



Print your medical imaging in HD colour with integrated DICOM A4/A3 printers

OKI is a leader in printing innovation, providing organisations with High Definition colour printing devices based on digital LED technology, and now our sophisticated range of printers integrate seamlessly with your clinical systems using DICOM.

A first in medical imaging and printing

This is a first in digital printer technology, combining the cost effectiveness and high quality output of an LED printer with embedded DICOM software, allowing you to print directly from medical equipment without the use of conversion software or external print servers. You no longer need to settle for expensive printing on specialist media and devices.

With the ES8431 DM you can now print your medical imaging cost effectively on standard media formats in vibrant, HD colour and in sizes up to A3. From nuclear medicine to scans (eg MRI, CT) and ultrasounds, these images can now be easily printed for your own non-diagnostic use or to provide a copy for your patients and clients to take away with them.

Reduce your costs and improve your printing

The ES8431 DM is not only perfect for your medical imaging printing, it can also be used for your standard office printing, from patient letters and forms to medical reports, allowing you to choose one machine that answers all the needs of your organisation, cutting down on the number of devices and consumables used.

The ES8431 DM is based on our existing, award winning printers, offering the same reliability, ease of use, low total cost of ownership, media flexibility and high quality output, with the additional benefit of embedded DICOM technology. Through system integration, the use of energy efficient equipment and standard printer consumables, the ES8431 DM offers considerable savings for your day-to-day printing needs.

See it clearer with OKI

Talking directly with your medical imaging equipment, the ES8431 DM presents many opportunities for printing high quality, non-diagnostic images in HD mono and colour on a wide range of media. The significantly reduced costs of printing using the ES8431 DM, compared with traditional DICOM printing technologies, allows medical establishments to change their approach to printing.

Imagine the possibilities; print MRI scans in colour, offer mothers-to-be A4 or A3 ultrasound scans or keep sharp and clear non-diagnostic images in patients' records, and all at a very low cost. In fact, the same cost of printing as standard office documents.

Benefits at a Glance

- Fully integrated DICOM print server
- Up to 3 simultaneous imaging equipment connections
- Recommended usage - Nuclear medicine, ultrasound, MRI/CT scans
- High quality non-diagnostic mono and colour printing of medical images
- No additional external hardware or software required
- Handles media from A6 to A3 wide 1200mm banners, from 64 to 256gsm



ES8431 DM - Colour and Mono Printers

PRINTER	
Print speed	A4: 35ppm colour/mono; A3: 20ppm colour/mono
Time to first print	9.5 seconds colour, 9.5 seconds mono
Warm up time	Up to 32 seconds from power on and up to 27 seconds from power save
Processor speed	800MHz

INTERFACE AND SOFTWARE

Connectivity	Hi-Speed USB x 2 (1 x type A & 1 x type B), 10/100-TX Ethernet, IEEE 1284 Bi-directional Parallel (optional)
DICOM server	Print SCP 3.0, 3 simultaneous printing connections, Unlimited number of AE Title providing their own parameter set, Recommended usage for nuclear medicine, ultrasound and CT/MRI scans, A4/A3 paper format
Printer languages	PCL 6 (XL3.0) and PCL5c, PostScript3 emulation, SIDM (IBM-PPR, EPSON-FX), PDF Direct Print v1.8
Network & Protocols	All major network protocols supported via ethernet card with internal web server for printer and network card set-up and management. TCP/IP: ARP, IPv4/v6, ICMPv4/v6, TCP, UDP, LPR, FTP, TELNET, HTTP(PP), BOOTP, DHCP, SNMPv1/v3, DNS, DDNS, UPnP, Bonjour, WINS, SSL/TLS, SMTP, POP3, SNT, WSDPrint, JetDirect protocols. NetBIOSoverTCP, NetWare 3.x, 4.x, 5.x and 6 with full NDS and NDPS support:- PServer, RPrinter, NDPS supported via dedicated OKI NDPS Gateway. AppleTalk:- ELAP, AARP, DDP, AEP, NBP, ZIP, RTMP, ATP, PAP. NetBEUI:- SMB, NetBIOS. Other: EAP, DICOM Print 3.0
OS Compatibility ¹	Windows 2000 / XP Home / XP Professional (32-bit & 64-bit) / Server 2003 (32-bit & 64-bit) / Server 2008 (32-bit & 64-bit) / Server 2008 R2 (64-bit) / Vista (32-bit & 64-bit) / 7 (32-bit & 64-bit); Mac OS X 10.3.9 to 10.7
Advanced networking & security	IPv6, 802.1x authentication, SNMP V3, SSL3/TLS HTTPS encryption, Secure Print, Secure Erase, Data Encryption, MAC filtering, IP filtering
Utility suite ¹	Color Correct, OKI LPR ² , PrintSuperVision.net ² , PrintSuperVision Multiplatform ² , Color Swatch Utility, ICC Profiles ² , Template Manager ² , Web Driver Installer ² , WebPrint ² , Print Job Accounting ² , Print Job Accounting Enterprise, Print Job Accounting Client, Storage Device Manager ² , PS Gamma Adjuster, Profile Assistant, PDF Direct Utility, Color Access Policy Manager ²

