**Océ**

CS2224

CS2236

CS2236MF

# Presenting your colorful ideas

Wide format color systems to maximize your design assets

- Océ green button operation
- Excellent sharpness and legiblility
- Reliable and on time
- Consistent output
- Versatile media handling
- Meets future needs

# Presenting your colorful ideas

# **Océ** CS2224 / CS2236 / CS2236MF

## Wide format color systems to maximize your design assets

CAD designer

### Clear communication even under pressure

Strong, clear presentation is vital for my designs. So I won't compromise on output quality, even with tough deadlines. That's no problem with the Océ CS2236MF multifunctional.

- My prints, copies and scans, color or monochrome, are always right first time, thanks to Océ green button operation
- I always get excellent sharpness and legibility, even on plain paper
- My jobs are done reliably and on time, whether it's digital or hard copy

These economical devices are the fast, easy way to get your plans and technical information on paper. Whether it's engineering designs and drawings, architectural plans or GIS plots, you'll see the difference in sharpness and clarity. You can choose from printing widths of 24 or 36 inches or a multifunctional for quick, convenient copying and scanning of hard copy drawings. Each system will maximize the results of your design assets.

## Key benefits

| | Océ CS2224 | Océ CS2236 | Océ CS2236MF |
|---|---|---|---|
| **Océ green button operation** | | | |
| Océ predefined print and color settings | Yes | Yes | Yes + copying and scan to file |
| Ink level and media monitoring via driver and web browser | Yes | Yes | Yes + Océ Copy Easy: media monitoring via back channel with printer |
| **Excellent sharpness and legibility** | | | |
| Océ media profiles | Yes | Yes | Yes + copy profiles |
| 4 colors | Océ gamut dye inks: CMYK<br>Océ high density pigment ink: black | | |
| Number of ink tanks | 6 (2 pigment black) | 6 (2 pigment black) | 6 (2 pigment black) |
| Resolution | 2,400 x 1,200 dpi | 2,400 x 1,200 dpi | Optical resolution scanner: 1,200 x 1,200 dpi |
| Drop size | 4 pl | 4 pl | |
| Ink tank size | 130 ml | 130 ml | |
| **Reliable and on time** | | | |
| Automatic adjustment | Print head hight<br>Color calibration | Non-firing nozzle detection and compensation<br>Media feed | |
| Max. printing speed | 0.6 min per A1 | 56 sec per A0 | Scan speed: 1,5 m per minute |
| **Consistent output** | | | |
| Automatic loading of Océ media profiles | Yes | Yes | Yes + copy profiles |
| Automatic application of Océ print and color settings | Yes | Yes | Yes + copy settings |
| **Versatile media handling** | | | |
| Max. media width | Max. 610 mm | Max. 914 mm | Scan width 914 mm/36 inch<br>Original: 1168 mm/46 inch |
| Max. media thickness | 0.8 mm | 0.8 mm | Original: 1 mm |
| Media feed | Roll and sheet<br>Casette: 0.08-0.3 mm | Roll and sheet | Original feed: central |
| Max. roll length | 120 m, outer diameter roll < 150 mm | | |
| **Meets future needs** | | | |
| RIP | Bundled: Onyx CADPro RIP for HPGL/2 files and other file formats<br>Optional: Upgrade to Onyx, GraphicsPro for PS files | Bundled: Onyx CADPro RIP for HPGL/2 files and other file formats<br>Optional: Upgrade to Onyx, GraphicsPro for PS files | Bundled: Onyx CADPro RIP for HPGL/2 files and other file formats<br>Optional: Upgrade to Onyx, GraphicsPro for PS files<br>Upgrade Océ Copy Easy to Océ Color Copy (optional) |

