

	Battery installation	3-3
	Leadwire installation	3-5
	Electrode attachment	3-5
	Verify transmitter/leadwires status	3-6
	Antenna system	3-6
	Optional components	3-7
	Xpod oximeter	3-7
	Apex oximeter.	3-7
	Battery installation.	3-8
	Transmitter connection	3-9
	Dinamap PRO monitors	3-9
	Interconnection cables	3-10
	Accutracker DX.	3-10
	Battery installation.	3-10
	Connection	3-11
4	System setup	4-1
	Bedside monitor setup	4-2
	CIC Pro center setup	4-3
	Configuring the CIC Pro center	4-4
	Verifying proper operation	4-4
	Customizing the system	4-4
	Licenses (instituted)	4-5
	Defaults (persistent)	4-6
	Service-level defaults	4-6
	User-level defaults (persistent)	4-7
	Control settings (temporary)	4-18
	Alarm volume	4-18
5	Alarms	5-1
	Alarm notification	5-2
	Alarm categories	5-3
	Patient status alarms	5-3
	System status alarms	5-4
	Managing patient alarms.	5-4
	Enable transmitter pause	5-5
	Pausing alarms at the transmitter	5-5
	Reactivating alarms at the transmitter	5-6
	Alarm pause breakthrough	5-6
	Silencing alarms	5-7
	Temporarily silencing alarms from the CIC Pro center	5-7
	Alarm silence indicator	5-8
	Adjusting alarm control settings	5-8
	Monitor alarm control settings	5-9

	Telemetry bed alarm control defaults	5-12
	Alarm unit default settings	5-12
	Telemetry alarm control defaults	5-12
	Parameter limits	5-14
	Parameter alarm levels	5-15
	Arrhythmia alarm levels	5-15
	System alarm levels	5-16
	Recalling unit defaults	5-17
	Alarm help	5-17
	Printing patient alarm graphs	5-17
	Configure the automatic printing of alarm graphs	5-17
	Printing alarm settings	5-18
	Stop printing an alarm graph	5-18
	Stop printing to a laser printer	5-18
	Stop printing to a local digital writer	5-18
6	Managing patients	6-1
	Introduction	6-2
	Skin preparation	6-2
	Electrode placement	6-2
	6-leadwire electrode placement	6-3
	5-leadwire electrode placement	6-4
	3-leadwire electrode placement	6-4
	Electrode placement for pediatric patients	6-5
	Electrode placement for neonate patients	6-5
	Verify status	6-6
	Maintaining quality ECG signal	6-6
	Special considerations for 6-leadwire monitoring	6-7
	V FAIL message	6-7
	Relearn	6-7
	Admitting	6-7
	Terminology	6-8
	Factors guiding the admit process	6-9
	The source of the ECG data	6-10
	The source of the patient demographic information	6-10
	The monitor moves (roves) from room to room	6-10
	The permanent (locked) beds in the multi-patient viewer	6-11
	Admitting a patient	6-11
	Changing patient demographic information	6-16
	Moving a patient to a different bed	6-17
	Move a patient to a different bed	6-17
	Move a patient to telemetry monitoring	6-18
	Move a telemetry patient to a different transmitter	6-18
	Switching transmitters	6-18
	Discharging an admitted patient	6-19

Combo and Rover Combo monitoring	6-19
Guidelines	6-19
Constraints	6-20
ECG setting source	6-21

7 Viewing real-time patient data 7-1

Real-time patient views	7-2
Data synchronization	7-2
Multi-patient viewer	7-2
Single patient viewer	7-3

In-unit patient beds	7-5
Viewing in-unit patients experiencing an alarm condition	7-5
Viewing patient beds from another in-unit CIC Pro center	7-5

Out-of-unit patient beds	7-6
Viewing an out-of-unit patient bed	7-6
Removing viewed out-of-unit patient beds	7-6

Configuring the real-time trend window	7-6
---	------------

Printing real-time data	7-8
Printing a continuous ECG strip	7-8
Printing parameter limits or waveforms for all in-unit patient beds	7-9
Stopping a print job	7-10
Stop printing to a laser printer	7-10
Stop printing to a local digital writer	7-10

Monitored parameters	7-11
Adjusting parameter control settings	7-11

ECG	7-11
ECG control settings	7-11
Monitoring pacemaker patients	7-13
Multi-vector pace detection	7-15
Pace help	7-15
Lead analysis	7-16
Multi-Lead analysis	7-16
Single-Lead analysis	7-16
Single-Lead ECG telemetry data	7-17
Arrhythmia	7-17
No arrhythmia detection with 7015 software level patient monitors ..	7-18
Full arrhythmia conditions	7-19
Lethal arrhythmia conditions	7-21
AFIB identification	7-21
Alarms	7-22
ST analysis	7-22
ST deviation alarm	7-23
Adjusting ST limits	7-23

