD CC 15408 data security kit optional	
	Unique Bitdefender real time virus scan (option)	Not supported	
	Std. PPML (variable data / VDP) support	Not supported	
	Std. auto paper weight detection sensor	Not supported – manual paper weight setting	
	Letter/Tri-fold / C-fold finishing	Not supported	
	Optional Fiery controller available	Not supported	
	Standard Internet fax functionality	Internet fax kit optional	
	Fusing unit yield – 1.000k	Fusing unit yield – 300k	
	Toner exchange "On the fly"	System stop for toner exchange	

## Toshiba e-studio 4515AC / 5015AC

### Speed 4515AC:

A4 colour/BW: 45/45 ppm

A3 colour/BW: 22/22 ppm

### Speed 5015AC:

A4 colour/BW: 50/50 ppm

A3 colour/BW: 25/25 ppm

Launched October 2018
































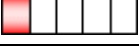












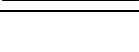
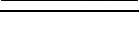


### Highlights / Advantages

- Std. 4GB RAM and Toshiba proprietary data encryption Security HDD (320GB)
- SRA3 and Banner paper (305x1200mm) support
- Optional 100sheet RADF (80ipm simplex) or 300sheets DSPF dual scan Doc feeder (up to 120ipm simplex / 240ipm duplex)
- 10.1" tablet-style customisable multi-touch panel (Elevate) with embedded WebBrowser
- Optional kits (e-Bridge Re-Rite + OCR Enabler) for PDF/A / OCR and Scan to OOXML (docx, xlsx)
- Warm-up-time – 20 seconds; Energy Star TEC value – 2,1 / 2,4 kWh/week
- Enhanced std. security features like 'secure print' and 'encrypted secure print'
- Opt. WiFi / WiFi Direct and Bluetooth
- Std. Mopria and AirPrint and Google Cloud Mobile print support

### Disadvantages

- No CSRC remote service or WW Remote Service platform support (only email notification)
- No DSPF ultrasonic double feed detection sensor supported
- Nothing available like unique Bitdefender real-time virus scan support
- Scan to box (HDD) max. 200 users (e-filing); Only 1.33GHz Dual Core CPU
- Slower access rate: HDD (rotating hard disc drive) vs. much faster SSD (Solid State Drive) of bizhub i-Series
- Opt. punching unit require additional space/footprint (no built-in version)
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- Max paper capacity only 3200 sheets
- Booklet saddle stitch max. 60 originals / 15 sheets; No C-fold / Letter/ Tri-fold finishing and no Z-fold support
- HDD data overwrite security kit optional; IPsec enabler optional
- FIPS/ CC 15408 certified HDD optional
- Drum yield CMY 105k / 105k, K 210k / 210k; Developer yield CMYK 210k / 210k
- No optional Fiery controller available; No optional Z-fold unit and no Post Inserter tray unit support
- No optional UFP cleaning filter support to minimize fine particle emissions

Why is the  
**bizhub C450i**  
a better solution?

bizhub C450i		Toshiba eStudio 5015AC	
	10.1" hard key less multi-touch 'tablet like' UI	10.1" multi-touch panel w. 'tablet like' UI	
	Std. OpenAPI, IWS 2.5 + WebBrowser	Opt. eOP open platform, std. WebBrowser	
	IWS customisation + KM Marketplace apps	Limited panel customisation, No app support	
	Std. auto paper weight detection sensor	Not supported – manual paper weight setting	
	Max. paper capacity 6650 sheets	Max. paper capacity 3200 sheets	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. and max. 4GB RAM and 320GB HDD	
	Std. DSPF ultrasonic double feed detect. sensor	Not supported	
	Std. NFC authentication and pairing	Not supported	
	Std. highest data security incl. HCD-PP	IPsec, HDD data overwrite / CC 15408 all optional	
	Unique Bitdefender real time virus scan (option)	Not supported	
	OOXML (docx, xlsx, pptx) Direct print / scan	Optional OOXML (docx, xlsx) scan support	
	High performance Quad Core 1.6GHz CPU	1.33GHz Dual Core CPU	
	Booklet finisher up to 80 orig. / 20 sheets	Booklet finisher up to 60 orig. / 15 sheets	
	HDD/ Box functionality / up to 1000 users	HDD/ e-filing functionality / max. 200 users	
	Dynamic ECO Timer / Eco Meter indicator	Std. weekly timer / No Eco indicator	
	Optional Fiery controller available	Not supported	
	Letter/Tri-fold / C-fold finishing + opt. Z-fold unit	All not supported	
	Space saving built-in finisher punch units	Opt. punch unit require additional footprint	
	Opt. UFP cleaning filter to minimize emissions	Not supported	
	Developer yield CMYK – 1.000k	Developer yield CMYK 210k	
	Fusing unit yield – 800k	Fusing unit yield – 300k	
	Drum yield CMY 155k / K 240k	Drum yield CMY 105k / K 210k	
	Std. PPML (variable data VDP) support	Not supported	

## Toshiba e-studio 5516AC / 6516AC

### Speed 5516AC:

A4 colour/BW: 55/65 ppm

A3 colour/BW: 27/30 ppm

### Speed 6516AC:

A4 colour/BW: 65/75 ppm

A3 colour/BW: 30/37 ppm

Launched December 2018






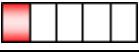





















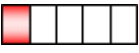

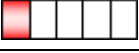















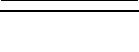


### Highlights / Advantages

- Std. 4GB RAM and Toshiba proprietary data encryption Security HDD (320GB)
- SRA3 and Banner paper (313x1200mm) support
- Std. 300sheets DSPF Doc feeder up to 120ipm simplex / 240ipm duplex scan speed
- 10.1" tablet-style customisable multi-touch panel (Elevate) with embedded WebBrowser
- Optional kits (e-Bridge Re-Rite + OCR Enabler) for PDF/A / OCR and Scan to OOXML (docx, xlsx)
- Warm-up-time – 20 seconds; Energy Star TEC value – 3,7 / 4,5 kWh/week
- Drum yield CMYK 480k; Toner print cartridge yield (toner + developer): CMY 39,2k, K 106k
- Enhanced std. security features like 'secure print' and 'encrypted secure print'
- Opt. WiFi / WiFi Direct and Bluetooth
- Std. Mopria and AirPrint and Google Cloud Mobile print support

### Disadvantages

- No CSRC remote service or WW Remote Service platform support (only email notification)
- No DSPF ultrasonic double feed detection sensor supported
- Nothing available like Bitdefender real-time virus scan support
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- Slower access rate: HDD (rotating hard disc drive) vs. much faster SSD (Solid State Drive) of bizhub i-Series
- Only 1,75GHz Dual Core CPU; Scan to box (HDD) max. 200 users (e-filing)
- Opt. punching unit require additional space/footprint (no built-in version)
- Max. paper capacity 4780 sheets (max. 6020sheets only for e-studio5516AC LCF version – not avail. for 6516AC model)
- Booklet saddle stitch max. 60 originals / 15 sheets; No C-fold / Letter/ Tri-fold finishing
- HDD data overwrite security kit optional; IPsec enabler optional; FIPS/ CC 15408 certified HDD optional
- No optional Fiery controller available
- Neither standard nor optional NFC authentication or NFC pairing support
- No optional UFP cleaning filter support to minimize emissions

Why is the  
**bizhub C550i / C650i**  
a better solution?

