

## Blood Collection Monitor

### M-Series, MTBCM 01

Fully automatic microprocessor based **Blood Collection Monitor** with 24 hours battery back or *Blood Mixing Device* provides efficient mixing of blood with 1-50 cycles/min. Automatic termination of blood collection, when *blood collection* volume reaches a preset value. LCD display shows volume of collected blood, time-taken for *blood collection*.



### FEATURES

- Battery Backup for more than 24 Hours
- Display in Volumes and Grams
- Vibration Selection for 3D Mixing
- RPM Setting 1 to 50 RPM
- Large Colour LCD Display
- Auto Tare
- Manual Weight Calibration Facility
- Audio Video Alarms
- Blood Tray Tilt Angle Adjustment
- Detachable Blood collection Tray
- Password Protection
- Tube Sensing
- RS 232 Scanner Compatible
- 1000 Donar Data Storage
- Time Setting
- Date Setting
- USB/RS232 connect to Computer
- Carrying Case
- Blood Bank Management Software
- Connect more than 16 BCM via ethernet on a single PC



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### Battery Backup for 24 Hours

Never run short of power supply with Meditech Blood collection Monitor. You get continues 24 hours back up for Blood donation camps on full battery recharge.

### Audio Video Alarms

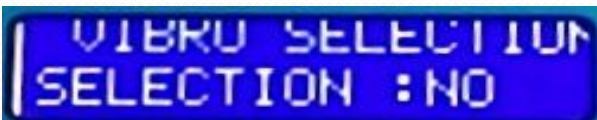
Audio and Visual Alarms for trouble free operation.

### Auto Tare

The machine automatically tares the weight to 1 ml at the beginning of collection process.

### Vibration selection for 3D mixing

3 Dimensional vibration for better mixing of blood and solvent during collection process.



### Manual Weight Calibration

Days for AMC are gone!! Meditech provides calibration mode to set the weight accuracy by any lab technician.

### RPM Setting 1 to 50 RPM

Lets adjust the Shaking speed can from 1 to 50 as per requirement.



### Large Colour LCD Display at 45°

Better vision during collection even from far distance at any angle. Clear display of different functions such as programmed volume, collected volume, flow rate, main/battery, collection enhancement, manual clamping during emergency and pause function

### Blood Collection Tray Tilt Adjustment

Tilting tray at required angle is now an easy task. Tilting is now adjustable for the first time for any blood collection monitor in the world.

### Display in Volumes and Grams

Now get 2 concurrent displays both in ml and grams simultaneously on the display

### Password Protection

Be assured that your BCM is now protected from any kind of tampering and miss usage.



### Tube Sensing

Safety First!! Tube sensing ensures that tube is properly inserted in the clamp before start of collection process.





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#### Detachable Blood Collection Tray

Removable magnetic tray ensures easy cleaning and hygiene.

#### USB and RS232 connect to Computer

The Monitor has a RS 232 port to connect to a scanner and USB Port to connect to a PC

#### RS 232 Scanner Compatible

Scan Bar codes with RS232 enabled Motorola Scanner and store values inside the BCM.

#### 1000 Donor Data Storage

Store more than 1000 donor data in the memory of blood collection monitor.

#### Connect 16 BCM to PC

More than 16 BCM can now be connected to a single PC . Assign a unique slave address to BCM to obtain DATA directly.



SET SLAVE ADD  
3

#### Scanner

Scan Bar code and Store upto 1000 Donor information in the monitor and later can be transferred to a PC.

#### Date and Time Setting

Meditech Blood collection Monitor is powered by RTC with a small inbuilt Battery. RTC updates the Time and Date even in the case of power failure



Enter Date Time  
13/11/15/09/36/1

#### Blood Bank management software

Never run short of power supply with Meditech Blood collection Monitor.

#### Carrying case

Carrying case can be ordered for mobile donation usage.



#### Battery Indication

Battery indication is provided to identify that machine is on battery back up or mains.

#### Built-in Rechargeable battery.

Rechargeable maintenance free battery is provided with inbuilt charging system.

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#### Features:

- Electronic controlled blood collection monitor
- Accepts all kinds of blood donor bags.
- Has 3D mixing system to guarantee the best mixing of blood with anticoagulant.
- Mixing speed min 1 to 20 rpm and tilting min.10 deg angles adjustable
- Large LCD display to show donation time, collected volume and average donation flow etc. during blood collection.
- The volume to collect can be changed at any point of time during the donation, if desired
- Automatic clamp of tubing at the end of donation with audible and visual alarms
- The display shows the final volume collected and the donation time in minutes & seconds at end of each donation.
- All collection data can be recalled and read from the memory
- Auto tare of the empty bag
- Adjustable upper safety limit for collected volume
- Adjustable Low and High Flow alarms
- Detection system on clamp for checking tube positioning
- Safety switch to control if tubing is well inserted into the clamp.
- Calibrate within few seconds with a known calibration mass.
- RS 232 port for connecting external equipment e.g. barcode reader etc.
- Possibility to connect to network through PC & software
- Built-in rechargeable battery to support minimum 1000 donations in case of mains failure
- Input port cable with 15 Plug and six way output terminal strip for two outlets

