Healthy Baby Monitors

written by Oram Miller | 1 September 2025



To see hardwired choices for surveillance cameras, click here.

Introduction

Parents of infants and small children want to keep tabs on them while they sleep and play to be sure they are alright. Many people want surveillance cameras around their home and property, as well. Both needs are easily satisfied with a wide variety of wireless cameras and microphones available on the market today. (Click on the link above for a companion article on hardwired choices for surveillance cameras.)

The problem is, these wireless cameras emit strong radio frequency EMFs that can cause ill health for sleeping children. Even if the camera and its transmitter are several feet away, the RF level can easily exceed internationally accepted safe exposure levels for nighttime exposure as set by the EMF Safety Community and the building biology profession.

Oram was interviewed about the potential dangers of exposure to radio frequency EMFs from baby monitors by Brooke Beare, news anchor on KESQ's CBSLocal2 News in Palm Springs, California. It aired on November 10, 2014. To read a transcript of the six minute piece, click here (the archive of the video clip is no longer available).

Baby Monitors

To provide a safe sleeping environment for everyone, we recommend using a hardwired device with a microphone and camera as your baby monitor. These would be connected to a monitor of some type (cell phone, tablet, laptop, closed-circuit monitor) in another room with a hardwired Ethernet, telephone or coaxial cable connection. This also helps avoid radio frequency EMFs where mom has her monitor to watch and listen to her baby, which is often by her bed and on the kitchen counter, inches away from where she sleeps and works.

One option is to use any camera and microphone that has a hardwired Ethernet connection. Here are several choices:

Tech Wellness Wired Baby Monitor EMF-Free System

The best choice for a hardwired baby monitor system is the Wired Baby Monitor Tech Wellness EMF-Free System, put together by August Brice at TechWellness, available here. This is a full, turn-key solution, available for $469, which requires a hardwired way to connect the baby's monitor to your cell phone, tablet or laptop. The kit uses a wired high-definition (HD) camera in your baby's nursery that does not emit wireless frequencies. It has motion detection and it stays on until you tell it to stop viewing. Recording is possible. You would use a hardwired Ethernet cable to connect the camera to an app on your phone, tablet or laptop. August provides a video with step-by-step instructions on how to set up the system and even 15 minutes of set-up tech support.

This system requires an existing hardwired Local Area Network (LAN) of Ethernet cables in the wall of your baby's nursery back to the router in order to work. Or, you could install power line adapters that send Internet over the electrical circuits in your walls, or Multi-media over Coaxial Alliance (MoCA) adapters that send Internet over a coaxial cable TV network in your walls. Go to the Amazon page on my Store page, then scroll down to either Network Powerline Adapter or MoCA Unit to see these choices.

The downsides are that power line adapters create dirty electricity on the electrical circuits, and with electrical circuits in some homes, Internet speeds are aggravatingly slow. MoCA has no dirty electricity and is secure and fast, but it requires coaxial cables to be connected in walls and coaxial jacks may not be conveniently located next to where you want to sit and get on the Internet in a room away from where the router is located in your house. A hardwired LAN of Ethernet cables professionally installed by a low voltage contractor is always best, providing a stable, fast and secure network that you know will always work at top speeds without any EMFs.

Other Options

A second option uses the Realink hardwired IP camera, model RLC-820A, available from Amazon for $89 by clicking here. It is a camera and microphone combo that gets its power over Ethernet cable. It uses hardwired connectivity technology, not WiFi. I did not measure WiFi nor Bluetooth when I evaluated this camera/microphone at a client's house. It does require a hardwired Ethernet connection from the baby's nursery to your router–see above.

A third option is the D-Link Indoor HD Security Camera with Day & Night Vision, Motion and Sound Detection, Model DCS-2132L-ES. The wireless transmitter shuts off when you plug in an Ethernet cable. Unfortunately, D-Link has discontinued this model, but you will be able to find it, new or used, on E-bay, by clicking here. (I found that the WiFi does not shut off when I plugged an Ethernet cable into D-Link's newer model of Indoor WiFi Camera, Model DCS-8525LH-US, and synched it up with a router.)

You would plug an Ethernet cable into the Ethernet port on the back of the camera/microphone on the D-Link Model DCS-2132L-ES (if you can get it from eBay). I have verified that when you plug in an Ethernet cable that is connected to a working router, the Wi-Fi shuts off and is disabled. The camera and microphone work by sending images and sound from your child's bedroom over the Ethernet cable. You then go online on your desktop or laptop computer to D-Link's secure website to see and hear your sleeping baby. See the discussion above regarding how to get an Ethernet cable or Internet data port into the nursery in a hardwired way.

