

projektovanje
montaža i instalacija
testiranje i puštanje u rad
implementacija i
INTEGRACIJA SISTEMA
www.aspektdoo.com

INTELIGENTNI SISTEMI

IDENTIFIKACIJA, EVIDENCIJA I KONTROLA PRISTUPA VOZILA & LJUDI
tehničko obezbeđenje objekata - alarmni i sistemi video nadzora
GPRS/SMS/GPS alarm monitoring i upravljanje

EIKP REŠENJA PO PRINCIPU "KLJUČ U RUKE" ZA
Parkirališta komercijalna i ne komercijalna
Autobuske stanice, Fabričke kapije
Ulaze na bazene, u Aqua parkove,
Wellness centre,

PAMETNE HOTELSKE SOBE
hotelske brave "na karticu"

ASPEKT
SYSTEM INTEGRATION d.o.o.



TEHNOLOGIJA U FUNKCIJI KONTROLE PRISTUPA

Naš moto je:
Ništa nije konst
osim promene!
Heraclites 490p

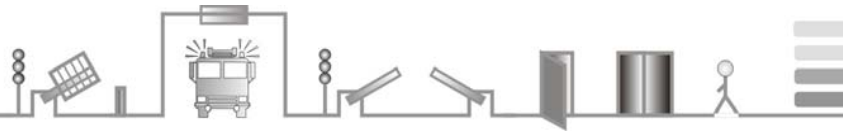
za svu opremu
obezbeđeni
sertifikati



SOLUTIONS



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SISTEMI EVIDENCIJE I KONTROLE PRISTUPA LJUDI (zaposleni, posetioци) i VOZILA

OSNOVNI KONCEPTI

Postoje dva osnovna koncepta kontrole pristupa bilo, vozila, bilo ljudi, odnosno zaposlenih i posetilaca:

- **BEZ EVIDENCIJE** i
- **SA EVIDENCIJOM**

Kod koncepta **sa EVIDENCIJOM** uobučajeno je i da se definiše tip evidencije, odnosno:

- **sa razlozima ulaska/izlaska**
- **bez razloga ulaska/izlaska**

U zavisnosti od odabranog koncepta evidencije i kontrole pristupa, željenog nosioca identifikacije, željenog nivoa sigurnosti i jasno od strukture objekta, biraju se odgovarajući uređaji, dodatna oprema i integrišu u sistem.

VRSTA IDENTIFIKACIJE

Najčešće primenjivani nosioci identifikacije, danas su:

- **ID KARTICE**, bilo kontaktne, bilo bezkontaktne bar code-om, mag. zapisom, čipom, ...
- **BIOMETRIJA**, odnosno otisak prsta, geometrija šake, lica, prepoznavanje glasa... i
- **REGISTARSKI BROJ** vozila sve popularniji danas, ali i prepoznavanje siluete istog

RAZNOLIKI UREĐAJI – SOFTWARE - INTEGRACIJA

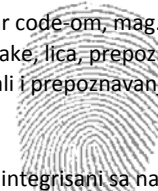
za različite primene u oblasti evidenciju i kontrolu pristupa integrirani sa našim software.skim rešenjima.

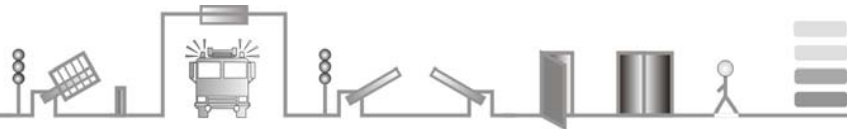
- **PROTOKOL**, evidencija, kontrola pristupa i obračun vremena zaposlenih, naše rešenje, po principu »ključ u ruke« i pruža vrlo jednostavan, efikasan i kvalitetan odgovor na pitanje: **Kako obezbediti da ZAPOSLENI u preduzeću POŠTUJU RADNO VREME, a posetioци i vozila koridore kretanja ?**
- **PORTIRNICA**, evidencija, kontrola pristupa i obračun vremena posetilaca, vozila
- **aspektPARK**, automatizacija parkirališta, naplata
- **aspektBUS**, automatizacija autobuskih stanica

DODATNA OPREMA,

U zavisnosti od željenog stepena sigurnosti, strukture objekta definiše se potrebna dodatna oprema.

