

# *Warwick PalmReader*



## *Palm Vein Biometrics*



***Contactless, Hygienic, Accurate.***

# Accuracy Comparison

	Palm Vein	Iris	Back Hand Vein	Fingerprint	Hand Geometry	Facial	Signature	Voice
FRR	0.01%	0.01%	0.1%	0.1%	0.8%	2.6%	1.0%	3.0%
FAR	0.00008%	0.0001%	0.0001%	0.001%	0.07%	1.3%	1.0%	3.0%

**False Rejection Rate (FRR):** Rejection Rate for Authorized Personnel

Palm Vein ==>> **0.01%** = 1 failure in **10,000** attempts

Fingerprint ==>> **0.1%** = 1 failure in **1,000** attempts

**False Acceptance Rate (FAR):** Acceptance Rate for Unauthorized Personnel

Palm Vein ==>> **0.00008%** = 1 failure in **1,250,000** attempts

Fingerprint ==>> **0.001%** = 1 failure in **100,000** attempts



## ***Other Comparison***

Type	Characteristics	Weaknesses	Accuracy	Sensor Type	Cost
Voice	Suitable for voice activation system.	Affected by noise, health conditions, etc.	Low	Contactless	Low
Face	Remote authentication, no special operation.	Sensitive to lighting/posture, cannot recognize with eyeglasses, facial hair, cosmetics, twins, etc.	Low	Contactless	Low
Signature	Natural Operation.	Difficult for even the same person to sign the same way all the time.	Low	Contact	Low
Fingerprint	Small Sensor.	Affected by nature of skin, too dry/wet skin, abrasion, dirt on sensor surface, etc.	High	Contact	Low
Iris	High accuracy.	Affected by size of eyes, and reflection of eyeglasses.	Very High	Contactless	High
Palm Vein	No forgery, forget.	Sensitive to direct rays of the sun and other strong lightings.	Very High	Contactless	Low

# Features Highlights



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## Features:

- **Robust Performance**
- **100% Enrolment**
- **Hygienic Handling**
- **Extremely High Accuracy**
- **Stand-alone or network**
- **Embedded Web Server**
- **Web Reports / Admin**
- **WiFi Networking\***
- **Battery Back-up\***
- **Voice Prompts\***
- **SMS Alerts\***
- **Export to HR/Payroll\***
- **Integration API\***



# ***Applications***



## ***Ready Made:***

- Time Attendance***
- Access Control***

## ***Customizations:***

- Subsidy Management***
- Staff Compliance System***
- Disciplinary Management***
- Visitor Management***
- Loyalty/Rewards Programs***

## ***Others:***

***Any kind of biometric identification requirements.***



# Web Reporting – Time Attendance / Access Control



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Embedded Web Attendance - Mozilla Firefox