bizhub C550i / C650i		Toshiba eStudio 5516AC	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. and max. 4GB RAM and 320GB HDD	
	Std. DSPF ultrasonic double feed detect. sensor	Not supported	
	IWS customisation + KM Marketplace apps	Limited panel customisation, No app support	
	Std. auto paper weight detection sensor	Not supported – manual paper weight setting	
	Max. paper capacity 6650 sheets	Max. paper capacity 4780 sheets	
	WUT 15sec./ TEC 2,8 / 3,5 KWh / Sleep 0,5 Watt	WUT >20sec./ TEC 3,7 KWh / Sleep 0,6 W	
	Std. highest data security incl. HCD-PP	IPsec, HDD data overwrite / CC 15408 all optional	
	Unique Bitdefender real time virus scan (option)	Not supported	
	OOXML (docx, xlsx, pptx) Direct print / scan	Optional OOXML (docx, xlsx) scan support	
	High performance Quad Core 1.6GHz CPU	1.75GHz Dual Core CPU	
	Booklet finisher up to 80 orig. / 20 sheets	Booklet finisher up to 60 orig. / 15 sheets	
	HDD/ Box functionality / up to 1000 users	HDD/ e-filing functionality / max. 200 users	
	Dynamic ECO Timer / Eco Meter indicator	Std. weekly timer / No Eco indicator	
	Optional Fiery controller available	Not supported	
	Letter/Tri-fold / C-fold finishing + opt. Z-fold unit	All not supported	
	50sheets or 100sheets staple finisher support	Max. 50sheets staple finisher support	
	Space saving built-in finisher punch units	Opt. punch unit require additional footprint	
	A4 or SRA3 LCT (3000/2500) available	Opt. LCF tray only for 5516AC and only A4 format	
	Opt. UFP cleaning filter to minimize emissions	Not supported	
	Developer yield CMYK – 1.000k	Developer yield CMYK 210k	
	Fusing unit yield – 1.000k	Fusing unit yield – 300k	
	Std. PPML (variable data VDP) support	Not supported	
	Std. NFC authentication and pairing	Not supported	

## Lexmark CX 922DE / 923DTE / CX924DTE

### Speed

#### Lexmark CX922DE / CX923DTE:

A4 colour/BW: 45/45 ppm / 55/55 ppm

A3 colour/BW: 22/22 ppm / 27/27 ppm

#### Lexmark CX 924DTE:

A4 colour/BW: 65/65 ppm

A3 colour/BW: 32/32 ppm



### Launched October 2017

**100% bizhub C658 series engine with Lexmark own UI,  
Lexmark print controller and reduced configurations!**






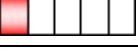





















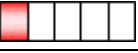





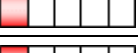








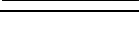
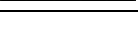


### Highlights / Advantages

- Lexmark e-Task 10,0" colour touchscreen display with app and eSF open platform support
- 1,2GHz Quad Core CPU; Std. 500GB HDD
- Developer CMYK 600k; Fusing unit yield 720k
- Bypass tray up to 300g/m<sup>2</sup> paperweight
- SRA3 and Banner paper support
- Always pre-installed std. 100sheets DSPF dual scan doc feeder with scan speed up to 80 ipm / Duplex 160 ipm
- Engine and options are 100% OEM of bizhub C658 series
- Opt. WiFi/ WiFi Direct/ NFC kit; Std. AirPrint and Mopria support
- Std. searchable PDF and secure PDF scan format plus external OCR software

### Disadvantages

- Nothing available like Bitdefender real-time virus scan support
- No optional UFP cleaning filter support to minimize emissions
- No DSPF ultrasonic double feed detection sensor supported
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- Slower access rate: HDD (rotating hard disc drive) vs. much faster SSD (Solid State Drive) of bizhub i-Series
- No CSRC remote service or WW Remote Service platform support (only email notification)
- Long WUT - 67 seconds (based on Lexmark own UI and print controller)
- Higher TEC value – 3,8 / 4,6 / 5,0 kWh/week / Sleep mode power consumption 3 Watt
- DTE configuration: max. paper capacity 5150 sheets (only DXE pre-configuration model up to 6650 sheets)
- Std. only 2GB RAM / max. 4GB RAM
- No IWS support; only 6 basic apps supported – No variable app support like Konica Minolta MarketPlace
- Limited to 50sheets staple or booklet finisher (100sheets staple or booklet finisher not supported or in portfolio!)
- No optional Fiery controller supported; No OOXML (pptx, docx, xlsx) scan format support
- Drum yields K 100k and CMY 90k ; First delivery toner only K 18,5k, CMY 11,5k

Why is the  
**bizhub C550i**  
a better solution?

bizhub C550i		Lexmark CX 923DTE	
	WUT – 15 sec.; TEC value 2,8 kWh/week	WUT – 67 sec. ; TEC value 4,6 kWh/week	
	Sleep mode 0,5 Watt (ErP mode 0,2 Watt)	Sleep mode power consumption 3 Watt	
	Unique Bitdefender real time virus scan (option)	Not supported	
	Std. OpenAPI, IWS 2.5 + WebBrowser	Std. eSF open platform and WebBrowser	
	Std. auto paper weight detection sensor	Not supported – manual paper weight setting	
	Opt. WiFi AP and WiFi Direct for Mobile print	Opt. WiFi AP and WiFi Direct for Mobile print	
	300sheets DSPF scan 140 ipm / Duplex 280 ipm	100sheets DSPF scan 80 ipm / Duplex 160 ipm	
	Std. DSPF ultrasonic double feed detect. sensor	Not supported	
	Max. paper capacity 6650 sheets	Max 5150 sheets (6650 only with DXE config.)	
	OOXML (pptx, docx,xlsx) scan format	Not supported	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. 2GB RAM and 500GB HDD (max 4GB RAM)	
	High performance Quad Core 1.6GHz CPU	1.2GHz Quad Core CPU	
	IWS customisation + KM Marketplace apps	Panel customisation and limited app support	
	50sheets or 100sheets staple finisher support	Max. 50sheets staple finisher support	
	Opt. Post Inserter + Z-fold unit supported	Both not supported	
	A4 or SRA3 LCT (3000/2500) available	Only A4 LCT (3000sheets) available	
	Dynamic ECO Timer / Eco Meter indicator	Std. Weekly timer / No Eco Indicator	
	Optional Fiery controller available	No Fiery available	
	Opt. UFP cleaning filter to minimize emissions	Not supported	
	Developer yield CMYK 1.000k, Fusing unit 1.000k	Developer yield CMYK 600k, Fusing unit 720k	
	Drum yield CMY 155k / K 240k	Drum yield CMY 90k / K 100k	
	Std. PPML (variable data VDP) support	Not supported	
	Toner exchange "On the fly"	System stop for toner exchange	

# HP CLJ Managed MFP E87640dn/ E87650dn/ E87660dn HP CLJ Managed Flow MFP E87640z/ E87650z/ E87660z

## HP Man. E87640dn/ z:

A4 colour/BW: 40/40 ppm

A3 colour/BW: 21/21 ppm

## HP Man. E87650dn/ z / E87660dn/ z:

A4 colour/BW: 50/50 ppm / 60/60 ppm

A3 colour/BW: 25/25 ppm / 30/30 ppm



Picture: **Flow z** model type

## Launched 06/2017

Engines + finisher types based 100% on Samsung MX-7 series (discontinued) but with HP own UI, Security, Print controller and always std. DSPF doc feeder and higher toner yield.












