

## Installation Guide

### Philips MP20/30/40/50 IntelliVue VHM Wall Mount Kit

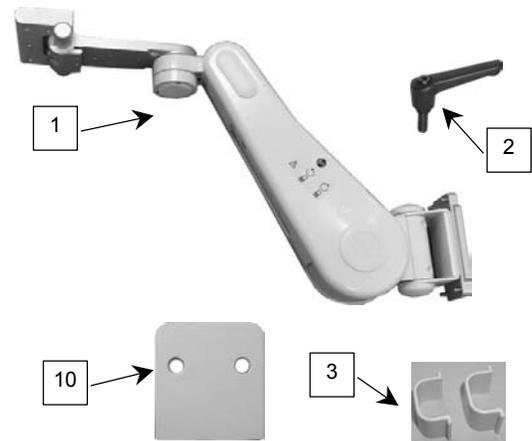
The purpose of this guide is to:

1. Describe attachment of Table Top Mount to Mounting Adapter.
2. Describe attachment of Mounting Adapter to VHM Arm.
3. Describe mounting of VHM Arm in the Wall Channel.
4. Describe mounting the monitor on the Arm.
5. Describe Operation and Adjustment of VHM Arm.

### Parts Reference

The following parts and hardware are included with this installation kit (hardware not shown):

Item #	Description	Qty
1	VHM Arm with Mounting Adapter	1
2	Locking Lever, Height Adjustment	1
3	Cable Clip, VHM Arm	2
4	M6 x 8mm FHMS	2
5	M6 x 12mm FHMS	1
6	1/8" Hex Wrench	
7	5/32" [4mm] Hex Wrench	1
8	Wall Channel Cover, 16"	1
9	1/2" Socket Wrench	1
*10	Spacer, MP20/30	1
*11	M6 x 16mm Pan Head Machine Screw (PHMS)	2



\*See "MP20/30 with non-Table Top Mount" (page 3) for use of these parts.

### Tools Required

Phillips screwdriver (not provided), 1/8" and 5/32" [4mm] hex wrenches (provided), 1/2" socket wrench (provided).

### WARNING!

The VHM Arm contains a strong spring which is used to counterbalance the weight of the mounted device. The Arm housing should never be disassembled by non-GCX personnel. Additionally, the mounted device should only be removed with the Arm in its highest vertical position, with the Height Locking Lever in the fully locked position. Failure to follow these guidelines could result in serious injury.

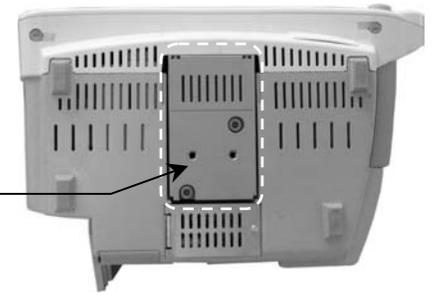
### Before mounting the Arm:

1. Note that this arm has a wide range of motion both up/down and side to side. Please consider carefully the device being mounted and the proximity of the assembly to other equipment, hospital personnel, and the patient. GCX recommends that the hospital's risk management personnel verify the appropriateness of the application prior to installation and use.
2. If assistance is needed regarding an application, please contact a GCX product specialist at (800) 228-2555.

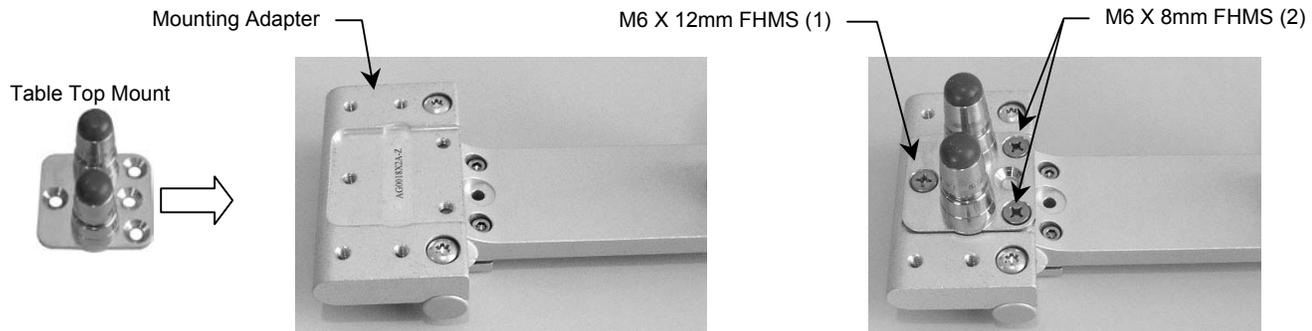
## Attaching the Philips-supplied Table Top Mount to the Mounting Adapter

