

Sentech America
1345 Valwood Parkway
Suite 320
Carrollton, TX 75006
USA

Toll Free:
(877) 736-8324
Telephone:
(972) 481-9223
Fax:
(972) 481-9209

STL-5150/7400

Digital Line Scan Cameras



STL-7400RCL



STL-7400RCL
STL-5150UCL



The new STL-7400RCL is a very compact, low cost, accurate, high speed 7.4K line scan camera which features CameraLink® digital output.

Accessories

Cables

CAB-UFD3M
CAB-UFD10M

FEATURES

- HIGH RESOLUTION OF 5150 OR 7400 PIXELS
- 40 OR 100 MHZ HIGH SPEED VIDEO RATE LINE SENSOR
- DIGITAL CAMERA LINK® OUTPUT (MEDIUM CONFIGURATION 8 x 10 BIT)
- SMALL SIZE, LIGHT WEIGHT
- NIKON F LENS MOUNT

LINE SCAN CASED 5,150 AND 7,400 PIXELS CAMERALINK®



Model	STL-5150UCL	STL-7400RCL
Number of Pixels:	5150	7,400
Pixel Pitch:	7µm x 7µm	4.7µm x 4.7µm
CCD Effective Element Size:	36.05 mm	34.8 mm
Video Rate:	40MHz (Max)	100MHz (MAX)
Scanning Rate (Scan/Sec.):	7.45kHz	12.7kHz
Line Transfer Pulse Input:	134.2µsec (MIN) 100Ω terminated	79µsec (MIN) 100Ω terminated
Digital Video Output:	Base Configuration 2 x 8 bit	Medium Config. 4 x 8 bit
Sensitivity (V/Lux sec):	50	
Saturation Exposed (Lux Sec):	0.23 (On an Element)	0.13 (On an Element)
Lens Mount:	Standard: Nikon F (Option: Asahi K)	Standard: Nikon F-Mount (Option: Asahi K)
Dynamic Range:	Dynamic Range	2,000 (Standard, On an Element)
Output Uniformity:	Standard 3% at 50% Saturation (On an Element)	
Power Capacity:	+12V ± 0.5V (400mA)	+12V +/- 0.5V (600mA)
Dimensions:	64 (W) x 64 (H) x 80.3 (D) mm (2.56" x 2.56" x 3.21")	
Weight:	360g (12.7 oz.)	

Sentech America
1345 Valwood Parkway
Suite 320
Carrollton, TX 75006
USA

Toll Free:
(877) 736-8324
Telephone:
(972) 481-9223
Fax:
(972) 481-9209

STL-2048/5150/7450

Digital Line Scan Cameras



STL-5150UFD



STL-7450UFD

Sentech offers three line scan models, featuring 2K, 5K and 7K Sensors from 100 to 9,300 scans/sec

Accessories

Cables

CAB-UFD3M
CAB-UFD10M

Sentech has designed and manufactured line scan cameras on an OEM basis since 1988. In 2002, we introduced our line scan products under our own name for the first time. Our product offerings include state-of-the-art 2K, 5K, and 7K line scan cameras, which feature both analog and digital LVDS outputs. Sentech offers three models:

STL-2048FD 2K Line Scan Camera

- Two Signal Output: 10-bit Digital LVDS and Analog
- 2048 pixel, 20MHz linear sensor
- RS-644 input for driving clock and line transfer pulse signals

STL-5150UFD 5K Line Scan Camera

- Two Signal Output: 10-bit Digital LVDS and Analog
- 5150 pixel, 40MHz linear sensor
- RS-644 input for driving clock and line transfer pulse signals

STL-7450UFD 7K Line Scan Camera

- Two Signal Output: 10-bit Digital LVDS and Analog
- 7450 pixel, 40MHz linear sensor
- RS-644 input for driving clock and line transfer pulse signals

LINE SCAN CASED 2048, 5150 & 7400 PIXELS LVDS OUTPUT



Model	STL-2048FD	STL-5150UFD	STL-7450UFD
Number of Pixels:	2048	5150	7450
Pixel Pitch x Aperture:	14 x 14µm	7x 7µm	4.7 x 4.7µm
CCD Effective Element Size:	28.67mm	36.05mm	35mm
Video Rate:	10 ~ 20MHz	10 ~ 40MHz	
Scanning Rate (Scan/Sec.):	250 ~ 9,300 times	100 ~ 7,500 times	100 ~ 5,000 times
External Clock Video:	2:1	1:1	
Driving Clock Input:	Max.40MHz, RS644 100Ω terminal built in	10 ~ 40MHz, RS644 100Ω terminal built in	
Data Clock Input:	10 ~ 20MHz, RS644	10 ~ 40MHz, RS644	
Line Transfer Pulse Input:	0.11 ~ 4msec, RS644	0.133 ~ 10msec, RS644	0.2 ~ 10msec, RS644
Video Output - Analog:	0 ~ 2.5V 75Ω terminal		
Video Output - Digital:	RS644 Standard Based, (D0 ~ D9+, D0 ~ D9-)		
Sensitivity V/Lux Second:	100	50	
Saturation Exposed (Lux Sec):	0.06	0.125	0.08
Dynamic Range:	2000 (Standard)	5000 (Standard)	1300 (Standard)
Output Uniformity:	Max. 10% at 50% of Saturation Output		
Power Capacity:	+12V ± 0.5V, (450mA Output at No Load)		
Operation Temperature:	0°C ~ 40°C		
Operation Humidity Range:	85% Max.		
Storage Temperature:	-10°C ~ 65°C		
Lens Mount:	Nikon F		
Dimensions:	64(H) x 64(W) x 148(D) mm (2.56" x 2.56" x 5.82")		
Weight:	400g	500g	500g

2K, 5K and 7K Sensors from 100 to 9,300 scans/sec