

# PRO-Gear XM-4 & XM-4U User's Manual



Software driver is required on Windows 98Se or Windows 2000 only. Please perform driver setup prior to using XM-4 & XM-4U.

Congratulations on the purchase of your new Atech Flash Technology PRO Gear flash reader/writer. PRO Gear is a read/write device that supports multiple formats of flash memory cards and we recommend that you read this manual carefully to become familiar with the operation of the product. This manual explains the features and specifications of your new PRO Gear reader, as well as the installation in a few simple steps. Please retain this guide for further reference.

If you have questions regarding your PRO Gear reader, please call our technical support hotline at toll free number (US only)

**1-866-85-ATECH (1-866-852-8324)**

or email us at

**[techsupport@atechflash.com](mailto:techsupport@atechflash.com)**

or visit our website at

**[www.atechflash.com](http://www.atechflash.com)**

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PRO-Gear XM-4/XM-4U is a multi-function, read and write device for today's most popular flash memory card formats. It brings you the advantage of ultra high speed data transferring between desktop PC and your personal electronic devices, such as Digital Cameras, MP3 Players, PDAs, Voice Recorders, Pocket PCs, Cell Phones and much more. Utilizing the widely-adopted USB (Universal Serial Bus) interface of your PC, XM-4/XM-4U is fully Plug-&-Play on Windows ME and Windows XP, without the need to install software driver.

The XM-4U unit is also equipped with a front USB port on the front panel, allowing you to connect your USB devices easily.

**High Speed USB 2.0 interface** - up to 480 Mb/s transfer rate to access to your flash media cards. Also backward compatible with USB 1.1 interface.

**Front USB port (XM-4U)** - allow you to connect USB devices easily.

**USB powered** - no additional power adaptor or battery required.

**Fully Plug and Play\*** - No software driver needed on Windows ME, XP or later.

**Custom Icons** - Driver icons for each card slot included on our driver setup disk(driver installation required).

**Hot-Swappable** - connect or disconnect reader without having to turn your computer off

CF - Compact Flash™ Type I, Compact Flash™ Type II

MS - Memory Stick™, MagicGate Memory Stick™\*\*

MS-PRO - Memory Stick Pro™

SM - SmartMedia™ Card (3.3V)

SD - Secure Digital™ Card

MMC - MultiMedia™ Card

MD - IBM MicroDrive™

xD - xD-Picture Card™\*\*\*

\*Software driver required on Windows 98SE / 2000.

\*\*Does not operate with MagicGate Memory Stick in secure mode.

\*\*\*xD-Picture Card™ is a trademark owned by Fuji Photo Film Co., Ltd.

## Operating System Requirement

Windows 98SE\*

Windows ME

Windows 2000\*

Windows XP

\* A CD ROM Drive is also required to access AFT Setup CD when setting up XM-4/XM-4U on Windows 98SE / 2000

## Setup Requirement

IBM PC compatible computer with USB connection (USB 1.1 or USB 2.0)

Empty external 3.5" drive bay

On Board USB pin headers (two USB ports)

This section explains the contents of PRO Gear package.

Before attempting to connect, please read this manual carefully and determine if software driver setup is required first.

## PRO-Gear XM-4



## PRO-Gear XM-4U



# Package Content Description 5

**Internal USB Cable** - Connects from XM-4/XM-4U unit to the USB pin headers on motherboard.



—— To XM-4/XM-4U Unit  
(10-pin)

—— To motherboard USB pin  
headers (10-pin)

**Internal USB Cable to mini-USB Cable** - Connects from XM-4/XM-4U unit to the USB pin headers on motherboard.



—— To XM-4/XM-4U Unit

—— To motherboard USB pin  
headers (5-pin)

**Internal USB Cable to mini-USB Cable** - Connects from XM-4U unit to the USB pin headers on motherboard.

**\*\*This option is for USB front port extension for XM-4U only.\*\***



—— To XM-4U (USB  
extension port)

—— To motherboard USB pin  
headers (5-pin)



## Attention !!!!

### **Windows 98SE or Windows 2000 users :**

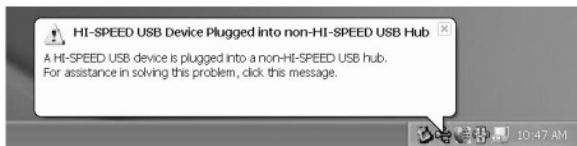
Driver installation is required. Please perform software setup first before inserting

XM-4/XM-4U is an USB 2.0 device and it is backward compatible with USB 1.1 interface. However, USB 1.1 performance can only be expected when connecting to a USB 1.1 port.

