

Infinity Acute Care System



Quick Reference Guide

Infinity Cockpit

C700 / C500

This Infinity Quick Reference Guide is not a replacement or substitute for the Instructions for Use (IFU). It is for informational purposes only.

Software Level: VG4

Content

Electrode & Lead Placement	3-6
Docking, Transport, Power and Keys	7-9
Blue Header Bar, Quick Access & Function Keys	10-12
Patient Category and Admit	13
Discharge, Standby and Privacy	14
Alarm Priorities	15
Alarm Pause & Alarm Setup	16-18
Screen Setup Restore Profile and Views	19-20
Parameter Setup	21
ECG	21-22
RRi/Impedance Respirations	22-23
SpO2	23-24
NIBP	24
Mainstream etCO2 Monitoring	25-26
12 lead ECG	26
Invasive Pressures	27
PAWP	28
Cardiac Output	28-29
Calculations	30

Warning! This “Quick Reference Guide” is not intended to replace the Instructions for Use manual. For full information concerning the performance characteristics of the Dräger devices described in this Quick Reference Guide, each user must carefully read and fully comprehend the Instructions for Use before operating the respective device.

Electrode & Lead Placement

DO'S & DO NOT'S

- ✓ Do place the electrode on a clean and dry area of skin.
- ✓ Do utilize soap, water, and dry skin thoroughly.
- ✓ Do remove hair if necessary for proper electrode placement.
- ✓ Do change electrodes Q 24-48 hours, or per hospital policy.
- ✗ Do Not utilize alcohol to dry and clean area of skin for electrode placement.
- ✗ Do Not place electrodes over bony prominences or area of increased muscle movement/activity.
- ✗ Do Not assume electrodes are “good” if the tape portion is attached to the patient’s skin.
- ✗ Do Not braid, tie or knot leads.

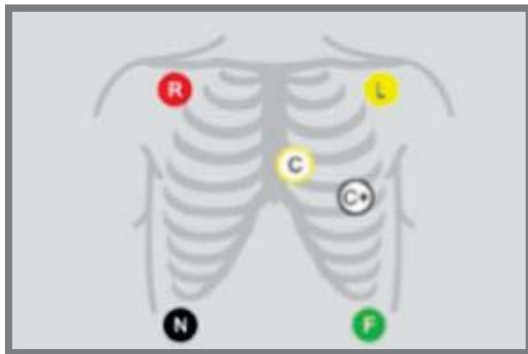
Note: Always follow hospital-approved practices or the recommendations of the electrode manufacturer.

Electrode Colors*

IEC		AHA/US		Electrode Location
L	Yellow	LA	Black	Left arm
F	Green	LL	Red	Left leg
R	Red	RA	White	Right arm
N	Black	RL	Green	Right leg (neutral)
C	White	V	Brown	Moveable chest
C+	Gray & White	V+	Gray & Brown	2 nd Moveable chest

