



the world's first camera solution that supports recompilation of FHD MJPEG into H.264 format. An advanced ISP is



ARM Cortex-A7 CPU, Advanced ADAS Algorithm

Allwinner V3 packs an ARM Cortex-A7 core that runs up to 1.2GHz to deliver higher computing capability, enabling support for advanced ADAS (Advance Driver Assistant System) algorithm to provide more secure driving experience,



WiFi or 3G/4G Supported, Android/iOS APKs

WiFi or 3G/4G function can be available in V3 to enable interaction with mobile phones after installing

esp

OS

Linux OS or Allwinner's Camdroid OS

LVDS LCD controller, audio codec, EMAC + PHY, etc.

Features and Specifications

	<ul style="list-style-type: none">• Supports 1080p@60fps or 2-channel 1080p@30fps H.264 video encoding, supports 8M JPEG encoding• Supports H.264 1080p@60fps decoding, MJPEG 1080@30fps decoding
™ ISP	<ul style="list-style-type: none">• Integrated ISP up to 8M pixels• Supports two channel outputs for display and encoding respectively• Supports various input and output formats• Supports AE/AF/AWB• Supports saturation adjustment/ noise reduction/ defect pixel correction/distortion correction
Video Input/Output	<ul style="list-style-type: none">• Supports 8/10/12-bit parallel CSI and 4-lane MIPI CSI2• Supports BT1120 input• Supports up to 8M CMOS sensor• Supports RGB/i80/LVDS LCD up to 1024x768 resolution• Supports Allwinner's next-gen SmartColor display technology for better visual effects for images & videos
CPU	<ul style="list-style-type: none">• ARM Cortex™-A7 @1.2GHz
Memory	<ul style="list-style-type: none">• Supports 16-bit DDR3/LPDDR3/DDR3L SDRAM controller, up to 1333Mbps• Supports 16-bit DDR2 up to 800Mbps, 16-bit LPDDR2 up to 1066Mbps• Supports memory size up to 2GB
	<ul style="list-style-type: none">• Integrated 92dB audio codec• Supports two ADC channels and two DAC channels• Supports 3 MIC-in, a stereo Line-in, a headphone output and a stereo line-out output
	<ul style="list-style-type: none">• Supports AES/DES
	<ul style="list-style-type: none">• 3 x SD card controllers• LRADC/SPI/TWI/UART/PWM• USB, EMAC+PHY
OS	<ul style="list-style-type: none">• Supports Camdroid OS, an Android-lite operating system• Supports Linux OS
Package	<ul style="list-style-type: none">• TFBGA 259 pins, 12mm x 12mm, 0.65 pitch

ABOUT ALLWInnER

With its focus on cutting edge UHD video processing, high performance multi-core CPU/GPU integration, and ultra-low power

COntACT US

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