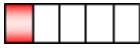







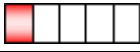





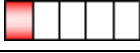





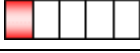

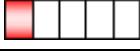

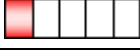









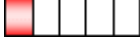
## Highlights / Advantages

- HP A3 MFP series based on 'Samsung MX-7 series' engine and finisher but adjusted with HP own User Interface
- HP designed 8" tablet-like UI; HP OXP open platform support
- Max. 1200 x 1200 dpi print resolution (reduced speed); Scan preview & editing functionality
- Very high Security level and features (SureStart, Whitelisting, Intrusion detection ect.)
- Std. 2x 320GB HDD with encryption + overwrite security (CC 15408/ IEEE2600);
- '**Flow z**' model: DSPF with std. ultrasonic double feed sensor, skew orientation, retractable keyboard and embedded OCR
- '**Flow z**' model: std. faster 250sheets DSPF with 120ipm / duplex 240ipm
- Std. 100sheet DSPF Document feeder for **dn model** types with 90ipm / duplex 180ipm scan speed
- 1.2GHz Quad Core CPU; Std. 7GB RAM + 2x 320GB HDD (640GB)
- High Toner yield CMY 52k, K 54k
- ES 2.0 TEC value 2,7 / 3,3 / 3,9 kWh/week

## Disadvantages

- Small 8" UI with limited multi-touch functionality and limited customer specific panel customisation
- Nothing available like direct MarketPlace App support or IWS panel customisation
- Nothing available like Bitdefender real-time virus scan support
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- No OOXML (docx,xlsx, pptx) scan&print format support; No Banner paper (297x1200mm) print support
- No letter/Tri fold functionality with optional booklet finisher; Booklet saddle stitch max. 60 originals / 15 sheets
- Max. 65sheets staple or booklet finisher type; No Z-fold unit supported; No optional Post Inserter supported
- DSPF with standard ultrasonic double feed detection sensor only supported with special '**Managed Flow z**' models
- Slower access rate: HDD (rotating hard disc drives) vs. much faster 256GB or 1TB SSD (Solid State Drive) of bizhub i-Series
- Only up to 72% A4 and A3 Copy and Print Duplex efficiency vs. up to 100% with bizhub i-series
- No standard or optional UFP cleaning filter support to minimize emissions
- No optional Fiery controller supported

Why is the  
**bizhub C550i**  
a better solution?

bizhub C550i		HP CLJ Man. E87650dn	
	WUT 15sec. / TEC 2,8 kWh/week / Sleep 0,6 Watt	WUT 21sec. / TEC 3.3 kWh/week / Sleep 12 Watt!	
	A6 to SRA3 + Banner paper (297x1200mm)	A5 to SRA3 paper / No Banner paper format	
	10.1" hard key less multi-touch 'tablet like' UI	Std. 8" tiltable hard-key less colour touchscreen	
	Simple UI + many multi-touch functionalities	No multi-touch / all features are button controlled	
	IWS customisation + KM Marketplace apps	No individual UI customiation / No App support	
	Unique Bitdefender real time virus scan (option)	Not supported	
	Std. auto paper weight detection sensor	Not supported – manual paper weight setting	
	Up to 100% A4 and A3 duplex print efficiency	Only up to 72% A4 and A3 duplex print efficiency	
	300sheet DSPF 140 ipm / Duplex 280 ipm	100sheet DSPF 90 ipm / Duplex 180 ipm	
	Std. DSPF ultrasonic double feed detect. sensor	Not supported (only std. with Flow z model type)	
	50sheets or 100sheets staple finisher support	Max. 65sheets staple finisher support	
	Booklet finisher up to 80 orig. / 20 sheets	Booklet finisher up to 60 orig. / 15 sheets	
	Letter/ Tri-fold / C-fold fold finishing + Z-fold unit	All not supported	
	Scan to box/HDD up to 1000 users	Scan to box/HDD up to 100 users	
	Std. PPML (variable data VDP) support	Not supported	
	Optional Fiery controller available	Not supported	
	OOXML(pptx, docx, xlsx) scan + Direct print	Both not supported	
	Remote panel access and CSRC remote service	Both not supported (only email notification)	
	Fax up to 600x600dpi scan resolution	Fax scan resolution max 300x300dpi	
	Drum yield CMY 155k / K 240k; Developer 1.000k	Drum yield CMY 145k / K 160K; Developer 720k	
	Toner exchange "On the fly"	System stop for toner exchange	
	Fusing unit yield – 1.000k	Fuser unit yield - 360k	
	Dynamic ECO Timer / Eco Meter indicator	Not supported	

## HP PageWide Pro 772dn / Pro 777z (HP P77940dn)

### Speed (ISO speed)

#### HP PageWide Pro 772dn:

A4 colour/BW: 35/35 ppm

A3 colour/BW: NA/NA ppm

#### HP PageWide Pro 777z / P77940dn:

A4 colour/BW: 45/45 ppm/ 40/40ppm

A3 colour/BW: NA/NA ppm



Pro 772dn

INKjet!

Pro 777z / P77940dn

### Launched 06/2017

**Pro 777z** close to **HP P77940dn** (B2B model with 40 to 60ppm speed + higher RAM + Security)

**Pro 772dn** with small 4,3" UI, High speed max 55ppm and no std. or opt. WiFi or WiFi Direct or NFC










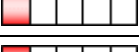















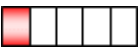

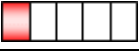









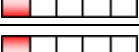





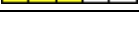


### Highlights / Advantages

- A3 PageWide (ink) series with variable print speed Pro 777z: 45 (default) and high speed up to 65ppm (draft image quality!)
- Std. UI Preview functionality, std. WiFi, WiFi Direct & NFC and BluetoothLE (WiFi / NFC optional for P77940dn model)
- Std. PCL5/6, Postscript3 support and std. Fax G3 support
- Low energy power consumption; ES 2.0 TEC value 1,4 (Pro 772) / 1,7 (Pro 777z) and 1,6 (P77940dn) kWh/week
- Less consumables - no drums and no developer and no fusing unit required – only ink cartridges and cleaning + wiper unit
- Environment reasoning against UFP (ultra fine particle) discussion
- Std. 100sheets DSPF dual scan (single pass) document feeder
- Paper weights: Bypass tray max. 300 g/m<sup>2</sup> / Duplex max. 200 g/m<sup>2</sup> / Paper trays 200 g/m<sup>2</sup>
- HP Pagewide ink system (no line by line moving printhead but paper moves under the pagewide printhead)

### Disadvantages

- Small 8" UI with limited multi-touch functionality (button controlled) and limited customer specific panel customisation
- Nothing available like direct MarketPlace App support or IWS panel customisation
- Nothing available like Bitdefender real-time virus scan support; No auto media weight detection sensor supported
- Basically with Pro or P77940dn series no external finishing options are available
- Std. DSPF dual scan Doc feeder with low scan speed: simplex scan 50ipm and duplex scan only 35ipm
- No ultrasonic double feed detection sensor supported with DSPF
- Low copy and print duplex productivity: simplex up to 45ppm; duplex only up to 31ppm (68% efficiency)
- High speed print mode in draft quality (300dpi up to 5% coverage); With higher coverage strongly reduced system speed
- Max. paper capacity 4650 sheets; Paper trays and Duplex paper weight max. 200 g/m<sup>2</sup>
- No OOXML (docx,xlsx, pptx) scan & print format support
- Std. 1,5GB RAM and 16GB SSD - only for Secure print functionality (job storage); optional 128GB Memory module
- With basic configuration and highest paper capacity configuration A3 support only via Bypass tray
- Max standard A3 paper format; No A3+ / No SRA3 / No Banner paper support
- To prevent ink from drying out, the majority of prints must be in 4 colour mode (or regular ink cleaning processes are started)
- Only 1.2 GHz Dual Core CPU; No optional Fiery controller supported

Why is the  
**bizhub C450i**  
a better solution?