Standard 6 Lead Configuration

IEC

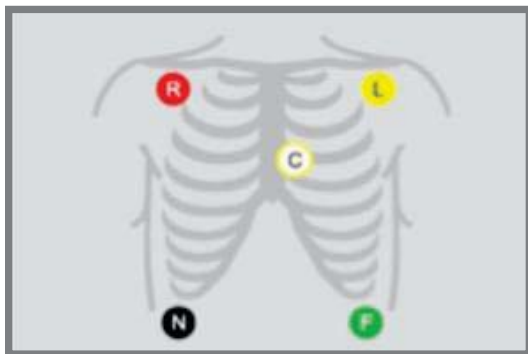


AHA

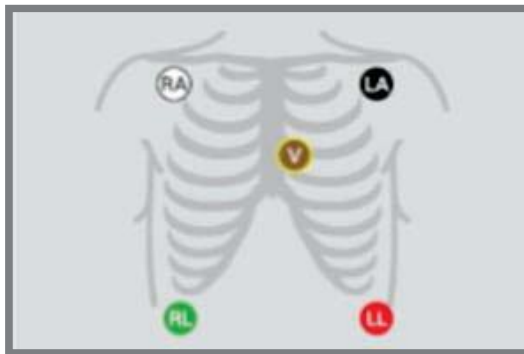


Standard 5 Lead Configuration

IEC

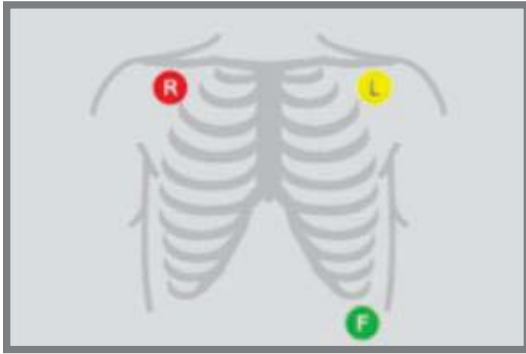


AHA

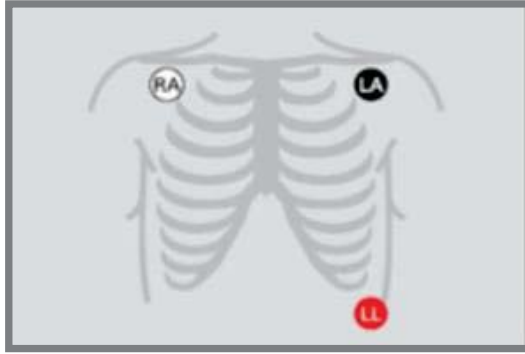


Standard 3 Lead Configuration

IEC

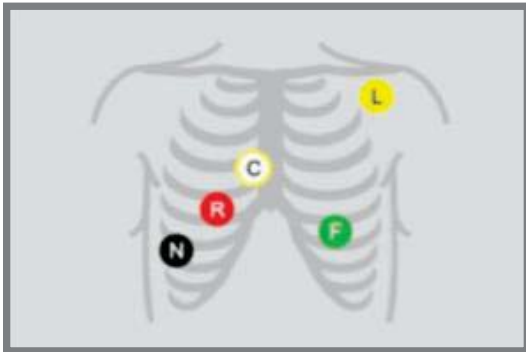


AHA

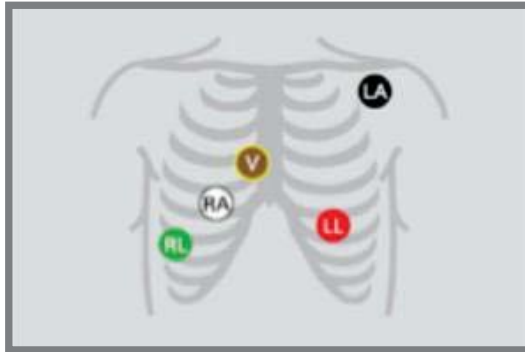


Pacemaker Configuration 5 electrodes

IEC



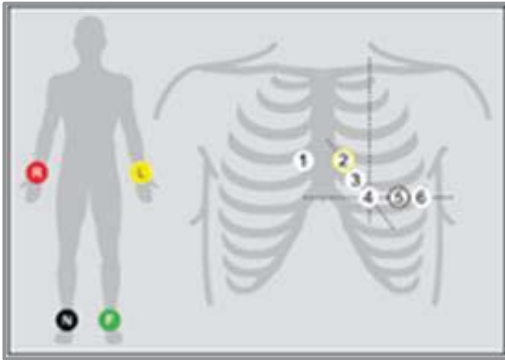
AHA



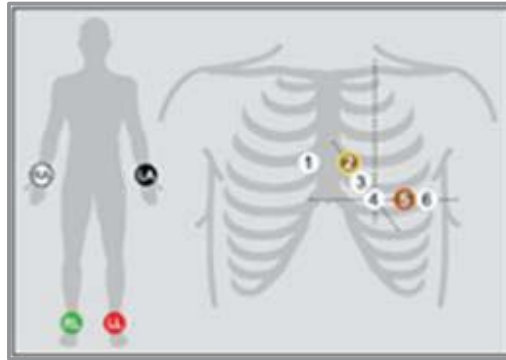
Warning: Make sure the pacemaker detection is turned OFF for patients without pacemakers and that it is ON for patients with pacemakers. Always keep pacemaker patients under close surveillance.

12-Lead Configuration (ten electrodes)

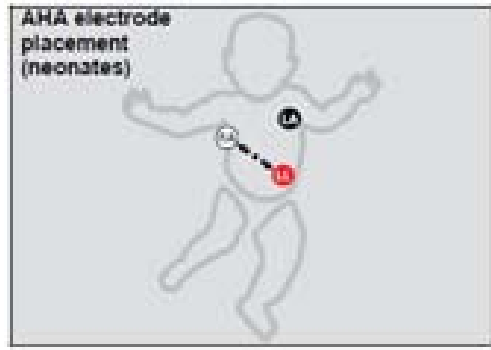
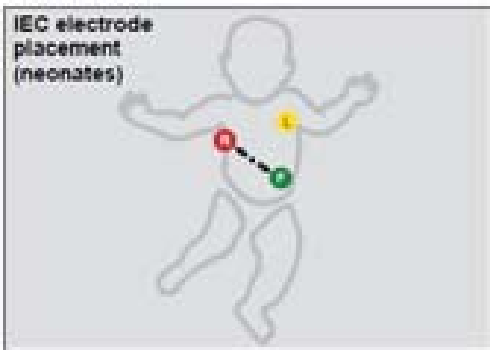
IEC



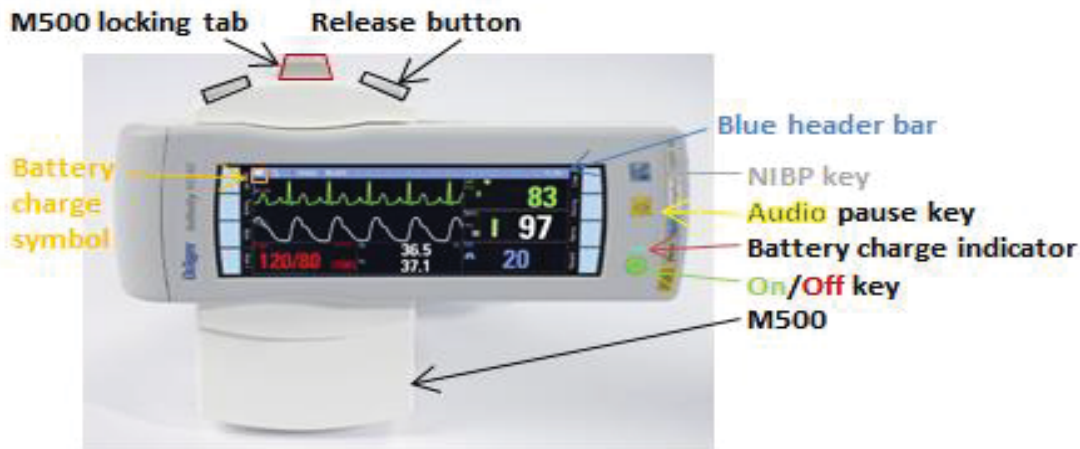
AHA



Respiratory lead placement for infants



Docking and Transport, Power & Frequently Used Keys



M500 DOCKING STATION WITH M540 AND COCKPIT

1. M500 secures and powers the M540 monitor
2. M500 connects M540 to the Cockpit and the Infinity network that may include an Infinity Central Station (ICS), a network recorder, and a network printer.
3. M540 facilitates transport of patient when undocked, by maintaining all patient connections and alarm settings.
4. M540 when configured as wireless can send information to the ICS over a Wi-Fi network.

