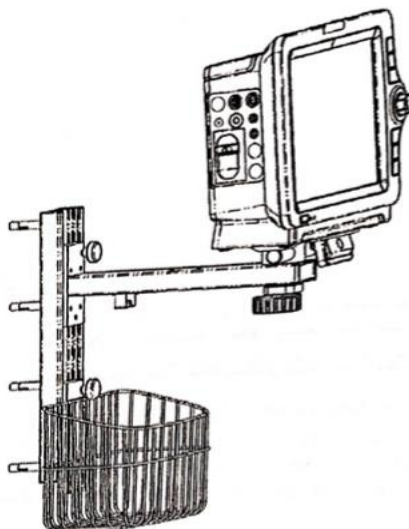




BASE DE PARED PARA MONITOR PM9000



INVENTARIO TÉCNICO

Nombre: BASE DE PARED PARA MONITOR

Modelo: PM9000

Marca: MINDRAY

Referencia: 0010-30-42951

Cantidad	Rack	Columna	Tramo
14	C	1	2

Packing list:

Order Number: 0010-20-42951
Product Number: 0010-20-42951
Product Description:
Customer Order:
(Configuration)

Product No: _____

PM-9000

Item	Part Number	Customer Number	Description	Unit	Qty
1	0010-20-42686 ✓		Transition plate(9000)	EA	1
2	0010-20-42923 ✓		Instructions of Wall Bracket Mounting	EA	1
3	0010-20-42851 ✓		General tray kit	EA	1
4	0010-20-42761 ✓		Sundries basket	EA	1
5	0010-20-42766 ✓		Mounting plate of the basket	EA	1
6	0010-20-42769 ✓		Slider	EA	1
7	0010-20-42828 ✓		Decoration strip	EA	1
8	0010-20-42929-52 ✓		Guide rail	EA	1
9	0010-20-42983 ✓		Lock knob	EA	1
10	0010-20-42984 ✓		Fixed pin	EA	2
11	0010-20-42852 ✓		Base kit	EA	1
12	W04-000206 ✓		Countersunk head screw M3x8	EA	2
13	W04-001061 ✓		Hexagon socket set screw M3x10	EA	2
14	W04-001168 ✓		Flat expansion screw M3x60	EA	4
15	W04-001152 ✓		Cross pan head screw M4x12	EA	4
16	0000-10-10662 ✓		48 Inner hexagon wrench	EA	1

Scanned with CamScanner

Manual de instalación:

上墙支架使用说明书

Wall-Mount Bracket

Instructions for Use

mindray

Scanned with CamScanner

Statement


SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD. (hereinafter called Mindray) owns the intellectual property rights to this product and this manual. Disclosure of the information in this manual in any manner whatsoever without the written permission of Mindray is strictly forbidden.

This manual provides the instructions necessary to operate the product in accordance with its function and intended use. Observance of this manual is a prerequisite for proper performance and correct operation, and ensures patient and operator safety.

Mindray is responsible for safety, reliability and performance of this product only in the condition that:

- This product is operated under strict observance of this manual.
- This product is not damaged by human factors. Human factors refer to unintentional falling, intentional damaging, etc.

In the event that it becomes necessary to return a unit to Mindray, please contact the Mindray Service Department and obtain a Mindray Customer Service Authorization Number. The Mindray Customer Service Authorization Number must appear on the outside of the shipping container. Return shipments will not be accepted if the Mindray Customer Service Authorization Number is not clearly visible. Please provide the model number, serial number, and a brief description of the reason for return. The customer is responsible for freight charges when this product is shipped to Mindray for service (including any relevant customs fees or other freight related charges).

mindray,  and **MINDRAY** are the registered trademarks or trademarks owned by Mindray in China.

© 2006-2011 Shenzhen Mindray Bio-Medical Electronics Co., Ltd. All rights reserved.

Safety Information

The safety statements presented in this chapter refer to the basic safety information that the operator of wall-mount bracket shall pay attention to and abide by. There are additional safety statements in other sections that are the same as, similar to, or specific to the operations.

- **Danger:** Indicates an imminent hazard situation that, if not avoided, will result in death or serious injury.
- **Warning:** Indicates a potential hazard or unsafe practice that, if not avoided, could result in death or serious injury.
- **Caution:** Indicates a potential hazard or unsafe practice that, if not avoided, could result in minor personal injury or product/property damage.
- **Note:** Provides application tips or other useful information to ensure that you get the most from your product.

There are no dangers that refer to the product in general.

Warnings:

- Do not install the wall-mount bracket above the patient.
- The load borne by the wall-mount bracket shall not exceed its nominal working load (maximum supporting load).
- The wall on which the bracket is mounted must be solid

Caution:

- Use the standard parts and components (such as screws and nuts) accompanying the wall-mount bracket for assembly. Or use the specifications specified in these instructions.

Notes:

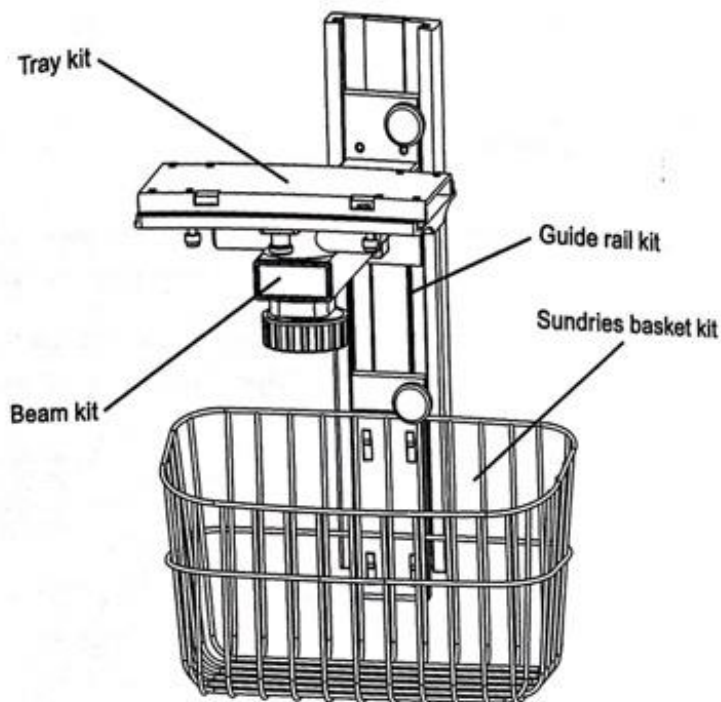
- Keep this manual close to the wall-mount bracket so that it can be obtained conveniently when necessary.
- Install the bracket at the location easy for operation and maintenance.
- The instructions to the product are based on the maximum configurations and functions, some of which may not apply to your wall-mount bracket.
- The patient monitor adopted in these instructions can be different from that in the actual situation. This, however, does not impact the application of the wall-mount bracket.

Install the Wall-Mount Bracket

This product is intended for supporting and fixing the 5000, 6000, 7000, 8000, 9000, VS-800, Beneview, IMEC, and IPM series patient monitors produced by Mindray. Its users should have some knowledge about mechanical installation. Be sure to understand all the precautions listed in the previous sections before using the wall-mount bracket.

