

FEATURES

B/W or Color CCD



- Stand alone complete vision system
- Fully IP addressable
- Low power consumption
- Progressive scan CCD sensor technology
- 640x480 or 1024 x 768 pixels resolution
- Connection via Fast Ethernet 100 Mbps
- Optimized vision library
- Open system to port your own C application
- Intuitive graphical development environment
- Secure Digital removable storage media



Linux Available



Local storage on SD memory card

Typical Applications

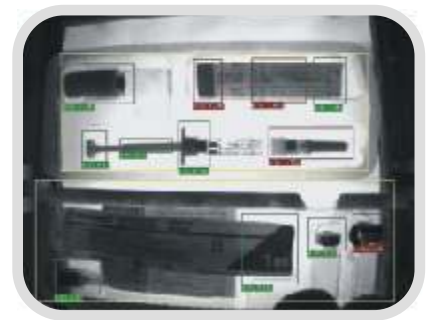
OCR/OCV



Inspection



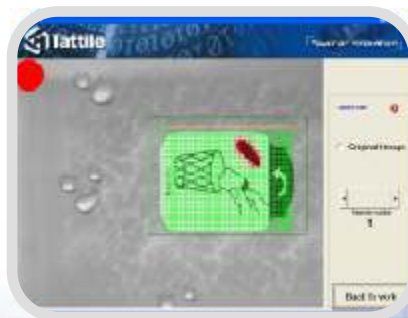
Blob Analysis



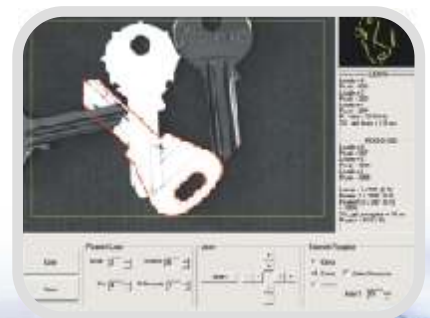
Color Analysis



Surface Inspections



Pattern Recognition



Smart Reader M1A

Powerful Intelligent Vision System

SOFTWARE FEATURES	
OPERATING SYSTEM	
Proprietary Tattile O.S. - TOS	Multitask Operating System for custom application
Linux	Real time Linux embedded
PROGRAMMING LANGUAGES	
Antares Explorer	Intuitive graphical development environment with optimized vision library
Ansi C	Standard C environment
ARM Assembler	ARM Assembler environment
COMMUNICATION	
Firmware Update	Updatable via Ethernet or serial ports
Data Exchange	TCP/IP, UDP/IP, RS232 or RS485
CUSTOMIZING TOOLS	
Custom Tool	Ability to add custom C functions to the standard Antares development environment with direct access to TIL (Tattile Image Library)
Custom Program	You can write a complete new C application program
Software Porting	Software team to support the porting of your new or existing applications



TECHNICAL FEATURES	
SYSTEM	
Microprocessor	Intel® XScale® @ 733 MHz.
FPGA	Field Programmable Gate Array Altera® APEX®
Analysis	Up to 30 Fps
Synchronization	External trigger without delay
Software	Antares engine or custom C program
CAMERA	
Sensor	BW or Color CCD
Acquisition	Progressive scan
Resolution	640 x 480 (VGA) or 1024 x 768 (XVGA) pixels
Frame rate	30fps @ VGA resolution; 15fps @ XVGA resolution
DIGITAL I/O	
Input	2 optoisolated inputs 24 Vdc
Output	3 PNP optoisolated outputs 24 Vdc
COMMUNICATION	
Ethernet 10/100 Mbps	TCP, UDP, FTP, HTTP
RS 232	1 line baud rate 1200:115200
RS 485	1 line half duplex baud rate 1200:115200
SD Interface	Supports all mass memories (transfer rate 1 MB/s)
ENVIRONMENTAL	
Operating Temp.	-10° to 50° C
Operating Humid.	10 to 90% non cond.
Storage Temp.	-20° to 65° C
Storage Humidity	10 to 90% non cond.
Power Supply	12 to 32Vdc ± 5% 5W
Package body	Anodized aluminum
Size / Weight	145 x 55 x 42 mm (L x H x W) - 175 g (only body)
Lens	C mount related to application
Protection level	IP 42



Standard connectors and slot for SD memory card



Multitasking
O.S. On Board



Smart Reader M1A (front view)
with C Mount support



Programming
Language

Distribution in the UK



Lambda Photometrics Ltd, Lambda House, Batford Mill, Harpenden, Hertfordshire AL5 5BZ

E: info@lambdaphoto.co.uk W: www.lambdaphoto.co.uk T: +44 (0)1582 764334 F: +44 (0)1582 712084

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