TO UNDOCK M540 (release for transport)

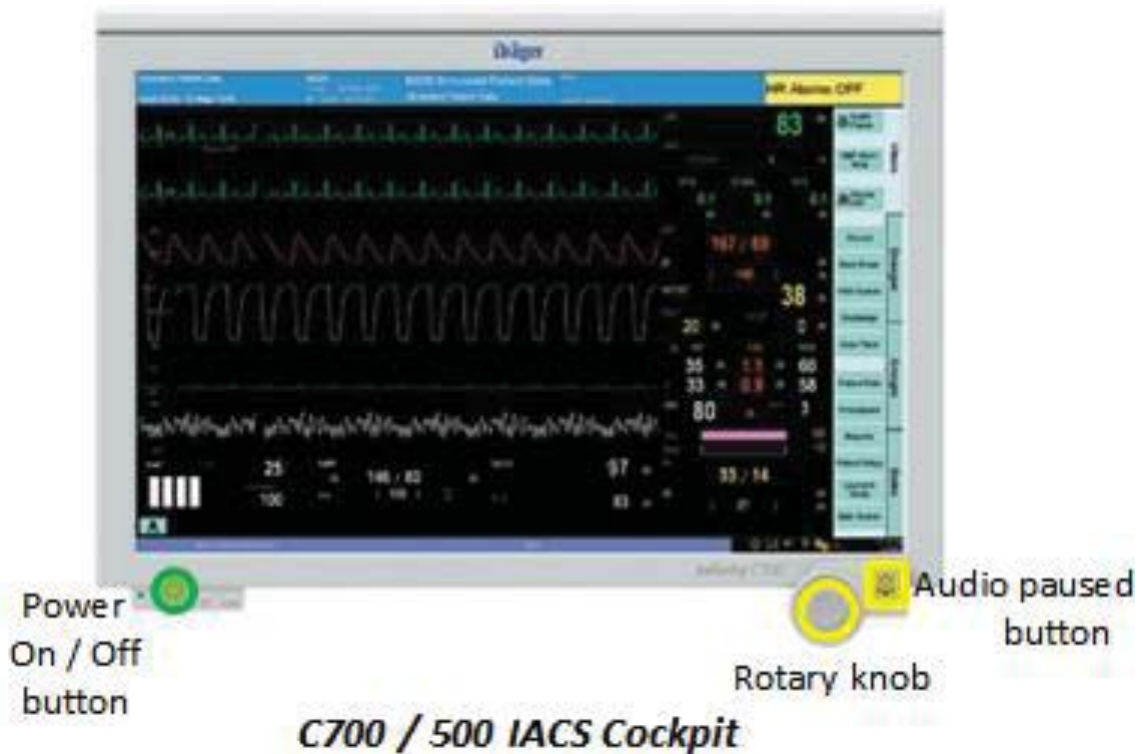
1. Push locking tab toward the back of M500
2. While holding the M540 firmly with one hand press one of the release buttons on M500 and remove from M500

TO DOCK M540

1. Align curved portions of M540 and M500
2. Press M540 into M500 until it clicks in place.
3. Push the locking tab toward the front of M500.

COCKPIT

Refers to the C500/C700 medical cockpit. The main user interface for the IACS



TO POWER ON/OFF

1. Press the **Power On/Off key**
2. Select **Shutdown** inside the dialog window. The message
3. System is shutting down appears on the screen while the
4. Infinity Medical Cockpit is being powered down.

ROTARY KNOB

Navigates through menus and tables to define settings

1. Touch a Parameter box or Function key to display a menu. Turn the Rotary knob to the left or right to increase or decrease a numeric value, to scroll down a list, or navigate through a menu.
2. Press the Rotary knob to accept a selected setting.

AUDIO PAUSE KEY

This key is located to the right of the rotary knob.



Pauses acoustic alarm signals for two minutes.

Note: *Quiet Mode is **Activated** – If a new alarm condition with a priority higher than the currently paused alarm occurs, a truncated alarm tone sounds. In addition, the alarm is represented by visual alarm signals corresponding to the alarm priority. If the new alarm is of lower priority than the paused alarm, the new alarm condition is only represented by a visual alarm signal. No acoustic alarm tones sound.*

*If Quiet Mode is **Deactivated** - Any new alarm condition breaks through the Audio Pause period with full acoustic and visual alarm annunciation.*


