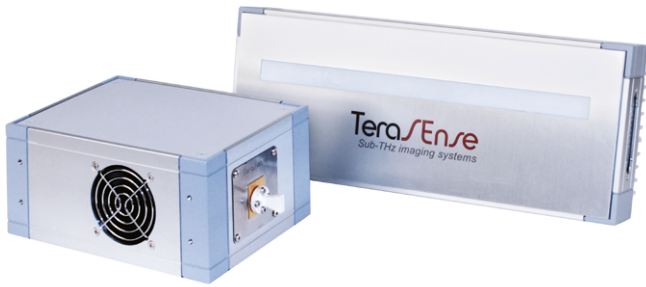


# HIGH-SPEED LINEAR 300 GHz SCANNER

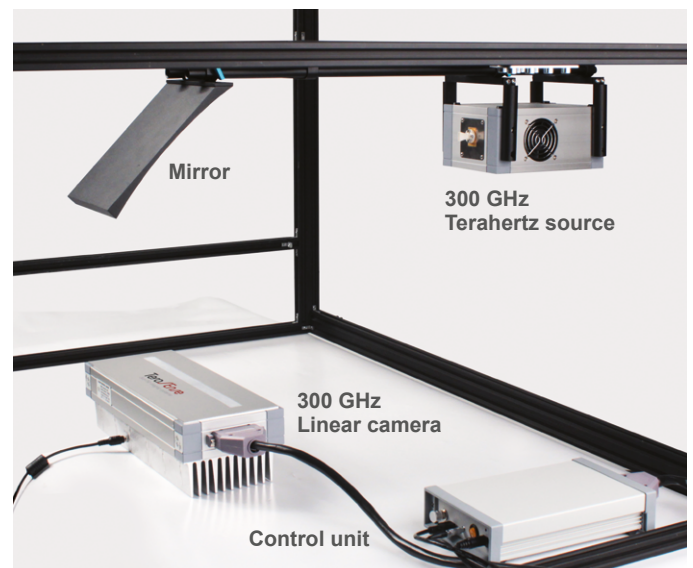


- ✓ 300 GHz imaging technology
- ✓ Image resolution: up to 1 line/mm
- ✓ Image acquisition rate: up to 5 kHz
- ✓ Number of pixels (scalable): 256x1 / 512x1
- ✓ External frame synchronization (encoder input)

The 300 GHz linear scanner is our next step forward in high-speed terahertz imaging. The scanner features unprecedented spatial resolution and high imaging speeds, which helps you find otherwise invisible problems faster than ever. Use TeraSense scanners to inspect hidden defects or for non-destructive testing in a wide range of industries. Quality control, security checks, or detecting water presence has never been faster and safer.

The 300 GHz linear scanner consists of a camera unit, a camera's controller / interface unit that can be customized by OEM developers, a 300 GHz source, and a THz optical system. Each of the camera's pixel specs is optimized to ensure the maximum sensitivity at 300 GHz.

The devices are compact and can be easily integrated into any conveyor system. Its enhanced construction with a separate control unit and customization options allow greater flexibility for OEM developers.



## Advantages

- No ionizing radiation
- Extremely high image acquisition rate
- Ease of integration into industrial process
- CE Certification of compliance
- Plug-n-play design and customized solutions
- Affordable solution

## Specifications

<b>Number of pixels:</b>	256 x 1 / 512 x 1
<b>Pixel pitch</b>	0.5 mm
<b>Image acquisition rate</b>	up to 5 kHz (5000 fps)
<b>Imaging area</b>	128 x 0.5 mm / 256 x 0.5 mm
<b>Sync Out, Sync In</b>	TTL (+5V)

The camera has both internal and external synchronization features. The internal synchronization can operate with an externally modulated source to reduce the noise and improve image quality.

A long-awaited external synchronization feature allows the camera to shoot frames at precisely determined intervals. Its combination with an external encoder makes it possible to automatically comply with different conveyor belt configurations.

Our innovative TeraSense technology helped us overcome a price barrier, now making our scanners available for small businesses.

<b>Dynamic range</b>	200
<b>Dimensions, camera</b>	189 x 128 x 80 mm / 320 x 130 x 90 mm
<b>Dimensions, control unit</b>	205 x 125 x 40 mm
<b>Included software</b>	TeraFAST® Viewer C++ SDK, LabView SDK
<b>Power supply</b>	24 V, 40 W