Ikegami image





HUNGRYFOR DETAILS

IKEGAMI IS A LEADING MANUFACTURER of specialized cameras, image processing and transmission equipment. Ikegami was founded in 1946 in Tokyo, Japan. Today around 800 employees are working in 3 factories and 9 sales and service organizations all over the world.

Ikegami has consistently created the most advanced products in all image processes, namely image, transmission, processing, recording and display. Ikegami Electronics (Europe) GmbH in Neuss, Germany, was founded in 1970 and it is the sales and service organization for Europe and Africa.

Ikegami has an office in the UK, a regional office in Dubai and works with distributors, system integrators and dealers throughout Europe, Middle East & Africa.

EMMY AWARDS



- 1981 Development of Digital Computers for automatic adjustment of colour studio cameras
- 1983 Development of the EC-35 Electronic Cinematography Camera
- 1994 Development of Skin-Tone Detail, Edge Control Enhancement Technology
- 2010 Development and Production of Portable Tapeless Acquisition

MEDICAL SYSTEMS

60 ULTRA HD CAMERAS 4K

- 60 NEW MKC-750UHD | 3CMOS 4K Medical Grade Camera
- 61 NEW MKC-704KHD | 3CMOS High Sensitive Full-HD Medical Grade Cameraa
- 62 PRELIMINARY 4K | Native 4K single chip Medical Grade Camera

63 FULL-HD CAMERAS

- 63 MKC-700HD | 3CMOS High Sensitive Full-HD Medical Grade Camera
- 64 MKC-310HD | 3CMOS Full-HDTV Medical Grade Camera
- 65 MKC-210HD | 1CMOS Full-HD Medical Grade Ultra Compact Camera

66 CAMERA ADAPTORS

66 NEW CFA-400 Series | Surgery Microscope High Resolution Adaptors for 3 chips Full HD/4K Cameras

67 FULL-HD RECORDER

67 MDR-600HD | Medical Grade Digital Video Recorder

68 LCD COLOUR MONITORS

- 68 PRELIMINARY MM MLW-2750UHD | 27-inch 4K Multi-Format high Luminanse LED Colour Monitor
- 68 PRELIMINARY MM MLW-3110U | 31-inch 4K LED Colour Monitor
- 69 NEW MLW-2627C-DC | 26-inch Full-HD 3G Multi-Format high Luminanse LED Colour Monitor
- 69 NEW MLW-2627C-3D | 26-inch Full-HD 3D LED Colour Monitor
- 70 MLW-2624C-DC | 26-inch Full-HD 3G Multi-Format LCD Colour Monitor
- 70 MLW-2424C-DC | 24-inch Full-HD 3G Multi-Format Gamut LCD Monitor

- 71 MLW-3225C | 32-inch HDTV/SDTV Multi-Format LCD Colour Monitor
- 71 MLW-3225C-3D | 32-inch 3D HDTV/SDTV Multi-Format LCD Colour Monitor
- 71 MLW-2150HD | 21.5-inch Full-HD 3G Multi-LED Monitor
- 72 Monitor Comparison Table

73 ACCESSORIES FOR MEDICAL SYSTEMS

SECURITY SYSTEMS

76 FULL-HD CAMERAS (HD-SDI)

- 76 ISD-2500HD | Ultra High Sensitivity CMOS Colour Single-Chip HD-SD Camera
- 77 ISD-220HD | Full-HD Wide Dynamic Range Camera

78 IP NETWORK HD CODEC

- 78 IEN-200HD | HDTV/SDTV Network Video Encoder
- 78 IDE-200HD | HDTV/SDTV Network Video Decoder

79 HIGH PERFORMANCE DAY/NIGHT CAMERAS

- 79 ICD-809P | 1/3-inch High Resolution & Performance True Day/Night Camera
- **79** ICD-879P | 1/2-inch High Resolution & Performance True Day/Night Camera

