

/Inritsu

Real Time Line Monitoring, Complete Product Traceability and HACCP Compliance —

Discover What's Possible in terms of Quality Control

Overall quality management and control system





Overall quality management and control system





Real-time production, system and event monitoring for complete line optimization.

Record production data automatically

Data recorded includes operational history, in chronological order, of all inspection systems in one centralized location. Eliminate the inaccuracies and effort of manual data sampling.

Automatic recording

Monitor production lines in real-time

Current production line status is easily viewable ensuring line efficiencies are met. Remote line changes enable the user to quickly adjust basic settings without physically having to go to the lines. Error messages can be sent to the user's mobile phone for instant notification.



Analyze production performance

Generate and view production status reports. Production trending and variances are available for analysis.



Line Monitoring



Real-time production line monitoring and analysis

- Check production status
- Control systems remotely
- Display inspection history
- View production statistics
- Output production status reports
- Record and view video feeds (optional)



Traceability

HACCP Compliance





Monitoring and control — Centrarized control facilitates efficient line management

- A Main window: View the current status of each inspection equipment including evaluation results and operation errors
- B Video image: View live video feeds (optional)
- C History: Display the inspection history including inspection, error and alarm results
- D Statistics: View the total number of products inspected, number and percentage of OK/NG products, average product weight (X-bar) and standard deviation
- B Parameter: Show the current settings of each inspection equipment
- End production menu: Reset the statistics for all or the selected equipment
- G Data: Display basic information such as lines and models
- Line composition: Display equipment of each line as a tree view
- Evaluation: Show evaluation results
- J X-ray image monitor: Display an X-ray image in real time

©Remote monitoring via mobile phone:

Inspection equipment status, current statistics and error messages are automatically sent to your mobile phone. Remote real time adjustment of inspection settings is possible.

Statistics display

Frod No.	004	
Prod Horse	Eldery.	
Start data and these	NUC OF ALL ALL ALL ALL ALL ALL ALL ALL ALL AL	
End data and time	ARC 107 2940-07-07-11-2406 2940-07-07-1229-02	
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Sample Count	2.57.2%	2.86
-NG uteduct	60.67	
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Forge (T)		50.
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X-bar (average weight) graph display

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Histogram display



16/08/29 09:54:44

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Emergency stop switch pressed or

Example of text message

001-04 Error

neraled

08-08-29 09:54:44

052 Ex

Description] mergency switch

frequent call SE.

Solution]

(D74178W X-Ray Inspection System

veitch pressed. Pull and kwise to release. If erro

nerated

QuîCCA

Production analysis — Optimize line productivity

Average weight (X-bar) and standard deviation are shown both numerically and graphically, allowing quick detection and correction of anomalies within the production process. A histogram is also viewable for providing production trending information.

OAdvanced analysis:

Statistical data and graphs can be complied into a comprehensive report. The printable report can be provided to retailers for daily operation analysis.

Report examples



Monitor and record production line events — quickly troubleshoot line issues Advanced production control





Identify the cause of the events

Video cameras installed at critical locations within the production line, such as upstream and downstream of the inspection system, continuously record the production line. When a line event occurs, as example an unusually high number of rejected (NG) products, the video feeds are recorded and can be examined to determine if there were any abnormalities in the production line. By eliminating the cause of the event, unnecessary rejection will be avoided and productivity will be increased.



Quick and efficient data access

The inspection data and operational history of all inspection systems are automatically recorded, in chronological order, in one centralized location. When receiving complaints from consumers or retailers, the desired inspection data can be extracted via the data output wizard to confirm there were no process problems.



History data: Extract data from operational status history such as start/stop and alarm

Individual data: Extract product-related data such as OK / NG result

	Trainber of	FData = 93	_	_
	Dute	2010-07-07	Time	10/29/59 525
	Prod. No.	001	Evaluation	OK
201007071(2959525)	Stats. Total			4
	Date	2010-00-07	Time	10:30:00 541
	Prod. No.	001	Evaluation	Contam,NG
20100707163000541.j	Stats. Total			5
	Date	2010-07-07	Time	103001 463
	Prod. No.	001	Evaluation	OK
	Stats, Total		_	6

Example of the data output - Inspection data can be referenced promptly

GuîCCA



Verifies rejection operation with video feeds (Optional)



Advanced traceability via video recording



Recorded video can be used for verifying a defective product was properly rejected. Combined with the bar/2D code tracking features, this is a valuable tool in analyzing consumer complaints.