**Installation Note:** Do not attach the Table Top Mount to the Arm/Mounting Adapter if you will be mounting an MP20/30 monitor with the mounting interface shown in photo (right). See "Mounting the Monitor" (page 3) for instructions specific to this type of mounting interface.

Do Not Attach Table Top Mount if MP20/30 Monitor Has This Mounting Interface

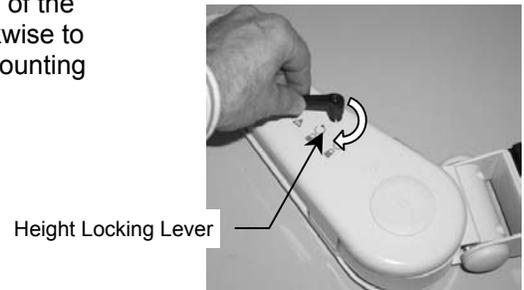


1. Fasten Philips-supplied Table Top Mount to Mounting Adapter with one (1) M6 x 12mm FHMS and two (2) M6 x 8mm FHMS (see below).

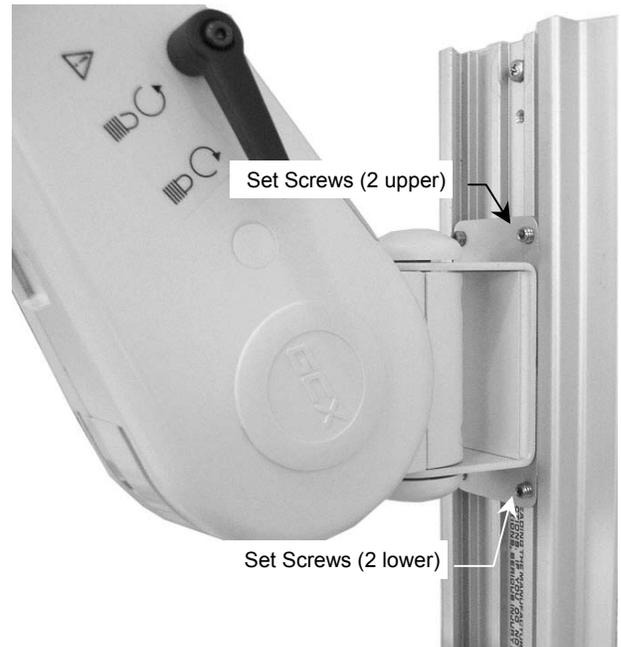
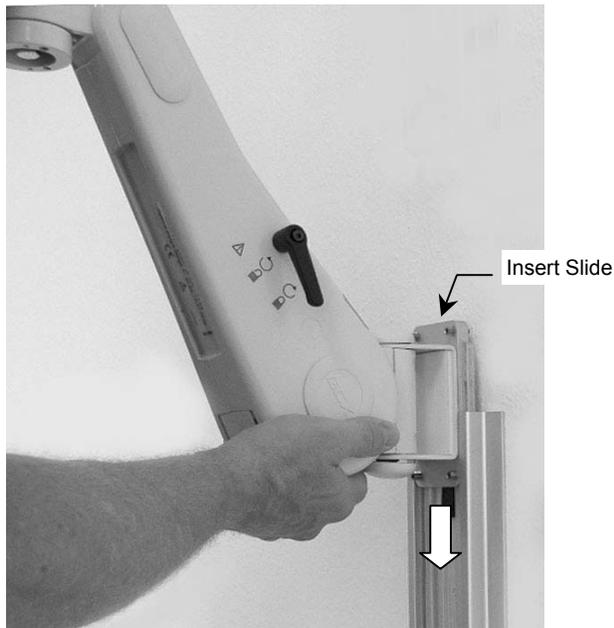


## Mounting VHM Arm in Wall Channel

1. Thread the Height Locking Lever into the mounting hole in the right side of the Arm. The Lever operates by turning clockwise to tighten or counterclockwise to loosen. Ensure that the Locking Lever is in the locked position before mounting the Arm in the channel.



