

# Software Information Sheet



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## General Information

<b>Model Name:</b>	TAIKO EUR-1020-X4				<b>SW Req. No.</b>					
<b>SW. Name:</b>	PUB-7(EUR) ID-002/003/0E3/0D3				<b>Date:</b> (mm,dd,yyyy)	07.29.2008		<b>Rev:</b>	B1	
<b>SW. Version:</b>	V1.40-31				<b>Note:</b>					
<b>Country (Code):</b>	EURO(EUR)				<b>Guide:</b>	Type-1(68mm/83mm)				
<b>Currency:</b>	Euro				<b>Check Sum:</b>	65F1				
<b>Direction:</b>	4Way				<b>CRC (seed= 0000):</b>	5E19				
<b>Denomination:</b>	<b>Denomi.</b>	<b>Printed</b>	<b>Issued</b>	<b>MRI#</b>	<b>Denomi.</b>	<b>Printed</b>	<b>Issued</b>	<b>MRI#</b>		
<b>Years &amp; MRI Ident #</b> 66thEdition	5	'02	'02	EUR5.1						
	10	'02	'02	EUR10.1						
	20	'02	'02	EUR20.1						
	50	'02	'02	EUR50.1						
	100	'02	'02	EUR100.1						
<b>Acceptance Rate:</b>	No less than 90%									
<b>EPROM:</b>	Flash ROM only(8Mbit)									
<b>Modifications:</b>	V1.36-22 -> V1.40-31									
<b>Validation:</b>										
<b>Operation:</b>	<ol style="list-style-type: none"> <li>In the prior software, the banknotes could be rejected during the IDLING status. This problem has been corrected in this version.</li> <li>In the prior software, the bezel LED pattern #3, solid blue was set as default, instead of #1. This problem has been corrected in this version. (Once the V1.36-22 has been installed in the unit, the bezel illumination pattern #3, solid blue will continued to be set as default until the DIP-switches is re-set.)</li> </ol>									
<b>Interface:</b>										
<b>Modifications:</b>	V1.35-21 -> V1.36-22									
<b>Validation:</b>										
<b>Operation:</b>	<ol style="list-style-type: none"> <li>Added the following LED illumination patterns #3 through #6 during the IDLING status.                             <ul style="list-style-type: none"> <li>- #3: Lit in solid blue.</li> <li>- #4: Lit in solid green.</li> <li>- #5: Blink slowly in glue.</li> <li>- #6: Blink slowly in green.</li> </ul> </li> </ol> For how to set the illumination pattern, refer to the (*2) "LED Illumination Pattern Setting".									
<b>Interface:</b>	<ol style="list-style-type: none"> <li>In the previous software, when initializing in the ID-0D3 (MDB interface), the "Unit Disable" was not given, This problem has been corrected in this version.</li> <li>Changed the number of Pulses in the DIP switches #6 and #7 in the ID-002.</li> </ol>									
<b>Modifications:</b>	V1.30-20 -> V1.35-21									
<b>Validation:</b>	<ol style="list-style-type: none"> <li>Improved the 5 Euro banknotes recognition by adding the data of the 24 pieces received in January and February.</li> <li>Improved the 50 Euro banknotes recognitions by adding the data of the 25 pieces received in February</li> </ol>									
<b>Operation:</b>	<ol style="list-style-type: none"> <li>Updated to the Vx.xx-21 level. (Increasd the maximum number of the denominations accepted.)</li> </ol>									
<b>Interface:</b>										
<b>Memo:</b>	<ul style="list-style-type: none"> <li>- The 5 and 10 Euro banknotes need to be inserted in the lower tray of the bezel, and the 20, 50, and 100 Euro in the upper tray.</li> <li>- <b>Once the Vx.xx-22 or Vx.xx-30 has been installed in the unit, the bezel illumination pattern #3, solid blue will continued to be set as default until the DIP-switches is re-set to select the illumination pattern after installing the V1.40-31.</b></li> </ul>									