Components of the Wall-Mount Bracket

The wall-mount bracket is composed of: Tray kit, Beam kit, Guide rail kit, Sundries basket kit. For details about the parts of the wall mount bracket for various models of patient monitors, see List of Wall Mount Bracket Parts in Appendix A below.



Parts List

See Appendix.

Assembly Tools

The assembly tools include: Screwdriver, Inner hexagon wrench, Percussion drill, Monkey wrench.

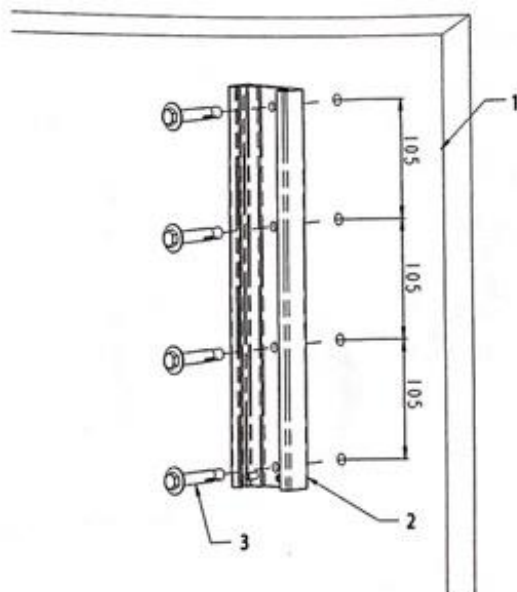
Install the Wall-Mount Bracket

Fix the Guide Rail

1. Determine the locations of the holes to install the guide rail on the wall based on the height to fix the patient monitor. Drill four $\Phi 10$ mm holes vertically on the wall with hole interval of 105 mm.

2. Align the guide rail with the holes on the wall and screw it down with four M8X60 flat expansion screws.

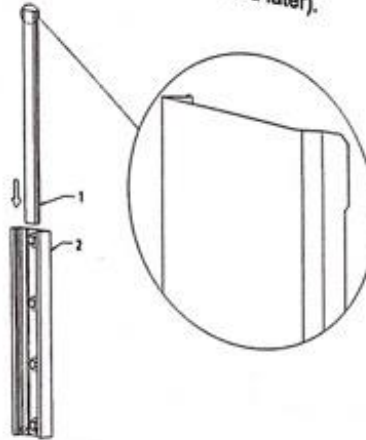
1-Wall, 2-Guide rail,
3-Expansion screw (M8X60)



Install the Wall-Mount Bracket

- 3.** Insert the decoration strip into the dovetail groove of the guide rail (Note: The convex ends on both sides of the decoration strip are inserted later).

1-Decoration strip of the guide rail,
2-Guide rail kit



- 4.** Install the fixed pins inside the screwed holes at the lower part of the guide rail.

1-Guide rail, 2-Fixed pin

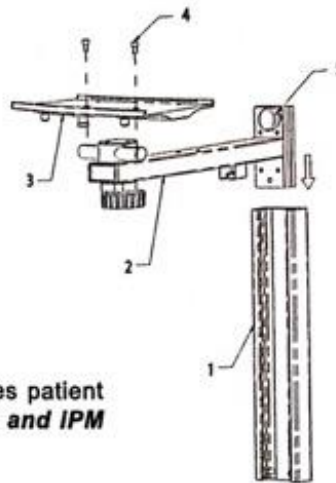


Install the Wall-Mount Bracket

Assemble the Wall Mount Bracket

1. Fix the tray kit onto the beam kit with two M5X10 hexagon socket set screws. Let the beam kit slide into the runner. Then screw down the lock knob clockwise.

1-Guide rail, 2-Beam kit,
3-Tray kit,
4-Hexagon socket set screw (M5X10),
5-Lock knob

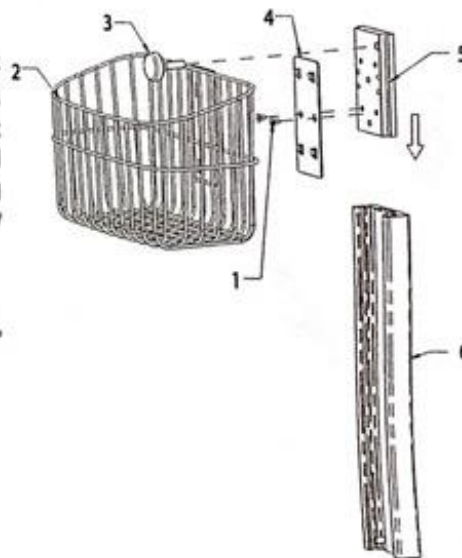


Note:

For the installation of IMEC and IPM series patient monitors, please refer to *Install the IMEC and IPM Series Patient Monitors*.

2. Fix the mounting plate of the basket onto the slider with two M4X8 counter sunk head screws. Let the slider slide into the runner and hang the basket onto the mounting plate of the basket. Then screw down the lock knob clockwise.

1-Countersunk head screw (M4X8),
2-Sundries basket, 3-Lock knob,
4-Mounting plate of the basket,
5-Slider, 6-Guide rail

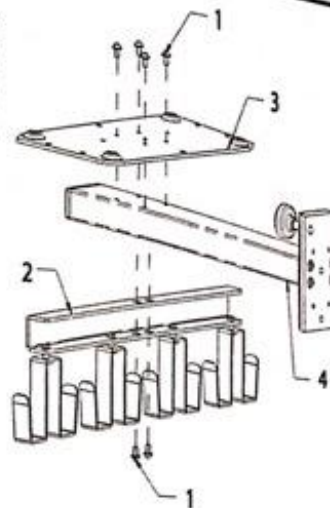


Install the Patient Monitor onto the Wall-Mount Bracket

Install the 6000 Series Patient Monitors

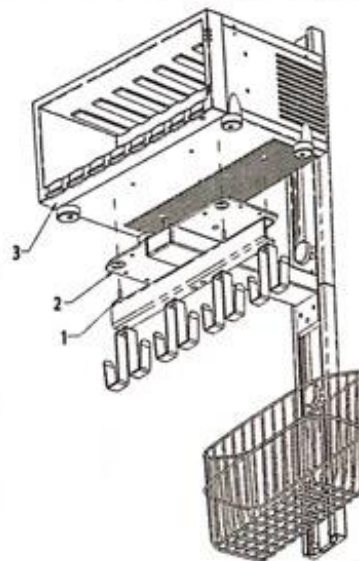
1. Fix the transition plate of the main unit onto the upper plane of the wall mount bracket of the main unit with four M4X10 screws and fasten the hook kit beneath the bracket with two M4X10 screws.

1-Screw (M4X10), 2-Hook kit,
3-Transition plate of the main unit,
4-Wall mount bracket of the main unit



2. Let the wall mount bracket of the main unit slide into the runner and then fasten the lock knob. Fix the main unit onto the transition plate of the main unit with four M4X12 screws.