When XM-4/XM-4U is connected to an USB 1.1 port, following Windows message may appear :

"A HI-SPEED USB device is plugged into a non-HI-SPEED USB hub. For assistance in solving this problem, click this message"

This is just a reminder that XM-4/XM-4U is not plugged into an USB 2.0 port. It does not affect the function of XM-4/XM-4U. Please ignore the message.



Please also be sure to remove the power plug of your computer to avoid electrical shock or damage to your system.

## Step 1

Open computer case cover. Please refer to your computer manual if necessary.



## Step 2

Insert XM-4/XM-4U unit into an empty external 3.5" drive bay.



## Step 3

Like standard 3.5" floppy drive, XM-4/XM-4U unit has 3 screw holes on both sides. Apply screws on each side to secure unit to drive.



## Step 4

Connect Internal 10-pin cables or mini-USB cables to the back of XM-4/XM-4U unit.



**WARNING!!!**You can only use one option below for cable connections!!!

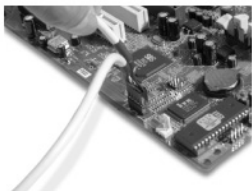
- A. Internal Connectors (10-pin to 10-pin)
- B. mini-USB Connectors (mini-USB to 5-pin)



A. Internal Connectors



B. mini-USB Connectors



Motherboard connection

Depending on the pin layout on your motherboard USB header, it may be necessary rearrange the color wires of Internal USB cable to match the USB pin assignment. Please refer to your motherboard manual for USB header pin assignment information.

Internal USB cable is consist of 2 sets of Red, White, Green and Black wires. Each color wire shall be connected to a specific pin on the USB header.

Red wire = Power (VCC)

White wire = P- (Data-)

Green wire = P+ (Data+)

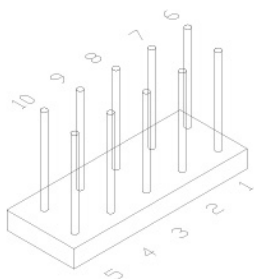
Black wire = Ground (GND)

Black wire #2 = Ground (GND) [Optional connection]

## <<< Example >>>

Here is an example base on the motherboard we have.

According to the motherboard manual, we have following pin information on USB header:



Pin 1 = USB Power

Pin 2 = USBP2-

Pin 3 = USBP2+

Pin 4 = GND

Pin 5 = NC

Pin 6 = USB Power

Pin 7 = USBP3-

Pin 8 = USBP3+

Pin 9 = GND

Pin 10 = NC (No pin)

Therefore, we shall have:

Set 1 USB wires

Red wire goes to pin 1

White wire goes to pin 2

Green wire goes to pin 3

and

Set 2 USB wires

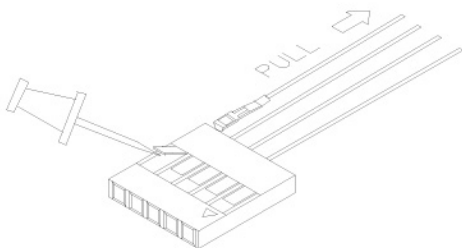
Red wire goes to pin 6

White wire goes to pin 7

Green wire goes to pin 8

Comparing the default wire setting on the Internal USB cable, no wire reassignment is necessary. We can plug in the black pin connector of Internal USB cable to the USB header directly, with red wire goes to pin 1 or 6.