## Dip Switch Settings

#	Dip Switch						
1	OFF	Normal operation					
	ON	Test Mode(Setting Mode)					
2	OFF	1-time scan mode (without validation retry)					
	ON	2-time scan mode (with validation retry)					
3	OFF	Without Option Unit (future use)					
	ON	With Option Unit (future use)					
4	OFF	1-time spin mode					
	ON	5-time spin mode					
5	Serial I/F mode(Dip-Sw8=OFF)				Pulse I/F mode(Dip-Sw8=ON)		
					SW5	PULSE WIDTH	
					OFF	50ms/50ms	
					ON	150ms/180ms	
6	SW6	SW7	I/F selection		SW6	SW7	Number of PULSE
	OFF	OFF	ID-003		OFF	OFF	1 Euro = 1 Pulse
	ON	OFF	ID-0D3		OFF	ON	5 Euro = 1 Pulse
7	OFF	ON	ID-0E3 without Encryption		ON	OFF	10 Euro = 1 Pulse (disable the 5 Euro)
	ON	ON	ID-0E3 with Encryption *1		ON	ON	50 Euro = 1 Pulse (disable the 5,10,20 Euro)
8	OFF	Serial I/F Mode ( Selected by Dip6&7 )					
	ON	Pulse I/F Mode					

\*1

When Encryption code becomes unknown in ID-0E3 encryption code, setDIP-SW1,2,3,4,5,6 ON, DIP-SW7,8 OFF and supply power. Set DIP-SW1 OFF, andthe original encryption code (the last 6 digit of the serial number) is restored.

To write a new serial number manually, set DIP-SW1,2,3,4,5,6,7 ON, DIP-SW8OFF, and supply power. Set DIP-SW1 OFF and the TAIKO enters the serialnumber writing mode. Enter 6-digit serial number using the Serial Number Writer program, and the entered number is stored as an encryption code.

### I) Denomination Setting Mode

1. Make a note of the current DipSw setting.
2. Power off.
3. Power up the acceptor at TEST MODE operation (DipSw1=ON).
4. Keep DipSw1=ON and set DipSw6=ON. Other Switches=OFF.
5. Set DipSW1=OFF to enter the standby mode (Status LED will Blink in sky blue or orange).
6. Set Enable or Disable mode
  - . Enable Denomination mode: DipSw7=OFF(Status LED will Blink in sky blue).
  - . Disable Denomination mode: DipSw7=ON (Status LED will Blink in orange).
7. Insert a bill you wish to set enable / disable.
8. Acceptor rejects the bill in one of the following conditions:
  - . When Enable Denomination Setting > Reject with status LED in Skyblue.
  - . When Disable Denomination Setting > Reject with status LED in orange.
  - . When validation was not good > Reject with status LED in red.
9. For another banknote, repeat from step 5.
10. If Setting is completed, power off.
11. Restore the original DipSw setting.
12. Power up.
13. Acceptor returns to standby mode, and the setup is completed.

(\*2) LED Illumination Pattern Setting

1. Make a note of the current DipSw setting.
2. Power off.
3. [Pattern 1] Power up the acceptor with DipSw1,2,7 = ON. Other switches = OFF.  
[Pattern 2] Power up the acceptor with DipSw1,3,7 = ON. Other switches = OFF.  
[Pattern 3] Power up the acceptor with DipSw1,7 = ON. Other switches = OFF.  
[Pattern 4] Power up the acceptor with DipSw1,2,3,7 = ON. Other switches = OFF.  
[Pattern 5] Power up the acceptor with DipSw1,4,7 = ON. Other switches = OFF.  
[Pattern 6] Power up the acceptor with DipSw1,2,3,4,7 = ON. Other switches = OFF.
4. Power up.
5. Set DipSw1 = OFF, then LED illumination pattern is selected.
6. If Setting is completed, Power OFF.
7. Restore the original DipSw setting.
8. Power up.
9. Acceptor returns to standby mode and the setup is completed.

