



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 3.8 OD x 8mm
- Resolution: HD1280x720 pixels
- Operation voltage 2.8V, 1.5V
- MIPI interface
- Low power consumption
- Cable size: 1.8mm OD
- Cable length: 1M (up to 4M)



Specification

Pin Description

1.	EVDD	1.5VDC
2.	VDD	2.8VDC
3.	CLK	Clock input
4.	SCL	I2C clock
5.	SDA	I2C data
6.	MDN	MIPI Data Negative o/p
7.	MDP	MIPI Data Positive o/p
8.	GND	Ground
9.	MCN	MIPI clock Negative o/p
10.	MCP	MIPI clock Positive o/p



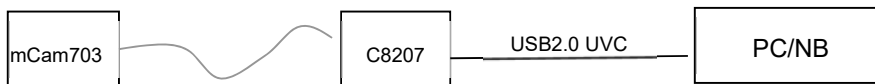
Option wires for LED

Application Note

Customer can develop his own solution to interface mCam703 but we provide USB modules C8207 for PC application, C82889 for handheld as well as recording module C8203 for HDMI display

Imager	CMOS imager sensor OV9734
Clock rate	24MHz
Max exposure	798 x T _{row}
Video Output	MIPI
Scan mode	Progressive, max 30fps
Data format	10bit Raw RGB
Picture Element	1280x768pixel
Pixel size	1.4x1.4um
Effective image area	1819.58x1033.34um
S/N Ratio	36.4dB
Dynamic range	68.4dB@16x gain
Operation Voltage	2.8V, 1.5VDC
Power consumption	69mW
Cable	2p + 1C coaxial + 5C wire, OD1.8+/-1mm
Connection	10pin 1.25mm connector (options: open)
Tip Dimension	OD3.8mm, L=15mm
Lens specification	FOV: 108deg @full resolution F/N: 4.0
Working distance	5mm~10mm

System Block Diagram



Backend Module Selection

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