Please note that your motherboard USB header pin assignment could be different from the example above. If you need to reassign wires on Internal USB cable, please follow the procedure below:



- (1) Determine which wires you need to remove from the black pin connectors first by referring to your motherboard USB header pin layout.
- (2) Using a needle or push pin to flip up the tiny plastic tab and pull the wire out from the connector. Please take caution on this step as excessive force on flipping the tab may cause the tab to break.
- (3) Repeat above step for each wire that requires changing.
- (4) Insert the wire pin back into the correct slot and press the tiny plastic tab down will hold the wire in its position.

## Step 5

Install software driver

This step is required for Windows 98SE and Windows 2000 users only. If you have Windows ME or Windows XP, please skip this step and proceed to Step 6.

- (1) Close all application you are running, including applications running in background.
- (2) Insert AFT Setup CD into your CD ROM drive and locate a setup.exe file in PC setup folder.
- (3) Double click on setup.exe will lead you into setup program.
- (4) Follow setup instruction on your screen.
- (5) After driver files are copied into your system, setup program will prompt you to restart your computer. Please do so.
- (6) Once computer is restarted, you can proceed to Step 6

## Step 6 AFT Custom Icons

Insert Memory Card and click on the Icon that matches your memory card.



### Devices with Removable Storage



CD Drive (D:)



Removable  
Disk (E:)



Removable  
Disk (F:)



Removable  
Disk (G:)



Removable  
Disk (H:)

### Network Drives



P on  
Server20...



T on  
Server20...



V on  
Server20...

Using XM-4/XM-4U is very similar to using a floppy drive. Simply insert your flash media card into the slot and click on the appropriate Removable Disk icon in My Computer, it will allow you to access your flash media card like a disk.

XM-4



XM-4U



We strongly recommend that you copy the files in the flash media card to your computer first before attempting to view or make any changes to the files.

## Caution !!

When removing your flash media card from PRO Gear Reader, please make sure that your file transferring process is fully completed before pulling your flash media card out. Failing to do so may result in card damage.

Avoid formatting your flash media cards in PRO Gear if possible. Always format your flash media card in the electronic device it is used. Certain electronic devices may become incompatible with the flash media cards formatted under Windows file systems.



<b>Dimension (W x H x D):</b>	4.00 inch x 1 inch x 4.92 inch 100 mm x 25 mm x 124 mm
<b>Power Requirement:</b>	5V DC, 500mA (USB Bus power)
<b>Supported media format:</b>	Compact Flash™ Type I Compact Flash™ Type II IBM MicroDrive™ Smart Media™ Card( .3V) MultiMedia™ Card Secure Digital™ Card Memory Stick™ Memory Stick PRO™ MagicGate Memory Stick™ xD-Picture Card™*
<b>Operation Current:</b>	<200mA
<b>Suspend Current:</b>	<500uA
<b>Transfer rate:</b>	Up to 480 Mbps (Via USB 2.0) Up to 12 Mbps (via USB 1.1)
<b>Supported O/S:</b>	Windows 98 SE Windows 2000 Windows ME (No driver required) Windows XP (No driver required) Mac OS 9.1 or later Mac OS X (No Driver required)

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\*xD-Picture Card™ is a trademark owned by Fuji Photo Film Co., Ltd.

Atech Flash Technology, Inc. ("AFT"), warrants to the original end user ("Customer") that under normal intended use AFT memory flash card readers will be free from defects in materials and workmanship for one (1) year from the date of purchase. During warranty period, AFT shall either repair, or replace of defective product. AFT shall not be liable for any losses or damages of any kind resulting from the use of AFT products or for any of Customer's data stored on products returned to AFT for service. AFT accepts no liability for and provides no expressed or implied warranty against any loss of data or images.

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## Media Cards\* Compatibility Note

Media cards may not work properly when working with AFT product. If you encounter this problem, contact AFT Tech Support for compatible media card list and potential driver support and update.

\*Compact Flash™, Secure Digital™, Smart Media™, Microdrive™, Multimedia Card™, Memory Stick™, Memory Stick PRO™, MagicGate Memory Stick™\*, and xD-Picture Card™\*\*

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