

# Software Information Sheet



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## General Information

<b>Model Name:</b>	iVIZION-100-SS/SU				<b>SW. Req. No.</b>		C19-0557-01		A2019-0557-01		
<b>SW. Name:</b>	iVIZION-100(NPL1)-SS/SU ID-003				<b>Date:</b> (mm,dd,yyyy)			10.07.2019		<b>Rev:</b>	A1
<b>SW. Version:</b>	<b>V2.81-44</b>				<b>Note:</b>			-			
<b>Country (Code):</b>	Nepal (NPL)				<b>Guide:</b>			None			
<b>Currency:</b>	Rupee				<b>CRC (seed= 0000):</b>			7BD4			
<b>Direction:</b>	4Way				<b>CRC 32(seed= 0000):</b>			E4F2BCB0			
<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> MRI Bankers' Guide to Foreign Currency 94 <sup>th</sup> Edition [NPR10.7 and NPR20.3 referenced by MRI#79 <sup>th</sup> ]	10	'12	-	NPR10.7	-	-		-	-		
	20	'12	'09	NPR20.3	-	-		-	-		
	50	'09, '10, '12	'09	NPR50.5	-	-		-	-		
	100	'08, '10, '12	'08	NPR100.6	-	-		-	-		
	500	'07, '08, '09	-	NPR500.6	-	-		-	-		
	500	'10, '12	'09	NPR500.7	-	-		-	-		
	-	-	-	-	-	-		-	-		
<b>Acceptance Rate:</b>	No less than 98%										
<b>ACCLOAD Program:</b>	ACCLOAD3										
<b>Barcode Ticket:</b>	Accepts JCM specified barcode tickets.										
<b>ICB</b>	ICB feature is enabled or disabled with ICB Enable / Disable setting barcode ticket, Utility Function of JCM Suite or with ICB Enable / Disable Command of ID-003.										
<b>JCM Tool Suite</b>	JCM Tool Suite				Version 1.44.0.1			<b>Update Pack:</b> None			
	JCM Downloader for Suite Edition				Version 1.10.0.0						
	ACCLOAD3 for Suite Edition				Version 3.20.0.0						
	iVIZION Calibration Tool for Suite Edition				Version 1.66.0.0						
	iVIZION Performance Tool for Suite Edition				Version 1.35.0.0						
	iVIZION Utility Tool for Suite Edition				Version 1.6.2.0						
<b>Modifications:</b>	<b>V2.81-44</b>										
<b>Validation:</b>	1. New Development Software										
<b>Operation:</b>	-										
<b>Interface:</b>	-										
<b>Memo:</b>	- Software Download of ID-003 is not guaranteed for Baud rate 38400bps.										

## Dip Switch Settings

#	Dip Switch		
1	OFF	Setting OFF	
	ON	Setting OFF	
2	OFF	10	ACCEPT
	ON	10	INHIBIT
3	OFF	20	ACCEPT
	ON	20	INHIBIT
4	OFF	50	ACCEPT
	ON	50	INHIBIT
5	OFF	100	ACCEPT
	ON	100	INHIBIT
6	OFF	500	ACCEPT
	ON	500	INHIBIT
7	OFF	Setting OFF	
	ON	Setting OFF	
8	OFF	Setting OFF	
	ON	Test Mode	

## ID-003 Data Setting specification

### VERSION DATA

SW. Version	i(NPL1)100-SS ID003-05V281-44 07OCT19 7BD4
Boot Version	B03/B04/B05

### ESCROW DATA

Code	Denomination
<b>61h</b>	<b>10</b>
<b>62h</b>	<b>20</b>
<b>63h</b>	<b>50</b>
<b>64h</b>	<b>100</b>
65h	Reserved
<b>66h</b>	<b>500</b>
67h	Reserved
68h	Reserved

### CURRENCY ASSIGN DATA

Code	Country	Denomination	Exp.
<b>61h</b>	<b>AAh</b>	<b>01h</b>	<b>01h</b>
<b>62h</b>	<b>AAh</b>	<b>02h</b>	<b>01h</b>
<b>63h</b>	<b>AAh</b>	<b>05h</b>	<b>01h</b>
<b>64h</b>	<b>AAh</b>	<b>0Ah</b>	<b>01h</b>
65h	00h	00h	00h
<b>66h</b>	<b>AAh</b>	<b>32h</b>	<b>01h</b>
67h	00h	00h	00h
68h	00h	00h	00h