2. While supporting the bottom of the Arm, guide the Slide into the top of the wall channel (below left) and move Arm to required mounting position.
3. Using the 1/8" hex wrench provided, tighten four (4) set screws in Slide to secure position of Arm (below right).

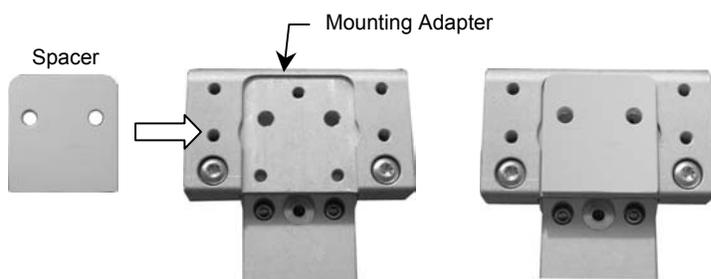


### Mounting the Monitor

1. Mount the monitor in accordance with Philips Table Top Mount instructions, or follow procedure below for *non-table top mount*. Proceed to "Counterbalance Adjustment" on page 4.

### MP20/30 with non-Table Top Mount

1. Fit Spacer into recessed area on top of Mounting Adapter (below). Ensure Spacer remains between Mounting Adapter and monitor.
2. Insert two (2) M6 x 16mm PHMS through bottom of Mounting Adapter and thread into mounting holes in bottom of monitor (right).