SpO2	7-24
Introduction	7-24

	SpO2 in the multi-patient viewer	7-24
	SpO2 control settings	7-24
	SpO2 probe safety	7-25
	Infants and pulse oximetry	7-26
	Signal and data validity.	7-27
	Signal strength indicator	7-27
	Error messages	7-27
	Pressures	7-28
	Non-invasive blood pressure control settings	7-28
	NBP monitoring with telemetry	7-29
	Patient preparation	7-29
	Microphone placement	7-30
	Placement in the microphone pad.	7-31
	Placement in the blood pressure cuff	7-31
	Safety considerations	7-32
	Setting the measurement interval	7-32
	Setting test parameters	7-33
	Setting limits	7-34
	Software and hardware versions	7-34
8	Viewing stored patient data	8-1
	Stored data	8-2
	Time focus data	8-2
	Events directory.	8-3
	Viewing the Events directory	8-3
	Printing the Events directory	8-4
	Counting how many events occurred	8-4
	Identifying the most recent occurring event	8-4
	Deleting a stored event or data sample	8-5
	Viewing or printing an Event strip	8-5
	Full disclosure data.	8-6
	Full disclosure strip.	8-7
	Viewing or printing a full disclosure strip	8-7
	Full disclosure page	8-9
	Viewing or printing a full disclosure page	8-9
	Graphic trends data.	8-10
	Viewing graphic trends	8-11
	Printing graphic trends data	8-13
	Vital signs data	8-14
	Viewing vital signs data	8-14
	Printing vital signs data	8-16
	Measuring ECG waveform intervals and amplitude.	8-16
	Viewing or printing a waveform from the Calipers window	8-16
	Reports	8-18

Patient discharge summary report	8-18
Transmitter battery status report	8-18

9 Printing 9-1

Print devices	9-2
-------------------------	-----

Print output	9-2
------------------------	-----

Telemetry bed parameter data	9-2
--	-----

Graph location	9-2
--------------------------	-----

Printing real-time data	9-3
-----------------------------------	-----

Printing stored patient data	9-3
--	-----

Initiating a manual graph	9-3
-------------------------------------	-----

Transmitter initiated graphs (manual graphs)	9-4
--	-----

Automatic alarm graphs	9-4
----------------------------------	-----

Graph messages	9-4
--------------------------	-----

Graph all patients	9-5
------------------------------	-----

Initiating a graph all patients request	9-5
---	-----

Stopping a print job	9-6
--------------------------------	-----

Stop printing to a laser printer	9-6
--	-----

Stop printing to a local digital writer	9-6
---	-----

Adjusting print control settings	9-6
--	-----

Enable transmitter graph	9-7
------------------------------------	-----

Alarm graphs enabled/disabled	9-8
---	-----

Graph paper out indicator	9-8
-------------------------------------	-----

A Abbreviations and symbols A-1

Abbreviations	A-2
-------------------------	-----

Symbols	A-7
-------------------	-----

B Customized defaults worksheet B-1

Alarms Off selection	B-2
--------------------------------	-----

Telemetry Unit Defaults	B-2
-----------------------------------	-----

Telemetry parameter limits and alarm levels	B-3
---	-----

C	Maintenance	C-1
	Biocompatibility	C-2
	Supplies	C-2
	Inspection	C-2
	Disposal	C-3
	Cleaning	C-3
	Results of improper cleaning	C-4
	Cleaning products to avoid	C-5
	Transmitter/device cleaning	C-5
	Cleaning/disinfecting	C-5
	Storage	C-6
	ECG cable/leadwire cleaning	C-6
	Results of improper cleaning	C-6
	Cleaning/disinfecting	C-6
	Sterilizing	C-7
	Storage	C-7
D	Troubleshooting	D-1
	ECG	D-2
	Arrhythmia troubleshooting	D-2
	Problem: Inaccurate heart rate and/or false asystole	D-2
	Problem: False ventricular calls	D-2
	Problem: ARR Suspend	D-3
	Pacemaker troubleshooting	D-3
	Interface connector ports	D-4
	Problem: Inaccurate pacemaker detection	D-4
	Notes	D-4
	ST troubleshooting	D-5
	Problem: ST numerics changed to Xs	D-5
	SpO2 messages	D-5
	NBP	D-6
	Troubleshooting	D-6
	NBP status messages	D-7
	Messages	D-7
	Alarm messages	D-7
	Graph messages	D-9
	Transmitter-related messages	D-10
	System status messages	D-10
	Patient status messages	D-10