Reference: Agrobanka A.D. Hypo Aple Adria, Pireaus bank, Jughemija A.D., NESTLE, PKB Sistem, Kreditni biro Srbije, Vlada Srbije, Rudarsko-topioničarski basen Bor, Pravni fakultet Univerziteta u Beogradu, Dom učenika srednje železničke škole - Beograd, Studentski dom – Košutnjak, Milšped d.o.o., Autobuska stanica LASTA, Republički zavod za sport, Zavod za izradu novčanica i kovanog novca, NCA Consulting-objekat WetEnd, JKP Gradske pijace – Kvantaš, PKB Sistem a.d., ...



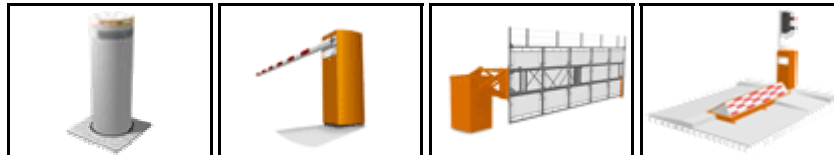


DODATNA OPREMA

Preduzeće ASPEKT System Integration d.o.o. je oficijelni distributer jednog od najvećih proizvođača rampi, putnih blokera, potapajućih stubova, rotacionih barijera, inteligentnih krilnih prolaza, roto vrata itd. Iste primenjujemo i u cilju potpune automatizacije PARKIRALIŠTA, BUS Stanica, Fabričkih kapija, Portirnica, itd.



RAMPE & PUTNI BLOKERI



BARIJERE / INTELIGENTNI PROLAZI

Inteligentni prolazi - Barijere, rotacione, krilne, uspravljavuće, kao i rampe obezbeđuju kontrolu pristupa, kontrolisani protok i usmeravanje ljudi i/ili vozila. Inteligentni Sigurnosni prolazi su tako projektovani da obezbede maksimalno veliku prolaznost ljudi, a istovremeno i visok stepen bezbednosti.



rotacion

krilna ("flaps")

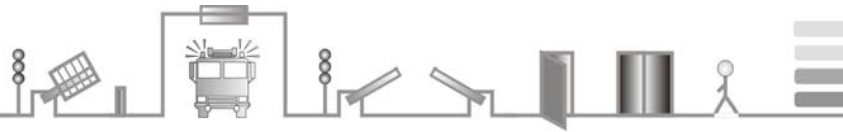
krilna

krilna

roto-vrata

Nekoliko ref. slika izvedenih projekata, detaljnije u dokumentu: Kratak pregled izvedenih projekata





AOA1000 **otisak, kartica & kamera** **ethernet**

is a genuine breakthrough by Anviz in biometric identification terminals, which fully integrate fingerprint identification, RFID, camera, wireless, multimedia and embedded system technology. Utilizing 3.5 inch industrial TFT true color LCD, Samsung 400MHz Arm9 high speed processor and Windows CE operation system. AOA1000 can be used in all applications where fingerprint

identification is required especially in governments and large-scale enterprises as well as places where high security level is a must.

- Samsung 3.5 inch industrial TFT LCD of high brightness
- Samsung 400MHz Arm9 high speed processor
- USA BioNano core algorithm platform
- Embedded WinCE 5.0 operating system
- Anviz new generation optical fingerprint reader
- Waterproof, dustproof, scratchproof, unbreakable and durable
- 10 number key, 5 function key, 6 user defined function key, 4 status key and 1 navigation key
- Multiple identification method: fingerprint, card, fingerprint + card, ID + fingerprint, ID + password, card + password
- Customizable voice prompt and time attendance status. Display user picture, personal and public message
- User can select local language in the menu
- 3 million pixel camera, speaker, microphone, 1 USB and 1 RJ45 interface
- Support TCP/IP, RS232/485, USB Host, 2G TF card, optional WIFI inbuilt
- Standard RFID card reader, optional Mifare or HID card reader
- Optional SC021 or SC822 access controller for separate type secure access control system
- Support realtime record download, online monitor, remote access control, and server identification etc

Operating System: WinCE

Camera: 3 Million Pixel Camera / Algorithm: BioNANO V10

Sensor: AFOS300 Optical Sensor / LCD: Samsung 3.5 Inch TFT Display

Fingerprint Capacity: 3000/5000 / Log Capacity: >50000

Identification Mode: FP, Card, ID+FP, ID+PW, PW+Card, FP+Card / FRR: 0.001% / FAR: 0.00001%

