

SMT Online AOI Machine I.C.T-V5000H



Introduction:

For SMT pre-reflow, post-reflow inline inspection

Granite platform, greatly improve machine precision and stability

Programmable RGB+W LED lighting source

Telecentric lens with constant magnification and low distortion response to high compone

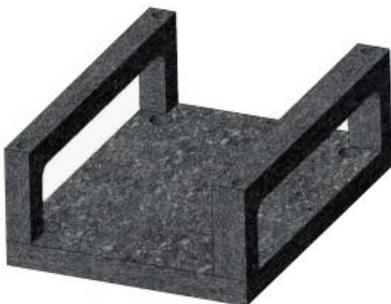
Features:

- 1.LOG automatic collecting and storage function,NG warning/alarm function, Remote programming&debugging.
- 2.Inspection ability:insufficient,short,slodering hole,solder covering pin,contamination,misalignment,missing part,skewed,billboard,mounting on side,overturn,wrong part,damaged,float,polarity,pseudo soldering,empty solder,excessive glue etc.
- 3.Perfect SPC collects NG information off line and generates all kinds of production tables automatically.
- 4.Mature control center function,clear software interface.
- 5.Good stability(GR&R<10% @6 Sigma,CPK>1.33(Test deviation accuracy less than $\pm 0.25\text{mm}$).
- 6.Camera move,conveyor fixed during test.
- 7.PCB warpage compensation:total Mark compensation calibration,component position frame compensation.

Advantage:

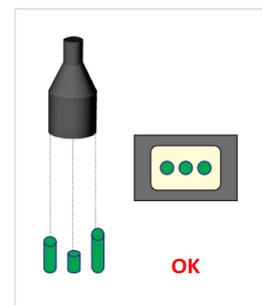
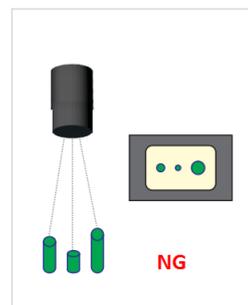
Granite Platform and Frame

Ensure the stability of the equipment and the consistency of sharing program between machines



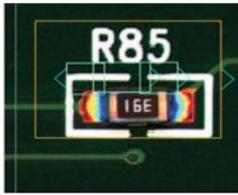
Industrial camera+Telecentric lens

The high component solder joint inspection is not affected as no shadow effect in the entire field of view.



Entire FOV Assist Position

High detection ability on no exposed pad components(BGA,etc.)or partially shielded components



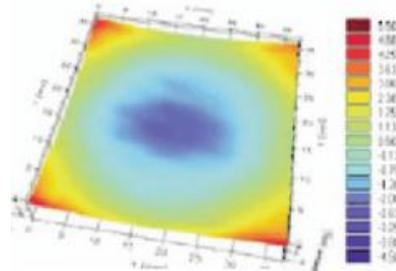
▲ Before positioning



▲ After positioning

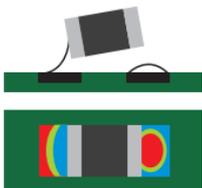
PCB Warpage

Solder pad position able to reduce high false call due to deformation of PCB after reflow ,especially for FPC

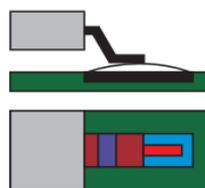


Poor Soldering Inspection

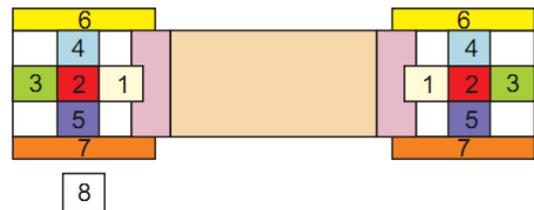
Based on precisely positioning on the solder pad,the features points of the entire solder pad will be analyzed,Therefore,the poor solder of chip or IC can be effectively detected.



