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Miniature cameras are common and installed in all sorts of devices, even [Barbie](#) dolls. Smartphones, mobile devices, and [wearable](#) action cameras lead the way for miniature camera notoriety. Many of these miniature cameras are highly capable devices and generate some stunning imagery, but they aren't

necessarily up to broadcast standards.

Marshall Electronics Broadcast Division is one company looking at the high-quality broadcast needs with these small cameras. Marshall has developed a low cost broadcast miniature camera.

Marshall Electronics CV500-MB HD-SDI Miniature Camera

The [Marshall Electronics CV500-MB](#) HD-SDI Miniature Camera is a palm sized piece of equipment. The overall size of the camera is 1.5" square and weighs 50 grams. The CV500-MB features a Sony Exmor 2.2 Megapixel CMOS sensor and a miniature HD fixed 3.7mm lens. This combination allows the camera to capture footage in low light situations and feature video enhancements like Wide Dynamic Range, digital noise reduction, automatic white balance, digital zoom, and motion detection.

Marshall does offer a variety of other miniaturized lens configurations, increasing the flexibility and uses of the camera. The Marshall CV500-MB outputs a 1080i/59.94 Broadcast image, simultaneously over HD-SDI and CVBS. It is also available in a 1080p configuration as well.

The small size makes it ideal for several broadcast application such as reality television, green room screening, remote locations in which it's difficult to place a camera, and as a wearable device. There are also many non-broadcast uses which benefit from a miniature camera this size, such as security services and robotics. The cost of the Marshall Electronics CV500-MB is \$499.

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