TO CALIBRATE THE C700 / 500 SCREEN

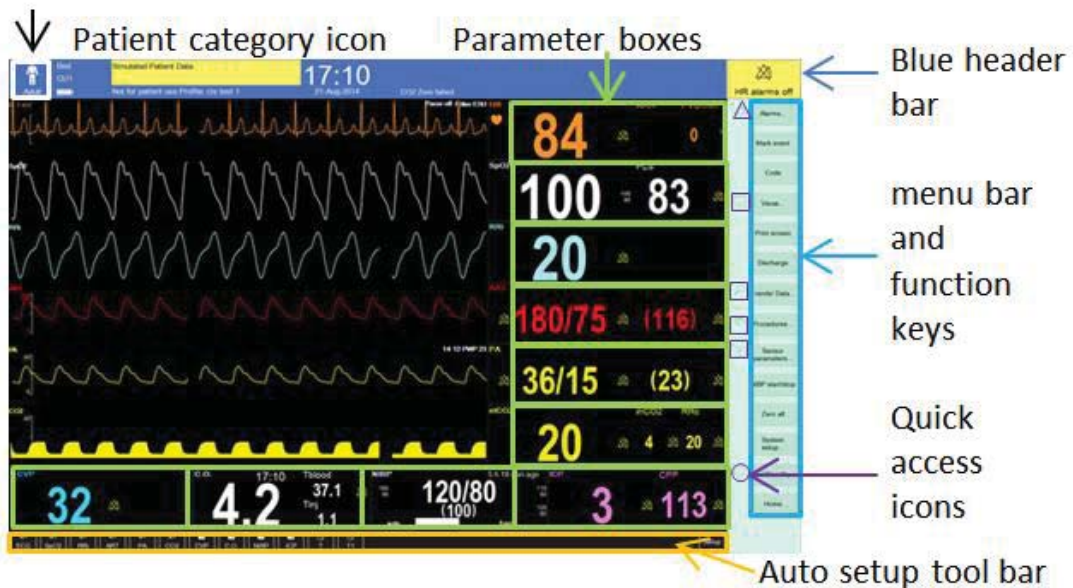
1. Press the rotary knob for 30 sec. until the **Calibrate Touch Screen** popup appears. (Requires several seconds)
2. Select the **Calibrate** button in the popup or press the rotary knob again to access the calibration screen.
3. Follow the onscreen prompts
4. Depress the circles until they turn Dark Blue.

Blue Header Bar, Quick Access Icons, & Function Keys

BLUE HEADER BAR






Appears along the top of the screen and displays the following:

1.  Patient category field (adult pediatric, neonate)
2. System data field
3. Patient name field
4. Time and date field
5. Alarm message field
6. Alarm banner field



QUICK- ACCESS SYMBOLS

Symbols that offer access to frequently used functions

Quick access symbol next to:	Associate tool bar
 <p><i>ALARMS...</i></p>	<p>All alarms off, or All alarms paused Auto set all</p>
 <p><i>VIEWS...</i></p>	<p>Show all ECG Remote view Print screen</p>
<p><i>TRENDS AND DATA...</i></p> 	<p>Trend Table Report, ECG Reports, Timed Waveform Report, Timed Recording and Continuous Recording, etc.</p>
<p><i>SENSOR PARAMETERS...</i></p> 	<p>Zero all NIBP continuous Venous stasis</p>
 <p><i>START / STANDBY...</i></p>	<p>Standby Discharge Privacy</p>

FUNCTION KEYS





Preconfigured and Configurable quick access keys

Key	Function
<i>ALARMS</i>	Opens the Alarms dialog window.
<i>MARK EVENT</i>	Stores an event in the alarm history.
<i>CODE</i>	Executes pre-configured functions associated with a code
<i>RELEARN ARR</i>	Establishes a new QRS template
<i>VIEWS...</i>	Opens the dialog window for setting up screen view and Remote view.
<i>PRINT SCREEN</i>	Prints the current screen view on a connected laser printer
<i>FREEZE WAVEFORMS</i>	Stops all waveforms for 60 seconds.
<i>TRENDS AND DATA...</i>	Opens the Trends/Data dialog window.
<i>PROCEDURES</i>	Opens the dialog window for setting up Wedge and C.O.
<i>SENSOR PARAMETERS...</i>	Opens the dialog window for setting up each parameter.
<i>NIBP START / STOP</i>	When selected starts an NIBP measurement. To cancel the BP, select the button again.
<i>ZERO</i>	Zeroes all pressures (not available on C500)
<i>SYSTEM SETUP</i>	Opens the System setup dialog window.
<i>START / STANDBY</i>	Opens the Start/Standby dialog window.
<i>HOME</i>	Returns to the main screen and closes any dialog window.

Patient Category, Admit, Discharge, Standby, and Privacy


PATIENT CATEGORY

Each patient category for Adult, Pediatric, and Neonate have specific defaults associated with it.


1. Touch patient category symbol  in left most field of the blue header bar on Cockpit.
2. Select desired **Patient category**.
3. Press **rotary knob** to confirm setting.
 - The message **“Changing category will change alarm settings and algorithmic processing”** appears.
 - Selected patient category icon    will appear in blue header bar.

Note: *If you dock an M540 with a patient category that differs from the one selected on the Cockpit, the patient category setting of the Cockpit changes to match the M540.*

ENTER PATIENTS DEMOGRAPHIC DATA FOR ADMISSION

1. Touch patient category symbol  in left most field of the blue header bar on Cockpit.
2. Select **Name, ID, Birth date, Admit date, Physician, height and weight**, and use key board to enter data.

TO ADMIT A PATIENT USING “GET HIS” FUNCTION

1. Touch patient category symbol  in left most field of the blue header bar on Cockpit.
2. Enter the patient **ID number**.
3. Select **Get HIS** button on the demographics page.
 - If button is grayed out and is not selectable, the Cockpit is not connected to the hospital information system.
4. Demographics will populate automatically. If demographics do not appear, confirm correct ID #.

TO DISCHARGE A PATIENT

1. Select **Discharge** function key on the main menu bar.
2. The message **Caution discharge will delete patient data** appears.
3. Select **Discharge** to confirm, or **Cancel** to resume monitoring same patient.
4. The message **Touch Screen to initiate monitoring** appears.

Note: *All patient data is deleted upon discharge, and either factory or user default limit settings are restored.*

TO PLACE MONITOR IN STANDBY

You can temporarily interrupt patient monitoring by placing the Cockpit and the M540 in standby mode.

1. Select the **Start/Standby...** button on the main menu bar to display the Standby dialog window.
2. Select the **Start** tab if it is not already selected.
3. Select the **Standby** button. The banner **Standby-Touch Screen to resume monitoring** appears in the center of the Cockpit screen.
4. To take the Cockpit out of **Standby** mode, touch the screen to resume monitoring the vital signs


TO PLACE MONITOR IN PRIVACY

All patient data are removed from the Cockpit and the M540 displays, but continue to be displayed and alarm signals produced at the Infinity Central Station.