HACCP Compliance

Simplify CCP monitoring and compliance reporting



Daily operation checks become more reliable

CCP compliance requires verifying the operation of the inspection equipment on a regular basis. QUICCA automatically records these operation checks and the associated product name, time/date and the operator ID who performed the check. If any step is omitted or performed incorrectly, QUICCA halts system operation thereby ensuing operation is only allowed if the checks are completed. The automatic data collection also eliminates possible recording omissions or recording errors (possible with manual data collection).

Data No.	Time	Product No.	Log	
1	2010-04-04 15:02:57	000	Machine started	
2	2010-04-04 15:02:57	000	Barcode reader connected	
3	2010-04-04 15:03:57	030	Operator change XXXX-> YYYYY	
4	2010-04-04 15:05:29	000	Operation Check started	
5	2010-04-04 15:05:45	030	OK product OK	
6	2010-04-04 15:05:45	030	NG product (Fe) Dia 2.0 OK	
7	2010-04-04 15:05:47	000	Operation Check Fault	
8	2010-04-04 15:05:47	000	Operation Check finished (Abnormal)	
9	2010-04-04 15:06:40	080	Operation Check started	
10	2010-04-04 15:06:56	030	OK product OK	
11	2010-04-04 15:06:59	000	NG product (Fe) Dia 2.0 NG	
12	2010-04-04 15:07:01	030	NG product (SUS) Dia 3.5 NG	
13	2010-04-04 15:07:01	030	Operation Check finished (Normal)	

Operation check records can be stored and/or printed.

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Probable Reaction Language	Photocoli Producti Chan and ball Channel Chan and ball photo for some	11.000	THE ST	iiiii	Then you The	A MERINA SA RAN Managaran Managaran Managaran Managaran	1000	Name of Color	No.	there is a second se	
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Daily inspection report, including production records, can be stored and/or printed.

Production data can be searched via Operator ID or their unique barcode ensure operator traceability.



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2	2000	Sec.		
			-	

Example of setting display

Overall quality management and control system

Provide product inspection certification



The system provides certification, to HACCP requirements, that a product has been inspected with a fully compliant inspection system. You can show your clients that your manufacturing process uses and follows stringent quality control processes and can increase your company's credibility. The format can be customized however the inspection records cannot be modified.

*Anritsu is not responsible for the inspection results by this documentation.



Point HACCP and CCP

HACCP is a food management system that originated during the space program to ensure the safety of food transported into space. It features identifying and analyzing potential food safety hazards and continuously monitoring and recording critical points within the process. If problems occur, procedures are specified for immediate corrective action so that defective products are prevented from entering the market.

CCP (Critical Control Point) is a point, step or procedure at which control can be applied and is essential to prevent or eliminate a food safety hazard. In a HACCP plan, continuous monitoring and recording of operational steps determined as CCP are required. In some industries, CCP usage and requirements are specified, as example metal detection down to a certain millimeter size.