Communication Interface: TCP/IP, RS232, USB HOST, Relay Out, Wiegand In&Out, Optional WiFi

Card Reader Module: Standard 125KHZ EM RFID, Optional 13.56MHZ Mifare and 125KHZ HID

Photo Display: Yes / Fingerprint Image Display: Yes

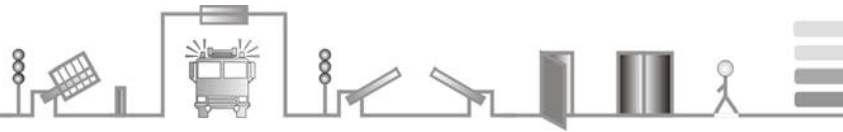
Workcode: Yes / Short Message: 50 / Scheduled Bell: 30

Self-service Record Inquiry: Yes / Door Sensor: Yes

Operating Voltage: DC 12V / Size: 180(W)*137(H)*40(D)mm / Temperature: -10°C~40°C

Certificates: FCC, CE

Applicable Situation: Up to 1500/2500 Employees



AOA200: otisak & kartica

AOC200: kartica

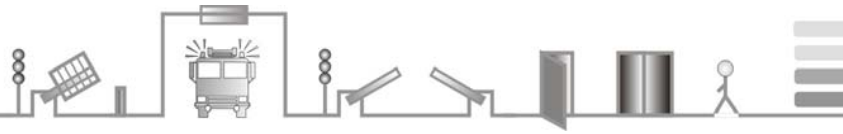
ethernet

is the fingerprint time attendance and access control system designed for medium to large size businesses. It integrates LCD, keypad, optical fingerprint sensor, card reader and access control components. AOA200 has a ultra slim design with the thickness of only 3cm, which makes it extremely elegant on the wall. Stylish blue LCD can display 9 languages for different local market. Optional ID, Mifare and HID card

reader is specially designed for the existing card users and higher security level. In addition, with unique Status button, users can have great convenience to manage complicated custom-defined job code or time attendance status in practical situation.

- World leading brand. Korean industrial design. Blue LCD. World super slim
- Anviz optical fingerprint reader. Scratch-proof, unbreakable and durable. Well accept all kinds of fingerprints
- Improved 2006 version core module. 32 bit embedded Arm system. Super dual processor. High performance and reliability
- Stand-alone without being connected with computer. Standard fingerprint capacity 2000. Standard record capacity 50000
- Multiple identification method: fingerprint, card, fingerprint + card, ID + fingerprint, ID + password, card + password
- Optional ID, Mifare or HID card reader
- Support user name display. 16 customizable time attendance status. Multimedia voice prompt
- Standard RS232/485 and TCP/IP communication. Wiegand26 and dry contact output
- Optional SC021 or SC822 access controller for separate type secure access control system
- Support realtime record download and WEB online tracking function
- Suitable for all kinds of complicated time attendance management. Easy-to-use and user-friendly software

Algorithm: BioNANO V10 / Sensor: AFOS300 Optical Sensor
Scan Area: 22mm*18mm / Resolution: 500 DPI / LCD: Blue LCD
Fingerprint Capacity: 2000/5000(Optional) / Log Capacity: 50000/150000(Optional)
Identification Mode: FP, Card, ID+FP, ID+PW, PW+Card, FP+Card
Identification Time: <0.5 Sec / FRR: 0.001% / FAR: 0.00001%
Communication Interface: USB Host, TCP/IP, RS232/485, Wiegand Out
Card Reader Module: Optional 125KHZ EM RFID, 13.56MHZ Mifare and 125KHZ HID
Status: 16 / Self-defined Status: Yes
Size: 140(w)*190(h)*30(d)mm / Temperature: -10°C~40°C / Operating Voltage: DC 12V
Certificates: FCC, CE Applicable Situation: Up to 1000/2500 Employees



ACAM100: kartica
Waterproof
ethernet



ČITAČA & KONTROLER - „all in one - ethernet“

ZA PROFESIONALNE SISTEME EVIDENCIJE I KONTROLE PRISTUPA

ACCESS CONTROL Ethernet Smart CARD READER

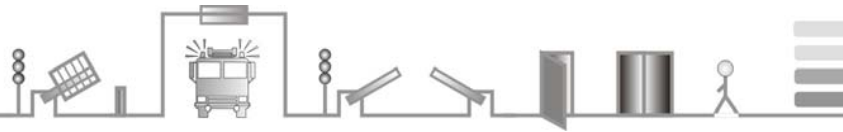
Waterproof. ACAM100 RFID Smart Card Access control reader. It's Waterproof with RS232 / 484, TCP/IP interface, and 3 Color LED Indicators (Blue ,Red and Green) with audible beep, etc...