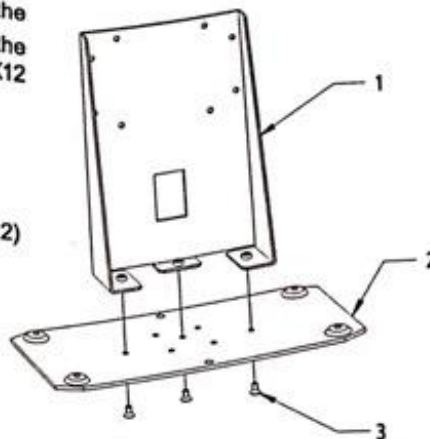
1-Screw (M4X12),
2-Transition plate of the main unit,
3-Main unit



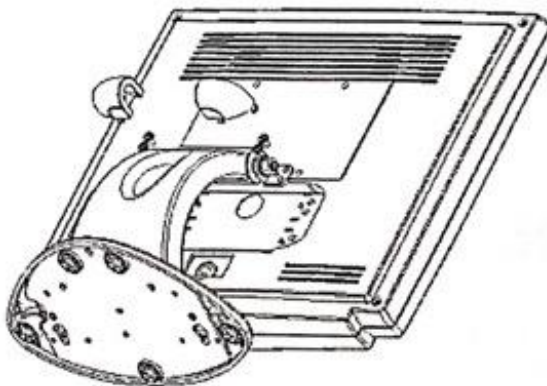
Install the Patient Monitor onto the Wall-Mount Bracket

3. Assemble the mounting plate of the display and the transition plate of the main unit together with three M4X12 countersunk head screws.

1-Mounting plate of the display,
2-Transition plate of the main unit,
3-Countersunk head screw (M4X12)



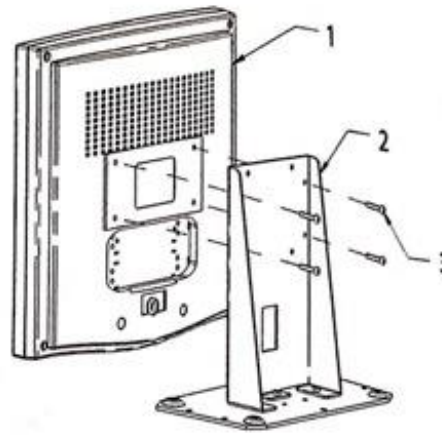
4. Dismantle the base of the display.



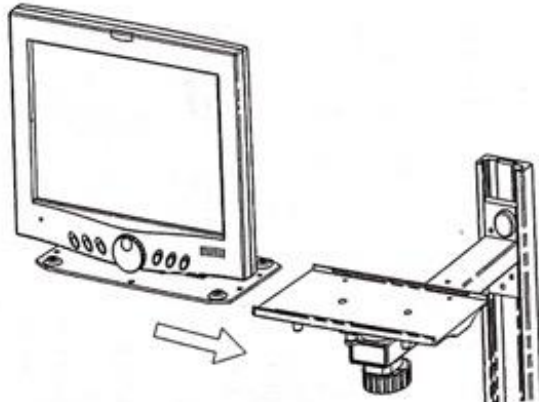
Install the Patient Monitor onto the Wall-Mount Bracket

5. Fix the display onto the mounting plate of the display with four M4X20 screws.

1-Display,
2-Mounting plate of the display,
3-Screw (M4X20)

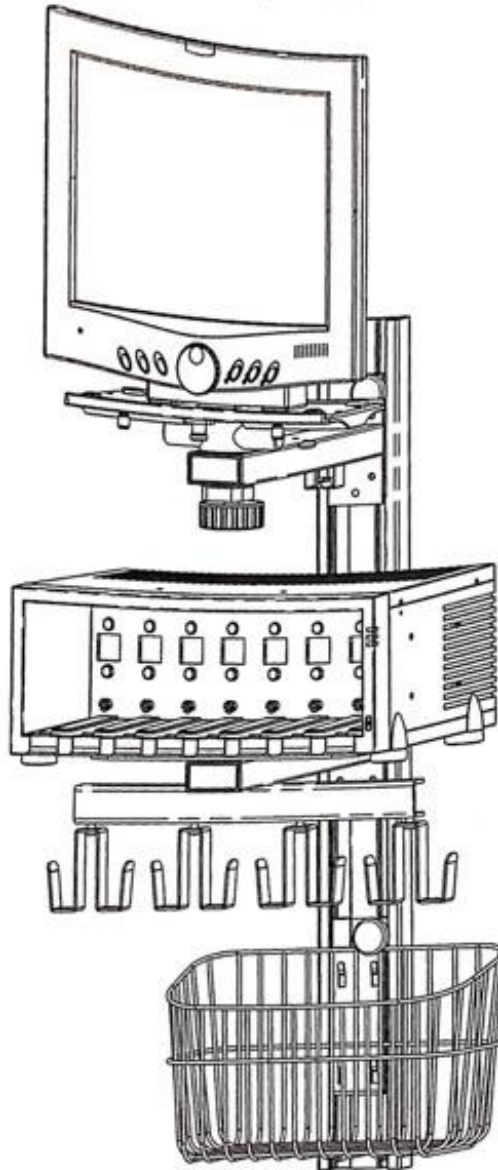


6. Press down the spring pin on the tray to let the mounting plate of the display slide into the tray. Then bounce the spring pin to make it enter the positioning hole on the transition plate of the main unit and fasten the plastic screws on the tray (see "Adjust the Wall Mount Bracket").



Install the Patient Monitor onto the Wall-Mount Bracket

7. Till now, the patient monitor is fully installed onto the bracket.



Install the Patient Monitor onto the Wall-Mount Bracket

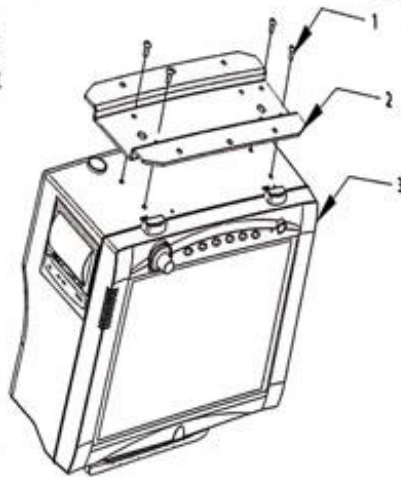
Install the 5000, 7000, 8000, and 9000 Series Patient Monitors

Warning:

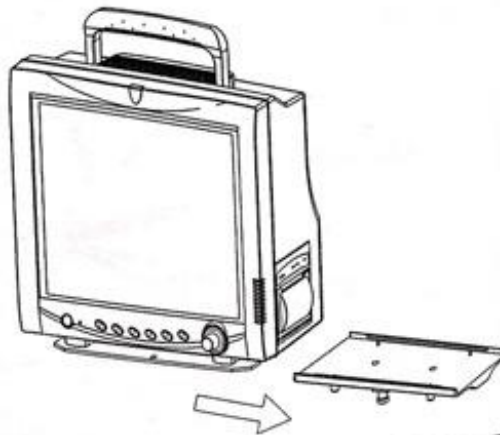
- Use M4X12 screws to fix the independent AGM, 5000, 8000, and 9000 series patient monitors onto the transition plates and M4X16 screws in the case of 7000 series patient monitors.