bizhub C450i		HP PageWide Pro 777z	
	TEC 2,1 KWh/week and Sleep mode 0,5 Watt	TEC 1,7 KWh/week but Sleep mode 3,1 Watt	
	High performance Quad Core 1.6GHz CPU	1.2GHz Dual Core CPU	
	10.1" hard key less multi-touch 'tablet like' UI	Smaller 8" colour hard keyless touchscreen	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. 1,5GB RAM + 16GB SSD / optional 128GB	
	Unique Bitdefender real time virus scan (option)	Not supported	
	IWS customisation + KM Marketplace app ready	Both not supported	
	Std. 300sheets DSPF 140 ipm / Duplex 280 ipm	Std. 100sheets DSPF 50 ipm / Duplex 35 ipm	
	Std. ultrasonic double feed sensor with DSPF	No ultrasonic double feed detection support	
	Copy and print duplex productivity up to 100%	Copy and print duplex productivity < 68%	
	Full system speed with highest print coverage	If higher coverage – slower system print speed	
	Trays + Auto Duplex paperweight 52–256 g/m <sup>2</sup>	Trays + Auto Duplex paperweight 60–200 g/m <sup>2</sup>	
	Std. A3+, SRA3 and Banner paper support	All not supported (max. standard A3 format)	
	Max. paper capacity - 6650 sheets	Max. paper capacity - 4650 sheets	
	Different Internal and external finishing options	Finishing not supported	
	Booklet, C/ Tri/ Z-folding, stapling , punching ect.	All not supported	
	External A4 or SRA3 LCT (3000/2500) available	Only A4 LCT (2x2000sheets) instead of pap. trays	
	Scan to box/HDD up to 1000 users	No scan to box/HDD functionality	
	OOXML(pptx, docx, xlsx) scan/print support	Not supported	
	Std. PPML (variable data VDP) support	Not supported	
	Remote panel access and CSRC remote service	Both not supported (only email notification)	
	Optional Fiery controller available	Not supported	
	Toner exchange "On the fly"	System stop required for 'ink' exchange	
	Toner yield CMY 28k / K 28k	High yield Ink cartridges CMY 16k / K 20k	

## HP PageWide Managed MFP E77650 / E77660 dn/z/zs/z+

### Speed (ISO speed)

#### HP PageWide E77650dn/ z/ zs/ z+:

A4 colour/BW: 50/50 ppm

A3 colour/BW: NA/NA ppm

#### HP PageWide E77660dn/ z/ zs/ z+:

A4 colour/BW: 60/60 ppm

A3 colour/BW: NA/NA ppm

Launched 04/2018

**dn/dn+** with slower DSPF feeder (90/ 180ipm)

**dns/ zs** with std. inner staple finisher; **dn+/ z+** with external finisher!

Comparable to HP PageWide Enterprise 780dn/ 785zs/ z+ (55/55ppm)  
or PageWide P77950/ P77960 dn/dns/ dn+ (slower Doc feeder)












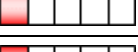















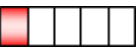



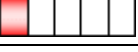













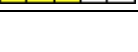


### Highlights / Advantages

- A3 PageWide ink with variable print speed 50 / 60ppm (default) up to 70 / 80ppm (draft image quality!)
- Standard HP highest level of security (SureStart, Whitelisting ect.)
- Low energy power consumption for no finisher model types; less consumables: no drums no developer and no fusing unit
- Std. 200sheets 120ipm / duplex 240ipm DSPF dual scan doc feeder; Special inner or large external staple finishing models
- Standard 3,5GB (dn/ dns) and 5,5GB (z/ zs/ z+) RAM and high secure 320GB HDD
- 8" colour touchscreen with Open platform support; Std. WiFi / WiFi Direct and optional NFC support
- 'z' flow model types with std. retractable keyboard, ultrasonic double feed detection sensor and std. I.R.I.S OCR scan support

### Disadvantages

- Small 8" UI with limited multi-touch functionality (button controlled) and limited customer specific panel customisation
- Nothing available like direct MarketPlace App support or IWS panel customisation
- Comparable std. high security level but nothing available like Bitdefender real-time virus scan support
- Highest quality setting only with strongly reduced speed in simplex and duplex and special ink paper quality required!
- Very limited print quality results with Recycling paper or Offset paper quality
- De-inking process for ink paper printed paper not possible but easy de-inking process for toner printed paper
- High speed print mode in draft quality (300dpi up to 5% coverage); With higher coverage strongly reduced system speed
- Only up to 67% copy and print duplex efficiency: duplex up to 40ppm (E77660) or up to 34ppm (E77650) – up to 38ppm (785)
- Paperweights: Bypass tray max. 300 g/m<sup>2</sup> / Auto Duplex max. 220 g/m<sup>2</sup> / Paper trays 220 g/m<sup>2</sup>
- No OOXML (docx,xlsx, pptx) scan & print format support; Only CIS scan technology for glass-platen scan (no depth of field)
- Max. 4650 sheet paper capacity; No LCT tray for A3 or SRA3 format supported
- No SRA3 (320 x 450mm) and no Banner paper (297 x 1200mm) support; No optional Fiery controller available
- With internal staple finisher type the stapler exchange 'door cover' is placed at MFP rear side!
- Special pre-configuration models required for finishing support (no after sales adjustment or upgrade possible)
- External staple finisher without booklet and folding support! Door cover at finisher rear side for paper jam or stapler exchange!
- Due to ink paper curling and high capacity stacking problematic an additional system fusing unit is needed with the finisher!
- Extra high ES 2.0 TEC value with 4,5kWh/week for external finisher model types due to additional installed fusing unit!

Why is the  
**bizhub C550i / C650i**  
a better solution?

bizhub C550i / C650i		HP PageWide E77660z+	
	2.0 TEC 2,8 / 3,5 kWh/week, Sleep mode 0,5 Watt	ES 2.0 TEC 4,5 kWh/week, Sleep mode 1,6 Watt	
	High performance Quad Core 1.6GHz CPU	1.2GHz Dual Core CPU	
	10.1" hard key less multi-touch 'tablet like' UI	Smaller 8" colour hard keyless touchscreen	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. 5,5GB RAM and 320GB HDD	
	Unique Bitdefender real time virus scan	Not supported	
	IWS customisation + KM Marketplace app ready	Both not supported	
	Std. 300sheets DSPF 140 ipm / Duplex 280 ipm	Std. 200sheets DSPF 120 ipm / Duplex 240 ipm	
	Std. auto paper weight detection sensor	Not supported – manual paper weight setting	
	Copy and print duplex productivity up to 100%	Copy and print duplex productivity < 68%	
	Full system speed with highest print coverage	If higher coverage – slower system print speed	
	Trays + Auto Duplex paperweight 52–256 g/m <sup>2</sup>	Trays + Auto Duplex paperweight 60–220 g/m <sup>2</sup>	
	Excellent print quality with std. paper types	For high print quality special ink paper is required	
	Customer convenient front handling of ext. finisher	Ext. finisher cover door at finisher rear side!	
	Std. A3+, SRA3 and Banner paper support	All not supported (max. standard A3 format)	
	Max. paper capacity - 6650 sheets	Max. paper capacity - 4650 sheets	
	Booklet, C/ Tri-folding and A3 Z-folding	All not supported	
	External A4 or SRA3 LCT (3000/2500) available	Only A4 LCT (2x2000sheets) instead of pap. trays	
	OOXML(pptx, docx, xlsx) scan and print support	Not supported	
	Std. PPML (variable data VDP) support	Not supported	
	Remote panel access and CSRC remote service	Both not supported (only email notification)	
	Optional Fiery controller available	Not supported	
	Toner exchange "On the fly"	System stop required for 'ink' exchange	
	Toner yield CMY 28k / K 28k	High yield Ink cartridges CMY 16k / K 20k	

## EPSON Enterprise WF-C17590 / WF-C20590 D4TW **EOS!**

### Speed (ISO speed)

#### EPSON WF-C17590:

A4 colour/BW: 70/70 ppm

A3 colour/BW: NA/NA ppm

#### EPSON WF-C20590:

A4 colour/BW: 100/100 ppm

A3 colour/BW: NA/NA ppm

Launched 10/2017

Since 2020 successor models available!

