

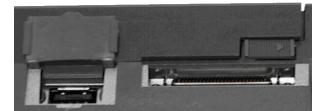
## USING THE XYBER® KEY WRIST-WORN KEYBOARD

The light-weight, wrist-worn keyboard is a fully functional keyboard designed for wearable use. The wrist-worn keyboard is used primarily with the HMD.

### Connecting the keyboard to the CPU

To connect the keyboard to the CPU:

1. Plug the wrist-worn keyboard into the USB port on the CPU or Holster.



USB port

2. Attach the wrist-worn keyboard to your wrist using the velcro wrist band.



*Refer to page “Assembling the Xyber®Key Wrist-worn Keyboard” on page 37 for instruction on using the Xyber®Key wrist band.*



### Using the keyboard's primary and secondary keys

The Xyber®Key keyboard contains 60 keys that allow you to perform all the functions of a full-size keyboard. Primary functions are denoted with white characters and secondary functions are denoted with green characters. Keypad numbers are denoted with brown characters.

To access secondary functions (green), you must first press the **Fn** (function) key. To access keypad numbers (brown), press the **Fn** key and then the **Nm Lk** (number lock) key.

If a key contains two primary functions (white), press and hold the **Shift** key to access the secondary function.

The following table identifies the various function keys on the wrist-worn keyboard.

Function Keys	Description
<b>Ctrl, Alt, Delete, Shift, Space, Enter, TAB</b>	These keys perform the same functions as the respective keys on a full-size keyboard, and are denoted with white characters.
<b>Insert, Back Space, Esc, Home, PgDn, PgUp</b>	These keys perform the same functions as the respective keys on a full-size keyboard, and are denoted with green characters. To use these keys, press the <b>Fn</b> (Function) key first.
<b>Fn</b>	<b>Fn</b> enables the secondary numbers and functions. Secondary functions are denoted with green characters and keypad numbers are denoted with brown characters. This feature is active for one key stroke.
<b>Nm Lk</b>	<b>Nm Lk</b> enables the keypad numbers (brown characters). Press the <b>Fn</b> (function) key and then the <b>Nm Lk</b> (number lock) key. The number lock remains active until you press <b>Fn, Nm Lk</b> again to release the lock.
<b>Caps</b>	<b>Caps</b> enables capital letters. Press the <b>Fn</b> (function) key and then the <b>Caps</b> (capital lock) key. This feature stays active until you press <b>Fn, Caps</b> again.
<b>Win</b>	<b>Win</b> displays the Windows start menu.
<b>Win2</b>	<b>Win2</b> is the right-click pop-up menu key, and provides cut and paste options, as well as the ability to change font styles. To use this key press the <b>Fn</b> (Function) key first.

## Navigating without a mouse

There are several keyboard shortcuts that allow you to navigate without using a mouse.

The table below identifies keyboard shortcuts supported by the Microsoft Windows Operating System and the wrist-worn keyboard.

Shortcut	Keys
Cycle through buttons on the task bar	Alt, Tab
Display Find: All Files	Win + F or Win, F, F or Fn, F3
Display Find: Computer	Ctrl + Win + F
Display the Run command	Win, R
Display the Start menu	Win
Minimize or restore all windows	Win + D
Display help	Fn, F1
Refresh the contents of a window	Fn, F5
Select all items	Ctrl + A

Look at the column labeled **Keys** in the table; if several keys are separated with a comma, press each key separately to perform the function. If several keys are separated by (+), you must press all the keys simultaneously to perform the function.



*Don't forget that drop down menus in the task bar of most software applications also provide shortcut instructions to basic commands.*



*Refer to the Microsoft Windows help files for more keyboard shortcuts.*

## BATTERY CONFIGURATIONS

For mobile use, the MA V is powered by a rechargeable battery system consisting of a primary battery attached directly to the CPU and optionally, a secondary battery attached to the Holster.

Which battery configuration you use depends on the duration of your needs. For example:

- Use the primary battery connected to the CPU as a standalone unit for up to two hours of uninterrupted operation, without changing a battery.
- Use the secondary battery connected to the Holster for a total of up to four hours of uninterrupted operation, without changing a battery.



*Before using the batteries for the first time, make sure you read “Special Battery Cautions” on page x.*

## EXTENDED OPERATION

Your MA V’s power management preferences have been preset for optimum mobile computing. Consult your operating system user guide for additional power management strategies.

There are several things you can do to extend the operating time of your batteries:

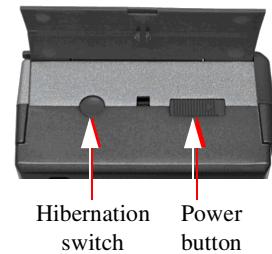
- Turn off the FPD when not in use
- Keep the FPD and HMD brightness controls at the lowest possible settings
- Utilize the power management features associated with your operating system
- Use hibernation mode on the CPU when you anticipate an extended period of non-use, but do not want to turn off the MA V.

## Using hibernation mode

Hibernation turns off the display and hard disk, saves everything to memory on your hard disk, and turns off the computer.

To enter/exit hibernation mode:

- Press the hibernation switch on the CPU to enter hibernation mode.
- Press the power button on the CPU to bring the system out of hibernation mode.



## Hot-swapping batteries

The MA V supports hot-swapping batteries in both the MA V standalone configuration and with the Holster.

To hot-swap the battery in a standalone configuration, you can either place the MA V in hibernation mode or hook up the MA V using the AC power adapter.