1. Fix the transition plate onto the bottom surface of the main unit with four screws.

1-Screw,
2-Transition plate, 3-Main unit

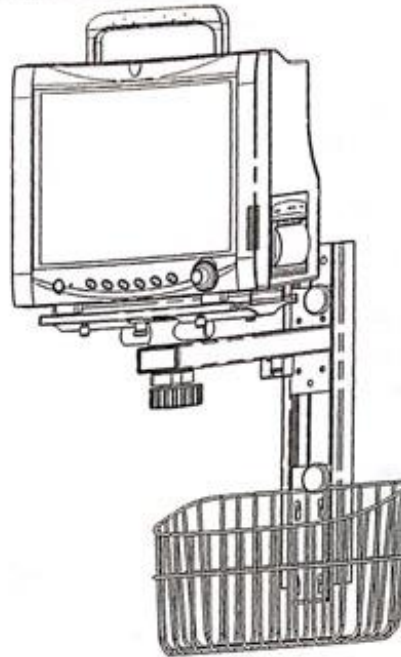


2. Press down the spring pin on the tray to let the main unit slide into the tray. Then bounce the spring pin to make it enter the positioning hole on the transition plate and fasten the plastic screws on the tray (see "Adjust the Wall Mount Bracket").



Install the Patient Monitor onto the Wall-Mount Bracket

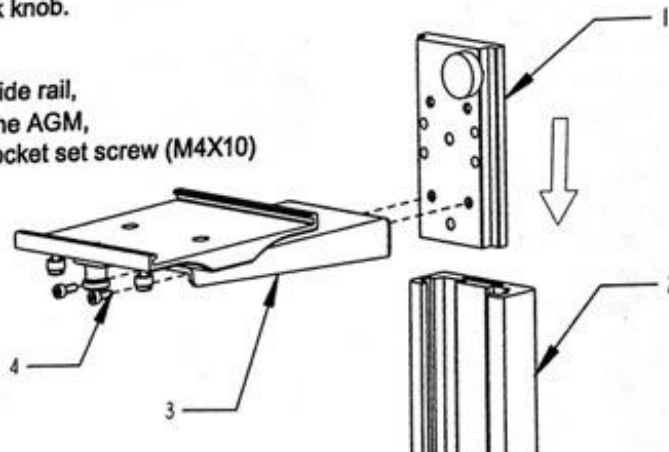
3. Till now, the patient monitor is fully installed onto the bracket.



Install the Independent Anesthetic Gas Module (AGM)

1. Fix the tray kit of the AGM onto the slider with two M4X10 hexagon socket set screws. Let the slider slide into the guide rail and then fasten the lock knob.

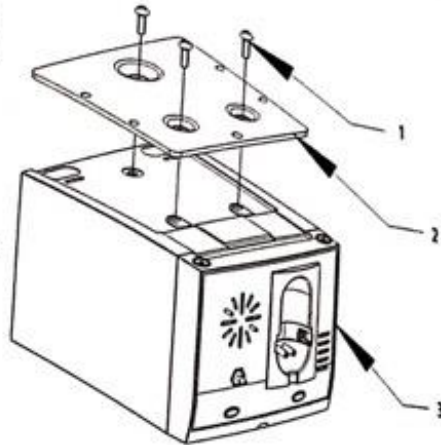
1-Slider, 2-Guide rail,
3- Tray kit of the AGM,
4- Hexagon socket set screw (M4X10)



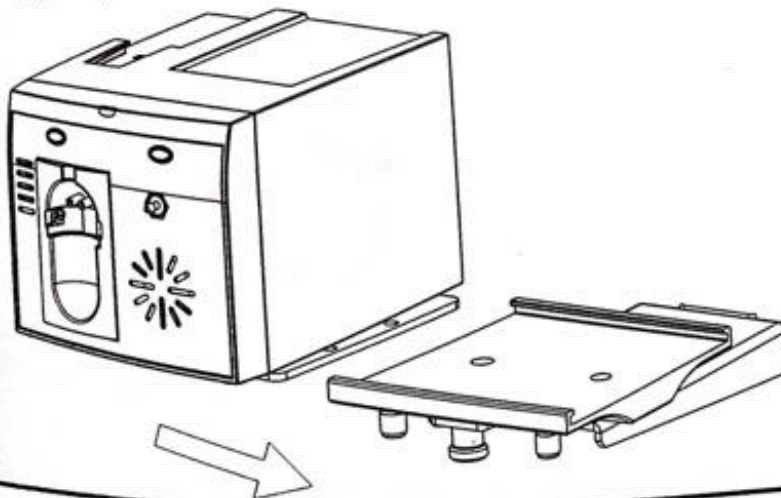
Install the Patient Monitor onto the Wall-Mount Bracket

2. Fix the transition plate of the AGM onto the bottom surface of the module with three M4X12 screws.

- 1- Screw (M4X12),
2- Transition plate of the AGM,
3- Anesthetic gas module (AGM)



3. Press down the spring pin on the tray to let the AGM slide into the tray. Then bounce the spring pin to make it enter the positioning hole on the transition plate and fasten the plastic screws on the tray (see "Adjust the Wall Mount Bracket").

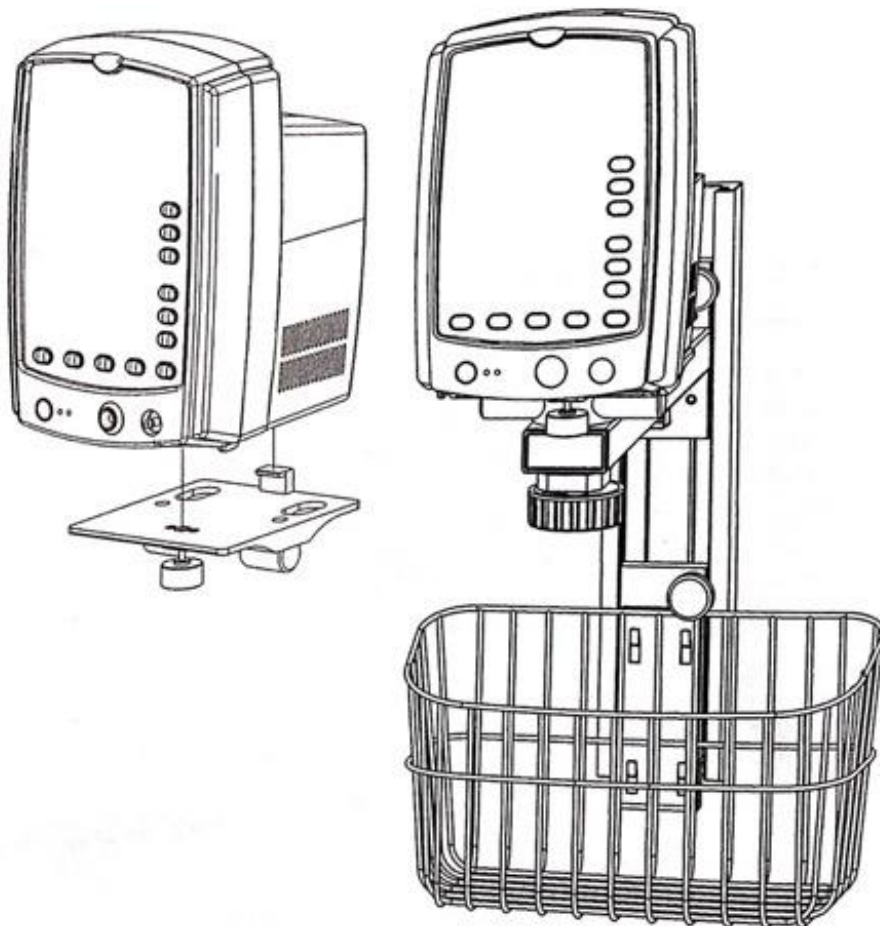


Install the Patient Monitor onto the Wall-Mount Bracket

Install the VS-800 Series Patient Monitors

Align the square hole at the back of the main unit with the fixation hook of the tray kit and push to the end to ensure that the two washers of the main unit fall into the holes of the tray. Lock the main unit with the knob beneath the tray.