# **Océ** CS2224 / CS2236 / CS2236MF

## Printer specifications

| | Océ CS2236 printer | Océ CS2224 printer |
|---|---|---|
| Technology | Thermal inkjet | Thermal inkjet |
| Print head | Integrated semi-permanent 15,360 nozzles | Integrated semi-permanent 15,360 nozzles |
| 4 colors | Cyan, magenta, yellow, black | Cyan, magenta, yellow, black |
| 5 inks | Océ large color gamut dye ink:<br>cyan, magenta, yellow, black<br>Océ high density pigment ink: black | Océ large color gamut dye ink:<br>cyan, magenta, yellow, black<br>Océ high density pigment ink: black |
| Max. printing resolution | 2,400 × 1,200 dpi | 2,400 × 1,200 dpi |
| Size of ink tanks* | 130 ml per color (2 × high density black) | 130 ml per color (2 × high density black) |
| Ink level monitoring | Ink level indication<br>Out of ink notice | Ink level indication<br>Out of ink notice |
| Color modes | Color, B&W/grayscale | Color, B&W/grayscale |
| Quality modes | Draft, standard, high, highest | Draft, standard, high, highest |
| Printing speed | Max. 56 sec per A0 (concept CAD) | Max. 0.6 min per A1 |
| Stand | Included | Included |
| Standard interface | Ethernet 10 BaseT/100BaseTX<br>USB 2.0 Hi Speed | Ethernet 10 Base T/ 100BaseTX<br>USB 2.0 |
| Standard accessory | 1 printhead<br>6 ink tanks (cyan, magenta, yellow, black,<br>2 × high density black) 90 ml per ink tank<br>1 roll holder 2-inch<br>1 cutter<br>1 maintenance cartridge<br>Onyx CADPro<br>Power cable<br>1 roll Océ premium paper 36-inch | 1 printhead<br>6 ink tanks (cyan, magenta, yellow, black,<br>2 × high density black) 90 ml per ink tank<br>1 roll holder 2-inch<br>1 cutter<br>1 maintenance cartridge<br>Onyx CADPro<br>Power cable<br>1 roll Océ premium paper 24-inch |
| Installation | User installable, installation guide and tools included | User installable, installation guide and tools included |

| | Océ CS2236 printer | Océ CS2224 printer |
|---|---|---|
| **Options** | Additional 2-inch roll holder | Additional 2-inch roll holder |
| | | |
| | **Media** | **Media** |
| **Media source** | 1 roll<br>Single sheet | 1 roll<br>Sheet cassette |
| **Media core size** | 2 inches | 2 inches |
| **Media thickness** | 0.07–0.8 mm | 0.07–0.8 mm<br>Cassette: 0.08–0.3mm |
| **Media types** | Uncoated<br>Coated<br>Transparent paper<br>Polyester film<br>Glossy photo paper<br>Satin photo paper | Uncoated<br>Coated<br>Transparent paper<br>Polyester film<br>Glossy photo paper<br>Satin photo paper |
| **Media sizes roll** | *Max.* *Min.*<br>Width 917 mm 203 mm<br>Length 18,000 mm 203 mm | *Max.* *Min.*<br>Width 610 mm 203 mm<br>Length 18,000 mm 203 mm |
| **Media sizes cutsheet** | *Max.* *Min.*<br>Width 917 mm 203 mm<br>Length 1,600 mm 203 mm | *Cassette:* *Max.* *Min.*<br>Width 432 mm 203 mm<br>Length 594 mm 279 mm<br>*Manual:* *Max.* *Min.*<br>610 mm 203 mm<br>1,600 mm 279 mm |
| **Cassette capacity** | | Uncoated paper: 250 sheets A4 |
| **Width detection** | Automatic | Automatic |
| **Roll length detection** | Remaining amount detection | Remaining amount detection |
| **Drawing margin roll** | Leading & trailing: 3 mm<br>Left & right side: 3 mm | Leading & trailing: 3 mm<br>Left & right side: 3 mm |
| **Drawing margin cutsheet** | Leading: 3 mm<br>Trailing: 23 mm<br>Left & right side: 3 mm | Leading: 3 mm<br>Trailing: 23 mm<br>Left & right side: 3 mm |

| | Océ CS2236 printer | Océ CS2224 printer |
|---|---|---|
| Borderless printing | For roll media:<br>photo and heavy coated paper<br>Margin leading & trailing: 0 mm<br>Margin left & right side: 0 mm<br>Supported width: 10–36 inch,<br>A4–A0, B4–B1 | For roll media:<br>photo and heavy paper<br>Margin leading & trailing: 0 mm<br>Margin left & right side: 0 mm<br>Supported width:10–24 inch,<br>A3–A1, B4–B2 |
| Maximum roll length | 120 m and outer roll diameter < 150 mm | 120 m and outer roll diameter < 150 mm |
| | **Environment** | **Environment** |
| Dimensions printer with stand | 1,507 (W) × 871 (D) × 1,094 (H) mm | 997 (W) × 991 (D) × 989 (H) mm |
| Weight printer with stand | Approx. 79 kg | Approx. 64 kg |
| Electrical requirements | 100–240 V AC (50/60 Hz) | AC: 100–120 V AC (50/60 Hz),<br>220–240V AC (50/60 Hz) |
| Power consumption | Operation: 140 W or less<br>Sleep mode: 100–115 V: 5 W or less<br>Sleep mode: 220–240 V: 6 W or less<br>Standby mode: 1 W or less | Operation: 100 W or less<br>Sleep mode: 100–115 V: 5 W or less<br>Sleep mode: 220–240 V: 6 W or less<br>Standby mode: 1 W or less |
| Noise | Operation: 54 dB or less | Operation: 53 dB or less |
| Safety approvals | UL, CE, TUV, CB certification<br>FCC, IC, VCCI | UL, CE, TUV, CB certification<br>FCC, IC, VCCI |
| Others | Energy Star, ROHS, WEEE | Energy Star, ROHS, WEEE |
| | **Drivers and RIPs** | **Drivers & RIPs** |
| Driver | Windows 2000, Windows XP,<br>Windows Server 2003,<br>Vista 32-bit and 64-bit, Mac OSX or later | Windows 2000, Windows XP,<br>Windows Server 2003,<br>Vista 32-bit and 64-bit, Mac OSX or later |
| Automated printing process | Océ predefined settings:<br>– media<br>– print mode<br>– color<br>– automatic loading of Océ media profile | Océ predefined settings:<br>– media<br>– print mode<br>– color<br>– automatic loading of Océ media profile |
| Back channel communication via driver & internet browser | View job status<br>View queue<br>View ink level<br>View waste ink level | View job status<br>View queue<br>View ink level<br>View waste ink level |
| Optional RIPs | Onyx GraphicsPro | Onyx GraphicsPro |