1. Select the **Start/Standby...** button on the main menu bar to display the Standby dialog window.
2. Select the **Start** tab if it is not already selected.
3. Select the **Privacy** button. The banner **Privacy Touch Screen to resume monitoring** is displayed in the center of the monitor.

Alarm Priorities

HIGH-PRIORITY ALARMS

- Report conditions that can be life threatening and require immediate intervention; for example, asystole.
- The alarming parameter's box and alarm message field have red background, and audible alarms* sound when active.
- Are **latched**, (audio / visual alarms continue until the alarm is acknowledged, even if the alarm condition has ceased to exist). To acknowledge press .

MEDIUM-PRIORITY ALARMS

- Report conditions that require prompt attention but may not be life-threatening; for example, low SpO2.
- The alarming parameter's box and alarm message field have a yellow background, and audible alarms* sound when alarms are active.
- Are **non-latched** (audio / visual flashing alarms stop when situation corrects self), but alarm status message will remain in the header bar. To remove message press .


LOW -PRIORITY ALARMS

- Alerts to technical issues that may compromise the ability of the system to monitor the patient; for example, SpO2 probe off. Also may be set to alert to lower risk arrhythmias, such as couplets.
- The alarming parameter's box and alarm message field have cyan background, and audible alarms* sound when active.
- Are also **non-latched** alarms, *except* status bar does not remain active when situation resolved.

Note: Audible alarm signals are distinct for each alarm priority. Specific characteristics including break through alarms will vary depending on the default alarm pattern (Infinity, IEC fast or IEC slow) & software level.

Alarm Pause & Alarm Setup

TO PAUSE AUDIO ALARMS FOR 2 MINUTES



1. Press the yellow key  on the Cockpit.
2. Pressing the key again turns alarms back on

Note: *Quiet Mode is **Activated** – If a new alarm condition with a priority higher than the currently paused alarm occurs, a truncated alarm tone sounds. In addition, the alarm is represented by visual alarm signals corresponding to the alarm priority. If the new alarm is of lower priority than the paused alarm, the new alarm condition is only represented by a visual alarm signal. No acoustic alarm tones sound.*

*If Quiet Mode is **Deactivated** - Any new alarm condition breaks through the Audio Pause period with full acoustic and visual alarm annunciation.*

TO PRE-SILENCE ALARMS FOR 2 MINUTES

This function allows you to pre-silence (audio pause in advance) potential alarm conditions before they occur.

1. Press the yellow key  on the Cockpit
 - Alarm conditions are reported visually by a corresponding alarm message and a blinking parameter box.
 - A single alarm tone sequence is generated for the first occurrence of an alarm condition of low, medium or high priority.
 - The **Audio paused %** banner appears in the far right field of the header bar along with a countdown timer and the following symbol: 
 - If multiple alarm conditions arise during an active pre-silence period, the Cockpit triggers a single alarm tone sequence for the highest grade.

Note: *Pre-Silence functions only if Quiet Mode is activated.*

ARCHIVE FUNCTION

In response to an alarm limit violation for each Parameter or Arrhythmia the following occurs depending on the **Archive** setting:

- **Off** – no event is stored and no recording is generated.
- **Store** – stores the event for later review.
- **Record** – generates a timed recording
- **Str/Rec** – generates a timed recording and stores the event.

Note: *All Arrhythmia Alarms if set to Str or Str/Rec will hold the event in the alarm history for later review even when the alarm is turned Off.*

CONFIGURING INDIVIDUAL PARAMETER ALARM SETTINGS

1. Select desired parameter box to access the parameter setup page.
2. Select button above the current patient value to adjust the **High** limit. Select the button below the current patient value to adjust the **Low** limit.
3. When button is highlighted yellow use **Rotary knob** to adjust the parameter limit higher or lower.
4. Press **Rotary knob** to confirm.
5. Select button below low limit to select how an alarm violation for this parameter will be **Archived**.
6. To turn alarm **Off** or **On** for the parameter
 - Select the **Alarm on/off** button, a crossed-out triangle appears in the parameter box when alarm monitoring is deactivated.

WARNING: *The banner HR alarms off appears in the right most field in the header bar whenever you deactivate heart rate alarms. Setting alarm limits to extreme values may prevent certain alarm conditions from being detected and from being annunciated with acoustic and visual alarm signals.*

CONFIGURING ARR (ARRHYTHMIA) ALARM SETTINGS

1. Select the **Alarms** button on the main menu bar.
2. Select the **Limits** tab (if not already selected).
3. Select the **ARR** tab along the right side.
4. Select the corresponding setup button for the **Alarm priority** column to select the alarm priority. A crossed-out triangle appears when alarm monitoring is deactivated. The priority for asystole and ventricular fibrillation events cannot be changed. The alarm priority 'high' is always assigned to these categories.
5. Select the corresponding setup button in the **Rate** column to set the rate.
6. Select the corresponding setup button in the **Count** column to set the count.
7. Select the corresponding setup button in the **Archive** column to set how it will be archived with alarm violation.
8. Select the **Arrhythmia mode** button to change Arrhythmia monitoring to **Advanced, Basic or Off** (if available).
9. Select the **Relearn** button to initiate the relearn process of the ECG leads. A new reference template is created.