Then, the patient monitor is fully installed onto the bracket.



Install the Patient Monitor onto the Wall-Mount Bracket

Install the Beneview Series Patient Monitors

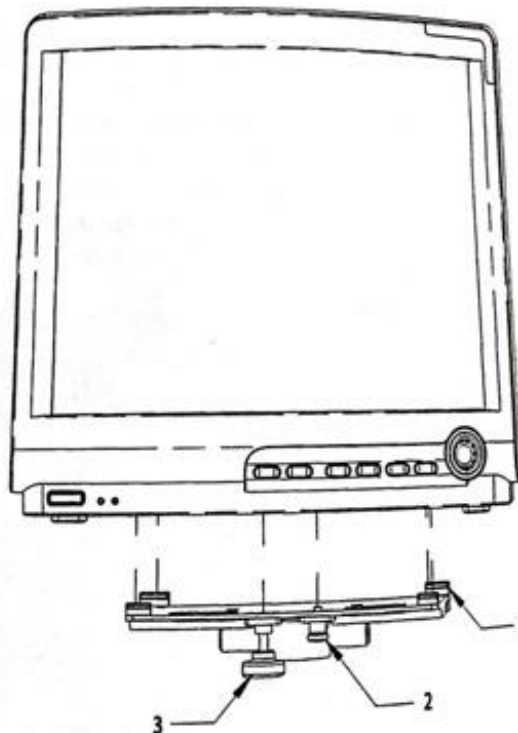
Warning:

- In case that the Beneview series patient monitor is externally connected to displays, use the screws accompanying the display (screws connected to base) or M4X8 pan head screws to install the display.

Install the Main Unit

Align the square holes at the back and bottom of the main unit with the fixation hooks of the tray kit and push to the end to ensure that the spring pin bounces into the positioning hole at the bottom of the main unit. Then lock the main unit with the lock screws beneath the tray.

1-Fixation hook, 2-Spring pin, 3-Lock screw

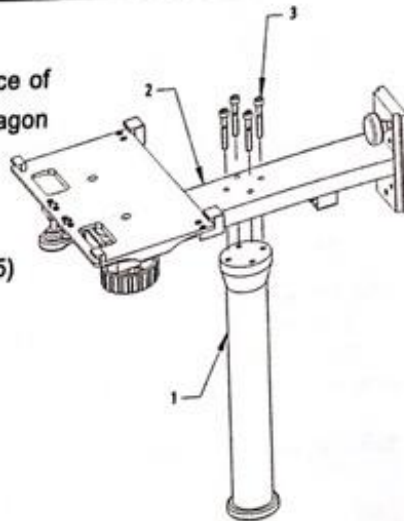


Install the Patient Monitor onto the Wall-Mount Bracket

Install the Module Rack

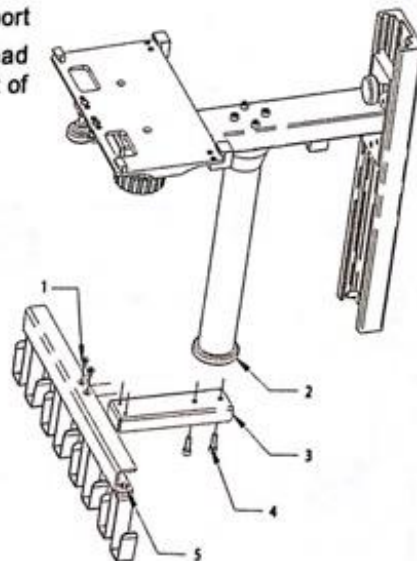
1. Fix the pole onto the bottom surface of the beam kit with four M5X35 hexagon socket set screws.

1-Pole, 2-Beam kit,
3-Hexagon socket set screw (M5X35)

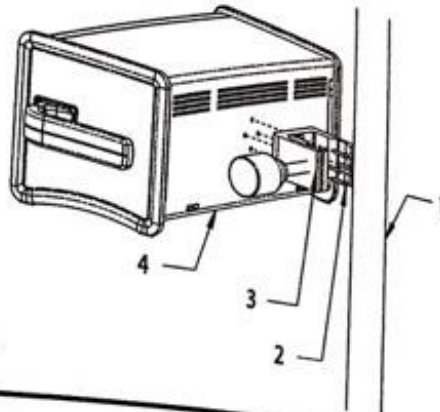


2. Fix the leadwire hook kit onto the support bar with two M4X8 countersunk head screws. Then fix it onto the lower part of the pole with two M5X16 screws.

1-Countersunk head screw (M4X8),
2-Pole, 3-Support bar,
4-Hexagon socket set screw (M5X16),
5-Leadwire hook kit



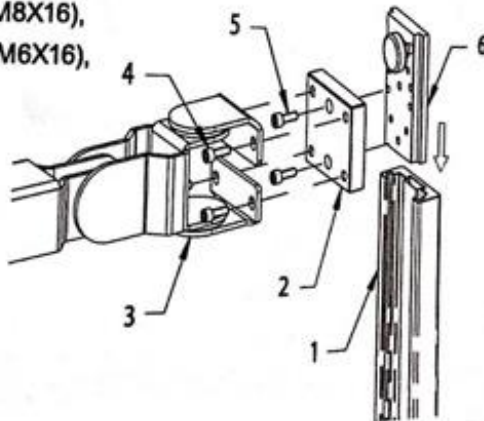
3. Fix the lock hook onto the back of the module rack with four M3X12 screws and spring washers. Then lock the lock hook onto the pole.
- 1-Pole, 2-Screw (M3X12),
3-Lock hook kit, 4-Module rack



Install the Keyboard Bracket

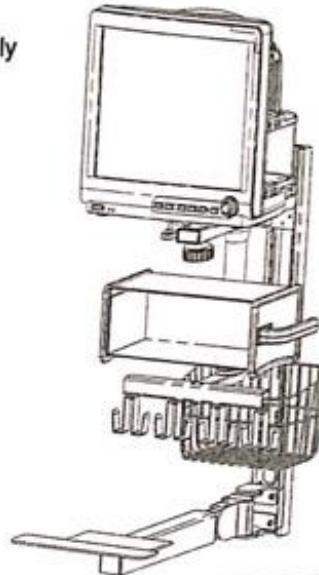
Use M6X16 hexagon socket set screws to fix the switching block onto the slider. Then use M8X16 hexagon socket set screws to fix the keyboard bracket onto the switching block. Let the slider slide into the runner of the guide rail. Then fasten the lock knob.