# Software specifications

| | Onyx GraphicsPro (optional)<br>Adds ability to output PostScript and raster files directly on printer. Includes PostScript driver for printing from Windows or MAC OS applications | Onyx CADPro (standard)<br>Adds ability to output HPGL, HPGL/2 and HPRTL drawings directly on printer |
|---|---|---|
| Supported vector files | HPGL/2, HPGL, HPRTL | HPGL/2, HPGL, HPRTL |
| Supported raster files | TIFF/TIFF-IT/8&16 Bit TIFF/JPEG2000/ JPEG/Native Photoshop/Kodak PhotoCD/ ER Mapper/MrSID/Targa/Scitex CT/DIB/ GIF/PCX/BMP | TIFF/TIFF-IT/8&16 Bit TIFF/JPEG2000/ JPEG/Native Photoshop/Kodak PhotoCD/ ER Mapper/MrSID/Targa/Scitex CT/DIB/ GIF/PCX/BMP |
| Supported PostScript files | PS & EPS level 2&3/PDF/DCS 4 and 6-color separations | |
| Drivers Windows | Adobe PS 2&3 for applications under Windows 2000/XP/2003 Server/Vista | |
| Drivers Mac OS | Adobe PS 2&3 for applications under Mac OSX | |
| Supported font types in PostScript | PostScript 1 & 4, True Type, Multiple Master Type 1, CID, Kanji, Morisawa | |
| Installation | User installable:<br>– Quick start installation guide<br>– Automatically creates shortcuts to Hot Folders on 1 desktop<br>– Includes standard 6 Quick Sets (predefined print and color settings)<br>– Installs virtual PostScript printer automatically | User installable:<br>– Quick start installation guide<br>– Automatically creates shortcuts to Hot Folders on 1 desktop<br>– Includes standard 6 Quick Sets (predefined print and color settings) |
| Clear intuitive user interface | Yes, no training needed | Yes, no training needed |
| Automated printing process | Yes<br>– Standard 6 Quick Sets: predefined print and color settings<br>– Hot Folders: files dropped in the Hot Folders will be processed and printed automatically | Yes<br>– Standard 6 Quick Sets: predefined print settings<br>– Standard Hot Folders: files dropped in the Hot Folders will be processed and printed automatically |
| Automated printing process via remote workstations | Yes, via shortcut to Hot Folders | Yes, via shortcut to Hot Folders |
| Open files manually when needed | Yes | Yes |
| Edit line thickness and color for each HPGL pen | Yes | Yes |
| Customize HPGL/HPGL2 settings | Yes | Yes |

| | Onyx GraphicsPro | Onyx CADPro |
|---|---|---|
| Print directly from PC and MAC creative application | Yes, via Hot Folders and PostScript driver | Yes, via Hot Folders |
| Autoscale and autorotate images | Yes | Yes |
| Print queue for print jobs | Yes | Yes |
| Save and archive jobs | Yes | Yes |
| Print from history queue | Yes | Yes |
| Change job settings of history | Magnification | |
| Automatic media save/nesting | Yes | Yes |
| Image interpolation | Yes | Yes |
| Job log and media usage reporting | Yes | Yes |
| Active printers (#) | Standard 2, up to 5 | Standard 2, up to 5 |
| Thumbnail job preview | Yes | Yes |
| Spot color matching | Yes | |
| Pantone color library | Yes | |
| ICC compliant | Yes | Yes |
| Océ media profile | Yes, 27 | Yes, 27 |
| Upgrade path | | CADPro to GraphicsPro |

| | Minimum system requirement | Minimum system requirement |
|---|---|---|
| Operating systems | Windows XP Pro with latest service pack | Windows XP Pro with latest service pack |
| CPU | Intel Pentium III 1.5 Ghz or higher/Athlon | Intel Pentium III 1.5 Ghz or higher/Athlon |
| Storage | 40 Gb hard drive 1 Gb RAM | 40 Gb hard drive 1 Gb RAM |
| Video display | 1,280 × 1,024 16-bit color | 1,280 × 1,024 16-bit color |
| USB | One port required for Security Key | One port required for Security Key |
| DVD-ROM | Required | Required |

