

V-STARS/N

Picture Perfect Measurements

A comprehensive range of 3D measurement systems to suit any budget and application

The **V-STARS/N** systems from Geodetic Systems, Inc. (GSI) are a comprehensive range of turnkey digital photogrammetry solutions.

Platinum

Our most accurate and flexible offering

Pt

Gold

Offers accuracy and functionality at a reduced cost

Au

Silver

A work horse for less demanding accuracy requirements

Ag



The lightweight, highly portable **V-STARS/N** cameras have been modified and ruggedized for reliable, high-accuracy, 3D measurement even in the most difficult conditions. Each offering comes with GSI's unparalleled **V-STARS** software and our total commitment to customer support.



V-STARS/N retains the inherent advantages of photogrammetry:

Immune to vibration and movement so it can be used where other technologies cannot

Works from lifts, cranes and unstable platforms so it can see and measure what others cannot

Fast picture taking and no warm-up time so measurements are quick and production downtime is minimized

Small and portable so it goes practically anywhere, including into tight places where others cannot go

V-STARS/N's accuracy, portability and ruggedness make it well-suited for a wide variety of applications in many industries. Typical applications include:

Part and tool inspection

In difficult conditions and with minimal production downtime

Antenna Inspection

Day/night, hot/cold, of practically any size and in any orientation

Automotive periodic tool inspection and troubleshooting

During breaks and even on moving lines

Shipbuilding fit-up, alignment, piping and inspection

Outside/ inside and even on the water

Heavy engineering bridge blocks, part fit-up and conformance

Practically any size, in any conditions

Wind energy tower flatness, blade and spar measurements

In the factory or in the field



V-STARS/N

1 Custom Calibrated Lens

GSI's proprietary methods and calibration produce a lens that is both rugged and highly accurate.

2 Robust Design

GSI's custom modifications include a unique lens guard with self-closing cap. Together they surround the lens (without touching it) so it is protected from practically any hit or hazard.

3 Protected Internal Flash

Thanks to GSI's advanced techniques, the **V-STARS/N** systems deliver high-accuracy using the cameras built-in flash so, in most situations, a bulky, cumbersome and battery-hungry external flash is not needed.

4 Easy to Use

The **V-STARS/N** systems are ready to shoot straight out of the box. With its focus, flash, aperture and shutter preset for most situations, the user only needs to "point and shoot". Images can be reviewed on the camera's large, bright LCD screen, and can be saved to disk or transferred via the optional wireless interface (802.11g).

5 Portable

Every **V-STARS/N** system (camera, notebook, accessories) can be carried as on-board luggage so it can go anywhere in the world with you. The camera is also small and lightweight so it is ideal for working in confined spaces.

- 1 Custom Calibrated Lens
- 2 Lens Guard
- 3 Self-closing Lens Cap
- 4 Integrated Flash
- 5 External Flash
- 6 TTL Viewfinder
- 7 LCD Screen
- 8 Disk Insert
- 9 Comfort Handle
- 10 Optional Wireless
- 11 Camera Settings Protection



Feature	Camera System Model		
	Platinum	Gold	Silver
Accuracy ¹	5µm + 5µm/Meter	5µm + 6µm/Meter	5µm + 7µm/Meter
Resolution	45 million pixels	24 million pixels	24 million pixels
Field-of-View	Ultra-Wide (74x53°)	Ultra-Wide (74x53°)	<u>Very-Wide (67x48°)</u>
Rated Shutter Life	200,000 pictures	150,000 pictures	100,000 pictures
Weight ²	~1.8Kg/4.0 lbs.	~1.4Kg / 3.1 lbs.	~1.0Kg. / 2.3 lbs.

¹ Conditions for meeting accuracy specification:

- 1) Targets are of acceptable size and good quality.
- 2) Each target is seen in at least eight pictures with good geometry.

² Standard configuration -

Camera with lens, flash, battery, handle, and all protections (Lens Guard, Camera Shield).