- 1-Guide rail, 2-Switching block, 3-Keyboard bracket,
4-Hexagon socket set screw (M8X16),
5- Hexagon socket set screw (M6X16),
6-Slider



Install the Patient Monitor onto the Wall-Mount Bracket

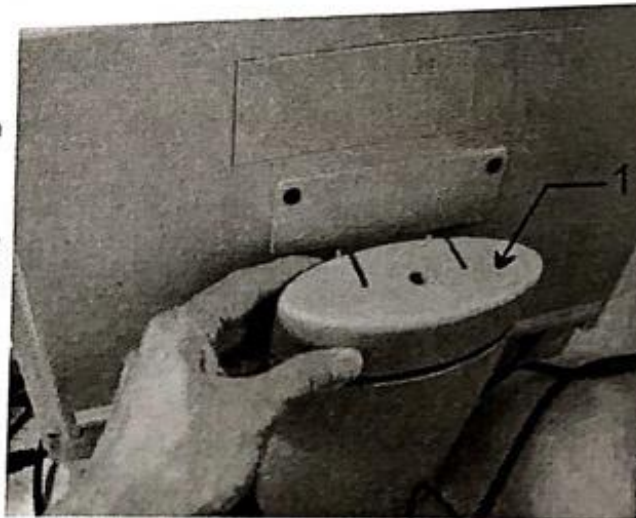
Till now, the patient monitor is fully installed onto the bracket.



Install the Auxiliary Display

1. Unscrew the screws in the central holes on the decoration cover at the back of the auxiliary display to dismantle the cover.

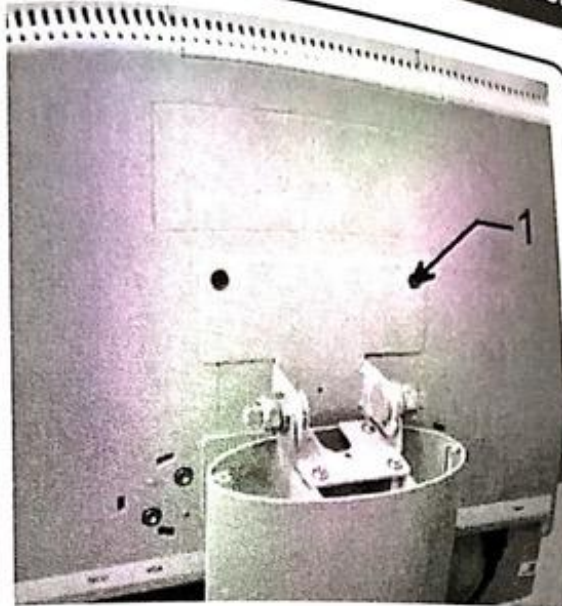
1-Decoration cover



Install the Patient Monitor onto the Wall-Mount Bracket

2. Unscrew the four base screws to dismantle the base of the auxiliary display.

1-Screw

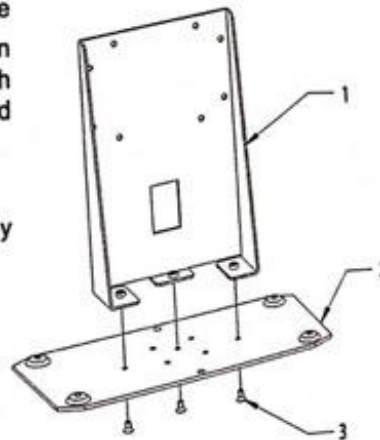


3. Assemble the mounting plate of the auxiliary display and the transition plate of the main unit together with three M4X12 countersunk head screws.

1-Mounting plate of the auxiliary display,

2-Transition plate of the main unit,

3-Countersunk head screw (M4X12)



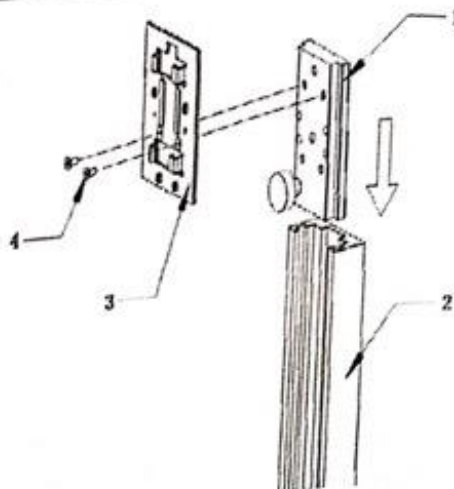
4. Refer to the 6000 series patient monitor installation for other operations.

Install the Patient Monitor onto the Wall-Mount Bracket

Install Clinical Information System (CIS) and Remote Driver

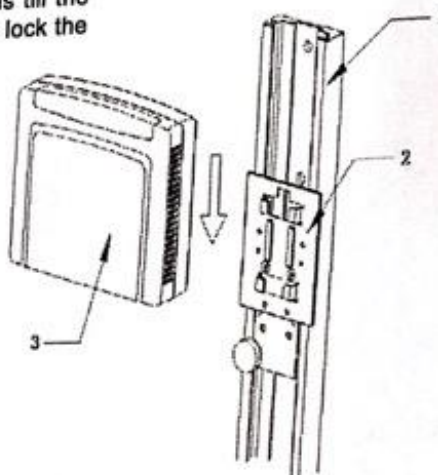
1. Fix the mounting plate on the slider with M4X8 countersunk head screws. Slide the slider in the guide rail and tighten the lock knob.

1-slider, 2-guide rail,
3-mounting plate,
4-countersunk head screw (M4X8)



2. Align the CIS (or the remote driver) with the mounting plate, push it downwards till the snap closes on the CIS pop out to lock the limit holes on the mounting plate.

1-guide rail,
2-mounting plate,
3-CIS

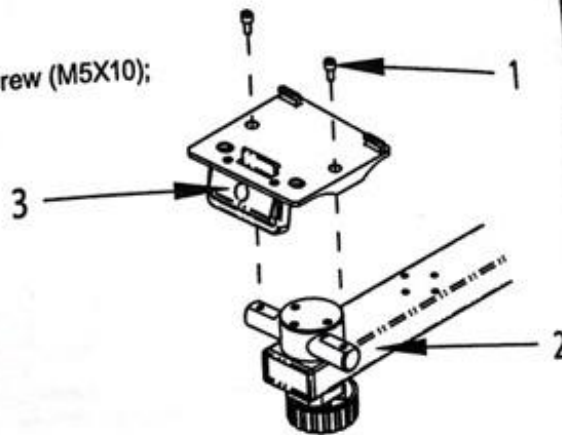


Install the Patient Monitor onto the Wall-Mount Bracket

Install the iMEC and iPM Series Patient Monitors

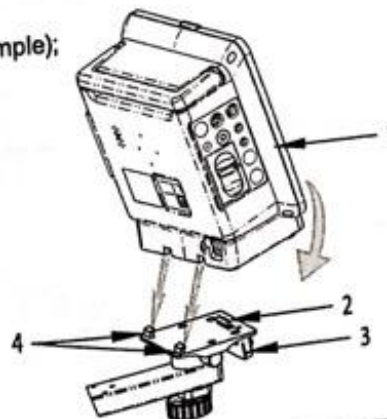
1. Fix the tray kit onto the beam kit with two M5X10 hexagon socket set screws as shown below:

- 1-Hexagon socket set screw (M5X10);
- 2-Beam kit;
- 3-Tray kit



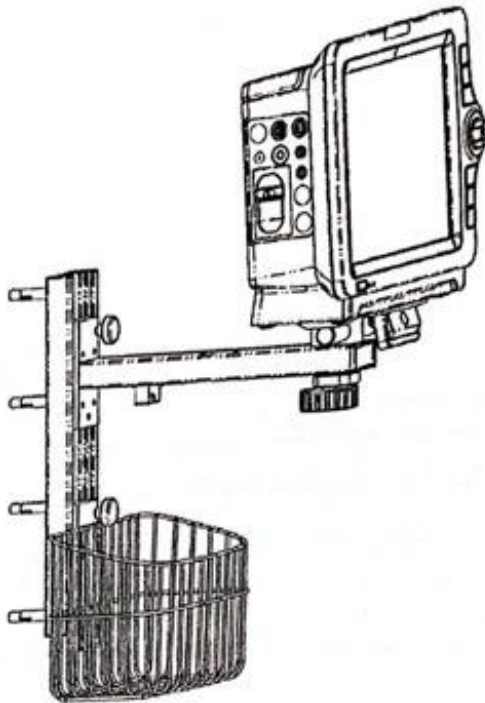
2. Tilt the main unit slightly. Align the square holes at the bottom of the main unit with the fixing blocks, and place the main unit onto the tray kit to ensure that the fixing blocks fall into two square holes of the main unit. Press the main unit down to lock the main unit, as shown below.

- 1-Main unit (taking iMEC series as example);
- 2-Latch;
- 3-Tray kit;
- 4-Fixing block



Install the Patient Monitor onto the Wall-Mount Bracket

- 3.** Till now, the patient monitor is fully installed onto the bracket.

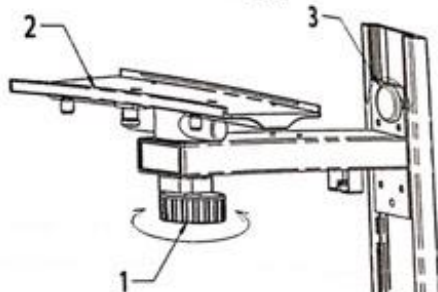


Adjust the Wall Mount Bracket

1. Adjust the elevation angle. Rotate the handwheel and the tray kit can rotate within the range of $-20^{\circ} \sim +10^{\circ}$.

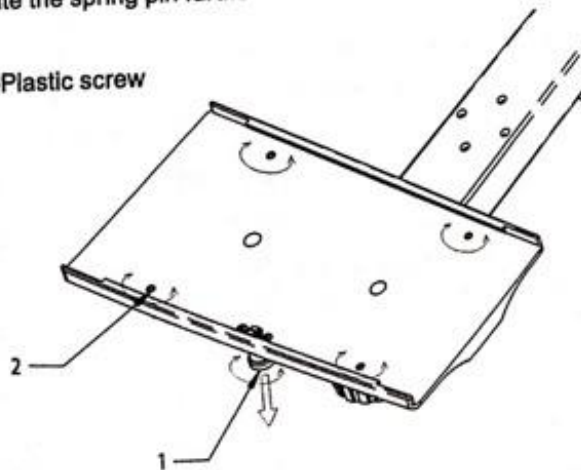
2. Lock the bracket. After the slider slides into the guide rail, rotate the lock knob clockwise and anticlockwise to fix and loosen the slider respectively.

1-Handwheel, 2-Tray kit,
3-Lock knob



3. Adjust the spring pin. Pull down the spring pin and rotate it to pressed state. Then rotate the spring pin further to make it bounce automatically.

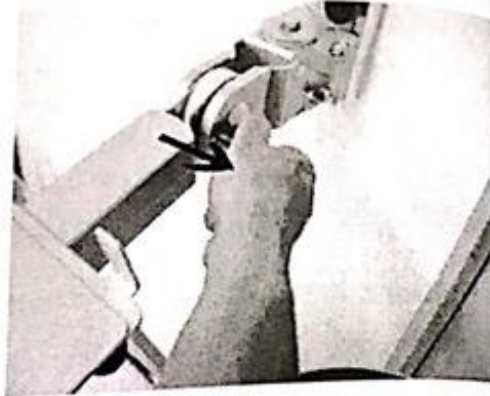
1-Spring pin, 2-Plastic screw



Adjust the Wall Mount Bracket

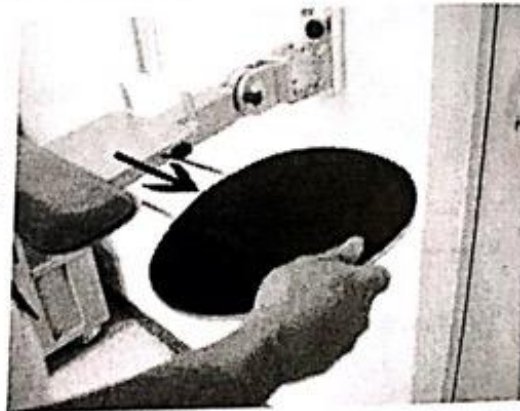
4. a):

Adjust the keyboard bracket. Pull out the spring pin and the keyboard bracket can turn vertically.



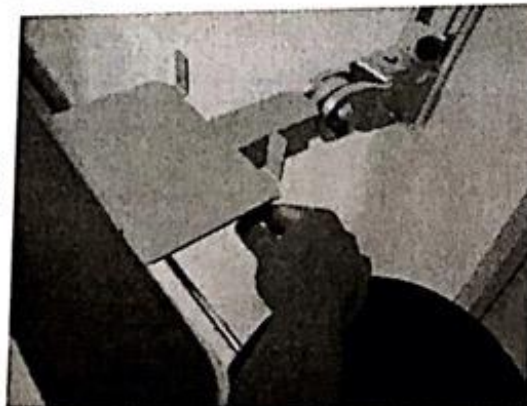
4. b):

The mouse tray can be pulled in and out to facilitate position adjustment.



4. c):

Unscrew the nut beneath the keyboard tray to adjust the width of keyboard try.



Cleaning/Disinfection

CAUTION:

- Remove the patient monitor and its accessories before cleaning and disinfection.
- Do not use abrasive materials (such as steel wool and silvery polishing agent) or any strong solvents (such as acetone).
- Do not immerse or soak the bracket or wet its surface.
- We recommend that the bracket be disinfected only when necessary as determined by your hospital's policy, to avoid damage to the bracket.

Cleaning

1. Clean the bracket and the accessories with cotton, sponge, or soft cloth moistened with water.
2. After cleaning, wipe off the water with a dry cloth.

Disinfection

The recommended disinfectants include: ethanol 75%, isopropanol 70%, glutaraldehyde-type (2%) liquid disinfectants.

1. Clean the bracket and the accessories as instructed above.
2. Disinfect the bracket with cotton or soft cloth moistened with one of the recommended disinfectants.
3. After disinfection, be sure to wipe off the disinfectant left on the bracket with a soft cloth moistened with water.