Also available as pure monochrome model WF-M20590




























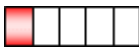













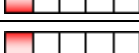


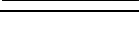


### Highlights / Advantages

- Epson A3 (ink) series with up to 70 (17590) or 100ppm (20590) print speed
- New Precision Core line-head ink technology - page wide ink printhead (other WorkForce models with line moving printhead)
- Std. 150sheet DSPF dual scan document feeder; Paper weight: Bypass tray up to 350 g/m<sup>2</sup>
- Low energy power consumption; ES 2.0 TEC value 1,3 kWh/week; 9" multi-touch UI with open platform support
- Less consumables: no drums and no developer and no fusing unit required – only ink cartridges and cleaning unit
- Environment reasoning against UFP (ultra fine particle) discussion; High yield ink cartridges: CMY 50k, K 100k (2x 50k)
- Up to 5350 sheets paper capacity (but large capacity tray only A4 paper format)
- Optional external staple finisher with up to 4000 sheets output capacity

### Disadvantages

- Nothing available like Bitdefender real-time virus scan support
- Std HDD security but only average Security level; no encrypted print or scan format support, no digital signature
- No ultrasonic double feed detection sensor supported with DSPF
- Std. DSPF dual scan Doc feeder with listed scan speed (200dpi): simplex up to 60ipm and duplex up to 110ipm but...
- ...real lab tested (bliQ) 300dpi scan speed much slower: Only 36ipm simplex and 65ipm duplex scan speed BW and Colour
- Strongly reduced 1to1 simplex and duplex Copy speed due to the limited DSPF scan speed in 600x600dpi
- Only one scan destination with any session - no multi destination type is selectable!
- Paper weight support for auto duplex and all paper cassettes only up to 160g/m<sup>2</sup> (only Bypass tray with higher paper weight)
- Limited media support via paper trays/ drawers plus a lack of finishing options limits the device to less complex workflows
- No OOXML (docx,xlsx, pptx) scan & print format support; No Direct print support; Very limited USB print format support
- Colour compressed PDF scan file sizes up to 3 times higher than average file size in MFP market
- Image quality: Saturation especially in Copy mode not bright enough. Flesh tones in Print yellowish and Copy quality redish
- Limited copy text quality; Stair stepping and inconsistent diagonal lines (line art) and limited separation between halftones
- No SRA3 / No Banner paper support; No optional Fiery controller available
- Extremely large footprint/ space needed with external finisher due to the required Bridge unit
- Basically no booklet finishing, no punching and no C/ Tri / Z-folding; No opt. Page Inserter support for external finisher

Why is the  
**bizhub C650i**  
a better solution?

bizhub C650i		EPSON WF-C20590 D4TW	
	IWS customisation + KM Marketplace apps	Limited panel customisation, No app support	
	Std. auto paper weight detection sensor	Not supported – manual paper weight setting	
	10.1" hard key less multi-touch 'tablet like' UI	Smaller 9" colour hard key less multi-touch UI	
	Std. 8GB RAM and 250GB SSD (Solid state drive)	Std. 3GB RAM and 320GB HDD	
	Std. highest data security incl. HCD-PP	Only average Security feature level / no options	
	Unique Bitdefender real time virus scan	Not supported	
	Std. 300sheets DSPF 140 ipm / Duplex 280 ipm	Std. 150sheets DSPF 60 ipm / Duplex 110 ipm	
	Std. ultrasonic double feed sensor with DSPF	Not supported	
	Full system speed with highest print coverage	If higher coverage – slower system print speed	
	100% duplex speed also with high print coverage	Higher print coverage >5%: reduced duplex speed	
	Trays + Auto Duplex paperweight 52–256 g/m <sup>2</sup>	Trays + Auto Duplex paperweight 60–160 g/m <sup>2</sup>	
	Excellent print quality with std. paper types	For high print quality special ink paper is required	
	Multi scan destinations selectable	Only one destination per session selectable	
	Std. SRA3 and Banner paper support	All not supported (max. standard A3 format)	
	Max. paper capacity - 6650 sheets	Max. paper capacity - 5350 sheets	
	Small finisher footprint; Opt. 2/3/4 punch unit	Huge footprint due to bridge unit; No punching	
	Booklet, C/ Tri-folding and opt. A3 Z-folding	All not supported	
	External A4 or SRA3 LCT (3000/2500) available	Only A4 LCT (3000sheets)	
	OOXML(pptx, docx, xlsx) scan and print support	Not supported	
	Std. PPML (variable data VDP) support	Not supported	
	Remote panel access and CSRC remote service	Both not supported (only email notification)	
	Optional Fiery controller available	Not supported	
	Toner exchange "On the fly"	System stop required for 'ink' exchange	

## EPSON Enterprise WF-C20600 / C20750 / C21000 D4TW

### Speed (ISO speed)

**EPSON WF-C20600 / C20750:**

A4 colour/BW: 60/60 ppm / 75/75 ppm

A3 colour/BW: na/na ppm / na/na ppm

**EPSON WF-C21000:**

A4 colour/BW: 100/100 ppm

A3 colour/BW: NA/NA ppm

Inkjet model!

**NEW!** Launched 04/2020



Available as pure monochrome model WF-M20590 (100ppm)








































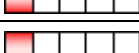



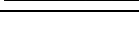


### Highlights / Advantages

- Successor series of Epson A3 (ink) series with up to 60 or 75 or 100ppm A4 print speed
- Precision Core line-head ink technology - page wide ink printhead (other WorkForce models with line moving printhead)
- Std. 150sheet DSPF dual scan document feeder; Paper weight: Bypass tray (RASf) up to 350 g/m<sup>2</sup>
- Low energy power consumption; ES 3.0 TEC value 0,8 / 1,0 / 1,2 kWh/week; 9" multi-touch UI with open platform support
- Less consumables: no drums and no developer and no fusing unit required – only ink cartridges and cleaning unit
- Environment reasoning against UFP (ultra fine particle) discussion; High yield ink cartridges: CMY 50k, K 100k (2x 50k)
- Up to 5350 sheets paper capacity (but large capacity tray only A4 paper format); SRA3 and Banner paper via Bypass tray
- **New finishing:** Optional external staple finisher model or new booklet finisher + saddle unit / both with hole-punch option

### Disadvantages

- Nothing available like Bitdefender real-time virus scan support; Nothing available like MarketPlace direct app support
- Std HDD security but only average Security level; no encrypted print or scan format support, no digital signature
- No ultrasonic double feed detection sensor supported with DSPF No optional Fiery controller available
- Std. DSPF dual scan Doc feeder with listed scan speed (200dpi): simplex up to 60ipm and duplex up to 110ipm but...
- ...real lab tested (bliQ) 300dpi scan speed much slower: Only 36ipm simplex and 65ipm duplex scan speed BW and Colour
- Strongly reduced 1to1 simplex and duplex Copy speed due to the limited DSPF scan speed in 600x600dpi scan resolution
- Only one scan destination with any session - no multi destination type is selectable!
- Paper weight support for auto duplex and all paper cassettes only up to 160g/m<sup>2</sup> (only Bypass tray with higher paper weight)
- No standard or optional auto paper weight detection sensor supported – for paper weight always manual setting
- Limited media support via paper trays/ drawers in simplex/ duplex will limit the device to less complex workflows
- No OOXML (docx,xlsx, pptx) scan & print format support; No Direct print support; Very limited USB print format support
- Colour compressed PDF scan file sizes up to 3 times higher than average file size in MFP market
- Image quality: Saturation especially in Copy mode not bright enough. Flesh tones in Print yellowish and Copy Quality redish
- Limited copy text quality; Stair stepping and inconsistent diagonal lines (line art) and limited separation between halftones
- Extremely large footprint/ space needed with external finisher types due to the required Bridge unit and separate saddle unit
- No C/ Tri-fold (Letter-fold) support and no Z-fold unit support; No opt. Page-Insertor support for external finisher

