



Barcode-based Electronic Witnessing System

IMT Matcher™

MATCHER IS A COMPLETE TRACEABILITY SYSTEM FOR IVF CENTRES AND DONOR BANKS, RECORDING THE 'WHO, WHAT, WHERE AND WHEN' AT EVERY WITNESS STEP:

Matcher helps to prevent errors through misidentification of patients and their gametes and embryos.

- Barcode labelling – Matcher uses barcodes which are automatically pre-assigned to patients, are on a single label with the ID text, fit on all types of labware and can be used in every step at no additional cost.
- Photographic evidence - Matcher's imaging scanners provide time-stamped photographic proof of every item used at each witness step.
- Workflow scheduling - gives instant 'traffic light' view of daily cycle tasks and patient cycle status.
- Witnessing for PGT - Matcher's barcodes are globally unique for each embryo and automatically identify the embryo number when scanned.
- Data Insights - Matcher Insights™ provides instant, interactive data dashboards and helps identify anomalies and improve efficiencies.

Matcher is simple to install with no equipment modifications required. It is a software system which runs on tablet PCs and uses Benchtop Matcher devices in the work area and Pocket Matcher handheld Android Wi-Fi devices anywhere within the centre, together with label sheet printers, bespoke labels and optional biometric fingerprint readers.

Fees are 'per cycle' and can include all equipment, installation, training, service, support, consumables as required and software version upgrades.

MATCHER EQUIPMENT COMPONENTS (CORE) - OVERVIEW

COMPONENT	DETAILS
Mini Benchtop Matcher Devices	USB digital camera barcode reader. Power over USB 2.0 from a tablet PC.
Pocket Matcher Wireless Portable Devices	Honeywell EDA51HC mobile device running Android OS, with in-built digital camera barcode reader. Battery powered, requires 1x electricity point to charge.
Tablet PCs	Windows OS Microsoft Surface Pro with Windows licence. Requires 1x electricity point (and 1x LAN port, unless connect via Wi-Fi).
Barcode Label Sheet Printers	Brother HL-L5100dn monochrome laser jet printer. Requires 1x electricity point and 1x LAN port. Must be used with original Brother toner (TN-3430).

MATCHER EQUIPMENT COMPONENTS (CORE) – MINI BENCHTOP MATCHER™

SPECIFICATION	DETAILS
Model	Mini Benchtop Matcher
Product/HS Codes	BENC3B / 85258019
Dimensions H x W x D (mm)	87 x 60 x 60 (3.4" x 2.4" x 2.4")
Weight	83g (2.9 oz)
Interface	USB 2.0 to connect to a tablet PC
Power	Power over USB
Illumination	Max output @ 0cm = 10,600cd/m2

MATCHER EQUIPMENT COMPONENTS (CORE) – POCKET MATCHER™

SPECIFICATION	DETAILS
Model	Honeywell EDA51HC
Product/HS Codes	POCK6B / 84713000
Dimensions H x W x D (mm)	157 x 78 x 17 (6.2" x 3.1 x 0.7")
Weight	272g (9.6 oz)
Display	127mm (5.0") multi-touch capacitive (CTP), GFF touchscreen display
Power	Li-Ion 3.8V, 4,000 mAh battery charges via a 5V/2A Pocket Matcher Charge Base, or via a micro USB 2.C cable. Charging time 4.5 hours. Battery runtime 12 hours.
Processor	Qualcomm Snapdragon SDM450, 1.8GHz octa-core
Memory	2 GB RAM / 32 GB flash
Operating System	Android 10
Connectivity	WLAN IEEE 802.11 a/b/g/n/ac
Security	WEP, 802.1x, TKIP, AES, LEAP, PEAPVO, PEAPV1, EAP-M, SCHAPv2, EAP-GTC, EAP-TLS, EAP-TTLS, WPA-PSK, WPA2
Operating Temperature	-10°C to +50°C (+14°F to 122°F)
Humidity	10% to 90% relative humidity, non-condensing
Sealing	IP64 standard for moisture and particle intrusion. Disinfectant-ready housing is specifically designed to withstand frequent exposure to cleaning solutions recommended for healthcare.

