

## IDS camera UI-1221LE ensures suitable clothing

Amy does what many women are fond of doing: She likes to go shopping, but rarely finds clothes that really suit her and fit her well. This problem has been solved by a "3D body scanner" with IDS cameras. As a boardlevel version, the inexpensive UI-1221LE camera is compact and lightweight, making it the ideal solution for this portable multi-camera application.

### Why is our USB 2 uEye LE camera in use?

"Previously, our 3D scanner was very hard to transport from one place to another," says Yuji Nishio, Leader of Technical Design Department at Space Vision, "so we always had disadvantages compared to portable systems and could not help all the people who wanted to know their exact body measurements."

Therefore, the company for 3D scanning decided to develop its own system of compact size and light weight. IDS camera [UI-1221LE](#) is part of this development.

Result: the world's first 3D scanner for measuring bodies that can be easily transported without any effort.



Amy stands still while her body dimensions are measured.

## 3D scanning with IDS UI-1221LE cameras

### How does 3D scanning work?

A special projector casts a red-colored streaky pattern to the human body. According to the body surface the streaky pattern becomes a light beam, the so-called twist. The camera captures that twist which correlates exactly with the shape of the human body and analyzes the images to get the 3D shape within two seconds.



Without projector



With projector

### What are the reasons to use cameras of IDS?

“The cameras are very suitable for our application,” says Yuji Nishio, “and we appreciate the flexibility of the IDS support. We needed slight modifications to the connector, which have been implemented by IDS without any problems. Especially for us, IDS provided additional features in the uEye API.” Space Vision also uses the IDS Cockpit to adjust individual camera parameters and to check images right after that set-up.

“We are very glad to have found such a compact camera like the UI-1221LE,” says Yuji Nishio, “it is of high quality and very good value compared to other camera manufacturers.”

Even Amy is glad, that she gets tailored clothing much easier due to 3D scanning with IDS cameras.

## 3D scanning with IDS UI-1221LE cameras

### At a glance

Name	<a href="#">UI-1221LE</a>
Family	LE
Interface	USB 2.0
Sensor type	CMOS
Manufacturer	Aptina
Frame rate	87,2 fps
Resolution	752 x 480
Shutter	Global Shutter
Opt. class	1/3"
Resolution class	0.36 MPixel
IP code	No
HDR	No



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### Client

Spacevision Inc., Japan  
<http://en.space-vision.jp/>



### Application

3D scanning