Why is the  
**bizhub C650i**  
a better solution?

bizhub C650i		EPSON WF-C20750 D4TW	
	IWS customisation + KM Marketplace apps	Limited panel customisation, No UI app support	
	Std. auto paper weight detection sensor	Not supported – manual paper weight setting	
	10.1" hard key less multi-touch 'tablet like' UI	Smaller 9" colour hard key less multi-touch UI	
	Std. 8GB RAM + fast 250GB SSD / opt. 1TB SSD	Std. 3GB RAM and 320GB HDD (rotating type)	
	Std. highest data security incl. HCD-PP	Only average Security feature level / no options	
	Unique Bitdefender real time virus scan	Not supported	
	Std. 300sheets DSPF 140 ipm / Duplex 280 ipm	Std. 150sheets DSPF 60 ipm / Duplex 110 ipm	
	Std. ultrasonic double feed sensor with DSPF	Not supported	
	Full system speed with highest print coverage	If higher coverage – slower system print speed	
	100% duplex speed also with high print coverage	Higher print coverage >5%: reduced duplex speed	
	Trays + Auto Duplex paperweight 52–256 g/m <sup>2</sup>	Trays + Auto Duplex paperweight 60–160 g/m <sup>2</sup>	
	Excellent print quality with std. paper types	For high print quality special ink paper is required	
	Multi scan destinations selectable	Only one destination per session selectable	
	SRA3 (also auto duplex) + Banner paper support	Both supported via Bypass / SRA3 only simplex	
	Max. paper capacity - 6650 sheets	Max. paper capacity - 5350 sheets	
	Small finisher footprint/ space + embedded Z-fold	Huge footprint due to bridge unit and saddle unit	
	Finisher C/ Tri-folding and opt. A3 Z-folding	All not supported	
	External A4 or SRA3 LCT (3000/2500) available	Only A4 LCT (3000sheets)	
	OOXML(pptx, docx, xlsx) scan and print support	Not supported	
	Std. PPML (variable data VDP) support	Not supported	
	Remote panel access and CSRC remote service	Both not supported (only email notification)	
	Optional Fiery controller available	Not supported	
	Toner exchange "On the fly"	System stop required for 'ink' exchange	

## Top Sales arguments of bizhub C650i-series

### MFP IT6 Controller generation

- High performance CPU: 450i/C550i/C650i; **Quad Core CPU, 1600 MHz**
- Main memory: **8 GB RAM** (standard and max)
- **Fast Flash SSD** (solid state drive): **250 GB SSD** (std.) or **1TB SSD** (opt.)
- Std. ISO15408/ **HCD-PP**; top level of security with bizhub Secure + opt. **BitDefender** device **real time virus scan** detection, SSD self-encrypting function; enhanced NSA encryption algorithm;
- **10.1" ease of use UI**, tiltable tablet-like multi-touch screen, easy customisable, std. NFC ready, std. IWS 2.5 and Chromium WebBrowser, Remote tools and management, **std. Marketplace app** support (scalable and customisable) **and individual customisable and personalisable UI**
- Strengthened connection functions (Direct Print and Scan to functionality for OOXML MS-Office files (PPTX, DOCX, XLSX)
- Std. Android NFC authentication, mobile print /scan pairing or Bluetooth LE (for iOS); EU GDPR ready
- Std. MOPRIA, AirPrint support. GoogleCloud Print ready and Mobile app.
- Opt. Wireless Lan as WiFi AP (Access Point), full WiFi and WiFi Direct
- Enhanced accessibility to MFP board / SoC technology
- Best productivity with latest **Chromium Browser**
- Various i-options to enlarge special features or functionality (e.g. OCR A/B, Barcode, Unicode, ThinPrint, Trusted Platform, PDF/A-1a and 1b, Copy Guard, ect.)
- Next generation **IoT-enabled** multifunction device. The smart device technology **augments office connectivity, optimising the way the office works** while preparing it to be **future-ready**.
- It **simplifies complexities to improve productivity, to streamline business processes.**

### Finishers (optional)

- **FS-539** (floor-type compact finisher) 50-sheet stapling plus manual stapling, low noise, high productivity
- **FS-539SD** (floor-type compact booklet finisher) 50-sheet stapling plus manual stapling, low noise, highest productivity; with standard 80/20sheets booklet saddle kit and letter C/ tri-fold kit
- **FS-540** (floor-type compact finisher) 100-sheet stapling, low noise, top-running high productivity
- **FS-540SD** (floor-type compact booklet finisher) 100-sheet stapling, low noise, top-running high productivity; with standard 80/20sheets booklet saddle kit and letter C/ tri-fold kit
- **JS-602** (job separator for FS-540)
- Opt. **2/ 3/ 4 hole Punch units**
- Built-in space saving **A3 Z-fold unit**
- **2tray 200sheets Page inserter**

### High Productivity

- Highest multi-functional performance due to **Quad core 1.6GHz CPU**
- 100% main unit productivity for up to A3 paper
- Up to **100% duplex productivity** for A4 and A3
- **Standard auto paper weight detection sensor**
- Very short **WUT C450i/C550i/C650i: 15 seconds or less** (13sec for BW) due to new  $\beta$ 09 low toner temperature fixing
- Highest productivity during multi-tasking
- Various finisher options and up to 6650 sheets paper input capacity and 3300 sheets output capacity



### Environmental Performance

- Very low **Sleep Mode** power consumption **0,4 Watt**
- Plus ErP Auto Power Off mode 0,2 Watt
- EnergyStar **2.0 TEC (2,1 / 2,8 / 3,5 kWh/week)**
- EnergyStar **3.0 TEC (0,58 / 0,75 / 0,93 kWh/week)**
- BAM (Blue Angel Mark), Energy Star certified (US, JP)
- Hard-key less UI with **vibration feedback** function
- Blank paper removal function, opt. Voice operation
- Eco Meter Indicator; Noise reduction, New Air Packaging
- Dynamic self-learning Eco-timer
- Power-saving LED light source for scanner
- SoC motherboard technology (System on Chip)
- Ozon-less roller charging
- **Embedded UFP filter / adapted air exhaust path**
- **Optional UFP Cleaning unit**
- **Low temperature fixing  $\beta$ 09 polymerised toner**
- Auto refining developing system
- High ratio of Recycled PC/PET adopted (> 70%)
- Bioplastic adopted
- Easy paper **de-inking** process with bizhub toner type

### High Performance ADF

- Top-class duplex scanning with **standard DF-713 (300sheets dual scan DSPF with std. ultrasonic double feed detection sensor and auto de-skew function)**
- Simplex scan speed  
**140ipm** (200dpi)  
80 ipm (600 dpi)
- Duplex scan speed  
**280 ipm** (200 dpi)  
160 ipm (600dpi)

### Enhanced Reliability and Durability

- Fusing unit life time **800k** (450i) and **1,000k** (550i/650i)
- 4-colour auto refining developing system (ARDS) to increase **CMYK Developer yield – 1,000k**
- **Long life consumables 240k Black drum and 155k to 165 k CMY drum**

### Improved Installation and Setup

- Lightweight compact design
- Easy-to-operate carrying handles

### High Image Quality + Security

- Up to true **1,200 x1200 dpi / 1bit** print resolution
- Image processing algorithm adopted
- **ISO 15408/ HCD-PP compliant**, IP filtering, HTTP/2 protocol, port blocking, SSL2, SSL3 and TSL 1.0, IPsec, IEEE 802.1x, User authentication, user log, secure print, HDD (SSD) overwrite and encryption (AES 256), Auto memory deletion, ect.
- Optional **unique BitDefender device real time virus scan** detection

### Media Handling

- Trays: support 52 to 256 g/m<sup>2</sup> and SRA3 (2nd tray, LCT), energy saving and low noise with inner brush motor
- Multiple bypass tray: 60 to 300g/m<sup>2</sup>, and banner paper (297 x 1,200 mm)
- **LCT (LU-302)** with **3000 sheets** additional **A4** paper capacity or **LCT (LU-207)** with **2,500 sheets A4 to SRA3**
- **Detachable paper trays** for better user support in case of paper jam
- **Standard auto paper weight detection sensor**

## Highlights of bizhub C650i-series

### Intelligent simplicity - 10.1" UI:

A tablet like screen with 10.1 size for all the MFP (A4 & A3) and Mobile touch area / NFC ready, new UI with short cut & widgets easy to set up. With a large touchscreen operation panel, smartphone style user interface, voice control and a display that users can customise with apps from **Konica Minolta Marketplace**, i-Series is intelligently simple. It also links seamlessly with Workplace Go and Workplace Hub – our edge computing platform that puts all your IT in one place.