Appendix A

Parts of the wall mount bracket for 5000 series patient monitors

SN	Item	Quantity	Notes
1	Guide rail	1	
2	Decoration strip	1	
3	Fixed pin	2	
4	Flat expansion screw	4	M8X60
5	Beam kit	1	
6	General tray kit	1	
7	Hexagon socket set screw	2	M5X10
8	Inner hexagon wrench	1	4#
9	Slider	1	
10	Mounting plate of the basket	1	
11	Sundries basket	1	
12	Countersunk head screw	2	M4X8
13	Lock knob	1	
14	Transition plate of the main unit	1	
15	Screw	4	M4X12

Appendix A

Parts of the wall mount bracket for 6000 series patient monitors

SN	Item	Quantity	Notes
1	Guide rail	2	
2	Decoration strip	2	
3	Fixed pin	2	
4	Flat expansion screw	8	M8X60
5	Beam kit	1	
6	General tray kit	1	
7	Hexagon socket set screw	2	M5X10
8	Inner hexagon wrench	1	4#
9	Slider	1	
10	Mounting plate of the basket	1	
11	Sundries basket	1	
12	Countersunk head screw	2	M4X8
13	Lock knob	1	
14	Transition plate of the main unit	2	
15	Wall mount bracket	1	
16	Leadwire hook kit	1	
17	Screw	6	M4X10
18	Screw	4	M4X12
19	Mounting plate of the display	1	
20	Screw	4	M4X20
21	Countersunk head screw	3	M4X12

Appendix A

Parts of the wall mount bracket for 7000 series patient monitors

SN	Item	Quantity	Notes
1	Guide rail	1	
2	Decoration strip	1	
3	Fixed pin	2	
4	Flat expansion screw	4	M8X60
5	Beam kit	1	
6	8000 tray kit	1	
7	Hexagon socket set screw	2	M5X10
8	Inner hexagon wrench	1	4#
9	Slider	1	
10	Mounting plate of the basket	1	
11	Sundries basket	1	
12	Countersunk head screw	2	M4X8
13	Lock knob	1	
14	Transition plate(7000/8000)	1	
15	Screw	4	M4X16

Additional wall mount bracket parts for 7000 series patient monitors with AGM (optional)

SN	Item	Quantity	Notes
1	Guide rail	1	
2	Decoration strip	1	
3	Flat expansion screw	4	M8X60
4	Tray kit of the AGM	1	
5	Slider	1	
6	Hexagon socket set screw	2	M4X10
7	Inner hexagon wrench	1	3#
8	Lock knob	1	
9	Screw	3	M4X12

Appendix A

Parts of the wall mount bracket for 8000 series patient monitors

SN	Item	Quantity	Notes
1	Guide rail	1	
2	Decoration strip	1	
3	Fixed pin	2	
4	Flat expansion screw	4	
5	Beam kit	1	M8X60
6	8000 tray kit	1	
7	Hexagon socket set screw	2	M5X10
8	Inner hexagon wrench	1	4#
9	Slider	1	
10	Mounting plate of the basket	1	
11	Sundries basket	1	
12	Countersunk head screw	2	M4X8
13	Lock knob	1	
14	Transition plate(7000/8000)	1	
15	Screw	4	M4X12

Appendix A

Parts of the wall mount bracket for 9000 series patient monitors

SN	Item	Quantity	Notes
1	Guide rail	1	
2	Decoration strip	1	
3	Fixed pin	2	
4	Flat expansion screw	4	M8X60
5	Beam kit	1	
6	General tray kit	1	
7	Hexagon socket set screw	2	M5X10
8	Inner hexagon wrench	1	4#
9	Slider	1	
10	Mounting plate of the basket	1	
11	Sundries basket	1	
12	Countersunk head screw	2	M4X8
13	Lock knob	1	
14	Transition plate(9000)	1	
15	Screw	4	M4X12

Parts of the wall mount bracket for VS-800 series patient monitors

SN	Item	Quantity	Notes
1	Guide rail	1	
2	Decoration strip	1	
3	Fixed pin	2	
4	Flat expansion screw	4	M8X60
5	Beam kit	1	
6	VS-800tray kit	1	
7	Hexagon socket set screw	2	M5X10
8	Inner hexagon wrench	1	4#
9	Slider	1	
10	Mounting plate of the basket	1	
11	Sundries basket	1	
12	Countersunk head screw	2	M4X8
13	Lock knob	1	

Parts of the wall mount bracket for Beneview series patient monitors

Parts of the wall mount bracket for the main unit

SN	Item	Quantity	Notes
1	Guide rail	1	
2	Decoration strip	1	
3	Fixed pin	2	
4	Flat expansion screw	4	M8X60
5	Beam kit	1	
6	Beneview tray kit	1	
7	Hexagon socket set screw	2	M5X10
8	Inner hexagon wrench	1	4#
9	Slider	1	
10	Mounting plate of the basket	1	
11	Sundries basket	1	
12	Countersunk head screw	2	M4X8
13	Lock knob	1	

Appendix A

Parts of the wall mount bracket for Beneview series patient monitors

Parts of the wall mount bracket for the module rack

SN	Item	Quantity	Notes
1	Guide rail	1	
2	Decoration strip	1	
3	Flat expansion screw	4	M8X60
4	Pole	1	
5	Hexagon socket set screw	4	M5X35
6	Inner hexagon wrench	1	4#
7	Leadwire hook kit	1	
8	Support bar	1	
9	Countersunk head screw	4	M4X8
10	Hexagon socket set screw	4	M5X16
11	Lock hook	1	
12	Screw	4	M3X12
13	Spring washer	4	3

Parts of the wall mount bracket for the keyboard bracket

SN	Item	Quantity	Notes
1	Slider	1	
2	Lock knob	1	
3	Switching block	1	
4	Hexagon socket set screw	4	M8X16
5	Hexagon socket set screw	2	M6X16
6	Keyboard bracket	1	For the list of parts, see Keyboard Instructions for Use

Appendix A

ALA SUR

COL TP

Parts of the wall mount bracket for the auxiliary display

SN	Item	Quantity	Notes
1	Guide rail	1	
2	Decoration strip	1	
3	Fixed pin	2	
4	Flat expansion screw	4	
5	Beam kit	1	M8X60
6	General tray kit	1	
7	Hexagon socket set screw	2	
8	Inner hexagon wrench	1	M5X10
9	Transition plate of the main unit	1	4#
10	Mounting plate of the auxiliary display	1	
11	Countersunk head screw	3	M4X12
12	Screw	4	M4X8 (accompanying the display)

Parts of the wall mount bracket for clinical information system (CIS)

SN	Item	Quantity	Notes
1	Slider	1	
2	Lock knob	1	
3	Countersunk head screw	2	M4X8
4	Mounting plate	1	

Appendix A

Parts of the wall mount bracket for IMEC and IPM series patient monitors

SN	Item	Quantity	Notes
1	Guide rail	1	
2	Decoration strip	1	
3	Fixed pin	2	
4	Flat expansion screw	4	M8X60
5	Beam kit	1	
6	Tray kit	1	
7	Hexagon socket set screw	2	M5X10
8	Inner hexagon wrench	1	4#
9	Slider	1	
10	Mounting plate of the basket	1	
11	Sundries basket	1	
12	Countersunk head screw	2	M4X8
13	Lock knob	1	