NX-1080CAF

USB2.0 HIGH SPEED 1080P

UVC+UAC AUTO FOCUS CAMERA MODULE

NIMAX

NIMAX TELECOM CO., LTD.

Index

1. Features

1-1. 1⁄5 inch 1080p Image sensor build in.

1-2. 10 cm to infinity Auto Focus.

1-3. Compact size, High performance.

1-4. Motion JPEG Engine Built in.

1-5. Support the UVC (USB Video Class) Driver Free Protocol, can directly Plug & Play and have video function without driver installing.

1-6. Support Win XP, Vista, 7, 8, MAC OS 10.5 or above, Linux OS (May need Linux Version UVC Driver pre-installed at Kernel 2.6.18 and previous)

2. Module Dimensions

Item	Normal Type (mm)
Diameter	28± 0.3
Height(TTL)	9.5±0.3

3. Detail Specification :

Electrical Specification	
CMOS Sensor	1080p CMOS Sensor
Video Format	YUY2 + MJPEG Dual Mode
UVC / UAC	UVC + UAC
USB 2.0 / High Speed	Compatible
Hardware Snap Button	No
Built in MIC	Optional
Power Input	USB Power/5V DCV
Power Consumption	130mA approx.
Optical Specification	
Focus Type	Seamless Auto Focus
Effective Distance	10cm to infinity
F No.	2.8
View Angle	63 degree
Lens Component	3P+1 IR with VCM AF motor
Camera Functional Specification	
Color Depth	24 Bit Color
White Balance	Auto
Exposure Control	Auto
Video Format	MJPEG/YUY2
Flicker Control	50Hz/60Hz Manual Adjustable
Default Video Size	1920x1080
Max. Video Size	1920x1080
Max. Still Image Size	1920x1080

Frame Rate	Resolution	MJPG	YUY2
	1920X1080	30 fps	8 fps
	1280X720	30 fps	15 fps
	640X480	30 fps	30 fps
	360X240	30 fps	30 fps
	160X120	30 fps	30 fps

Mirror	N/A
Flip	N/A
Mechanical Specification	
Dimensions	Diameter 28mm
Weight	35g ± 5g
USB Cable Length	Optional

5. Software Specification

Compatible OS

Windows XP / Vista / Windows 7 / Windows 8

MAC MAC OS 10.6

Linux Kernel 2.6

Min. System Requirement :

Video Previewing Only CPU: P4 - 1G with MMX Technology or above
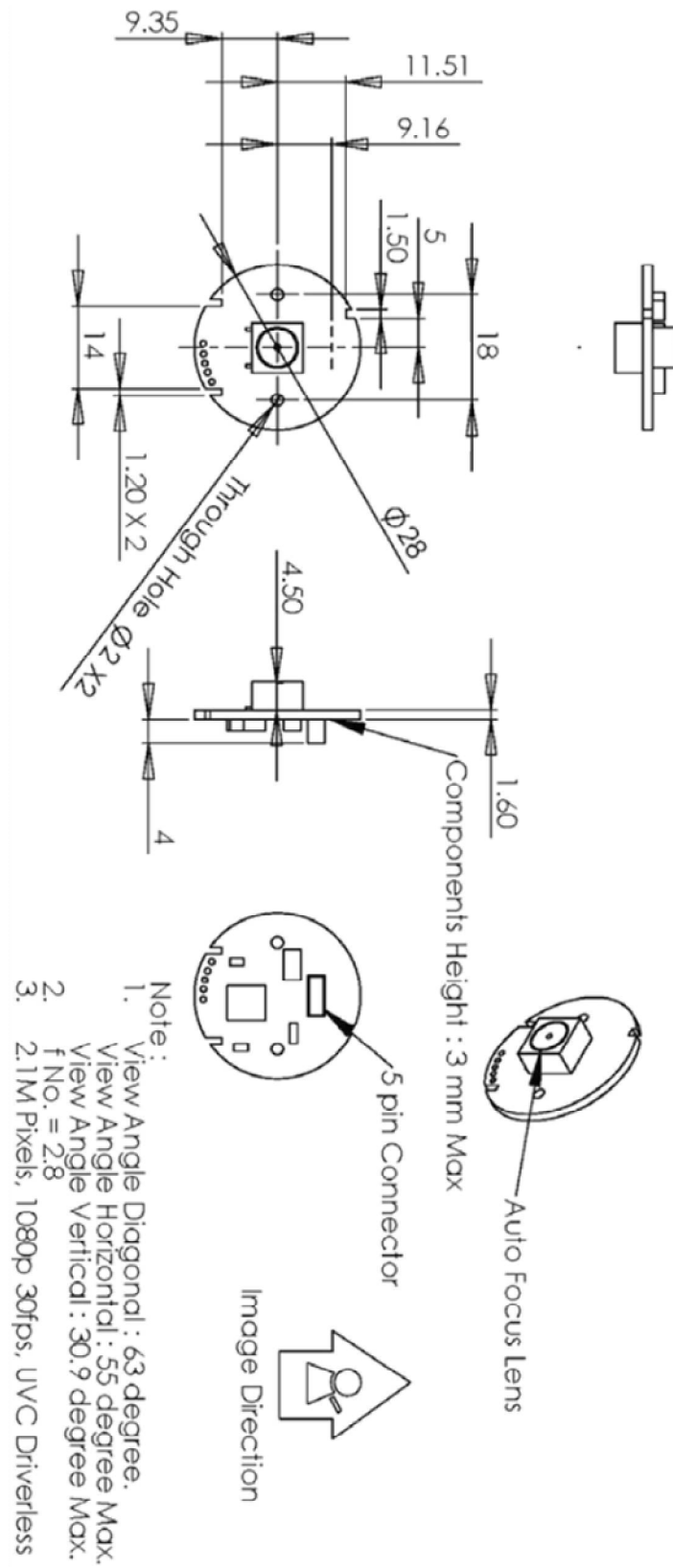
One available USB Port

RAM: 1GB or above

Video Recording CPU: P4 - 1G with MMX Technology or above

One available USB Port

RAM: 1GB or above

HDD: 1G Free Space or above

6. Module Drawing

9.35
11.51
9.16
1.50
5
18
14
1.20 X 2
Through Hole Φ 2 X 2
Φ 28
4.50
4
Components Height : 3 mm Max
1.60
5 pin Connector
Image Direction
Auto Focus Lens

Note :
1. View Angle Diagonal : 63 degree.
   View Angle Horizontal : 55 degree Max.
   View Angle Vertical : 30.9 degree Max.
2. f No. = 2.8
3. 2.1M Pixels, 1080p 30fps, UVC Driverless

7. Handling Precautions

- DO NOT try to open the unit enclosure as there is no user-serviceable component inside.
- To prevent damage to the camera module by electrostatic discharge, handling the camera module ONLY after discharging ALL static electricity from yourself and ensuring a static-free environment for the camera module.
- DO NOT touch the top surface of the lens.
- DO NOT press down on the lens.
- DO NOT try to focus the lens.
- DO NOT put the camera module in a dusty environment.
- To reduce the risk of electrical shock and damage to the camera module, turn OFF the power before connect and disconnect the camera module.
- DO NOT drop the camera module more than 60 cm onto any hard surface.

- To prevent fire or shock hazard, DO NOT expose camera module to rain or moisture.
- DO NOT expose camera module to direct sunlight.
- DO NOT put camera in a high temperature environment.
- DO NOT use liquid or aerosol cleaners to clean the lens.
- DO NOT make any charges or modifications to camera module.
- DO NOT subject camera module to strong electromagnetic field.
- DO NOT subject the camera module to excessive vibration or shock.