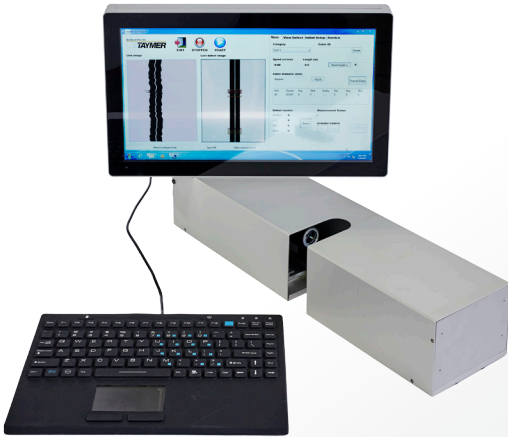


## High Speed Diameter Measurement and **Lump/Neck-Down** Gauge for **Bare Wire and Fiber**



### › Images of Lump and Neck-Down Defects

The High-Speed Lump and Neck-Down Inspector is the only tool that can provide images of your lumps and neck-downs on: Bare Wire and Fiber. This is critical in assessing whether a measured diameter variation is in fact a defect and whether action must be taken. Your technical staff won't have to rewind miles of product to try to locate a defect. They can use Taymer's image viewing software to analyze and diagnose any detected defects.

### › Accurate, Multi Axis Diameter Measurement

The High-Speed Lump and Neck-Down Inspector also provides you with very accurate, Multi-Axis diameter measurements. This diameter information can be integrated with other machinery in your line for complete automation of your line processes.

The High-Speed Lump and Neck-Down Inspector's display also makes it easy for engineering and production supervisors to examine the outer surface of your product as it is being extruded.

### › Quality Assurance

The High-Speed Lump and Neck-Down Inspector will capture images of your cable defects, save them to disk so you can print them out to include in your quality reporting both internally and to your customers. Defect locations are recorded together with the image of the defect allowing your operators to find and eliminate lumps and neck downs before they reach your customers or fail in the field.

With Taymer's High-Speed Lump and Neck-Down Inspector, you can be sure the product going to your customers meets your high standards.

## FEATURES

- › Detects, bulges, neck-downs, lumps, on bare wires, fiber, and other small diameter products.
- › Diameter variations as small as 1 $\mu$ m can be identified
- › Supports line speeds up to 3000 meters per minute
- › Alerts operator and production machinery if a defect is detected
- › Available in either 1 or 2 axis configurations
- › Saves length information for each defect to allow operators to easily locate the defects after detection
- › System analyzes diameter for the full product length
- › Utilizes intense LED backlighting to create sharply defined wire edges
- › Generates a PDF report that contains diameter and defect information for the whole run



# SPECIFICATIONS

## > Maximum Line Speed:

3,000 m/min | 9,800 ft/min  
Exact max speed will depend on specific application

## > Detectable Diameter Variation (+/-):

1µm (Exact dimension depends on application and camera configuration)

## > Defect Length Along the Cable:

At 3000 meters per minute, the minimum defect length that can be detected is 0.3 mm. Smaller defect lengths can be detected at lower speeds

## > Number of Measurement Axes:

1, 2 or 3 axis configurations are available

## > Pixels per mm : ~300 for most applications

## > Weight: 10 kg | 22 lbs.

## > Dimensions:

Without stand: (Custom stands can be built)  
500 mm x 125 mm x 125 mm - L x W x H  
20" x 5" x 5" - L x W x H

## > Location:

Can be positioned anywhere in-line. Typically located on wire drawing line, draw tower or rewinding line

## > Image Processing:

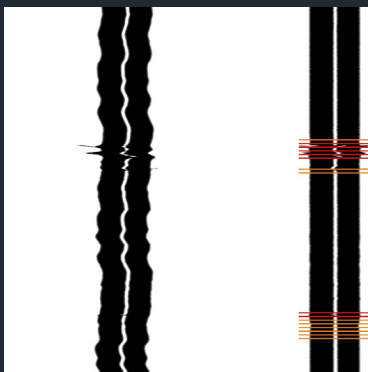
All images from all cameras are read, enhanced and analyzed, resulting in 100% product coverage at the maximum line speed

## > Type of Defects Detected:

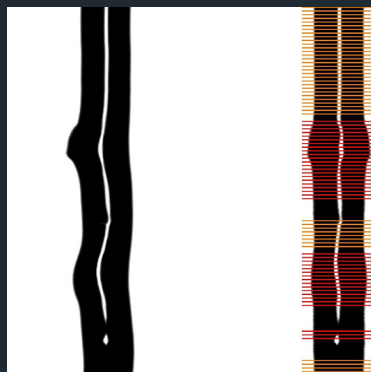
Neck-downs, Bulges/Lumps, Diameter changes

## > Lighting: LED

## > Power Supply: 110V or 230V, 50/60Hz

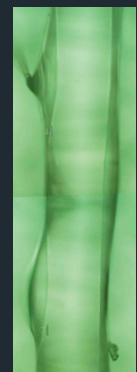


2000 meters / minute



200 meters / minute

Detected defects on fiber at production line speed, compared with microscope image off-line



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