MATCHER EQUIPMENT COMPONENTS (CORE) – TABLET PC

COMPONENT	DETAILS
Model	Microsoft Surface Pro 9
Product/HS Codes	TABL3B / 84713000
Dimensions H x W x D (mm)	209 x 287 x 9.3 (8.2" x 11.2" x 0.36")
Weight	879g (1.9 lbs)
Screen	13" PixelSense™ Display Resolution: 2880 x 1920 (267 PPI) Aspect Ratio: 3:2 Touch: 10 point multi-touch Gorilla Glass 5
Power	Battery charges via a mains electricity power adapter pack. Up to 15.5 hours battery life under typical use conditions.
Operating System	Windows 11 Pro
Connectivity	WiFi 6E: 802.11ax compatible
Processor	12th Gen Intel® Core™ i5-1235U processor
Memory	8B LPDDR5 RAM*
Ports	2 x USB-C with USB 4.0/ Thunderbolt™ 4 - Ethernet + 3 x USB-A via supplied adaptor
Other	Each tablet PC is connected to a benchtop Matcher camera device via USB-A port on adaptor provided.

MATCHER EQUIPMENT COMPONENTS (CORE) – LABEL SHEET PRINTER

COMPONENT	DETAILS
Model	Brother HL-L6300DW - For UK, EU territories
Product/HS Codes	PRILB13 / 84433210
Dimensions H x W x D (mm)	497 x 492 x 531 (19.5" x 19.3" x 20.9") A4 / legal paper sheet size
Weight	13.4kg (29.5 lbs)
Resolution	Minimum 600 x 600 dpi. Recommend HQ1200 dpi or higher.
Mono / Colour	Mono
Power	Mains electricity power supply. Two versions available for 220V/240V or 110V power supply.
Interface	Minimum USB. WiFi or Ethernet network connection.
Drivers	Windows Vista or higher
Operating Temperature	10 to 32 °C (50 to 90 °F)
Operating Humidity	20 to 80%, non-condensing
Other	Black toner Brother TN-3430 Must use manufacturer's original toner (not re-manufactured)



MATCHER EQUIPMENT COMPONENTS (OPTIONAL) - OVERVIEW

COMPONENT	DETAILS
End User's Existing PC	Can also run the Matcher desktop application locally, e.g. in offices, at reception desk.
Fingerprint Reader	DigitalPersona 4500 USB finger print reader, easy to disinfect, using encrypted data to securely verify patient and user identities.
Pocket Matcher Charge Base	Base holds 1x Pocket Matcher upright for easy charging without connecting the micro-USB cable directly to a Pocket Matcher.
Wireless Matcher Mouse	White wireless optical mouse for controlling tablet PC or monitor screen, as an additional option to controlling via touchscreen with user's finger.
Admin Hub Server Computer	All-in-one PC and monitor screen with i5 processor, 8GB memory, Windows licence, 1x keyboard, 1x mouse for short-term hosting and admin of the database and API before the end user migrates it to their own network.
Label Sheet Printer Toner Cartridge UK/EU	Brother TN-3430 high quality black laserjet toner. Each cartridge contains toner for printing approximately 3000x sheets.
Label Sheet Printer Toner Cartridge ROW	Brother TN-820 high quality black laserjet toner. Each cartridge contains toner for printing approximately 3000x sheets.
Photo ID Card Printer	Evolis Zenius printer. Requires 1x electricity point & 1x LAN port. Uses Evolis YMCKO 200 image dye film (R5F002EAA) and blank white cards (760 micron).
Photo ID Cards - Blank	Unbranded, plain white ID cards, for use with a photo ID card printer. Each pack contains 100x ID cards.
Photo ID Card Printer Dye Film	Evolis Zenius toner/dye film for photo ID card printer. Each dye film prints approximately 200x ID cards.
Photo ID Card Printer Cleaning Kit	Evolis Zenius cleaning kit for photo ID card printer, recommended to use after every 1000x ID cards printed.

MATCHER EQUIPMENT COMPONENTS (OPTIONAL) - OVERVIEW

COMPONENT	DETAILS
Webcam	Logitech C170 webcam for capturing photos of patients to display on ID passes. Usually 1x per PC at reception, or in consultation rooms.
Patient Wristbands	SentryBand blue patient security wristbands, for use with a Matcher label, typically in operating rooms. Each box contains 500x wristbands.
TubeRack — Cryo	Matcher custom-designed rack holds up to 8x cryovials and 1x semen container for easy handling and witnessing.
TubeRack - Insem	Matcher custom-designed rack holds up to 4x tubes, and either 1x semen container or 2x frozen cryovials for easy handling and witnessing.

Want to find out more about IMT Matcher? Contact Us.

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