IDStone Capture

Computer Vision applied to natural stone companies

IDSTONE CAPTURE: PHOTO CAPTURE SYSTEM FOR NATURAL STONE SLABS, REAL TIME,AT THE END OF THEPRODUCTION PROCESS. SUITABLE FOR PRODUCTION LINES OF MARBLE, GRANITE AND OTHER NATURALSTONES

IDStone SGA incorporates an advanced system for image capturing in real time, transcending the limitations of conventional photography: IDStone Capture. IDStone´s exclusive image capture technology allows, at the end of the productive process, to take pictures slab by slab and to integrate each image, unequivocally, with their corresponding registry of stock, facilitating, at the same time, information queries, real time, from any other module of IDStone (IDStone Office, B2B). Based on the last computer vision technology, the procedures of IDStone Capture have been adapted to meet the needs of the industry producing marble slabs tables or granite slabs mainly, although its use can be extended to other kind of products.

Main Features

- Image capture of slabs or tiles.
- Configuration profiles by material or set of materials.
- Automatic capture of pieces' IDs (barcode lables, RFiD lables) .
- Association of the image to the corresponding register of stock (slab by slab, bundle or block).
- Association of attributes (quality, measurements, etc).
- Manual measurement directly on the captured images.
- Watermarks (id, company, etc.)
- Different algorithms for the automatic processing of the images captured .
- User interface developed specifically for touchscreen terminals .
- Communication with IDStone Server.

Related modules

- **IDStone B2B**: It is the online sales portal and customer relationship management of IDStone SGA. Connected with IDStone Server, it publishes on the Internet the stock and the real picture of each slab, the defining characteristics of the product (material, size, quality, finish , etc.).
- **IDStone Reader**: Provides the automatic identification of the image (in association with a stock register), by decoding the bar code built on the natural stone slab from the main image or secondary image cameras that can be achieved complementary.
- **IDStone Quality**: From the pictures of the slabs captured by IDStone Capture, this module allows the manual sorting of tables by a qualified operator from the office. It also allows the measurement of the useful area (trade meas-

ure), being this method faster, accurate and effective than the traditional classification or measure processes in the plant.
- **IDStone Server**: It is the engine, the "core" of IDStone SGA. It's the environment for storing, orderly, large amounts of information and manages the communications with the other system modules..
- **IDStone Office**: It is the easy to use user interface to access and to manage the information that the system stores. Its advanced data presentation technology allows the users to group, filter by any column or customize your views..
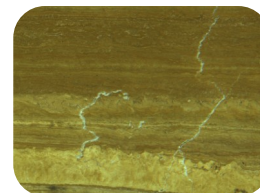
Technical features

Vision system	
Sensor	Color 3 CCD for optimal image quality, providing true color RGB
Resolution	2048 pixels for each line that makes up the image
Pixel size	14 µm x 14 µm
Maximum line speed	9.2 kHz
Data format	8 ó 12 bits selectable
Protection	Camera housing IP30. Closet IP65. Ventilation IP54
Operating temperature	Max 50ºC
Input/Output	3 input / 2 digital output
Lighting system	LED technology

Control terminal, checkpoint	
CPU type	CPU industrial fanless and no internal cabling (cableless).
Processor	Intel Atom Dual-Core D510 / 4 x 1.67GHz processes
Memory	2 GB DDR2 SDRAM built-in
Storage	2.5" SATA HDD
Ports	6 USB, 8 COM, 2 Mini PCIe, 2 Ethernet 10/100/1000 Base-T RJ-45
Protection	IP40
Working temperature	IEC 60068-2-2 with 100% load CPU: -10 ~ 70° C (14 ~ 158° F)
Operating system	Windows XP , Windows Vista Windows 7. WXP Embedded WES 7
Monitor	Industrial 17" SXGA color TFT LCD, resistive touch screen front NEMA4/IP65
Barcode reader	Linear-imaging technology, wireless, industrial IP54, battery 16 hours
Control cabinet	(Optional) Industrial control cabinet IP54 with drawer. Dimensions 650 x 600 x 270 mm

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Your warehouse with IDStone

IDStone SGA

IDStone Capture