80 FLAT SCREEN MONITORS

- **80 ULE-217** | Full-HD 21.5-inch Security Surveillance TFT Monitor with HD-SDI
- **81 ULM-193** | 19-inch Security Surveillance TFT Monitor
- **81 ULM-173** | 17-inch Security Surveillance TFT Monitor

81 ULM-153 | 15-inch Security Surveillance TFT Monitor

INDUSTRIAL SYSTEMS

84 INSPECTION

- 84 TIE-Series | Colour Visual Tablet Inspection Equipment
- 85 **POIE-Series** | Colour Powdered / Granulated Medicine Inspection Device





TIE-Series TIE-Series

By adopting the newly developed optical system A.I.I., the TIE-9000 series has the capability of inspecting tablet for diffuse stains, printing defects, and many other defects with a high degree of accuracy. The new developed high quality color line sensor is equipped with the camera unit. Also, combined the high quality image processing technology, the detection accuracy of color stain is significantly improved. The TIE-9000 series can contribute greatly to improving product quality, consistency and safety, as well as helping to improve overall production efficiency.

- · RGB Colour line sensor
- Colour processing technology allows diffuse stains and printing defects to be easily detected
- High accuracy detection of small defects, foreign matter and fiber in or attached to the tablet
- Extensive supply of tablet
- Feeding section
- Stable high-speed transportation by 2 rows belt transportation section
- High speed and stable supply
- · Colour touch panel

Colour Visual Tablet Inspection Equipment

- Operate while Checking Transportation Section
- Display Sample on Touch Panel

Easy Setting of pre-set Threshold (Option)

- Camera for High Accuracy Inspection (Option)
- Process Data Store in PC connected to LAN

RATINGS/PERFOMANCE			
Applicable Tablets		Plain tablet, Film-coated tablet, Sugar-coated tablet, Irregular-shaped tablet (Division-lined tablet, Engraved tablet, Printed tablet <oneside both="" sides="">)</oneside>	
Applicable Sizes	Shape	[Round tablet] 5mm to 12mm,[Irregular-shaped] length max. 21mm	
	Thickness	2mm to 8mm *Other sizes may be applicable with customer's requirement	
Colour		White color to Dark Brown color	
Inspection Items	Front/Back/Sides Inspection	Stain, Printing smudge, Printing blur, Chipping, Cracking, Deformation, Color stain, Discoloration, Color difference, Printing color difference, Hair, Fiber	
Inspection Accuracy	curacy Front/Back/Sides 50µm or larger corresponding to black spot		
Processing Capacity	TIE-9000	Max 250,000 to 300,000 tablets/hour, *Depends on the shape and size of tablet.	
	TIE-9500	Max 500,000 to 600,000 tablets/hour, *Depends on the shape and size of tablet.	
Lighting	Standard Inspection	Lighting method: High brightness LED diffuse illumination(optical diffusion bulit-in reflective plate), Light intensity adjustment function, Life estimated: more than 30000h	
	Special Front/Back Inspection	Lighting method: High brightness LED oblique direct illumination,Light intensity adjustment function, Life estimated: more than 30000h	
Camera	Standard Inspection	High sensitivity color line sensor, lense: F=2.8 f=52mm, Scanning method: one axis self-scanning method	
	Special Front/Back Inspection	High sensitivity color line sensor, lense: F=2.8 f=52mm	
Judging Process		Real-time parallel processing method	
Power	Power Requirement	Three phase AC200V ±10% 3Φ 50Hz/60Hz, more than 5KW [TIE-9000] (Inside the inspection equipment, AC200V/210V/220V is selectable at transformer tap)	
	Power Consumption	TIE-9000: Less than 3kW	
	Connection	Terminal block: M6 screw R/S/T/FG 4terminal	
Air	Pressure	More than 0.5Mpa	
	Consumption	Approx. 400 liter per minute	
	Connection Caliber	High coupler socket (400SH,NITTO KOHKI), Inspection equipment side: 400PM NITTO KOHKI	
Operating Temperature		+20°C to +30°C	
Operating Humidity		30% to 70% (non-condensing)	
External dimensions		Approx. W1780 x H1751 x D1060 mm	
Weight		Approx: 1400kg	
Option		3D inspection, Block removal function, csv support, Powder removal system (SUS spec., coating spec.), Printing software, Operation management system, Setting of Sensitivity support function, Simulation Function	

