TELEDYNE DALSA
Everywhereyoulook™
Part of the Teledyne Imaging Group

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VICORE™ Vision System

Key Features

- Two-camera solution with PoE and integrated I/O drives down system cost
- Visible, thermal and 3D inspections
- Quad-core processor and supporting system resources for demanding applications
- Industrial Ethernet data port for efficient factory floor communications
- Choice of application software to suit user and application needs
- Full complement of vision tools and capabilities
- Remote access ready
- Small DIN mountable form factor consumes minimal cabinet space

Dual Camera Smart Vision System

VICORE is a dual camera vision system that combines with an assortment of Teledyne sensor and software technologies to deliver performance, flexibility and ease-of-integration for applications in industrial automation.

This versatile system offers excellent performance for inspection applications using traditional 2D imaging, thermal imaging, 3D imaging or a combination thereof. Its small, book style format consumes minimal cabinet space and provides convenient, front-accessible connections for cameras, I/O and System components. This includes a dedicated industrial Ethernet port that offers efficient communication with complementary factory devices using Ethernet/IP or Profinet.

Typical Applications

- Traditional inspection of parts or assemblies using one or two 2D area scan sensors
- Inspection of thermal features on assemblies using one or two IR sensors
- Height based feature measurements using one or two 3D profile sensors.
- Surface applications using one or two 2D area scan sensors combined with multi-segment lighting (Shape from Shading)

Deployment Configurations

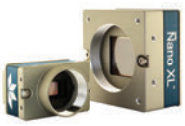
- Standalone with attached HDMI display and keyboard
- Remotely through LAN port. Project engineer can setup and maintain the solution using remote desktop on their PC

The Smart Choice

The VICORE system is sensor, factory integration and user friendly. Its built-in hardware and software features make it a smart choice for anyone looking for performance and flexibility in system design at an affordable price.

Supported Sensors

VICORE camera interfaces support the following Teledyne Sensor types:



Genie™ Nano	Calibir™	Z-Trak™
Wide range of low cost 2D area cameras featuring CMOS sensors from VGA to 25 Megapixel resolution.	Uncooled IR cameras are ideal for inspecting thermal characteristics on parts or assemblies.	Z-Trak is a series of 3D profile sensors that deliver high-resolution, real-time height measurements using laser triangulation.

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SPECIFICATIONS

Processor	Type	1.8 GHz quad-core x7-E3950
Memory	Program	4 GB @ 1866 MHz
	Storage	32 GB
Software	OS	Win10 IoT
	Application	iNspect (-03 model)
		Sherlock 7 (-04 model)
		Sherlock 8 (-04 model)
Camera Ports	Interface	2 x GigE with PoE
I/O	General Inputs	8 + 2 common pins
	Camera Inputs	1 Trigger per camera
	General Outputs	8 + 2 common pins
	Camera Outputs	1 Strobe per camera
	LED Status	1/0 + 3 user defined
	Encoder	1x A, B & Z
Industrial Network	Hardware Port	1 x 10/100 BaseT
	Protocols	Ethernet/IP & Profinet
Communications	Ethernet	1 x GigE multi-use
	USB2	2 Ports
	USB3	2 Ports
	RS232	1 Port
Display	HDMI	1 Port
Power	Type	24 VDC @ 2A
	Connector	3 pin Header
	Reset	Recessed button on side panel
Enclosure	Type	Painted Aluminum
	Cooling	Passive Heat Sink
	Mounting	DIN

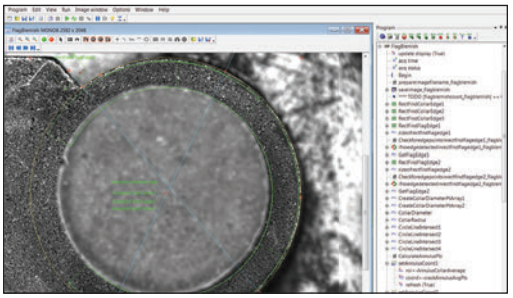
SOFTWARE CHOICES WITH SENSORS

Sensor	iNspect	Sherlock 7	Sherlock 8
Genie Nano	Yes	Yes	Yes
Calibir	Yes	Yes	Yes
Z-Trak	No	No	Yes

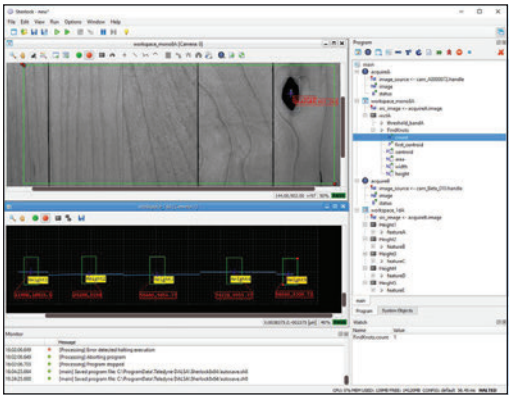
Choice of Application Software

To maximize user and application reach, VICORE offers choice of embedded application software.

New users, or users of Teledyne smart camera technology, can be up and running in minutes with **iNspect's** easy-to-use interface.



For users that need additional flexibility or customization, our flagship **Sherlock 7** software is loaded and ready for action.



For users looking to measure height features using 3D profile sensors, our brand new **Sherlock 8** software is up to the task. Sherlock 8 expands on Sherlock 7 capabilities and offers improved ease-of-use. Sherlock 8 also supports 2D and thermal sensors for mixed applications.

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