## ID-003 Data Setting specification

### VERSION DATA

SW. Version	P(EUR)-07 ID003-04V140-31 28JUL08 5E19
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### ESCROW DATA

Code	Denomination
61h	Reserved
<b>62h</b>	<b>5</b>
<b>63h</b>	<b>10</b>
<b>64h</b>	<b>20</b>
<b>65h</b>	<b>50</b>
<b>66h</b>	<b>100</b>
67h	Reserved
68h	Reserved
69h	Reserved

### CURRENCY ASSIGN DATA

Code	Country	Denomi	Exp.
61h	00h	00h	00h
<b>62h</b>	<b>E0h</b>	<b>05h</b>	<b>00h</b>
<b>63h</b>	<b>E0h</b>	<b>0Ah</b>	<b>00h</b>
<b>64h</b>	<b>E0h</b>	<b>14h</b>	<b>00h</b>
<b>65h</b>	<b>E0h</b>	<b>32h</b>	<b>00h</b>
<b>66h</b>	<b>E0h</b>	<b>64h</b>	<b>00h</b>
67h	00h	00h	00h
68h	00h	00h	00h
69h	00h	00h	00h

### ENABLE/DISABLE DATA

DATA bit	Data 1	Data 2
0	Reserved	Reserved
<b>1</b>	<b>5</b>	Reserved
<b>2</b>	<b>10</b>	Reserved
<b>3</b>	<b>20</b>	Reserved
<b>4</b>	<b>50</b>	Reserved
<b>5</b>	<b>100</b>	Reserved
6	Reserved	Reserved
7	Reserved	Reserved

0: Enable 1: Disable (Default: **C1FFh**)

### SECURITY DATA

DATA bit	Data 1	Data 2
0	Reserved	Reserved
<b>1</b>	<b>5</b>	Reserved
<b>2</b>	<b>10</b>	Reserved
<b>3</b>	<b>20</b>	Reserved
<b>4</b>	<b>50</b>	Reserved
<b>5</b>	<b>100</b>	Reserved
6	Reserved	Reserved
7	Reserved	Reserved

0: Normal 1: Security Level high (Default: **0000h**)

### DIRECTION DATA

DATA bit	Direction	Sample: USA
0	'A' Direction	
1	'B' Direction	
2	'C' Direction	
3	'D' Direction	
4	Not used	
5	Not used	
6	Not used	
7	Not used	

0: Not Inhibit 1: Inhibit (Default: **00h**)

### OPTIONAL FUNCTION DATA

DATA bit	Data 1	Data 2
0	Hanging Function[01]	Not use
1	Not use	Not use
2	Not use	Not use
3	Not use	Not use
4	Not use	Not use
5	Not use	Not use
6	Not use	Not use
7	Not use	Not use

0: Disable 1: Enable (Default: **0100h**)

#### [01] Hanging Function

Rejection of the bill is completed with the end of the bill kept remaining in the acceptor.  
(To prevent dropping of the bill)

\*1. When the rejected banknote is blocking the entry sensors, the "Reject" status remains unchanged.

\*2. "Jam in Stacker" and "Power Up with Bill in Stacker" are both treated as jams which cannot be cleared unless attendants remove the jammed note. After clearing the jam, make sure to send reset command from the host machine.

## ID-0E3 Data specification

<b>Equipment category ID</b>	"Bill Validator"		
<b>Product code</b>	"PUB-7"		
<b>Build Code</b>	"Standard"		
<b>Manufacturer ID</b>	"JCM"		
<b>Software Revision</b>	"V1.40-31"		
<b>Comms Revision</b>	"1"+"4"+"0"		
<b>Polling priority</b>	<b>Units</b>	<b>Value</b>	
	"1"	"200"	
	200ms = "1" + "200"		
<b>Country scaling factor</b>	<b>Scaling factor LSB</b>	<b>Scaling factor MSB</b>	<b>Decimal places</b>
	100	0	2
<b>Bill position</b>	<b>Data 1</b>		<b>Data 2</b>
	"00011111B"		"00000000B"
<b>Bill id</b>	<b>Bill TYPE x</b>	<b>Bill ID</b>	
	<b>Bill Type 1</b>	"EU0005A"	
	<b>Bill Type 2</b>	"EU0010A"	
	<b>Bill Type 3</b>	"EU0020A"	
	<b>Bill Type 4</b>	"EU0050A"	
	<b>Bill Type 5</b>	"EU0100A"	
	<b>Bill Type 6</b>	"....."	
	<b>Bill Type 7</b>	"....."	
	<b>Bill Type 8</b>	"....."	
	<b>Bill Type 9</b>	"....."	
	<b>Bill Type 10</b>	"....."	
	<b>Bill Type 11</b>	"....."	
	<b>Bill Type 12</b>	"....."	
	<b>Bill Type 13</b>	"....."	
	<b>Bill Type 14</b>	"....."	
	<b>Bill Type 15</b>	"....."	
<b>Bill Type 16</b>	"....."		