Features:

- Elegant design with Acrylic plastic;
- Revolutionary products in industry with TCP/IP interface, avoid RS485 communication and low speed for transferring data, standalone or network deployment;
- Protect the data with encrypted technology;
- Professional access control function: 50 time zones, 5 groups, 10 open door combination, support multi users entry;
- Built-in relay contacts lock, alarm, door sensor & exit button;
- Wiegand input & output enables Master/Slaver access control. Embedded web server: support browser to inquire access data at local or remote. No LCD and no keypad enhance the functions of waterproof and dustproof. Professional access control software for management

Benefits

- Card Holders: 30,000 cards; Transaction Capacity: 50,000 events
- Read Range:5-10 cm ; Reading Time (Card):<30mS
- Platform:ZEM500 (Embedded Linux O/S). · Communication: RS232/484,TCP/IP.
- Built-in Relay for Door Sensor, alarm, EM-Strike/Magnetic lock, exit button.
- 26 bit Wiegand Input / Output.
- LED Indicator: 3 Color LED Indicators (Blue ,Red and Green) with audible beep
- Blue: Normal standby mode; Red: Access denied; Green: Access granted
- Power/Current: DC12V/ Max.3 A
- Dimension (W x H x T): 153x95.5x35.5mm
- Operating Temperature: 0C-45C; Operating Humidity:20%-80%



TA60: otisak & kartica

TA60+: otisak & kartica

ethernet

TA60 is a professional fingerprint access control system which fully integrates LCD, keypad, optical fingerprint sensor, card reader and professional access control components. The very compact design makes it suitable for installation on door frame. TA60 can be used for both simple access control and separate type secure access control. In addition, TA60 has Wiegand input, alarm output and doorbell output for a complete access control solution.

USB device, RS485 and TCP/IP communication is available for all kinds of installation sites. Optional ID, Mifare and HID card reader is specially designed for the existing card users and higher security level. TA60 can work perfectly to meet different demand for access control. ● World leading brand. Korean industrial design. Elegant white LCD ● New generation fully sealed, waterproof and dustproof fingerprint sensor ● BioNano core fingerprint algorithm for T&A and access control, high performance and reliability ● Professional fingerprint strengthen membrane. Improved performance to dry or wet fingers. ● Easy maintenance. 360 degree identification ● Stand-alone without being connected with computer. Standard fingerprint capacity 2000. Standard record capacity 50000 ● Multiple identification method: FP, ID+PW, ID+FP, ID+Card, Card ● Optional ID, Mifare or HID card reader ● Standard Mini USB, RS232/485 and optional TCP/IP communication ● Can directly drive the electric lock to open the door. Optional SC021 or SC822 access controller for separate type secure access control ● Tamper alarm output to connect with alarm equipment outside and output the alarm card No. to controller by Wiegand26 ● Support time zone, group access control and realtime data monitor, easy-to-use and use-friendly software ● Wall mounted, combine 2-in-1 function for time attendance and access control

Algorithm: BioNANO V10

Sensor: AFOS300 Optical Sensor / Scan Area: 22mm*18mm / Resolution: 500 DPI

LCD: 128*64 White LCD / Fingerprint Capacity: 2000 / Log Capacity: 50000

Identification Mode: FP, Card, ID+FP, ID+PW, PW+Card, FP+Card

Identification Time: <0.5 Sec / FRR: 0.001% / FAR: 0.00001%

Communication Interface: RS485, USB Device, **TCP/IP**, Wiegand In&Out

Card Reader Module: Optional 125KHZ EM RFID, 13.56MHZ Mifare and 125KHZ HID

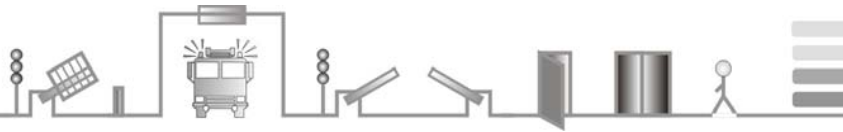
Self-defined Status: 16 / Access Groups & Time Schedules: 15 Groups, 32 Time Zones

