

# NV110M

Miniature image sensor model

## Model Specifications

Item	Parameters
Active Array Size	720(H)*720(V)
Imaging Area	1.008mm*1.008mm
Package Chip size	0.95mm*0.94mm
Module Size (Lens+Sensor)	1.05mm*1.05mm*1.8mm
Interface	VDD,VSS,SDA/DATA-,SCL/DATA+
Lens Structure	3 Lenses
F/#	4.0
HFOV (deg)	87.5
VFOV (deg)	87.5
DFOV (deg)	120
EFL (mm)	0.418
IR filter	665nm
Relative illumination	60.70%
Depth of field	3-50mm
CRA	30°

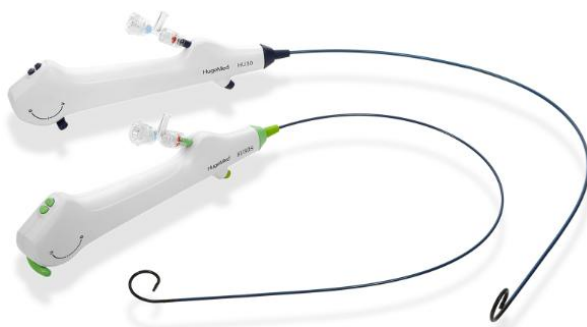
## Applications

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



■ **NV110M**  
1.05\*1.05\*1.8mm

## Module Size Comparison Chart



Terminal Product (Reference)

## Competitor Comparison

Class	sub-Class	NV100M	Industry-same-spec products
Chip information	Optical size	1/18"	1/18"
	Pixel size	1.008um*1.008um	1.008um*1.008um
	Active array size	720x720	720x720
	Image area	733.824um*733.824um	733.824um*733.824um
	Package dimensions	1.05mm*1.05mm*1.8mm	1.075mm*1.075mm*2.241mm
	Max frame rate	40fps@10bit	30fps
	Power supply	2.7-3.3V, Typ 2.8V	3.135-3.465V, Typ 3.3V
	Interface	VDD,VSS,SDA/DATA-,SCL/DATA+	AVDD,AGND,XVCLK,VOUT
	Power requirements	45mW@2.8V	25mW@3.3V
	Driver Distance	6 meter	
Optical information	Lens Structure	3 lens	3 lens
	F/#	4.8	5
	HFOV(deg)	87.5	87.5
	VFOV(deg)	87.5	87.5
	DFOV(deg)	120	120
	EFL(mm)	0.418	0.418
	IR filter	665nm	665nm
	Relative illumination	60.70%	60.70%
	Depth of field	3-50mm	3-50mm

## System Diagram

