

# MS2109



MS2109 is a HD Video Acquisition Chip, which is internally integrated with USB2.0 controller and data transceiver module, HD RX module, Audio and Video Processing module. MS2109 can transmit the Audio and Video signals by HD interface to PC, Smart Phone or Tablet Computer through USB interface to preview or collect audio and video information. USB video complies with UVC specification, Audio complies with UAC specification, and supports Windows / Android / macOS system.

## Features

Support RGB444, YCBCR422, YCBCR444, YCBCR420 color space	USB Video supports customized resolution output
Support deep color 24/30/36 bit mode	Support digital audio interface I <sup>2</sup> S input
Support CEA-861 /CEA-861-F video format	On-chip high speed USB Device
Max input resolution 3840×2160@30Hz	Support descriptor customization
Support YUV&JPEG mode	Windows XP,7,8,10
Max output resolution: 1920×1080@30Hz	Andriod5.0 or Higher
Support user customized resolution	macOS
Compatible with USB1.1 mode	Only one 24MHz crystal needed
Compatible with UVC1.0 protocol	On-chip PLL
Support SPDIF output	On-chip power on reset
USB Audio conforms to UAC1.0 specification	QFN48 (7mm×7mm)
USB Audio default 96KHz mono output	Pb-free and RoHS compliant

## Function Block Diagram

