RAINBOW Series

LINE SCAN Cameras

Industrial Inspection Technology

RAINBOW - Series

LINE SCAN Color

Rainbow Series

The RAINBOW Series has a rich line-up of color CCD cameras. These cameras incorporate high quality CCD line scan technology to provide excellent color images. Ideal for printing inspection applications with high sensitivity and low noise, perfect for all FA solutions.

Features

- high speed read out (up to 70MHz RGB)
- a wide range of resolutions (from 1049 x 3 to 7300 x 3 pixels)
- standard Camera Link output except 1 LVDS model*
- 24 bit and 30 bit models available
- 3CCD models available
- remote control capability of Gain and Offset

		SUCL1024	SUCL2024	SUCL2030	N3CL2048DCL	N3CL2048D	NUCLi4K	NUCLi7300
Sensor	No. of pixels	3 x 1049	3 x 2098	3 x 2098	3 x 2048	3 x 2048	3 x 4096	3 x 7300
	Pixel size	28 x 14 µm	14 x 14 µm	14 x 14 µm	14 x 14 µm	14 x 14 µm	9,3 x 9,3 µm	10 x 10 µm
	Sensor length	29,3 mm	29,3 mm	29,3 mm	28,7 mm	28,7 mm	38,2 mm	73 mm
	Sensitivity (V/(lux-s))	45~300	40~120	40~120	60~200	60~200	160	100~225
Data Speed	Line scan rate	13 kHz	11 kHz	11 kHz	9,5 kHz	9,5 kHz	14 kHz	7,5 kHz
	Data rate	-	-	-	20 MHz	20 MHz	70 MHz	60 MHz
	Output	3 x 15 MHz	3 x 25 MHz	3 x 25 MHz	1 x 20 MHz	-	3 x 70 MHz	3 x 70 MHz
	Video out	Camera Link	Camera Link	Camera Link	Camera Link	LVDS*	Camera Link	Camera Link
	Camera Link	1 Base	1 Base	1 Medium	1 Base	24 Bit	1 Base / Medium	1 Base
	Video output	24bit color digital	24bit RGB	30bit RGB	24bit	-	18bit x3 10bit x3(Medium)	10bit x 3
Features	Remote parameter control	Gain / Offset	Gain / Offset	Gain / Offset	Gain / Offset	Gain/Offset	Gain / Offset	Gain / Offset
	Special features	-	-	-	perfect color registration	perfect color registration	RGB Delay / Adjustable Flat Field correction	RGB Delay / Adjustable Flat Field correction
Optics	Lens Mount	Nikon F	Nikon F	Nikon F	Nikon F	Nikon F	Nikon F	M84.5
Technical	Power	12V DC	12V DC	12V DC	15V DC	15V DC	12 to 15 V DC	12 to 15 V DC
	Dimensions WxHxD(mm)	64x70x116	64x70x116	64x70x116	84x84x111	84x84x111	151x151x68	104x92x139
	Weight	470g	470g	470g	910g	910g	1200g	1000g
	Operating temperature	0~40 °C	0~40 °C	0~40 °C	0~40 °C	0~40 °C	0~40 °C	0~40 °C