This is a family of products based on the most advance CMOS mixed signal technology. It integrates image array, signal processing, timing and control circuitry, all on a single chip. It is ideal for applications requiring a small footprint, low power and low cost.

Features:

➢ Tip size 4.4 x 5.7mm
➢ Resolution: HD1280x720 pixels
➢ Built in hi bright LED
➢ Optical lens built in
➢ MIPI interface
➢ Low power consumption
➢ Cable size: 1.8mm OD
➢ Cable length: 1M (upto 4M)

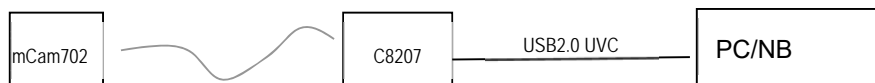## Specification

Pin Description

1. DOVDD   1.8VDC
2. DVDD   1.5VDC
3. MCN   MIPI clock Negative o/p
4. MCP   MIPI clock Positive o/p
5. DGND   Ground
6. MDN   MIPI Data Negative o/p
7. MDP   MIPI Data Positive o/p
8. SDA   I2C data
9. SCL   I2C clock
10. AGND   Ground
11. AVDD   2.8V
12. CLK   Clock input from backend
13. LED-   LED GND
14. LED+   LED Power
15. LED_PWM   LED control

Imager	CMOS imager sensor OVM9724
Optical Format	1/9"
Clock rate	6~27MHz
Sensitivity	740mVLux-sec
Video Output	1-lane MIPI
Scan mode	Progressive, max 30fps
Data format	10bit Raw RGB
Picture Element	1280x720pixel
Pixel size	1.40x1.40um
S/N Ratio	36.2dB
Dynamic range	70.4dB@8x gain
Operation Voltage	2.8V, 1.8V & 1.5VDC
Operation Current	55mA max (LED off)
Cable	OD1.8+/-1mm
Optical Spec	
FOV	65 deg
F/no	2.8
Working distance	50mm

Application Note

Customer can develop his own solution to interface mCam702 but we provide USB modules C8207 for PC application, C82880 for handheld as well as recording module C8203 for HDMI display

System Block Diagram

mCam702 ⟶ C8207 ⟶ USB2.0 UVC ⟶ PC/NB

Backend Module Selection

Features	Model No	Interface	Display
PC application	C8207--702	USB2.0	PC/NB
Handheld	C82880-702	DVP	3.5" panel
HD display	C8203-702	HDMI	HD Monitor

Rev 0