Tamper Alarm: Yes / Operating Voltage: DC 12V / Size: 90(h)*200(w)*35(d)mm

Temperature: -10°C~40°C

IP Level: IP53 (**Optional Waterproof Cover TA60+**) / Certificates: FCC, CE

Applicable Situation: Up to 1000 Users



TA50: otisak ethernet



TA50 is new generation of simple fingerprint time attendance and access control. With TI latest 300MHz DSP of high performance, high-speed fingerprint identification can be easily realized. TA50 fingerprint time attendance and access control has the most compact design in the world. It integrates LCD, easy keypad and optical fingerprint sensor. Easy network management through RS485 or TCP/IP. Anviz self-develops and designs optical fingerprint sensor, hardware circuit and fingerprint algorithm. The completely self-owned intellectual property right makes a high performance-price ratio for TA50. ● World leading brand. Simplicity-led design ● New generation fully sealed, waterproof and dustproof fingerprint sensor. BioNano core fingerprint algorithm ● Stylish blue LCD. Musical buzzer ● Stand-alone without being connected with computer. Standard 512 fingerprints. Can be expanded to 1000 fingerprints ● Standard 32000 records ● Multiple identification method: fingerprint only, ID + password, ID + fingerprint ● Standard RS485, Wiegand26 output, dry contact output, optional TCP/IP network interface ● Optional Anviz SC021 or SC822 access controller for separate type secure access control ● Optional waterproof cover for outdoor use. Door bell button for direct connection with door bell ● Wall mounted. Combined 2-in-1 function for both time attendance and access control

Algorithm: BioNANO V10 / Sensor: AFOS300 Optical Sensor

Scan Area: 22mm*18mm / Resolution: 500 DPI

LCD: Blue LCD / Fingerprint Capacity 1000 / Log Capacity: 32000

Identification Mode FP, ID+FP, ID+PW / Identification Time: <0.5 Sec / FRR: 0.001% / FAR: 0.00001%

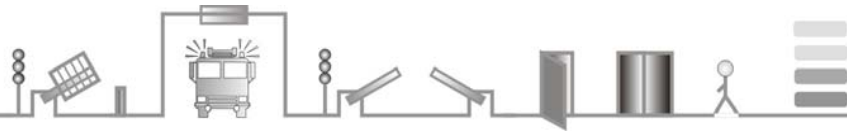
Communication Interface: RS232, RS485, TCP/IP, Wiegand Out

Case Material: Metal Case(Optional)

Size: 74(w)*144(h)*40(d)mm / Temperature: -10°C~40°C

IP Level: IP53(Optional Waterproof Cover) / Certificates: FCC, CE

Applicable Situation: Up to 500 Users



VAF30 fingerprint access control and time attendance is a professional access control system developed for small to medium size businesses for security. It integrates fingerprint identification, RFID, burglar alarm, time attendance and access control functions etc., with fashionable and elegant appearance and reliable quality. It has high quality musical buzzer, multiple language display, user friendly interface and powerful communication function suitable for data management in various environments. It comes with functional background management software, compatible with various

types of database. It supports time zone and group access control for high security level. It is versatile, convenient and multi-functional.

VAF30 fingerprint professional access control and time attendance system

Item: Description

Processor: 32-bit ARM MCU

Algorithm: BioNANO V10

Sensor: AFOS300 Optical Sensor

Sensor Wake Up Mode: Infrared

Scan Area: 22mm*18mm

Resolution: 500 DPI

LCD: 128*64 white LCD

Fingerprint Capacity: 1000

Log Capacity: 32000

Identification Mode: FP, Card, ID+FP, ID+PW, PW+Card, FP+Card

Identification Time: <0.5 Sec

FRR: 0.001%

FAR: 0.00001%

Communication Interface: USB Device, TCP/IP, Wiegand In&Out

Card Reader Module: Optional 125KHZ EM RFID, 13.56MHZ Mifare and 125KHZ HID

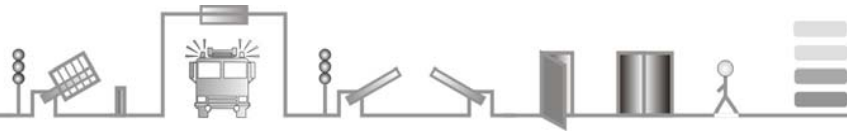
Self-defined Status : 16

Work code: Yes

Short Message: 50

Scheduled Bell: 30

Relay: DC 12V, Relay Output(COM, NO, NC)