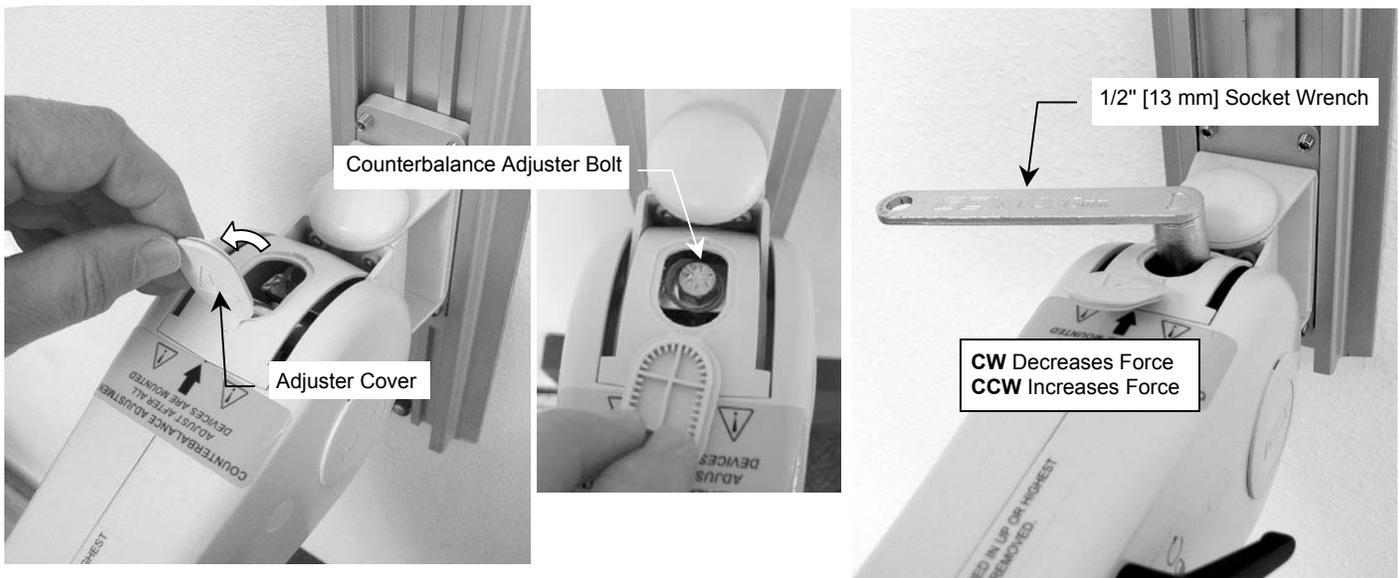


## Counterbalance Adjustment

The VHM Arm must be adjusted to counterbalance the mounted instrument throughout the Arm's vertical range of motion. When properly counterbalanced, the VHM Arm will maintain its height when the Locking Lever is disengaged. Because instrument weights vary, some adjustment is required to achieve optimal performance.

 **Use Caution while performing this procedure. Do not attempt counterbalance adjustment unless the instrument and accessories are mounted on the Arm.**

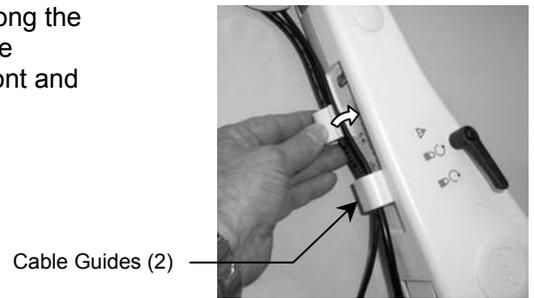
1. Grasp the Arm behind the mounted instrument(s) to prevent sudden upward motion. Carefully unlock the Arm and move it to a horizontal position that allows access to the Adjuster Cover (below left). Lock Arm in horizontal position.
2. Open the Adjuster Cover by inserting a flat blade screwdriver in the slot at the rear of the Cover and prying upward. If necessary unlock and readjust the Arm until the Counterbalance Adjuster bolt is accessible through the Adjuster Cover (below center). Lock Arm when Counterbalance Adjuster is accessible.
3. With the 1/2" [13mm] socket wrench on the Adjuster, carefully unlock the arm. Turn the Adjuster *counterclockwise* (CCW) to increase counterbalance force, or *clockwise* (CW) to decrease counterbalance force. Counterbalance is correctly adjusted when the mounted instrument can be moved up or down with minimal force and does not rise or fall after releasing the Arm. Close Adjuster Cover.



4. Check the pivot, tilt, and swivel functions for proper tension. If adjustments are required, refer to the "VHM Arm Operation & Adjustment" on pages 5 - 6.

## Cable Management

Two (2) Molded Cable Guides are provided to facilitate routing of cables along the underside of the arm. Squeeze the Cable Guide until its edges snap into the grooves in the bottom surface of the arm. Leave extra cable loose at the front and rear of the arm to prevent cable binding or damage to connectors.



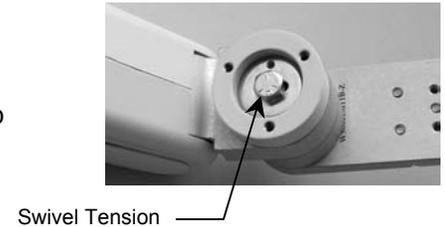
## Installing the 16" Wall Channel Cover

Install the Wall Channel Cover in accordance with the *Channel Cover Installation Guide (DU-UT-0001-20)*.

## VHM Arm Operation & Adjustment

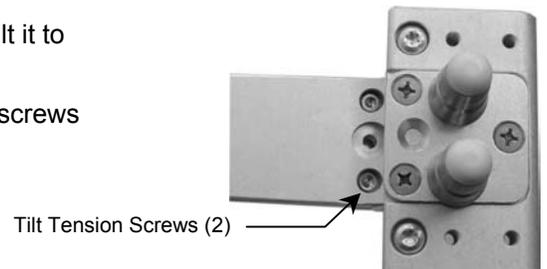
### Swiveling the Mounted Instrument and Adjusting Swivel Tension

1. To swivel the mounted instrument simply push or pull the corners of the instrument.
2. To adjust swivel tension, remove bolt cap or existing Down Post from Swivel Cup (bottom of front end of Arm). Tighten or loosen the Swivel Tension Bolt using a 1/2" [13 mm] socket wrench.