### Intuitive – putting users first:

Inspired by the way people interact with tech, we've completely redesigned the user experience. The new i-Series offers a market leading and intuitive smartphone style experience. In fact, the user experience is so familiar there's practically no learning curve and users can customize their screen in the same way as their mobile device. Most used functions have an identical list-view or card type view and are directly visible without scrolling or searching. And as both our A3 and A4 models operate in precisely the same way, users can be more productive whichever they're working with.

### Next generation Security - the most secured MFPs:

Integration of **Bitdefender anti-virus engine** inside the MFP firmware, **Real time Virus Scanning** jobs Print data, Scan data, i-FAX data; **Scheduled Virus Scanning** on HDD (User box, SMB, MFP system) or manual via admin. The bizhub i-Series comes with the highest security standards built in. The i-Series is ready for General Data Protection Regulation (GDPR), with remote backup and offers end-point security. With our bizhub SECURE services, we tailor the security settings to your needs, so your data is fully protected. And with integrated anti-virus software, it ensures no virus can harm your business.

### Long life parts:

Increased life of the parts for improved reliability. Long-lasting consumables shorten downtime while cutting down on maintenance and labor costs. A3 i-series: Colour drums (up to 165k) and BW drum life-time increased up to 240k, CMYK Developer yield 1.000k and Fuser unit life-time 800k (450i) and 1.000k (550i / 650i).

### IT6 controller generation:

SoC technology, 1600MHz Quad Core CPU, standard 8GB RAM and standard fast 256GB SSD (solid state drive) or optional 1TB SSD. This results in a 2 times faster CPU and application performance and a 4 times faster IWS performance (compared to predecessor).

### Standard 300sheets Dual-scan DSPF document feeder:

Std. **300sheets** dual-scan **DSPF** with **up to 140ipm simplex** or **280ipm duplex scan speed** and **standard ultrasonic double feed detection sensor**.

### Connected - Mobile Print support:

Standard support of MOPRIA, Apple AirPrint, Google Cloud print ready, Optional WiFi (AP mode and WiFi-Direct), Standard NFC pairing and authentication (Android) or optional Bluetooth LE (iOS)

### Standard IWS 2.5 + Chrome Web Browser and OpenAPI:

Standard IWS 2.5 and standard Chrome Web Browser support for full panel customisation and personalization on HTML basis; bizhub Marketplace for direct app upload; Google Apps and MS SharePoint connector based on Open API open platform technology

### Environmental performance:

Eco settings, lower temperature fusing toner and a new **standard unique paper weight detection sensor** combine to significantly reduce the consumption of energy and paper. We're also committed to minimizing waste throughout the product's lifecycle. While our improved consumables and parts use fewer materials and enjoy a longer life, our industry leading air-form packaging solution ensures safe transportation while reducing waste by 20%. Warm-up time from Off mode in just 15 seconds (BW only 13 seconds); Excellent Energy Star 3.0 and 2.0 support; TEC 3.0 values (0,58 / 0,75 / 0,93 kWh/week), TEC 2.0 values (2,1 / 2,8 / 3,5 kWh/week), Reduced Sleep Mode power consumption 0,4 Watt and Dynamic self-learning Eco-Timer

### Fiery controller for bizhub C250i up to bizhub C650i (option):

Professional colour print support with optional Fiery System IC-420; Adobe Postscript 3, PCL6 and PCL5e; 2.4 GHZ CPU, 4 GB RAM and 500 GB HDD

### Reduced downtime. All the time:

Konica Minolta **Worldwide Remote Service Platform** provides a trouble-free experience and minimum downtime. To ensure continuous and full use, i-Series intelligently collects **data for self-diagnostic and remote maintenance** and even predicts the optimum replacement time for parts and consumables. It also uploads the latest firmware, in real or scheduled time. So users know they're always working with up-to-date technology.

### Universal Printer driver and Microsoft Universal Print support:

Universal Printer Driver V4 - One printer driver to install, manage and maintain. Intuitive and modern printer driver UI. Know one – operate many devices. Select print function default to support user operation, Lock print functions e.g. to create BW only print queue. And direct Microsoft Universal Print and Universal Print Connector support.

## CUSTOMER BENEFITS



**Intuitive operability**  
Operate the bizhub like a smartphone or tablet with fully customised user interface



**Mobile connectivity**  
Print anytime from anywhere with Konica Minolta's innovative mobile technologies



**Security**  
Secure network integration, data encryption, hard drive overwrite, and advanced user authentication



**Application ecosystem**  
Enhanced efficiency thanks to Konica Minolta's extensive applications portfolio



**Productivity**  
Reliability, high-speed scanning and printing, combined with powerful finishing functions



**Sustainability**  
Numerous eco features reduce energy consumption and costs

## OPTIONS

### 1 ENHANCED FEATURES

- OCR text recognition  
LK-105v4
- Barcode fonts  
LK-106
- Unicode fonts  
LK-107
- OCR A and B fonts  
LK-108
- Document converter pack  
LK-110v2
- ThinPrint® client  
LK-111
- Serverless pull printing  
LK-114
- Trusted Platform Module  
LK-115v2
- Antivirus  
LK-116
- FOIP activation  
LK-117



### 2 CONNECTIVITY

- Fax board  
FK-514 x2
- Wireless LAN  
UK-221
- USB I/F kit  
EK-608
- USB I/F kit  
EK-609 OR
- Fiery controller  
IC-420
- Interface kit for IC-420  
VI-516
- Biometric authentication  
AU-102
- Card authentication  
ID card reader OR
- Mount kit  
MK-735

### 3 OTHERS

- Working table  
WT-506
- 10-Key pad  
KP-102
- Security kit  
SC-509
- Replacement SSD  
EM-908
- Keyboard holder  
KH-102
- Air cleaning unit  
CU-102

### 4 MEDIA INPUT

- 1x Universal tray  
PC-116
- 2x Universal tray  
PC-216 OR
- Large capacity tray  
PC-416 OR
- Large capacity tray  
PC-417 OR
- Copier desk  
DK-516x OR
- Large capacity tray  
LU-302 OR
- Large capacity tray  
LU-207
- Banner tray  
BT-C1e

### 5 MEDIA OUTPUT

- Output tray  
OF-513 OR
- Staple finisher  
FS-539 OR
- Relay unit  
RU-513 OR
- Booklet finisher  
FS-539SD OR
- Relay unit  
RU-513 OR
- Punch kit for FS-539/SD  
PK-524 OR
- Staple finisher  
FS-540 OR
- Relay unit  
RU-513 OR
- Booklet finisher  
FS-540SD OR
- Relay unit  
RU-513 OR
- Punch kit for FS-540/SD  
PK-526 OR
- Post inserter for FS-540/SD  
PI-507 OR
- Job separator for FS-540/SD  
JS-602 OR
- Z-fold unit for FS-540/SD  
ZU-609

