

NV100M

Miniature image sensor model

Model Specifications

Item	Parameters
Active Array Size	400(H)*400(V)
Imaging Area	0.448mm*0.448mm
Package Chip size	1.04mm*1.094mm*0.66mm
Module Size (Lens+Sensor)	1.12mm*1.17mm*1.48mm
Interface	VDD, VSS, SDA/DATA+, SCL/DATA-
Lens Structure	3 Lenses
F/#	4.8
HFOV (deg)	85
VFOV (deg)	85
DFOV (deg)	120
EFL (mm)	0.253
IR filter	675nm
Relative illumination	59.90%
Depth of field	3-100mm
CRA	28.5°

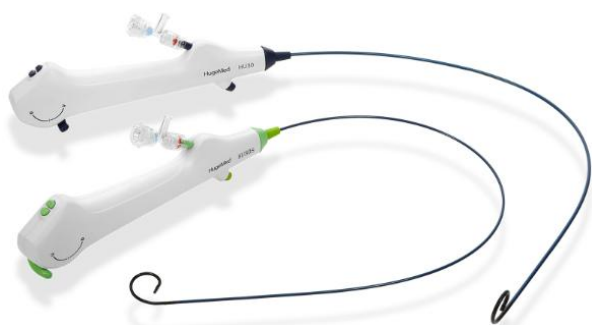
Applications

- Clinical disposable electronic endoscope (Ureterscopes /Choledochoscopes /Cystoscopes Hysteroscopes /Bronchoscopes /Rhinolaryngoscopes)
- electronic endoscope for animal medical treatment
- industrial electronic endoscope



■ **NV100M**
1.12*1.17*1.48mm

Module Size Comparison Chart



Terminal Product (Reference)

Competitor Comparison

Class	sub-Class	NV100M	Industry-same-spec products
Chip information	Optical size	1/28	1/18
	Pixel size	1.125um*1.125um	1.75um*1.75um
	Active array size	400x400	400x400
	Image area	0.448mm*0.448mm	0.714mm*0.707mm
	Package dimensions	1.12mm*1.17mm*1.48mm	1.05mm*1.05mm*2.266mm
	Max frame rate	40fps@10bit	30fps@10bit
	Power supply	2.7-3.3V, Typ 2.8V	3.135-3.465V, Typ 3.3V
	Pin	VDD,VSS,SDA/DATA-,SCL/DATA+	AVDD,AGND,XVCLK,VOUT
	Power requirements	26.07mW@3.3 21.784mW@2.8V	25mW@3.3V
	Driver Distance	6 meter	
Optical information	Lens Structure	3 lens	3 lens
	F/#	4.8	5
	HFOV(deg)	85	87.5
	VFOV(deg)	85	87.5
	DFOV(deg)	120	120
	EFL(mm)	0.253	0.418
	IR filter	675nm	665nm
	Relative illumination	59.90%	60.70%
	Depth of field	3-100mm	3-50mm

System Diagram