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POIE-Series



The POIE-8000C Colour Powdered/Granulated Medicine Inspection Device combines the colour processing technology developed for tablet inspection equipment with technology for screening powdered and granulated medicines for impurities, thereby boosting the precision with which coloured foreign matter can be detected. This new device also allows for certain colours to be specified for the detection of foreign matter that colour. The device also comes equipped with a "linear feature extraction processing function", which facilitates the high-precision detection of fine fibers and hairs. With this new equipment wcomes a marked increase in processing capacity thanks to the wide inspection conveyor belt that provides a stable, constant supply of sample material and the five-speed conveyor belt action (top speed is approximately 18m/minute). In addition, the exclusion mechanism employs a reliable rotary nozzle system. This ensures that accurate pinpoint suction is provided only around the foreign substance, thereby boosting the recovery ratio of quality product.

Colour Powdered/Granulated Medicine Inspection Device

- Max. Output: 200kg/h
- 5000 Pixel RGB Colour line sensor/
 20 µm resolution
- Detect fiber/hair/foreign material
- Colour processing
- Fiber lighting for uniform and high intensity illumination

- Stable and constant feeding with 2nd transfer unit
- Spot vacuum with rotary nozzle system
- Spot vacuum with rotary nozzle
- Correct rejection control
- Easy operation with touch panel
- Detection image memory

RATINGS/PERFORM	ANCE	
Applicable Particle		Powder, Fine Granule, Granule etc., Coloured
Inspection Throughput		20 to 100 kg / hour
Inspection Objects		Black or coloured foreign particle of over 40 to 60 µm (diameter) Black or coloured fiber and hair of over 30 µm (diameter) x 3 mm (Inspection accuracy depends on inspection throughput and object)
Transport Section	Transport Belt / Speed	1 row /Approx. 9 to 18m / minute (5 steps selectable)
	Transported Particle Thickness	Step Gain :-6, -3, 0, +3, +6, +9, +12 dB
	Inspection Area	Approx. 392 mm in width
	Transported Particle Thickness	Approx. 0.3 to 0.7mm (1 layer)
Camera Section	Limit Of Resolution	5,000 pixel RGB CCD line sensor camera x 4 units – 20 µm
Lighting Section	System/Source/Position	Fiber guide/Halogen lamp x 12/2 spots at top, 1 spot at bottom
	Lamp Sytem	DC lighting system (lighting level variable at 16 steps)
	Lighting Control	Manual, Auto control selectable
	Expected Lamp Life	1,000 to 1,500 hours
Power Source	Power Supply	Three phase 200 V ± 10%, 50/60 Hz
	Power Consumption	5 kVA or less
	Connection	Terminal fixed with 6 mm-screw
Air	Pressured Air Pressure	0.5 M pa or more
	Consumption	0.7 NL / minute or less (clean dry air)
	Coupling Socket Size	Quick-connect air coupler socket 20 SH
External Dimensions	Control Unit / Main Unit	W 570 x H 1850 x D 710 mm / W 1708 x H 2050 x D 1149 mm
	Air-Vacuuming Unit	W 750 x H 1333 x D 532 mm
Weight	Control Unit / Main Unit	Approx. 150kg (330 lbs) / Approx. 1,000 kg (2,203 lbs)
Environment Condition	Temperature	15°C to 20°C (59 -77 degree F)
	Humidity	30 to 60%
Vacuumed Air Exhaust	Negative Pressure	4Kpa or more
	Exhaust Air Emission	10 cubic meter / minute

Our reflection creates the perfect image

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