Function chart

	Model	KX9002A	KX9002D	KX9002T	Remarks
Connectable machine	Video camera	Option	Option	Option	Vide recording option
	XR75 series X-ray inspection system	\checkmark	√	√	
	KD74 series X-ray inspection system	\checkmark	√	√	
	M5 Series Metal detector	√	√	√	
	duw/duw-h series Metal detector	\checkmark	√	√	
	KD82xx M series Metal detector	√	√*1	√*1	*1 : CCP monitoring function is not availab
	KD81xx duw series Metal detector	√	√	√	
	SSV series Checkweigher	√	√	√	
	SV series Checkweigher	√	√	√	
	Automatic combination weigher	√	√*1	√*1	*1 : CCP monitoring function is not availab
Code reader	Scan individual product number			√	
	Scan operator number		√	√	CCP monitoring function
	Scan shipment information (production date and shipment number)		√	√	CCP monitoring function
Maintenance	Hard disk failure recovery	√	√	√	
	Network failure recovery	√	√	√	
	Time synchronization	√	√	√	
	Automatic data backup	√	√	√	
	Automatic data deletion	√	√	√	
	Failure notification	√	√	√	
	Data deletion	√	√	√	
	Data protection	√	√	√	
Recordable data	Video image	Option	Option	Option	
	Evaluation result	√	√	√	
	Evaluation details (mass value and product effect value)	~	N	√	
	Evaluation limit value	√	√	√	
	Statistics data	√	√	√	
	Batch statistical data	√	√	√	
	Lot statistics data	√	√	√	
	X-ray image	√	√	√	
	Equipment history	√	√	√	
Control	Product change	√	√	√	
	Parameter change	(*2)	(*2)	(*2)	*2 : Certain parameters only
Output method	Data association between equipment	(-/	(-)	√/	
ouput motiou	Search by individual product number			, √	
	Search by production date or shipment number		~	√	
	Search by lot number	√	√	√	
	Search by time and date	V	√	√	
Output format	Product inspection certification		√	√	CCP monitoring function, EXCEL format *
	CCP monitoring report		√	√	CCP monitoring function, HTML forma
	Video data	Option	Option	Option	AVI format
	Individual data	√	√	√ √	CSV, HTML format
	Image data	√	√	√	JPG, TIFF, PNG format
	Statistics data	V	√ √	√	CSV, HTML format
	History data	√	√ √	√	CSV, HTML format
Analysis	Advanced analysis	√	√ √	√ √	EXCEL format *3
	Xbar-s/R graph	√ √	√ √	√ √	
	Abai S/IT graph	v	l v	N N	

*3 : Microsoft Office Excel 2000, 2002, 2003, 2007, 2010, 2013 or 2016 is required.

Point New enhancements provide data safeguards

Data loss prevention

QUICCA's new capabilities protect your inspection data against errors or unexpected events.

Against hard disk failure and capacity shortage

> When several hard disks are registered, the data storage space is automatically switched to available disk drives.

*Data base cannot be switched automatically. For hard disk drives, set up RAID configurations to protect against disk failures .

Against network shutdown and reboot after Windows automatic update

- A certain amount of data is stored in the equipment. After network recovery, the data is retransmitted to the database.

Data management

Automatic data backup Automatically keep your data and QUICCA settings backed up on other hard disks.

Automatic data deletion

Automatically delete stored data according to the set conditions such as elapsed days.

10

QUICCA Operation Environment

1 License and Ethernet unit

- QUICCA license: Required for each PC on which QUICCA installed.
- Connection license:

Required for each machine connected to QUICCA.

• Ethernet unit:

Required according to the device connected, such as a code reader. No additional Ethernet

- unit is required for models with a built-in Ethernet port.
- Camera connection license: Required for each camera connected to QUICCA.



2 System requirements

Item	Remark	Supply
PC (computer and server)	PC to install QUICCA	Supplied by user
LAN cable	Category 5e or higher. Must support Gigabit Ethernet for video recording.	
LAN switch (switching hub)	Required for networking multiple units. Must support Gigabit Ethernet for video recording.	
Cable piping and wiring	Required to connect computer and LAN switch, etc.	
HDD for backups (NAS,USB-HDD)	For data backups.	
External HDD for expansion	Required if PC does not have enough disk space. USB3.0 is required for continuous recording of video image.	
Video camera	IP network camera is required for video recording.	Supplied by Anritsu *1
Code reader	For scanning individual product number. Connected to machines.	
Handheld code reader	For searching data based on individual product number. Connected to PC.	
KX9002A/D/T QUICCA	Includes QUICCA license. Connection license is required for each machine.	Supplied by Anritsu
KX9002ZC Image recording option	Camera connection license is required for each camera.	
Ethernet unit	Required according to the type of connected machine. For full function of CCP monitoring, Ethernet unit with code reader is required. *2	
Equipment	X-ray inspection system/Metal detector/Checkweigher/Automatic combination weigher	