TO ADJUST ALARM VOLUME

1. Touch the **Alarm Volume Indicator** to open the Alarm Volume Menu



Screen Setup, Restore Profile & Views

DISPLAY MODE SETUP/AUTO VIEW TAB

The Mainscreen of the Cockpit will show parameters and waveforms based on two settings, **Auto** or **Manual**




1. Select **Setup** button on far right of Auto display toolbar if available
 - OR, select **System Setup** from menu bar key, **Screen Setup** tab (on top), and **Auto view** tab (on right).
2. Select **Auto** display mode selection button to have the Main screen display only those parameters with cables connected to the monitor

OR

3. Select **Manual** display mode to have the Main screen show all parameters even those not connected.
4. Adjust position and number of waveforms and parameter boxes, turn on **Split screen**, and setup and turn on **Mini trends** display.

AUTO VIEW TOOLBAR



1. On **Auto view toolbar** at bottom of screen, touch the desired **parameter icon** to move.
2. With rotary knob, dial left to move to higher priority, or dial right to move parameter to a lower priority.
 -  Parameter is displayed as a waveform with a parameter box.
 -  Parameter is displayed only as a parameter box.
 -  Parameter is actively in use but not displayed on the screen.

TO SELECT OR RESTORE A PROFILE

A **profile** consists of customizable pre-defined settings for each patient category, and may include settings unique for each parameter, the alarm defaults, and configurable menu bar keys. Default Profile is restored when selected or upon discharge.

1. Select **System setup...**
2. Select **Profiles**
3. At drop down box, select **down arrow** and select desired profile name. Default profile has an asterisk*.
 - Profile may already be highlighted, but select, profile has now been restored.

Note: *Patient category does not change automatically.*

TO SELECT A DIFFERENT VIEW

A **View** refers to the layout and content of the screen. Each profile has a pre-defined view associated with it. Each profile can also have alternate views associated with it.

1. Select **Views...** key on main menu bar.
2. Select **name** of desired view.

“Auto” in the name indicates a plug-and-play concept where the content of the main screen depends on the connected parameter signals.

REMOTE VIEW

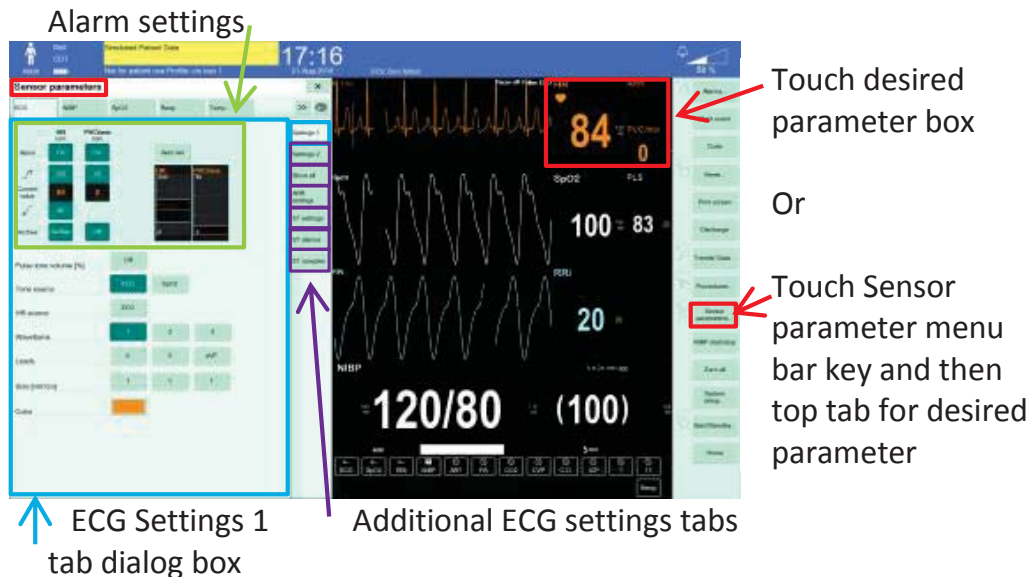
Cockpit allows you to view data from other infinity monitors in the same monitoring unit.

1. Select the **Views** button on the main menu bar.
2. Select the **Remote view** tab. This dialog lists all of the beds in the monitoring unit.
3. Select a bed from the list in the **Views...** dialog to access the remote view of an individual patient.
4. Select the **Connect** button.

Parameters

TO ACCESS ANY PARAMETER SETTINGS

1. Select the desired parameter box.
OR, if desired parameter is not visible
2. Select **Sensor parameters...** on Main menu bar.
3. Select desired parameter tab from tabs across top of dialog box.



ECG

TO ADJUST PULSE TONE ON/OFF

1. Select **Heart rate** parameter box.
2. At **Pulse tone volume %**, select button.
3. Use **rotary knob** to dial and select desired setting.
4. **Click rotary knob** to confirm.

TO CHANGE LEADS

1. Select **Heart rate** parameter box.
2. At **Leads** select 1st, 2nd, or 3rd button to choose which displayed channel on screen to change.
3. Make selection from available leads
4. **Click rotary knob** to confirm.

TO TURN PACEMAKER DETECTION ON / OFF

1. Select **Heart rate** parameter box.
2. Select **Settings 2** tab.
3. At **Pacer Detection** select **On** or **Off**.
 - If buttons are grayed out, make sure choice of **Filter** (located directly above Pacer detection) is not set to **ESU**

TO ADJUST QRS DETECTION THRESHOLD

1. Select the **Heart rate** parameter box.
2. Select **Settings 2** tab.
3. Select Normal or **Low** QRS Threshold
4. Click rotary knob to confirm.

Note – *Low detects QRS complexes of low amplitude.*

TO SHOW ALL LEADS AND / OR PRINT ECG REPORT

5. Select **Heart rate** parameter box.
6. Select **Show all** tab.
7. Select **ECG report Print** for non-diagnostic report
8. Select **Rest ECG report Print** for diagnostic report.
 - Diagnostic report requires specific software.