BETA TECHNOLOGY SDN BHD  
Attendance Card

Staff Name: ANDREW OOI  
Staff ID: 3328  
Month: JUL 2012

Date	Day	IN	OUT	IN	OUT	IN	OUT	OT Hours	Remarks
01/07/2012	SUN	-	-	-	-	-	-	0.00	-
02/07/2012	MON	-	-	-	-	-	-	0.00	-
03/07/2012	TUE	-	-	-	-	-	-	0.00	-
04/07/2012	WED	-	-	-	-	-	-	0.00	-
05/07/2012	THU	-	-	-	-	-	-	0.00	-
06/07/2012	FRI	15:39	15:40	22:03	-	-	-	0.00	Late, Makan
07/07/2012	SAT	-	-	-	-	-	-	0.00	-
08/07/2012	SUN	-	-	-	-	-	-	0.00	-
09/07/2012	MON	-	-	-	-	-	-	0.00	Late
10/07/2012	TUE	-	-	-	-	-	-	0.00	Late
11/07/2012	WED	-	-	-	-	-	-	0.00	-
12/07/2012	THU	-	-	-	-	-	-	0.00	-
13/07/2012	FRI	-	-	20:11	-	-	-	0.00	Late
14/07/2012	SAT	-	-	-	-	-	-	0.00	-
15/07/2012	SUN	-	-	-	-	-	-	0.00	-
16/07/2012	MON	-	-	-	-	-	-	0.00	Late
17/07/2012	TUE	-	-	-	-	-	-	0.00	Late
18/07/2012	WED	09:13	13:59	18:43	-	-	-	0.00	Late
19/07/2012	THU	08:28	19:21	-	-	-	-	0.00	Late
20/07/2012	FRI	08:24	20:44	-	-	-	-	0.00	Late
21/07/2012	SAT	-	-	-	-	-	-	0.00	-
22/07/2012	SUN	-	-	-	-	-	-	0.00	-
23/07/2012	MON	-	-	-	-	-	-	0.00	Late
24/07/2012	TUE	19:24	-	-	-	-	-	0.00	Late
25/07/2012	WED	18:34	18:58	-	-	-	-	0.00	Late, Changed by ANDREW
26/07/2012	THU	09:25	10:30	10:40	18:36	18:49	-	0.00	-
27/07/2012	FRI	19:53	-	-	-	-	-	0.00	Late
28/07/2012	SAT	-	-	-	-	-	-	0.00	-
29/07/2012	SUN	-	-	-	-	-	-	0.00	-
30/07/2012	MON	08:28	20:07	-	-	-	-	0.00	Late
31/07/2012	TUE	19:09	-	-	-	-	-	0.00	Late

Legend:  
■ Late Clock In Time  
■ Manually Added Time  
■ Manually Edited Time

Embedded Web Attendance - Mozilla Firefox

BETA TECHNOLOGY SDN BHD  
Daily Exception Report

Date: THU 2 AUG 2012  
Branch: SUBANG

No	Staff ID	Staff Name	IN	OUT	IN	OUT	IN	OUT	EXCEPTION
1	3328	ANDREW OOI	09:02	-	-	-	-	-	Only one Clock
2	0088	RAHM	08:56	08:59	09:02	-	-	-	Missing Clock

Embedded Web Attendance - Mozilla Firefox

BETA TECHNOLOGY SDN BHD  
Break Exception Report

Date: THU 26 JUL 2012  
Branch: SUBANG

No	Staff ID	Staff Name	IN	OUT	IN	OUT	IN	OUT	Dept	Designation	BREAK OVERLIMIT
1	8006	WILLIAM CHAN	09:45	18:34	22:44	31:45	-	-	-	MANAGER	First break overlimit
2	3328	ANDREW OOI	08:25	10:30	10:40	10:41	18:36	18:49	-	MANAGER	Second break overlimit

Embedded Web Attendance - Mozilla Firefox

BETA TECHNOLOGY SDN BHD  
Daily Attendance Report

Date: THU 2 AUG 2012  
Branch: SUBANG

No	Staff ID	Staff Name	IN	OUT	IN	OUT	IN	OUT	HRS wo BRK	HRS w BRK	Designation
1	3328	ANDREW OOI	09:02	-	-	-	-	-	0.00	0.00	MANAGER
2	0088	RAHM	08:56	08:59	09:02	-	-	-	0.05	0.10	Kuli

TOTAL WORK HOURS WITHOUT BREAKS : 0.05  
TOTAL HOURS INCLUDING BREAKS : 0.10

# **Customized Project: Nestle Canteen Subsidy Management System**



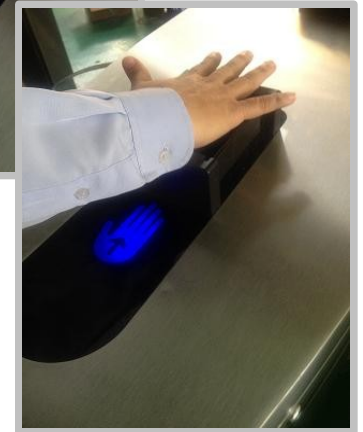
**Beta Technology**



## **Features:**

- **Biometric Identification**
- **Once-A-Day Meal Subsidy**
- **Realtime Authentication Display**
- **Last Subsidy Date/Time Display**
- **Staff Profiling**
- **Daily and Monthly Reports**
- **Summary and Detail Reports  
(Individual and Department)**

