Technical Data Sheet

3M™ CR5400 Double-Sided ID1 Reader

Date Issued:	December, 2014
Product Use 	The 3M CR5400 Double-sided ID1 Reader inspects and images government issued identity documents ID1 sized (85 x 54mm) in a variety of market segments like Retail, Financial and Hospitality. Optional functions include: • Docking cradle supporting non-optical reading requirements • Support for biometrically enabled travel documents containing contactless integrated circuit chips (eIDs) • ISO 7810 and ISO 7811 3-Track magnetic stripe reader
Key Standard Features & Functionality	• Double-sided document imaging for ID1 size documents in 24-bit color • Configurable image resolution up to 630 DPI • Multiple wavelength illumination – visible, near infrared, and UV • Anti-Glare technology eliminates image artifacts due to laminate or OVDs • Automatic card detection and processing • Automatic card eject when reading is complete or when power is turned off • Windows® 7or Windows® 8 compatible • USB 2.0 high speed compatible interface • Portrait position when inserting into the ID1 Reader • Elegant industrial design look and feel • Rugged and durable design • Industry standard ¼ x 20 threaded fittings to hold the ID1 Reader to a mounting device (tripod, kiosk, etc.; cradle option only)
Comprehensive Software Features	• Flexible software interface allows host application to select which illumination sources to use, image type, image compression, image resolution, photo extraction, reflection or ambient light elimination, colour enhancement, which date groups to read, etc. • Enables images to be accessed as BMP, PNG or JPEG format • Simple high level API for quick program development or detailed low level API for fine control of all reader functions • Contactless IC reading for ePassports (LDS 1.7) including Active and Passive authentication, Basic Access Control, Extended Access Control (PKI 1.11) and Supplemental Access Control. The SDK provides writing capability using APDUs. • Full SDK including DLLs, code examples, utilities documentation and demonstration programs. Can be used with Visual C++®, Java® and Microsoft® .NET Framework for Visual Basic® .NET and Visual C#

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Reading Capability	The 3M CR5400 Double-sided ID1 Reader reads the following: • ICAO compliant ID1 size in near infrared (IR) per ICAO 9303 specification • ISO 14443 Type A and B contactless ICs at 13.56 MHz (optional) • ISO 7810 and ISO 7811 AAMVA 3-Track Mag (optional) • 1D barcodes (2 of 5 interleaved, Code 128, and Code 39) • 2D barcodes (PDF 417, QR®, DataMatrix™ and Aztec formats) • Non ICAO OCR with variable font types and size that displays biographical data found on global government issued IDs (optional)
Illumination	The reader illuminates documents in multiple wavelengths and lighting orientations: • Near IR B900, 880nm, +/-5% • White visible, 430-700nm • Ultraviolet A (UVA): 360-370nm
Resolution	• Sensor: 10 Megapixels, CMOS, RGB 24 bit color system • Configurable image resolution, up to 630 DPI • High quality images suitable for reading barcodes and OCR
eID (RFID) Option	• Contactless IC reading and writing capability according to: • ISO 14443 Type-A and Type-B using a PC/SC interface • ICAO recommendations in ICAO Doc 9303 supplement, LDS 1.7 • PKI 1.11 • All standardized rates, up to 848 Kbps, read-out times depend on RFID tag, operating system and amount of data stored in the chip. • PC/SC interface provides support to other card types such as MIFARE™ and MIFARE™ DESFire™
Firmware Upgrade	• Upgradeable firmware via USB 2.0 interface • Non-volatile configuration and calibration accessed via USB 2.0 interface • Configuration can be saved to a file for backup or maintenance
Regulatory	• FCC Part 15 Class A • UL, UL-C • CE, CB • WEEE/RoHS Directive 2011/65/EU
Operating Environment	• Humidity: 20 to 95% (R.H. non-condensing) • Temperature: 0° to 40° C operating; -20° to 50° C storage
Minimum PC Specification	Software must be installed on a customer-supplied PC. The following minimum configuration is recommended: • 2 GHz Pentium® 4 CPU (Intel Core 2 Duo recommended) • 1GB DRAM • USB 2.0 • 50 Mb of Hard Drive space for software • Windows® 8, Windows® 7 or Windows Vista® operating systems, 32 or 64 bit

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Standard Dimensions	Imager Only / Imager and Cradle • Length: 15.5 cm / 17.7cm • Width: 10.8 cm / 10.8cm • Height: 10.2 cm / 11.5cm • Weight: < 1 kg or 2.2 lbs / 2.4lbs
Status Indicators	• The 3M CR5400 Double-sided ID1 Reader has an illuminated card slot to enhance ease of use and provide user feedback for optical, RFID and MSR processes. • The readers perform a power-up self-test and indicate failure using status LEDs. • Programmable via software SDK
Power	• Imager – USB Powered • Imager and Cradle – 1.2A, 5V, Universal input wall-mount external power supply
Contact 3M	www.3M.com/IdentityManagement 3M Traffic Safety and Security Division 3M Center, Building 225-4N-14 St. Paul, MN 55144-1000 Telephone numbers: US and Latin America: 1-800-581-2631 Canada: 1-613-722-2070 EMEA: +44 (0) 8705 360036 APAC: +65-64507506