TO SELECT NUMBER OF LEADS FOR ARR PROCESSING

1. Select **Heart rate** parameter box.
2. Select **Settings 2** tab.
3. At **ARR processing**, select **ECG 1 or ECG 1 & 2** button

TO RELEARN ECG

1. Select **Heart rate** parameter box.
2. Select **Settings** tab > **ARR** tab > **Relearn**.

Note: *Not available in Neonate Mode*

RRi - Impedance Respiration

TO RELEARN RESP PROCESSING

1. Select **RRi** parameter box.
2. Select **Relearn**.
3. **RRi** waveform is re-analyzed and saved as a reference for counting the Resp waveform.

TO SELECT AUTO OR MANUAL MODE

1. Select **RRi** parameter box.
2. At **Mode**, select **Auto** or **Manual** to change.
 - **Auto** – Optimal breath-detection threshold calculated at the beginning of RESP monitoring, or with **RESP Relearn**. Intended for patients with regular breathing patterns. **Relearn** the **RRi** waveform regularly to reduce artifact and optimize breath count.
 - **Manual** –The monitor detects breath based on the size of the waveform. After turning on **Manual mode** adjust waveform size. **Manual mode** is intended for adult or pediatric patients whose breathing patterns show excessive variation; or for neonates whose breathing rhythms tend to be irregular, and whose signals may not be reliably detected in Auto mode.

TO ADJUST RRi WAVEFORM SIZE

1. Select **RRi** parameter box.
2. Select **Size %** and select desired amplitude.
3. Dial **rotary knob** to select desired setting.
4. Click **rotary knob** to confirm.

TO DISPLAY RESPIRATORY MARKERS

1. Select **RRi** parameter box.
2. At **Resp. marker** select **On** or **Off**.

Note: *Respiration markers indicate the time of breath detection. A white vertical line displays on the Resp waveform where each breath is detected.*

SpO2 Monitoring

The accuracy of SpO2 monitoring depends largely on the strength and quality of the SpO2 signal

TO CHANGE PULSE TONE VOLUME

1. Select **SpO2** parameter box.
2. At **Pulse tone volume %**, select button.
3. Dial **rotary knob** to select desired setting.
4. Click **rotary knob** to confirm.


TO CHANGE PULSE TONE SOURCE

1. Select **SpO2** parameter box.
2. Select **Tone Source** and select **ECG** or **SpO2**.


Note: Refer to M540 Instructions for Use manual for further device specific information, **Masimo** or **Nellcor**.

NIBP - Non-Invasive Blood Pressure

TO START A NIBP SINGLE MEASUREMENT


1. Press the **NIBP Start / Stop** fixed key .
 - Pressing the key again stops the measurement.
 - NIBP inflation modes- **Adult, pediatric, and neonatal**- can be selected in **NIBP** parameter box and **Settings** tab.

TO SET NIBP INTERVAL TIME

1. Select **NIBP** parameter box.
2. Select **Interval time (min)**.
3. Dial **rotary knob** to select desired setting.
4. Click **rotary knob** to confirm.
5. Press **NIBP Start / Stop fixed key**  to initiate cycling.
6. An interval timer bar appears in the parameter box between interval measurements. This indicates that the interval time option is in use.

Note: Pressing the NIBP start/stop button longer than two seconds suspends interval mode and sets the Interval time [min] to Off. To resume interval times, must re-set to desired time interval and initiate by pressing **NIBP Start / Stop**.

TO STOP A NIBP MEASUREMENT

1. Press the **NIBP Start / Stop fixed key**  |
2. To resume interval times, must re-set to desired time interval and initiate by pressing **NIBP Start / Stop**.

Mainstream etCO₂ Monitoring

CONNECTING THE CO₂ SENSOR

1. Connect yellow end of CO₂ sensor cable to yellow CO₂ connector on M540.
2. Insert correct airway adapter for patient between endotracheal tube adapter and the ventilator Y-piece.
3. Snap the CO₂ mainstream sensor firmly onto the airway adapter and make sure the cable is directed away from the patient.

Note: Always position the sensor windows of the airway adapter vertically to prevent patient secretions from obscuring the adapter window.

ADJUST GAS COMPENSATION

Compensates for supplemental O₂ greater than 50% N₂O or Heliox. Failure to adjust compensation can cause inaccurate measurements.

1. Select **etCO₂** parameter box.
2. Select **Gas compensation**.
3. Dial **rotary knob** to correct compensation.
4. Click **rotary knob** to confirm.

TO ZERO CO2

Only zero a Dräger sensor when the measurement value is suspect, or when you are prompted to re-zero on the monitor screen **blue header bar**.

1. Remove sensor from airway adapter before attempting to zero.
 - Do not breathe on sensor during calibration.
 - Make sure adapter is free from secretions and moisture.
2. Select **CO2** parameter box.
3. Select **Zero**.
 - **"Zero failed"** or **"Zero accepted"** will be displayed in blue header bar.

TO SET RRc APNEA TIME

1. Select **CO2** parameter box.
2. Select **RRc Apnea time (secs)**.
3. Dial **rotary knob** to select desired setting.
4. Click **rotary knob** to confirm.
5. Select **Apnea Archive**, to select **Store**, **Str/Rec**, **Record**, or **Off**.
6. Dial **rotary knob** to select desired setting.
7. Click **rotary knob** to confirm.

12 Lead Monitoring

Requires an additional 4 lead wire set be added to an existing 6 lead set. The 12 lead option must be enabled and patient is admitted at ICS with Name, Height, Weight, and Birth date.

