



JUKI

JUKI CORPORATION

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JUKI Releases 3D AOI, RV-2-3D New 3D Head Unit with High Speed and High Accuracy.



JUKI will release New AOI "RV-2-3D" for wild worldwide market at November,22,2016. RV-2-3D is one of RV-series, and it has Three-dimensional inspection function

RV-2-3D use for inspect print circuit board on electric equipment. Recently, electronic equipment became small, circuit boards become high-density, inspection machine for high quality judgements need inspect by three-dimension.

RV-2-3D has original 3D head unit, and 34% speed up from previous model.

3D inspection by phase shift method, which is project line image to components and calculate height. New 3D head unit has 4 DLP(digital light processing) projectors on 4 different angles, and possible to high quality measurement by 32 projection images. And also we developed new image operation board for accelerate projection and image operation.

Then, RV-2-3D has world top class speed. 22cm³/sec

In addition, we have many kinds of options for customer various needs, UV light option for UV coating inspection,

Inspection data share option for customer who has multiple AOI, TOPSS(Total operation system) can be realized labor saving and brought you high quality management through central operation of defective

judgement, repairing assistance of repair station, quality traceability, SPC.

JUKI propose “JUKI Smart Solutions”, it assist not only for SMT, assist to automatize the production, reducing the labor and productivity by systemize all factory equipment and networking.

◆ Features

(1) High accuracy 3D inspection by new 3D head unit.

Projecting by DLP method type which is averable to project clearer line image without blur and better than other method type like piezo, liquid crystal, and high responsibility of change images.

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(2) World top class 3D inspection speed

Inspection speed is 22cm³/sec by use high frame late Camera(140frame/sec) , original high speed image operation board, and high speed DLP projectors.

(3) High accuracy inspection by new 3D inspection algorism

Developed “Shape comparison Method” for 3D inspection. It averable easy create the program and high accuracy inspection for solder volume check und lead lift up check. (Patent pending)

(4) Long life and low power consumption of DLP projector.

Reduce running cost by use DLP projector, it long life(approx. 100,000Hr) and low power consumption.

◆ Release date

22th Nov.2016