# Multi Function specifications

## Océ CS2236 printer & Océ CS4236 scanner

**Standard accessory Océ CS2236MF**

1 printhead
6 ink tanks
(cyan, magenta, yellow, black,
2 × high density black)
90 ml per ink tank
1 roll holder 2-inch
1 cutter
1 maintenance cartridge
Onyx CADPro
Power cable
1 CS Assessory kit
Océ compact stand
Océ CS4236 scanner stand
Original receiving basket
Océ Copy Easy
USB2 cable, Power cable
Maintenance kit and CD

## Océ CS4236 specifications

| | |
|---|---|
| Scan width | 36 inch / 914 mm |
| Original width | 46 inch / 1168 mm |
| Optical resolution | 1200 × 1200 dpi (9600 dpi interpolated) |
| Technology | CIS (Contact Image Sensor) |
| Original handling | Face up |
| Original release | Front and back |
| Scan speed | 400 dpi turbo mode, Color: 1 ips – 1.5 m/min, Monochrome: 7.5 m/min |
| Scan modes | Color, grayscale and 1 bit monochrome |
| Supported operating system | Windows XP, 2003 server and Windows Vista 32 bits |
| Standard interface | Double speed USB2 with xDTR |
| Installation | User installable, installation guides, CDs and tools included |
| Boot-up time | 7 sec. (warm up time: n.a.) |
| Weight excl. stand | 30 kg |
| Power requirements | 110V/220V/240V/50/ 50 HZ |
| Power operational | 44 W |
| Power, sleep mode | <= 3 W (energy star compliant) |
| Dimensions excl. stand | 1525 × 480 × 161 mm |
| Awards | ISO 14001, 2004 Environmental Management System |
| Certifications | Energy Star, RoHS, UL ,CE, Gost-R, CCC and VCCi |
| Produced | European Union |
| Options | Océ Color Copy |

# **Océ** Copy Easy software Specifications

| | |
|---|---|
| | **Copy features** |
| Direct ready for copying | Automatic scanner detection, no closed loop calibration required, scanners, media and printer precalibrated, color and monochrome output, copy & scan to file |
| Green button color copying | Automatic printer media type detection, automatic printer media width detection<br>Standard copy profiles for 16 Océ media, standard image enhancement for 5 original types |
| Original size detection | Automatic or manual |
| Instant copying | Printing while scanning (set original size manually) |
| Preview | Preview original, preview effect of original enhancement, preview position on roll media, zoom in/out |
| Copy area of interest | Select copy area with mouse |
| Simple nesting | Nest multiple copies of same scan |
| Deskew original | Automatic deskew original |
| Original rewind | Configurable |
| | **Scanning features** |
| Green button color and monochrome scanning | Standard image enhancement for 5 original types, automatic file name increment |
| Supported file formats | BMP, EPS, GIF, HPR, HP-RTL, IFF, JPEG, J2K, JPEG2000, PCX, PDF, PDF/A, PNG, PPM, TGA, TIFF, 6RN |
| | **General** |
| Operating systems | Windows 2000, Windows XP, Vista 32-bit |
| Minimum platform | Intel Pentium IV 2.66 GHz/Atlon, 60 GB hard drive, 1 Gb RAM, network board 100BaseT |
| Zooming | 1–1000% |
| Supported printers | Océ TDS300, Océ TDS320, Océ TDS400, Océ TDS450, Océ TCS300, Océ TCS400, Océ TCS500, Océ CS2xxx series, Océ CS21xx series, Océ CS22xx series, Océ CS2344, Océ ColorWave™ 600 |
| Footprint<br>Oce CS2236 MF | Normal stand: 2.0 m²<br>Compact stand: 1.5 m² |

# Beyond the Ordinary

Building a sustainable business has always been one of our core business principles. We do this by developing products and services that add value to the document processes of our customers, while minimizing environmental impact. And we conduct our business activities in a socially responsible manner aimed at preventing health, safety and environmental risks.

## Océ Wide Format Printing Systems Partners, awards and certifications

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**Printing for Professionals**

Océ helps the people who make our world. Companies everywhere use Océ technical documentation systems in manufacturing, architecture, engineering and construction. Each week, high speed Océ printing systems produce millions of transaction documents such as bank statements and utility bills. And in offices around the world, people use Océ professional document systems to keep the wheels of business and government turning. Océ is also at work in publishing on demand, newspaper production, document management outsourcing and wide format color for spectacular display graphics. It all helps our professional customers go 'Beyond the Ordinary' in printing and document management.

**Océ** Operating Company name
Address
Telephone
Fax
E-mail

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