### Bank note event code

Data	Denomination
1	5 Euro
2	10 Euro
3	20 Euro
4	50 Euro
5	100 Euro
6	Reserved
7	Reserved
8	Reserved

### Modify inhibit data

DATA bit	Data1	Data2
0	5 Euro	Reserved
1	10 Euro	Reserved
2	20 Euro	Reserved
3	50 Euro	Reserved
4	100 Euro	Reserved
5	Reserved	Reserved
6	Reserved	Reserved
7	Reserved	Reserved

## Supported specification list

1. cctalk Generic Specification Issue 3.2
2. cctalk Expansion for Bill Validators Issue 2.1
3. cctalk Serial Protocol Encryption Standard Version 1.0

## Supported commands list

### 1. Core Commands

- Header 192 - Request build code
- Header 244 - Request product code
- Header 245 - Request equipment category id
- Header 246 - Request manufacturer id
- Header 254 - Simple poll

### 2. Core Plus Commands

- Header 001 - Reset device
- Header 004 - Request comms revision
- Header 241 - Request software revision
- Header 242 - Request serial number

### 3. Bill Validator Commands

- Header 136 - Store encryption code
- Header 137 - Switch encryption code
- Header 145 - Request currency revision
- Header 152 - Request bill operating mode
- Header 153 - Modify bill operating mode
- Header 154 - Route bill
- Header 155 - Request bill position
- Header 156 - Request country scaling factor
- Header 157 - Request bill id
- Header 159 - Read buffered bill events
- Header 213 - Request Option flags
- Header 216 - Request data storage availability
- Header 227 - Request inhibit status
- Header 228 - Modify master inhibit status
- Header 230 - Request inhibit status
- Header 231 - Modify inhibit status
- Header 247 - Request variable set
- Header 249 - Request polling priority

### 3. MDCES-Multi-Drop Command Extension Set

- Header 250 - Address Random
- Header 251 - Address Change
- Header 252 - Address Clash
- Header 253 - Address Poll

## ID-0D3 Setup Command

### SETUP Command (31H)

### Response DATA (Z1-Z27)

Data No.	HEX Code	Note	
Z1	01h	Feature Level	Level 1
Z2	19h	Currency Code	ISO 4217 currency code
Z3	78h		EUR is 978
Z4	00h	Bill Scaling Factor	1.00 for the EUR
Z5	64h		
Z6	02h	Decimal Places	2 for the EUR
Z7	00h	Stacker Capacity	Non
Z8	00h		
Z9	FFh	Bill Security Levels	High security level
Z10	FFh		
Z11	FFh	Escrow / No Escrow	Validator has escrow capacity
Z12	05h	Bill type Credit	Bill type 1 ( 5Euro)
Z13	0Ah		Bill type 2 (10Euro)
Z14	14h		Bill type 3 (20Euro)
Z15	32h		Bill type 4 (50Euro)
Z16	64h		Bill type 5 (100Euro)
Z17	00h		Bill type 6 (Not used)
Z18	00h		Bill type 7 (Not used)
Z19	00h		Bill type 8 (Not used)
Z20	00h		Bill type 9 (Not used)
Z21	00h		Bill type 10 (Not used)
Z22	00h		Bill type 11 (Not used)
Z23	00h		Bill type 12 (Not used)
Z24	00h		Bill type 13 (Not used)
Z25	00h		Bill type 14 (Not used)
Z26	00h		Bill type 15 (Not used)
Z27	00h		Bill type 16 (Not used)