

NV110M

Miniature image sensor model

Model Specifications

Item	Parameters
Active Array Size	720(H)*720(V)
Imaging Area	733.824um*733.824um
Package Chip size	0.95mm*0.94mm
Module Size (Lens+Sensor)	1.05mm*1.05mm*1.8mm
Interface	VDD,GND,LVDS/I2C
Lens Structure	3 Lenses
F/#	4.0
HFOV (deg)	87.5
VFOV (deg)	87.5
DFOV (deg)	120
EFL (mm)	0.42
IR filter	665nm
Relative illumination	60 %
Depth of field	3-50mm
CRA	30°

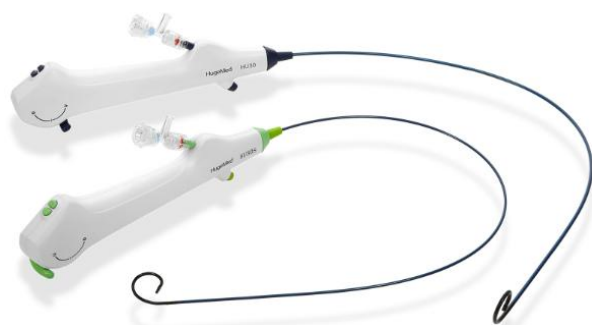
Applications

- 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	NV110M	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	720*720	720*720
	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	30fps@10bit	30fps
	Power supply	2.7-3.3V, Typ 2.8V	3.14-3.47V, Typ 3.3V
	Pin	VDD,GND,LVDS/I2C	AVDD,AGND,XVCLK,VOOUT
	Power requirements	35mW@3.3V	25mW@3.3V
Optical information	Lens Structure	3 lens	3 lens
	F/#	4.0	5
	HFOV(deg)	87.5	87.5
	VFOV(deg)	87.5	87.5
	DFOV(deg)	120	120
	EFL(mm)	0.42	0.418
	IR filter	665nm	665nm
	Relative illumination	60%	60.70%
	Depth of field	3-50mm	3-50mm
	Max image circle	1.04mm	1.06mm

System Diagram