If you must use a wireless baby monitor, the SmartNOVA wireless baby monitor made by Norwegian manufacturer NOVA and RadioShield Technologies is the least harmful I have found. I have measured these units and they do emit radio frequencies, but at a much lower level than other baby monitors. At six feet from the SmartNOVA, I measured radio frequency (RF) levels of only 10-20 microWatts/meter squared (µW/m2), which is at the level that we say is the beginning of the "slight anomaly" range for sleeping areas.

I would not put this unit any closer than six feet from your baby's crib or from where mother sleeps, stands or sits in the daytime. Therefore, always put the SmartNOVA monitor across the bedroom from the crib and keep the monitor that Mom watches six feet away from her, as well. Keep in mind how far people sit or sleep on the other side of the wall from where you place the camera and monitor, because RF signals do pass through walls. Make sure people are not sleeping or sitting within six feet of the camera and monitor whether walls are present or not.

The SmartNOVA Baby Monitor sells for $149. You can order it from Bellyarmor by clicking here. It is currently back-ordered, and the manufacturer says they are

working on a replacement model. You can pre-order a unit from them and find out more information about when they might have it available by going the website linked to above.

A resource with sources of relatively low radio frequency-emitting baby monitors can be found at The Gentle Nursery, available by clicking here.

We strongly suggest, however, that you go with hardwired connections if possible because there are non-thermal, biological effects even at these low RF levels that are now being demonstrated through research. Thus, even 10-20 microWatts/meter squared is not necessarily a safe level for an infant, or for anyone else, for that matter.

Remember, in general it is always best to be safe with hardwired connections whenever you can for all your networking needs.

Finally, to see a selection of protective clothing that a pregnant woman can wear around her abdomen to protect her fetus from radio frequencies, click here or here.

Bear in mind, this does not mean we recommend that you should use a cell phone for calling, texting or web surfing if you are pregnant. Research suggests that when a fetus is exposed to wireless frequencies when the mother uses a cell phone at close range, that child has a statistically higher chance of developing behavioral, cognitive and learning impairment when they become teenagers. This is reported by obstetrician Hugh Taylor, MD at Yale University and pediatrician Martha Herbert, MD, at Harvard. Drs. Taylor and Herbert spoke at a press conference hosted by Devra Davis. This was prior to their joint presentation to pediatricians, research scientists, health care provides and policy makers at the 2016 Pediatric Societies Annual Conference in Baltimore, Maryland on May 3, 2016. To see a video of that press conference, click here.

We only make the recommendation for a pregnant woman to use belly armor clothing to protect her unborn child from radio frequencies used by those around her when she is out in public (or at home, if other members of the family still use wireless devices, which we strongly recommend against when in her presence). Belly Armor will not protect against any of the three other types of EMF.

Other Types of EMFs to Avoid When Pregnant

These three other types of EMFs that every pregnant woman should avoid include the very strong magnetic fields emitted from such “point sources” as the back of a refrigerator, transformers located within digital clocks and on the front of many stoves and at the top of the lid on some dishwashers. You must measure the magnetic field exposure at these locations where you cook and prepare food. If present in your dishwasher, you can have an electrician install a shut off switch under the sink for the

dishwasher and only turn it on when you use it. Flip the switch off when you don't.

For the stove, if you have a magnetic field at the electronics at the front, find the distance where the magnetic field reading goes below 0.5-1.0 milliGauss. This is also a problem when you turn on the front burners on an electric range. Again, see what the safe distance is (below 0.5-1.0 mG) when those are turned on. You may need to stand to the side when you cook.

See more details on this topic in my Magnetic Field EMF article, by clicking here as well as my Kitchen and Laundry Appliances and EMFs article. I have even found a transformer hidden behind the front of a gas range with no apparent evidence of electronics, just mechanical knobs to turn on gas stove-top burners. You just have to measure. To purchase a Gauss meter to measure magnetic fields, go to the page, EMF Meters and Instruments and scroll down to the section on AC Magnetic Field EMFs.

If you are pregnant, use hardwired connections exclusively for every communication need you have (phone, Internet, etc.). Use corded telephones on your land line plugged into telephone jacks throughout your house. Use your laptop or desktop computer for all your Internet needs (email, web surfing) with hardwired Ethernet connections and keep the Wi-Fi disabled on your computer. Use a corded mouse and keyboard and disable the Bluetooth on your computer.

All of these hardwired recommendations are covered in detail on my Safer Use of Computers page, accessed by clicking here