WIRELESS SD CARD
TETHERING

Using a wireless SD Card to transfer your photos directly from the camera to your computer without removing the card or attaching cables.
HOW DOES IT ALL WORK?

• Wireless SD card is inserted into a compatible camera
• SD card becomes a (secure) wifi "hotspot"
• Computer is connected to the wifi hotspot the camera is broadcasting (like you would do at a local Starbucks)
• When a photo is taken, the wifi card sends the photo across the wifi network it is creating to a connected computer and the files are stored on that computer. Most cards offer storage on the card as well, in case transfers are too slow or you move out of range of the computer, etc.
• If Lightroom (or vendor supplied) software is installed and running, the photos may be viewed “full screen” on the computer shortly after being taken
• Some vendors supply “apps” that transfer the files across the Internet to social media sites, cloud storage or photo sites like SmugMug, 500px, etc. using your smartphone, tablet or local wifi router
Insert SD Card in compatible DSLR

Wireless hotspot

Files transfer via wifi to router or internet device

Files are uploaded to Internet (Facebook, file storage sites, etc.)

Files are downloaded to computer over Internet

Files are uploaded to Internet

Adobe Lightroom software quickly shows photos shortly after they are taken
SO WHY WOULD I WANT TO USE A WIRELESS SD CARD?

• Allows immediate transfer of photos to your computer so you can instantly see the quality (focus, exposure, Dof, etc.) that is not as evident on the back of your camera

• Allows for “infinite storage” of your photos – if you upload them to a cloud storage site or to the local computer, you can take more photos than a normal SD card could hold

• Instantly share photos on social media

• Create a "live slide show" at an event so all attendees can see the photos you are taking as they are taken (think of a wedding reception with a large screen tv and you are sending your pics directly to your laptop connected to that tv so everyone can “enjoy” the reception photos as they are taken)
Pros

• Allows for quick inspection of photos as they are taken on a computer screen
• Infinite (much larger) storage if uploaded to computer or cloud storage
• Instant sharing on social media sites
• Creative uses such as slide shows at events to display photos “as they are taken”
• More freedom of movement over “cable” tethers

Cons

• Transfer can be slow (especially RAW files)
• Wifi range is limited (most cards only work within 15-20 feet between camera & PC)
• Wifi card uses your camera battery for power, and some us a LOT of power
• Need another Internet connected device to transfer files to social media/cloud storage sites
• Some cards can only transfer files to one device at a time
• Card “goes to sleep” (to preserve camera battery) if no photos taken for a while and “waking up” can be slow

So, which ones are available and where do I get one?

- Eye-Fi ([www.eyefi.com](http://www.eyefi.com))
- Transcend ([http://us.transcend-info.com/Support/No-401](http://us.transcend-info.com/Support/No-401))
- Toshiba Flash Air II ([https://www.toshiba.co.jp/p-media/wwsite/flashair.htm](https://www.toshiba.co.jp/p-media/wwsite/flashair.htm))
- Other “non-name brands” available – search Google “wifi SD”
<table>
<thead>
<tr>
<th></th>
<th>Eye-fi</th>
<th>Transcend</th>
<th>Toshiba Flash Air</th>
<th>ezShare</th>
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<tbody>
<tr>
<td>On card storage</td>
<td>Yes. 8, 16 &amp; 32 GB models. Pro model allows RAW transfer as well. Can send files to the eyefi Cloud storage.</td>
<td>Yes. 16 &amp; 32 GB models. App allows transfer of files to social media sites.</td>
<td>Yes. 8, 16 &amp; 32 GB models.</td>
<td>Yes*. 8 &amp; 16 GB.  *Also has a “micro SD adapter version” so you add your own micro SD cards.</td>
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<tr>
<td>Wifi range</td>
<td>45-90ft (indoors/outdoors)</td>
<td>16-32ft (indoors/outdoors)</td>
<td>25-35ft (indoors/outdoors)</td>
<td>25-30ft (indoors/outdoors)</td>
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<tr>
<td>Performance</td>
<td>Slow if not connected “directly” to the wifi hotspot</td>
<td>Average on RAW, very good on JPG</td>
<td>Average on JPG, slow RAW transfer</td>
<td>Average on JPG, viewable on a browser, no file transfer</td>
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<tr>
<td>Mobile Software for camera control/ viewing</td>
<td>iOS</td>
<td>iOS &amp; Android, Windows via browser</td>
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<td>Cost</td>
<td>$28-50 (mobi) $70-80 (Pro)</td>
<td>$40-60</td>
<td>$25-30</td>
<td>$25-32</td>
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