#### LEGEND

- Mandatory option
- Option
- This option can only be installed with the respective option above it

## FINISHING FUNCTIONALITIES



Corner stapling



Two-point stapling



Two-hole punching



Four-hole punching



Duplex



Combined mixplex/mixmedia



Half-fold



Sheet insertion, report



Letter-fold



Booklet



Offset sorting



Z-fold



Banner printing



Corner Stapling (offline)

## DESCRIPTION

### ENHANCED FEATURES

LK-105v4 OCR text recognition	Searchable PDF and PPTX
LK-106 Barcode fonts	Supports native barcode printing
LK-107 Unicode fonts	Supports native Unicode printing
LK-108 OCR A and B fonts	Supports native OCR A and B font printing
LK-110v2 Document converter pack	Generates various file formats incl. DOCX, XLSX and PDF/A
LK-111 ThinPrint® client	Print data compression for reduced network impact
LK-114 Serverless pull printing	Secure and Follow Me printing solution requiring no server application
LK-115v2 Trusted Platform Module	Trusted Platform Module for protection of data encryption and decryption
LK-116 Antivirus	Bitdefender® antivirus provides real time scanning of all incoming and outgoing data
LK-117 FOIP activation	Fax over IP networks (T.38), requires fax kit

### CONNECTIVITY

FK-514 Fax board	Super G3 fax, digital fax functionality
UK-221 Wireless LAN	Wireless LAN and wireless LAN Access Point Mode
EK-608 USB I/F kit	USB keyboard connection
EK-609 USB I/F kit	USB keyboard connection; Bluetooth
IC-420 Fiery controller	Professional colour print controller
VI-516 Interface kit for IC-420	Fiery controller interface card
AU-102 Biometric authentication	Finger vein scanner
ID card reader	Various ID card technologies
MK-735 Mount kit	Installation kit for ID card reader

### OTHERS

WT-506 Working table	Authentication device placement
KP-102 10-Key pad	For use instead of touchscreen
SC-509 Security kit	Copy guard function
EM-908 Replacement SSD	1 TB SSD to increase storage space
KH-102 Keyboard holder	To place USB keyboard
CU-102 Air cleaning unit	Improving indoor air quality by reduced emission

### MEDIA INPUT

PC-116 1x Universal tray	500 sheets, A5-A3, 52-256 g/m <sup>2</sup>
PC-216 2x Universal tray	2x 500 sheets, A5-A3, 52-256 g/m <sup>2</sup>
PC-416 Large capacity tray	2,500 sheets, A4, 52-256 g/m <sup>2</sup>
PC-417 Large capacity tray	1,500 + 1,000 sheets, A5-A4, 52-256 g/m <sup>2</sup>
DK-516x Copier desk	Provides storage space for print media and other materials
LU-302 Large capacity tray	3,000 sheets, A4, 52-256 g/m <sup>2</sup>
LU-207 Large capacity tray	2,500 sheets, A4-SRA3, 52-256 g/m <sup>2</sup>
BT-C1e Banner tray	Multipage banner feeding

### MEDIA OUTPUT

OT-513 Output tray	Output tray used instead of finisher
FS-539 Staple finisher	50 sheets stapling; 3,200 sheets max. output
FS-539SD Booklet finisher	50 sheets stapling; 20 sheets booklet finisher; 2,200 sheets max. output
PK-524 Punch kit for FS-539/SD	2/4 hole punching; autoswitching
FS-540 Staple finisher	100 sheets stapling; 3,200 sheets max. output
FS-540SD Booklet finisher	100 sheets stapling; 20 sheets booklet finisher; 2,700 sheets max. output
PK-526 Punch kit for FS-540/SD	2/4 hole punching; autoswitching
RU-513 Relay unit	For FS-539/SD or FS-540/SD installation
JS-602 Job separator for FS-540/SD	Separation of fax output; etc.
PI-507 Post inserter for FS-540/SD	Cover insertion; post finishing
ZU-609 Z-fold unit for FS-540/SD	Z-fold for A3 prints

## TECHNICAL SPECIFICATIONS

### SYSTEM SPECIFICATIONS

System speed A4	Up to 65/65 ppm (mono/colour)
System speed A3	Up to 32/32 ppm (mono/colour)
Autoduplex speed A4	Up to 65/65 ppm (mono/colour)
1st page out time A4	2.8/3.8 sec. (mono/colour)
Warm-up time	Approx. 15/17 sec. (mono/colour) <sup>1</sup>
Imaging technology	Laser
Toner technology	Simitri® V polymerised toner
Panel size/resolution	10.1" / 1024 x 600
System memory	8,192 MB (standard/max)
System hard drive	256 GB SSD (standard) / 1 TB SSD (optional)
Interface	10/100/1,000-Base-T Ethernet; USB 2.0; Wi-Fi 802.11 b/g/n/ac (optional)
Network protocols	TCP/IP (IPv4 / IPv6); SMB; LPD; IPP; SNMP; HTTP(S); Bonjour
Automatic document feeder	Up to 300 originals; A6-A3; 35-210 g/m <sup>2</sup> ; Dualscan ADF
ADF double feed detection	Standard
Printable paper size	A6-SRA3; customized paper sizes; banner paper max. 1,200 x 297 mm
Printable paper weight	52-300 g/m <sup>2</sup>
Paper input capacity	1,150 sheets / 6,650 sheets (standard/max)
Paper tray input (standard)	1x 500; A6-A3; custom sizes; 52-256 g/m <sup>2</sup> 1x 500; A5-SRA3; custom sizes; 52-256 g/m <sup>2</sup>

### SYSTEM SPECIFICATIONS

Paper tray input (optional)	1x 500 sheets; A5-A3; 52-256 g/m <sup>2</sup> 2x 500 sheets; A5-A3; 52-256 g/m <sup>2</sup> 1x 2,500 sheets; A4; 52-256 g/m <sup>2</sup> 1x 1,500 + 1x 1,000 sheets; A5-A4; 52-256 g/m <sup>2</sup>
Large capacity tray (optional)	1x 3,000; A4; 52-256 g/m <sup>2</sup> 1x 2,500; A4-SRA3; custom sizes; 52-256 g/m <sup>2</sup>
Manual bypass	150 sheets; A6-SRA3; custom sizes; banner; 60-300 g/m <sup>2</sup>
Finishing modes (optional)	Offset; Group; Sort; Staple; Staple (offline); Punch; Half-fold; Letter-fold; Booklet; Post insertion; Z-fold
Automatic duplexing	A6-SRA3; 52-256 g/m <sup>2</sup>
Output capacity	Up to 250 sheets / up to 3,300 sheets (standard/max)
Stapling	Max. 100 sheets or 98 sheets + 2 cover sheets (up to 300 g/m <sup>2</sup> )
Stapling output capacity	Max. 200 sets
Letter fold	Max. 3 sheets
Letter fold capacity	Max. 50 sets; unlimited (without tray)
Booklet	Max. 20 sheets or 19 sheets + 1 cover sheet (up to 300 g/m <sup>2</sup> )
Booklet output capacity	Max. 35 booklets; unlimited (without tray)
Duty cycle (monthly)	Rec. 53,000 pages; Max. <sup>2</sup> 250,000 pages
Toner lifetime	Black up to 28,000 pages CMY up to 28,000 pages
Imaging unit lifetime	Black up to 240,000/1,000,000 pages (drum/developer) CMY up to 165,000/1,000,000 pages (drum/developer)
Power consumption	220-240 V / 50/60 Hz; Less than 2.00 kW
System dimension (W x D x H)	615 x 688 x 961 mm (without options)
System weight	Approx. 100.0 kg (without options)



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