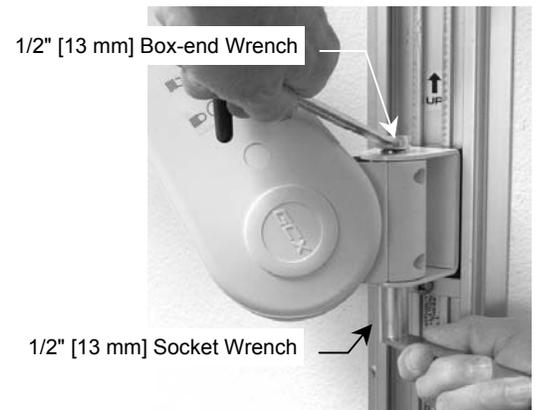
### Tilting the Mounted Instrument and Adjusting Tilt Tension

1. To tilt the instrument, grasp the top and bottom of the instrument and tilt it to the desired angle.
2. To adjust tilt tension, equally tighten or loosen the two (2) Tilt Tension screws using the 5/32" hex wrench provided.



### Pivoting the Arm and Adjusting Pivot Tension

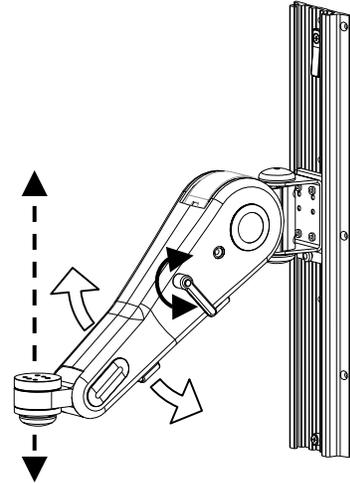
1. To pivot Arm at Channel, simply push on side of Arm.
2. To adjust pivot tension, remove top and bottom plastic bolt caps from Pivot Bolt. Using the 1/2" [13mm] socket wrench provided and a 1/2" [13mm] box or open-end wrench, tighten or loosen Pivot Bolt and Hex Nut to desired tension. Reinstall bolt caps back over each end of Pivot Bolt.



## Height Adjustment

**Caution: Do not attempt to adjust height without instrument being mounted.**

1. Loosen the Height Locking Lever by rotating it counterclockwise.
2. Grasp the mounted instrument (or handle) and push up or pull down to the desired height.
3. Tighten the Height Locking Lever to lock the Arm in the desired position.



## Positioning VHM Arm in Channel

1. Lock the Arm position using the Height Locking Lever.
2. Using the 1/8" hex wrench provided, loosen four (4) set screws in Slide.
3. Relieve the weight of the mounted instrument by lifting against the underside of the Arm, near the instrument. Simultaneously, push up or pull down the opposite end of the Arm immediately in front of the Slide.
4. Tighten four (4) set screws.



## Cleaning the Mounting Assembly

1. The mounting assembly may be cleaned with most mild, non-abrasive solutions commonly used in the hospital environment (e.g. diluted bleach, ammonia, or alcohol solutions).
2. The surface finish will be permanently damaged by strong chemicals and solvents such as acetone and trichloroethylene.
3. Do not use steel wool or other abrasive material to clean the mounting assembly.
4. Damage caused by the use of unapproved substances or processes will not be covered by warranty. We recommended that you test any cleaning solution on a small area of the arm that is not visible to verify compatibility.
5. Do not submerge or allow liquids to enter the arm. Wipe any cleaning agents off of the arm immediately, using a water-dampened cloth. Dry the arm thoroughly after cleaning.

**CAUTION:** GCX makes no claims regarding the efficacy of the listed chemicals or processes as a means for controlling infection. Consult your hospital's infection control officer or epidemiologist. To clean or sterilize mounted instruments or accessory equipment, refer to the specific instructions delivered with those products.