*Refer to “Using hibernation mode” on page 31 for more information on hibernation mode and “Assembling and charging batteries” on page 13 for information on using the AC power adapter.*

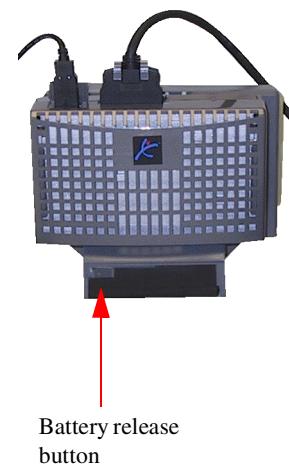
When the MA V is configured with a Holster, hot-swapping the battery does not require placing the MA V in hibernation mode or using the AC power adapter. In this configuration, the primary or secondary battery acts as a backup power supply for hot-swapping.

To hot-swap batteries:

1. Remove the battery from the Holster or CPU by pressing the battery release button.
2. Insert a fully charged battery.



*When the battery's power supply drops to 35%, you should prepare to hot-swap batteries. Always monitor your remaining power by referencing the power icon in the Windows task bar.*



Battery release button

## Assembling the MA® V for Wear

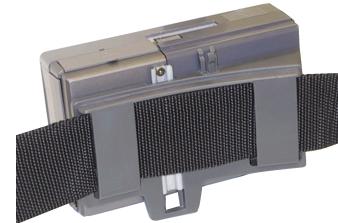
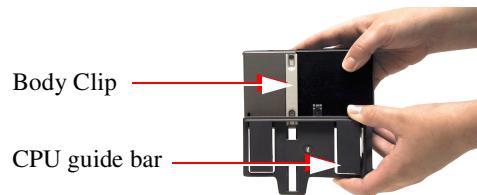
This chapter describes how to assemble the individual components of the MA V for wear. The CPU, Holster, and FPD are designed to be worn on a belt or vest, suspenders, shoulder pack, or backpack. The HMD is worn on your head and the keyboard is worn on your wrist, keeping your hands free and your body mobile.

### ASSEMBLING THE CPU

The CPU comes with a clip attachment enabling it to be body-worn.

To assemble the CPU and body clip for wear:

1. Align the body clip with the guide bar on the backside of the CPU.
2. Slide the body clip onto the CPU.
3. Connect the CPU and body clip to a belt.



An optional body-worn pouch is available for the CPU. The pouch protects the CPU from the elements while keeping it cool with a roll up front cover.



To assemble the CPU and pouch for wear:

1. Insert the CPU into the pouch so that the ports line up with the openings in the pouch.
2. Zip the pouch closed.
3. Using the velcro straps, attach the CPU pouch to a belt.



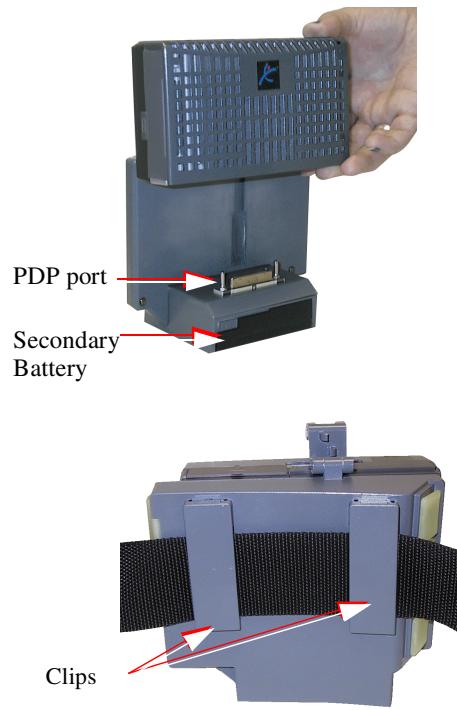
*To keep the CPU cool while using it in the pouch, open the front flap and secure it to the top of the pouch with velcro.*

## ASSEMBLING THE MA V HOLSTER

For extended battery operation, you can use the MAV Holster and still remain hands free and mobile. The Holster is designed to be worn on a belt, suspenders, vest, shoulder or back pack.

To assemble the Holster for wear on a belt:

1. Attach the secondary battery to the base of the Holster.
  - Insert the secondary battery into the Holster so that the battery's metal contacts meet the Holster's metal contacts.
2. Attach the CPU to the power docking port (PDP) on the Holster.
  - Position the CPU so that its PDP faces down.
  - Slide the CPU along the Holster's guide channels.
3. Attach the Holster to the belt by threading the belt through the two clips on the back of the Holster.
4. Attach any other peripheral devices to the available ports on the Holster and CPU.



## ASSEMBLING THE XYBER® PANEL FLAT PANEL DISPLAY (FPD)

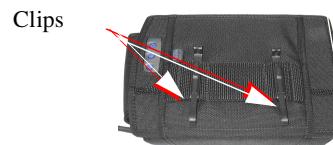
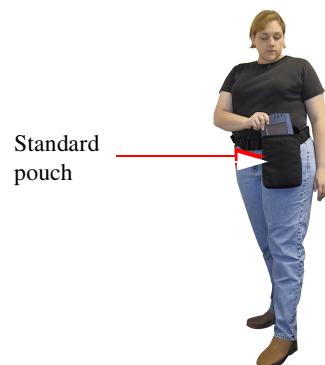
The FPD includes a zippered pouch with clips for mobile wear. The pouch is designed to protect the FPD when it is not in use, and to provide quick access to the display panel as needed.

To carry the FPD and pouch, slide the FPD into the pouch and zip the pouch closed. Attach the pouch to your body using the two clips located on the back of the pouch.

The FPD is also available with an optional flip down case. The flip down case allows you to use the FPD without removing it from the case.

To assemble the FPD and flip down case:

1. Slide the FPD into the case so that the display and buttons are visible through the openings. The FPD's cable should extend from the snap enclosure.
2. Snap the case closed.
3. Attach the case to your body using the two clips located on the back of the case.



**FPD with optional flip down case**