TO OBTAIN A DIAGNOSTIC 12-LEAD (REST ECG) REPORT

1. **Select System** setup... on the main menu bar.
2. Select the **Recordings/ Reports** tab.
3. Select **Rest ECG report**
4. Enter patient **gender** and **race, condition and medications**.
5. Press **Rest ECG report**.

OR

1. Press **Menu** function key.
2. Press **Rest ECG report**.

Note: Confirm all leads are free from artifact using the Show all Leads in HR Menu. REST ECG report tab is available at bottom of screen.

Invasive Pressures

If no pressure labels are saved as default, labels **GP1 to GP4** are automatically assigned. In Auto view when cables and transducers are connected IBP parameter box will be visible on Mainscreen.

TO CHANGE A PRESSURE LABEL

1. Select any **invasive pressure** parameter box.
2. Select **Label**.
3. Dial **rotary knob** to select desired label.
4. Click **rotary knob** to confirm or, if invasive pressure parameter is not visible
5. Select **Sensor parameters...** from main menu bar.
6. Select **IBP** tab to access IBP page.
7. Select desired IBP tab along right side of IBP page.
8. Select **Label**.
9. Dial **rotary knob** to select desired setting.
10. Click **rotary knob** to confirm.

TO ZERO ALL TRANSDUCERS

1. Level transducer stopcocks appropriately for parameters being zeroed.
2. Close the transducer stopcocks to the patient and open them to air.
3. Select **Zero all** key on **main menu bar** (C700 only), **Hemopod**, or **QuadHemo**.
 - Zeroes all transducers open to air sequentially.

Note: *All open transducer alarms are silenced for 30 seconds.*

TO ZERO AN INDIVIDUAL TRANSDUCER

1. Level transducer stopcock appropriately for parameter being zeroed.
2. Select parameter box of the desired pressure to zero. Close the transducer stopcock to the patient and open it to air.
3. Press **Zero**.

Pulmonary Artery Wedge Pressure

1. Select the **PA** parameter box or select the **Procedures...** button from the main menu bar.
2. Select the **Wedge** tab or button.
3. Check scale, sweep speed, and reference waveform selections and adjust as needed.
4. Select the **Prepare wedge** button.
5. Inflate balloon and press “**Start Wedge**” to begin.
 - When result obtained, screen freezes.
 - Deflate balloon immediately after wedge obtained.
6. Select one of the following buttons:
 - **Freeze/ Adjust** button to alter the PWP value manually.
 - **Save wedge** button to save the new value.
 - **Cancel wedge** to cancel the measurement.

Cardiac Output

BEFORE INJECTING FOR A CARDIAC OUTPUT

1. Dräger recommends pre-filled syringes or a closed injectate system placed in an ice bath maintained between 0°C (32°F) and 5°C (41°F). The accuracy of measurements done with the thermodilution method increases as the temperature of the injectate approaches 0°C (32 °F).
2. If using an injectate at room temperature, use a 10 cc. injectate volume, unless clinically contraindicated, to get the best results.
3. Select **C.O.** parameter box.
4. Verify correct catheter size and type. The computation constant is already entered.
5. **If either one is not correct,**
 - Select **Catheter type** and **choose BD / Ohmeda, Edwards / Baxter, Arrow, or Other.**

- The computation constant is already entered **except Other**.
 - a) If **Other** is selected, manually enter computation constant by selecting **Comp. Constant []**
 - b) Using **adjacent on-screen keypad** or **keyboard**, touch to enter numbers.
 - c) Click **rotary knob** to confirm.
6. Select **Size**
- Dial **rotary knob** to select desired setting.
 - Click **rotary knob** to confirm.

TO PERFORM A CARDIAC OUTPUT MEASUREMENT

1. Select **C.O.** parameter box.
 - If necessary, select **Mode Auto** or **Manual**.
 2. Select **Start C.O.**
- OR
3. Select the **Procedures...** button from the main menu bar.
 4. Select the **C.O.** tab if necessary.
 5. Select **Start C.O.**
 - In **Auto** mode, the message **Inject when ready** appears in the **Procedures... > C.O.**
 - a) Blood temperature must be stable (from previous injectate solution), otherwise will give error message.
 - In **Manual** mode, process is as above, but **no Inject when ready messaging**.
 - a) Inject as desired.
 6. To eliminate inconsistent values from being included, touch any of the results to eliminate them from the average.
 7. Before leaving the procedures page, select the **Save C.O. average** button to store it for calculations.

Calculations

TO PERFORM CALCULATIONS

1. Select the **Procedures...** button from the main menu bar.
2. Select **Calculations** tab.
 - Touch **Capture values**. All necessary data available to the monitor will be captured.
 - To change or manually enter data, touch the value or values to be changed.
 - a) Using **adjacent on-screen keypad** or **keyboard**, touch to enter data.
 - Click **rotary knob** to confirm.
3. If active, lab results can be added by touching **Capture labs**.
4. Touch **Calculate Results**.
5. Touch **Results** tab on right of page to view.
6. Touch **Print** to print report if desired.

HEADQUARTERS

Drägerwerk AG&Co. KGaA
Moslinger Allee 53-55
23558 Lübeck, Germany

www.draeger.com

CANADA

Draeger Medical Canada Inc,
2425 Skymark Ave Unit1
Mississauga, ON L4W 4Y6

Tel +1 905 212 6600
Toll-free +1 866 343 2273
Fax +1 905

USA

Draeger Medical, Inc
3135 Quarry Road
Telford, PA 18969-1042, USA

Tel +1 215 721 5400
Toll-free +1 800 437 2437
Fax +1 215 723 5935

Manufacturer:

Draeger Medical Systems, Inc.
Telford, PA 18969, USA

The quality management system at Draeger Medical Systems is certified according to ISO 13485, ISO 9001 and Annex II.3 of Directive 93/42/EEC (Medical Devices).