### ENABLE/DISABLE DATA

DATA bit	Data 1	Data 2
<b>0</b>	<b>10</b>	Reserved
<b>1</b>	<b>20</b>	Reserved
<b>2</b>	<b>50</b>	Reserved
<b>3</b>	<b>100</b>	Reserved
4	Reserved	Reserved
<b>5</b>	<b>500</b>	Reserved
6	Reserved	Reserved
7	Reserved	Reserved

0: Enable 1: Disable (Default: **D000h**)

### SECURITY DATA

DATA bit	Data 1	Data 2
<b>0</b>	<b>10</b>	Reserved
<b>1</b>	<b>20</b>	Reserved
<b>2</b>	<b>50</b>	Reserved
<b>3</b>	<b>100</b>	Reserved
4	Reserved	Reserved
<b>5</b>	<b>500</b>	Reserved
6	Reserved	Reserved
7	Reserved	Reserved

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

### DIRECTION DATA

DATA bit	Direction	Sample demonination:100
0	'A' Direction	<p>The diagram illustrates the directions for a 100 unit ticket. For the Front side, 'A' direction (FA) is to the left and 'B' direction (FB) is to the right. For the Back side, 'D' direction (BB) is to the left and 'C' direction (BA) is to the right.</p>
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	Not used	Not used
1	Power Recovery [02]	Not used
2	Not used	Not used
3	24char bar ticket accept [08]	Not used
4	Not used	Not used
5	Nearly Full [20]	Not used
6	Entrance Sensor Event [40]	Not used
7	Encryption [80]	Not used

0: Disable 1: Enable (Default: **0000h**)

### BAR CODE FUNCTION DATA

	Code	Function
Data 1	01h	Barcode type (interleaved 2 of 5)
Data 2	12h	Character length (18 char)
	FFh	Multi Barcode Ticket acceptance in the range of length 16, 18 and 24 characters.

## [02] POWER RECOVERY

Limited to the case where power up status is [POWER UP WITH BILL IN STACKER] with power supply off while ACCEPTOR is in [STACKING] status, [VEND VALID] is outputted in case initializing is completed normally.

Since SETTING STATUS becomes DEFAULT 0000H by power supply off, it is necessary to conduct setting without fail after [RESET] command is transmitted.

## [08] 24-digit Barcode Ticket Acceptance

Assigned Optional Function "Data 1, bit 3" to enable / disable 24-digit barcode tickets.

① Set "0": only 18-digit barcode tickets will be accepted (default setting)

② Set "1": both 18-digit and 24-digit barcode tickets will be accepted

This setting command is accepted during the initial status only.

The last barcode ticket number registered in the ICB shows the first 18 digits only even if 24-digit barcode is accepted because the ICB supports only up to 20 digits.

## [20] Nearly Full Function

The Nearly Full function will be enabled when "1" is set in the OPTIONAL FUNCTION DATA Bit 5.

The "NEARLY FULL" status will be sent when the quantity of the stored notes exceeds the specified amounts as a response to the Status Request only after the "STACKED" status. The "IDLING" status will be sent to the next Status Request.

## [40] Entrance Sensor Event

The "Entrance Sensor Event" will be enabled when "1" is set in the OPTIONAL FUNCTION "Data1 Bit 6".

1. When the Entrance Sensor detects a note while the ACCEPTOR is both in the DISABLE (INHIBIT) and ENABLE(IDLING)Status, the insertion of the note will be reported to the CONTROLLER in the Status Response from the ACCEPTOR.
2. This function will be included in the OPTIONAL FUNCTION. When the setting is enabled, a data byte [one byte] will follow the DISABLE (INHIBIT) and ENABLE(IDLING) Status of the ACCEPTOR, and the status of the Entrance Sensor (ON or OFF) will be reported to the CONTROLLER in the lower byte.
3. This setting will be cleared when the ACCEPTOR is powered off, or the Reset Command from the CONTROLLER is received.
4. UBA will also send Idle [11h] + 1 byte showing whether any of the sensors between entrance sensor and escrow position are ON.

For more details, please refer to "ID-003 Function to Report the Status of the Entrance Sensor in the DISABLE Status".

## [80] Encryption

When the "1" is set in the OPTIONAL FUNCTION DATA Bit7 the ENCRYPTION will be enabled.

When the ENCRYPTION is enabled, the ESCROW and VEND VALID messages will be encrypted.

For more details, please refer to "ID-003 Encryption Procedure".