Chip no wettability



IC no wettability



- Accurately positioning pad
- Analysis 8 feature points

The shape of no wettability

Specification:

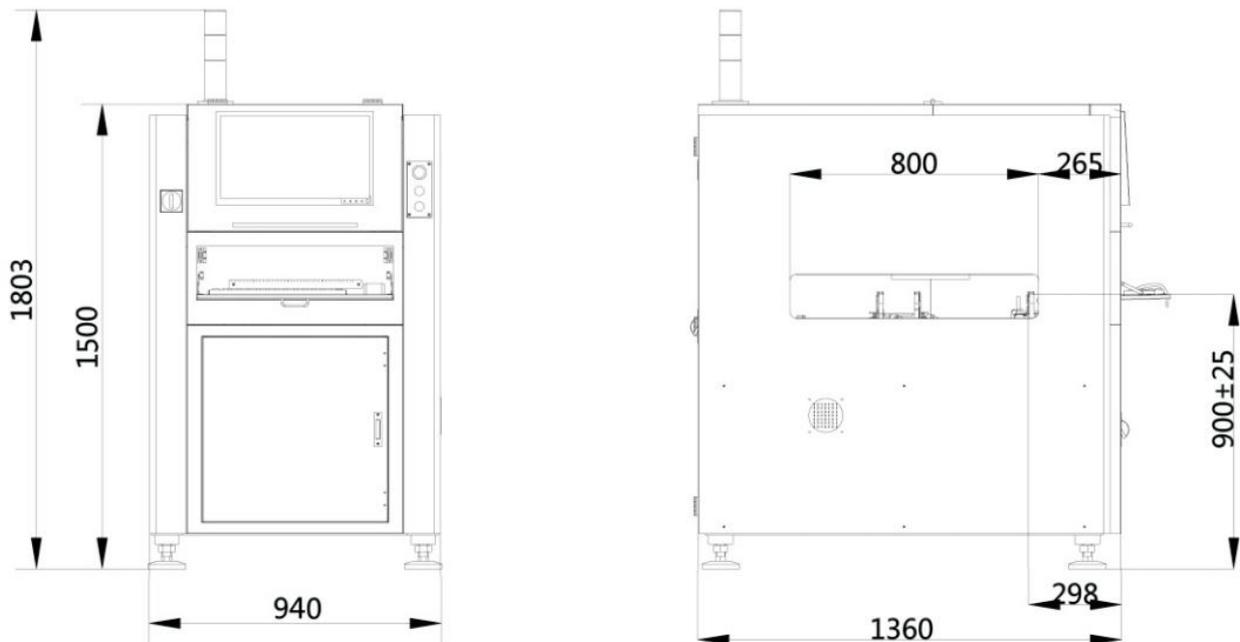
Model	I.C.T-V5000H
FOV	15u(36*30mm)/10u(24*20mm)
Camera	5M pixel intelligent digital industrial camera
Lens	Telecentric lens
Light	4 color ring LED light,RGB+W
Inspection Item	Component test,soldering test
Mini Component	01005chip,0.3pitch IC and Special shaped
Operation System	Windows 7
PCB Size	50*50~510*600mm
PCB Thickness	0.3 ~ 6.0mm
PCB Warpage	± 3.0mm
PCB Weight	Max:3Kg
PCB Height	Top:25mm,Bottom:45mm adjustable
Conveyor Height	900± 20mm

Conveyor Direction	L ~R or R ~L
X/Y Driver	AC servo driver,repeat accuracy 0.01mm
Platform	Granite
With Adjustment	Auto
Power	AC220 50/60Hz,5A
Compressed Air	0.4 ~ 0.6Mpa
Communication	SMEMA
Weight	750Kg
Dimension	940*1360*1500mm(excluding the light)

Customers:



Body Size:



Thanks for choosing I.C.T.
I.C.T looks forward to win-win cooperation.