#### Specifications:

- Measuring range from 10 to 3000 ml/gr with accuracy of +/-1 % or better
- Collected volume range adjustable with 1 ml steps
- Setting of two default volumes
- Adjustable maximum donation time up to 20 minutes
- Configurable date and time
- Up to 1000 donations can be stored in internal memory
- Service programs shall be available for common trouble shootings
- Calibration mass 500 gm shall be supplied
- Power supply: 230 Vac, 50Hz with internal rechargeable battery

## Blood Collection Monitor

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Catalogue Number	MTBCM – 01
Input Voltage	100-250 VAC 50/60 Hz
Operation	Continues Operation with Intermittent Loading
Power	12W (Max)
Working Environment	
Temperature	0° to 40°C
Relative Humidity	30 to 75%
Atm Pressure	700 to 1060hPa
Battery	Full Charge Battery 24 hours continuous operation
Storing and Transportation Temperature	-20° to 40°C
Relative Humidity	20 to 90%
Atm Pressure:	600 to 1060hPa
Oscillation details	20± 2 rpm, motor driven oscillation. Adjustable for 1 to 20 RPM
Clamping Mode	Both automatic and Manual tube Clamping. Automatic clamping when the preset volume is achieved
Volume Setting	Insteps of 1 ml. Automatic storage of set volume. Continuous display of set and current volume
Auto Tare	The Machine Automatically calibrates the weight each time when the Start Button is pressed
Alarms/Indications	LCD,LED indication and audible alarm when there is no Blood flow .LCD, LED indication and audible alarm at the end of collection.
Display	Large 16×2 line character Backlit LCD display
Time Measurement	Time of collection is indicated at the end of every collection.Display of time during collection
Accuracy	1% of the programmed volume
Dimension in mm	height:140mm; length:250mm; width: 250mm
Weight	4.8 kg
Battery	12V, 2.3 AH Sealed Maintenance free lead acid rechargeable battery
RTC	Inbuilt Real Time Clock
Time setting	Display of time on the main screen and editable
Date Setting	Display of date on the main screen and editable
RPM	Setting RPM of motor can be set from 1 to 20
RS 232	RS 232 port for data extraction from BCM to Computer

## Blood Collection Monitor

### Software for Blood Bank

Software for Blood Bank shall be provided free of charge with this product.

**Create Donor**

Date: 1/1/2015 Email ID: \_\_\_\_\_

NIC No.: 0 Blood Group: \_\_\_\_\_ Name: \_\_\_\_\_

Name: \_\_\_\_\_ MR ID: \_\_\_\_\_

Address: \_\_\_\_\_ Remarks: \_\_\_\_\_

Sex:  Male  Female Public Path: \_\_\_\_\_

Mobile No.: \_\_\_\_\_

Alternate Mobile No.: \_\_\_\_\_

Buttons: Show Image, Home, Collection List, Add Collection

Summary: Yusuf - #102030  
382389893298  
yusuf.sj@burhanitechnologies.com

**Freezer List**

Number (or ID)	Connection Status	IP	Port	Start Address	Capacity
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Buttons: Show Details, Add Params

**Donor List**

Register Date	Nic Number	Name	Blood Group	Address	Gender	Mobile No.
1/1/2015 12:00:00 AM	100000	Yusuf	B+	102, Mount Road	Female	382389893298

Buttons: Show Image, Home, Collection List, Add Collection

Summary: Yusuf - #102030  
382389893298  
yusuf.sj@burhanitechnologies.com

**Add Freezer**

Number (or ID): \_\_\_\_\_ Capacity: 0

Port: \_\_\_\_\_ Start Address: \_\_\_\_\_

Freezer ID: \_\_\_\_\_ Remarks: \_\_\_\_\_

**Freezer Params**

Name: \_\_\_\_\_ Type: \_\_\_\_\_

Address: \_\_\_\_\_

Buttons: Submit, Cancel, Delete

Name	Address	Type
(AB)	(AB)	

**Create Blood Issue**

Blood Issue: \_\_\_\_\_ Date: \_\_\_\_\_ Issue Date: 1/1/2015

Issue Time: \_\_\_\_\_ Request Date: 1/1/2015 12:00:00

Buttons: Submit, Cancel, Back

**Blood Request Details**

MR Name: \_\_\_\_\_ Blood Group: \_\_\_\_\_

MR No.: \_\_\_\_\_ MR ID: \_\_\_\_\_

Request Date: 1/1/2015 12:00:00 AM Request Status: \_\_\_\_\_

Request Time: 00:00:00 Remarks: \_\_\_\_\_

Buttons: Show Details