Specifications

QUICCA (KX9002A/D/T)

Maximum number of connectable machines *1	99
Maximum recording capacity *1	2000 products/min (all lines)
	1000 products/min (when X-ray images recorded)
Maximum number of recordable data	Depends on free disk space on PC. Maximum 4 mil. data/day
	1 to 4 mil.data/1GB (Individual data, Statistics data, History data)
	10,000 to 30,000 data/1GB (image data)
	Data can be saved on multiple hard drives such as NAS

Video recording option (KX9002ZC)

01 ()	
Maximum number of connectable video cameras *1	64
Maximum recording capacity *1	16 (all lines total)
	10 (when X-ray images recorded)
	When camera settings are as follows:
	Screen size: 640×480, Number of frames: 30 frames/sec, Format: MPEG4
Maximum number of recordable data	Depends on free disk space on PC. Maximum 4 mil. data/day
	10 to 40 data/1GB (video data)
	Data can be saved on multiple hard drives such as NAS

*1: The maximum number of connectable machines and video cameras, and maximum recording capacity vary depending on specifications of PC and network configuration.

• Video images are recorded continuously for 24 hours a day. When a rejection or an alarm occurs, images of before, during, and after the event are saved automatically.

Images recorded by continuous recording will be deleted after a specified time period.

System requirements

OS	Windows XP Professional SP2/SP3
	Windows Server 2003 SP2/R2 SP2
	Windows Vista SP2 (Business/Ultimate/Enterprise) (32bit)
	Windows Server 2008 SP2/R2/R2 SP1 (Standard/Enterprise/Datacenter/Foundation) (32bit/64bit)
	Windows 7/SP1 (Professional/Ultimate/Enterprise) (32bit/64bit)
	Windows 8 (Pro/Enterprise) (32bit/64bit)
	Windows 8.1 (Pro/Enterprise) (32bit/64bit)
	Windows Server 2012/R2 (Standard/Datacenter/Essentials/Foundation) (32bit/64bit)
	Windows 10 (Pro/Enterprise) (32 bit/64 bit)
CPU	Intel® Core™2 Duo processor 1.50 GHz or higher
	Intel® Pentium® 4 processor 2.00 GHz or higher
	For optional video recording, Intel® Core i5 • Core i7 • Xeon processor 2.40 GHz or higher recommended
Memory	1GB or higher (Windows XP, Windows Server 2003)
	2GB or higher (Windows Vista, Windows Server 2008, Windows 7, Windows 8, Windows 8.1, Windows Server 2012)
	For optional video recording, 4GB or higher recommended
HDD	50MB or more free disk space for installation in addition to that required for data saving
	For optional video recording: 150MB or more free hard disk space for installation, and 40GB or more per camera for continuous
	video recording
	USB3.0 HDD is recommended for continuous recording
Display	1024 × 768 or higher
LAN	Ethernet (100BASE-TX,1000BASE-T)
	For optional video recording, Gigabit Ethernet (1000BASE-T) recommended
Software *2	Advanced analysis: Microsoft Office Excel 2000/2002/2003/2007/2010/2013/2016
	Barcode creation: Microsoft Office Access 2000/2002/2003/2007/2010/2013/2016

*2 : Video recording option (KX90022C) supports the following operating systems: Windows 7/SP1 (Professional/Ultimate/Enterprise)(64bit)

Windows 8 (Pro/Enterprise)(64 bit)

Windows Server 2012 (Standard/Enterprise/Datacenter/Foundation)(64 bit)

For the latest supported operating systems, please visit our website at http://www.anritsu-infivis.com/en/

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Anritsu envision : ensure

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• Some products shown in this catalog may not be available in your country or region. Contact our sales representatives for details.

• To ensure proper operation, read the Operation Manual before using the machine.

• In addition to daily inspection, a full maintenance inspection should be completed annually.

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