



## Application Note

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**Product: Mobile Mapper CX**

**Subject: Using a Mobile Mapper CX with the Ricoh Caplio ProG3**

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### **Summary:**

The Ricoh Caplio G3 with a Bluetooth Flash Card installed will accept GPS information from a Mobile Mapper CX and add it to the Photos that are taken. Users can then download their pictures to their Desktop Computer and use a program such as GPS Photo Link to create Geo-Referenced images for use with mapping software.

**Here is a basic step-by-step work flow for using the cameras with MMCX:**

### **Camera Set-up:**

- Charge battery in external charger
- Insert SD card (not provided) & charged battery
- Power-up camera
- Turn control dial (top of camera) to "Set-up"
- Set date & time options
- Set "Auto Power Off" to "Off" (must do this or you'll continually lose Bluetooth connection)
- Leave other settings as default for now

### **MMCX Set-up:**

- Turn-on MMCX
- Launch Bluetooth Manager from /Start/Settings/Control Panel
- Tap on Properties (icon to the left of the Question Mark), then click OK
- Make sure that on the "Security" tab there is a check in the box under "Let other Devices Discover"
- Select the Computer icon and you will see three icons with a little green picture of a plug in their lower left corner
- Double-tap "Serial Port" making the green plug icon go away
- Double-tap "Serial Port" causing, the green plug to reappear and a message will come up that says "Serial Port successfully assigned to COM x" (Please make note of which COM Port is used), then click OK
- Close Bluetooth Manager – Click "X" in the upper right corner (Note: Using the "X" will cause the Bluetooth Manager window to close but not quit the program)
- Launch /Start/Programs/GPS Utilities/GPS Port Configuration and make sure there is a check in the box next to "Enable Messages"
- Select the port that was assigned to your Bluetooth Serial Port above
- Click "OK" on the bottom of the window

## **Connecting Ricoh Pro G3 & MMCX**

- Turn on Camera (MMCX should already be powered-on and configured per above steps)
- Turn control dial to green play symbol
- Press Menu button (back of camera)
- Scroll down to "Serial" using arrow keys
- When prompted for "Destination is not registered. Search destination?" answer "Yes" by moving with Right Arrow and press "OK" on back of camera
- When you see "Send To:" and MMCX is listed, select MMCX (using arrow keys) and press "Ok" (Note: If you're in an area with many Bluetooth devices nearby, they will all be discovered and will make the search longer)
- Watch camera screen. You should see "Connecting" and then "Connected".
- If step 7 fails (ie: you see "Connection Failed"), turn off camera & MMCX and start over with the MMCX set-up steps above. Bluetooth on the MMCX is reliable, so you will not likely have to restart this procedure often.
- Turn control dial to green camera icon
- You should see a Satellite icon & lat/lon on the bottom left of the Ricoh display screen. When you have a fix, this will show lat/lon and beep.

**If you have a position fix with the MMCX, you're now ready to take pictures. Simply move around and take the images are required. GPS data logging may be performed in ArcPad or any other application.**

**When you're done collecting pictures & GPS data, turn-off the camera, save your GPS session in ArcPad (or whichever collection application you're using) and transfer images & GPS files to your PC.**