## iVIZION Additional Commands/Responses

### ICB Box Number Setting Request (Read out ICB BOX No. installed in ACCEPTOR)

Command Format (Controller -> Acceptor)

SYNC	LNG	CMD	CRC
------	-----	-----	-----

SYNC : [FCH]

LNG : [05H] (Total number of bytes from SYNC to CRC)

CMD : [8EH]

CRC : Check Code by CRC (2byte)

For details, refer to "ID-003 Communication Specifications".

Response Format (Acceptor -> Controller)

SYNC	LNG	CMD	DATA	CRC
------	-----	-----	------	-----

SYNC : [FCH]

LNG : [19H] (Total number of bytes from SYNC to CRC)

CMD : [8EH]

DATA : ICB BOX No. (ASCII CODE)

MAX 20Byte.

Code should be from 20H to 7EH.

If the number of characters is less than 20, make sure to fill the blank space with the space code (20H) .

CRC : Check Code by CRC (2byte)

For details, refer to "ID-003 Communication Specifications".

\*Make sure to use this command in a wait state (IDLING or Disable STATUS), since the number is updated after initial operation (read out from ICB).

### Nearly Full

Response Format (Acceptor -> Controller)

SYNC	LNG	CMD	CRC
------	-----	-----	-----

SYNC : [FCH]

LNG : [05H] (Total number of bytes from SYNC to CRC)

CMD : [1CH]

CRC : Check Code by CRC (2byte)

For details, refer to "ID-003 Communication Specifications".

## ICB Enable/Disable Setting Command

Command Format (Controller -> Acceptor)

SYNC	LNG	CMD1	CMD2	DATA	CRC
------	-----	------	------	------	-----

SYNC : [FCH]

LNG : [07H]

CMD1 : [B1H]

CMD2 : [C0H]

DATA : [00H]:ICB Enable

: [01H]:ICB Disable

CRC : Check Code by CRC (2byte)

For details, refer to "ID-003 Communication Specifications".

Response Format (Acceptor -> Controller)

SYNC	LNG	CMD1	CMD2	DATA	CRC
------	-----	------	------	------	-----

SYNC : [FCH]

LNG : [07H]

CMD1 : [B1H]

CMD2 : [C0H]

DATA : [00H]:ICB Enable

: [01H]:ICB Disable

CRC : Check Code by CRC(2byte)

For details, refer to "ID-003 Communication Specifications".

## ICB Setting Request

Command Format (Controller -> Acceptor)

SYNC	LNG	CMD1	CMD2	CRC
------	-----	------	------	-----

SYNC : [FCH]

LNG : [06H]

CMD1 : [B1H]

CMD2 : [80H]

CRC : Check Code by CRC(2byte)

For details, refer to "ID-003 Communication Specifications".

Response Format (Acceptor -> Controller)

SYNC	LNG	CMD1	CMD2	DATA	CRC
------	-----	------	------	------	-----

SYNC : [FCH]

LNG : [07H]

CMD1 : [B1H]

CMD2 : [80H]

DATA : [00H]: ICB Enable Status

: [01H]: ICB Disable Status

CRC : Check Code by CRC(2byte)

For details, refer to "ID-003 Communication Specifications".

## Bookmark command

### Command Format (Controller -> Acceptor)

SYNC	LNG	CMD	CRC
------	-----	-----	-----

SYNC :[FCH]

LNG :[05H]

CMD :[4AH]

CRC :Check Code by CRC(2byte)

For details, refer to “ID-003 Communication Specifications”.

### Response Format (Acceptor -> Controller)

SYNC	LNG	ACK	CRC
------	-----	-----	-----

SYNC :[FCH]

LNG :[05H]

ACK :[50H]

CRC :Check Code by CRC(2byte)

For details, refer to “ID-003 Communication Specifications”.

## Serial read command

### Command Format (Controller -> Acceptor)

SYNC	LNG	CMD	CRC(L)	CRC(H)
------	-----	-----	--------	--------

SYNC :[FCH]

LNG :[05H]

CMD :91H(Serial Number Request Command)

CRC(L) :CRC (Lower Byte)

CRC(H) :CRC (Upper Byte)

### 2) Response Format (Acceptor -> Controller)

SYNC	LNG	CMD	DATA1	...	DATA12	CRC(L)	CRC(H)
------	-----	-----	-------	-----	--------	--------	--------

SYNC :[FCH]

LNG :[11H]

CMD :91H (Serial Number Request Command)

DATA1 :Serial Number (Upper Byte)

:

DATA12 :Serial Number (Lower Byte)

CRC(L) :CRC (Lower Byte)

CRC(H) :CRC (Upper Byte)