TYPEFACES

Printer fonts	Scalable: 87 PCL fonts and 80 PostScript fonts, PCL Bitmap fonts, OCR-A/B, USPS ZIP Barcode
Barcode	Barcode with Checksum support

PAPER HANDLING

Paper capacity	Tray 1: 300 sheets of 80gsm; Multi-purpose tray: 100 sheets of 80gsm
Paper capacity optional trays	Tray 2: 530 sheets of 80gsm; Tray 3: 530 sheets of 80gsm; Tray 4: 530 sheets of 80gsm
Maximum paper capacity	1,990 sheets of 80gsm
Paper sizes	Tray 1: A3, A4, A5, A6, B4, B5; Tray 2/3/4: A3, A4, A5, B4, B5; Multi-purpose tray: A3, A4, A5, B4, B5, A6; 11 Envelopes (Com-10, DL, Monarch, C5,C4), Custom Size: up to 1321mm length banners); Duplex: A3, A4, A5, B4, B5, Custom Size: Width 148.5-297mm Length 182-431.80mm
Paper weight	Tray 1: 64 to 220gsm; Tray 2/3/4: 64 to 176gsm; Multi-purpose tray: 64 to 256gsm; Duplex: 64 to 220gsm
Duplex	Standard
Paper output	250 sheets face down, 100 sheets face up, 80gsm

¹ Check local OKI website for latest driver releases and OS compatibility; ² Windows only; ³ Including all consumables

Consumables Information: For the protection of your printer, and in order to ensure that you benefit from its full functionality, this model has been designed to operate only with genuine OKI toner cartridges. These can be identified by the OKI trademark. Any other toner cartridge may not operate at all, even if it is described as "compatible", and if it does work, your printer's performance and print quality may be degraded.

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PRINT QUALITY	
Resolution	ProQ2400 Multi-level technology, 1200 x 600dpi
Enhancements	Auto Colour Balance, Photo Enhance via Driver (excludes Mac OS and all PostScript drivers)

GENERAL FEATURES

Memory	Standard RAM: 768MB
Environment	Operating temperature/humidity: 10°C to 32°C (17°C to 27°C recommended) / 20% to 80% RH (50% to 70% RH recommended) Storage temperature/humidity: -10°C to 43°C, 10% to 90% RH
Power supply	Single phase 220 to 240VAC, frequency 50/60Hz +/- 2%
Power consumption	Typical: <700W; Max: <1400W; Idle: <100W; Power Save: <12W; Deep Sleep: <1.0W; Auto-Off: <0.15W
Noise level	Operating: 52dB(A) or less; Standby: 32dB(A) or less; Power save: Background level
Dimensions (HxWxD)	360 x 449 x 552mm
Weight ³	40kg approx
Duty cycle	Recommended usage: up to 1,100 pages/month for DICOM printing
Product order number	ES8431 DM: 45079611

ACCESSORIES (ORDER NUMBERS)

2nd/3rd/4th paper tray	44713903
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CONSUMABLES (ORDER NUMBERS)

Toner cartridges* (10,000 pages)	Cyan: 44844567; Magenta: 44844566; Yellow: 44844565; Black: 44844568
Image drum** (30,000 pages)	Cyan: 44844459; Magenta: 44844458; Yellow: 44844457; Black: 44844460
Transfer Belt (80,000 pages)	44846204
Fuser Unit (100,000 pages)	44848805

*Toners: A4 pages yield compliant with ISO/ISC 19798. Printer shipped with toner for 2,500 A4 pages yield compliant with ISO/ISC 19798.

**Drum: Average number of A4 pages printed.