# ***Customized Project: Panasonic Solar Human Entrance Barrier Gate***



***2-layers Security  
==>> Staff Card + Staff's Palm***

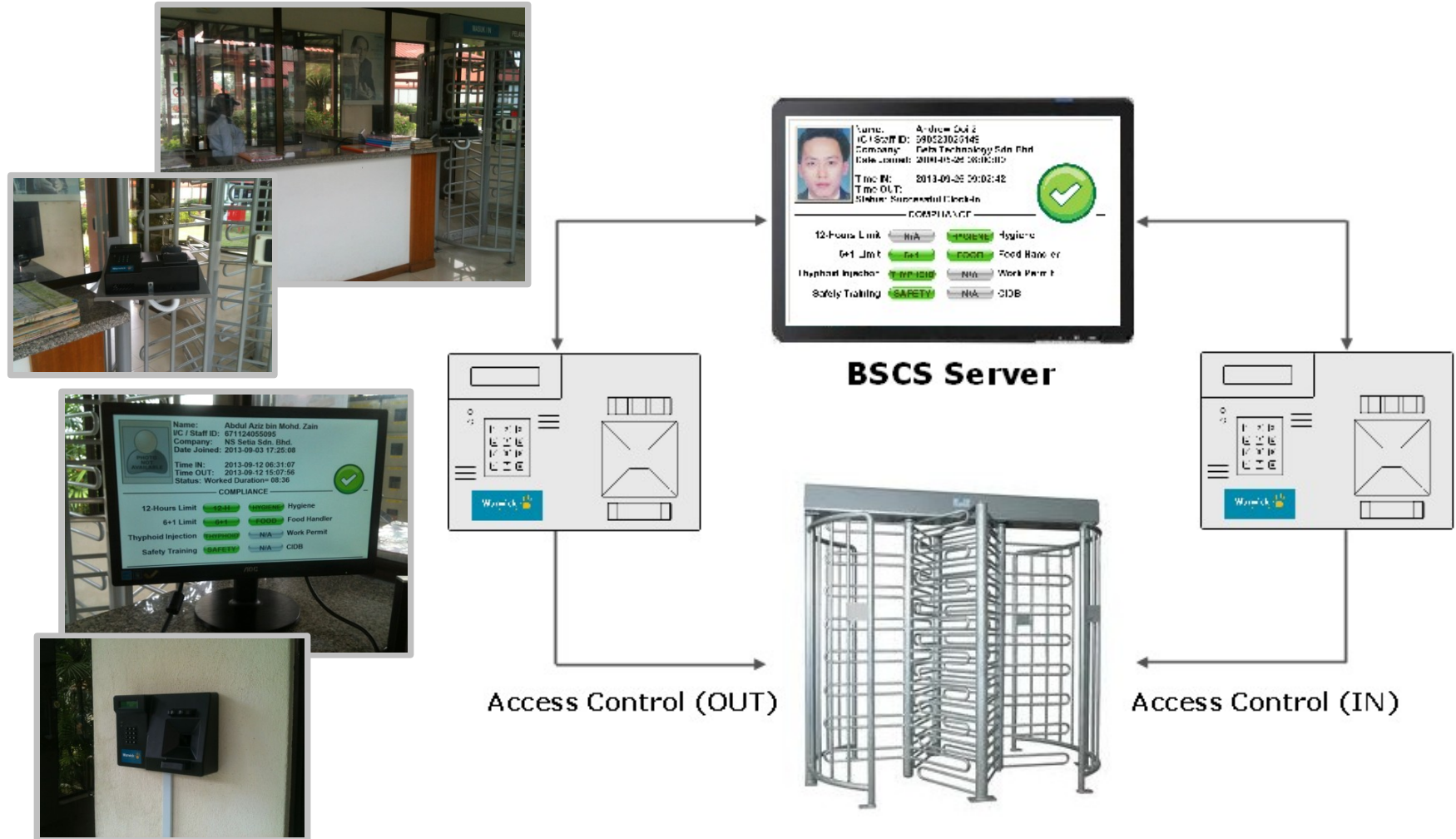




# Customized Project: Nestle Biometric Staff Compliance System



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# BIO-KIOSK : Nestle Annual Dinner Biometric Registration System



# Some of Our Users



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Japan International Cooperation Agency



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***Thank You***