VP30 card access control and time attendance is a professional access control system developed for small to medium size businesses for security. It integrates fingerprint identification, RFID, burglar alarm, time attendance and access control functions etc., with fashionable and elegant appearance and reliable quality. It has high quality musical buzzer, multiple language display, user friendly interface and powerful communication function suitable for data management in various environments. It comes with functional background management software, compatible with various types of database. It supports time

zone and group access control for high security level. It is versatile, convenient and multi-functional.

- Multiple languages including English, French, Spanish, Portuguese and Chinese etc.
- White backlit keypad with 10 numeric keys and 7 function keys
- Standard RFID card reader, optional Mifare/HID card reader
- RS485, USB device and TCP/IP for network connection
- Support wiegand input/output. Tamper alarm output to connect with alarm equipment outside
- Alarm card No. can be sent to controller by Wiegand 26
- Direct lock control to open door
- Optional SC021/SC822 or any other standard access controller for separate type secure access control system
- Unique infrared auto wakeup design
- Support realtime record download and WEB online tracking function
- Time zone and group access control, realtime data transfer monitor
- Identification method: Card, Password
- Standard 10000 card users and 100000 records
- Wall mounted, combine 2-in-1 function for access control and time attendance

VAP30 ID Card professional access control and time attendance system

Item: Description

LCD: 128*64 white LCD; Card Capacity: 10000; Log Capacity: 100000

Identification Mode: Card, ID+PW, PW+Card

Communication Interface: RS485, USB Device, TCP/IP, Wiegand In&Out

Card Reader Module: Standard 125KHZ EM RFID, optional 13.56MHZ Mifare and 125KHZ HID

Self-defined Status : 16; Workcode: Yes

Short Message: 50; Scheduled Bell: 30

Relay: DC 12V, Relay Output(COM, NO, NC)

Access Groups & Time Schedules: 15 Groups, 32 Time Zones

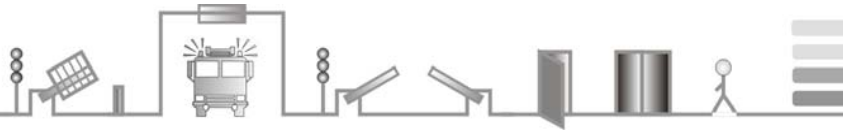
Door Sensor: Yes; Tamper Alarm: Yes; Operating Voltage: DC 12V

Size: 80(w)*180(h)*40(d)mm

Temperature: -10□~40□; IP Level: IP53(Optional Waterproof Cover)

Certificates: FCC, CE;

Applicable Situation: Up to 10000 Users



Application 1 :

- 1.Laser barcode reader module
- 2.GPRS module (built-in-aerial)

Application 2 :

1. Laser barcode reader module
2. Read/write Philips Series or RFID module in accordance with ISO14443A/B or ISO15693, such as Mifare series , DESfire , I-code or Tag-it and PicoTag and so on.

ACM318C: 1D Bar Code scanner & Mifare proximity reade

Specification Parameters:

Processor: 32-bit CPU

Memory: Flash Memory: 16Mbit (can be extended to 32Mbit or 64Mbit), DRAM:16Mbit

Display: 128*128 dot , EL backlight ,

8*8lines Chinese characters

16*16lines western characters, one line icons

Keypad: 28 keys with backlight

IC card interface: one outlay interface, support RS-232 serial, one IrDA interface

Battery system: 1700mAH recharge lithium battery;

and a button battery fixed in main board to keep the clock

Quiver function: Yes

Buzzer: Yes

Working environment temperature: - 20℃ ~ 50℃

Relatively humidity: 45%RH ~ 85%RH(no coagulate dew)

Power: Average <0.5W,max<3.5W

Appearance size: 175(H) * 68(W) * 40(T) mm

Net weight: 278g



ACAM318B **prenosivi uredjaj**

Fingerprint & Smart Card Hand-held system

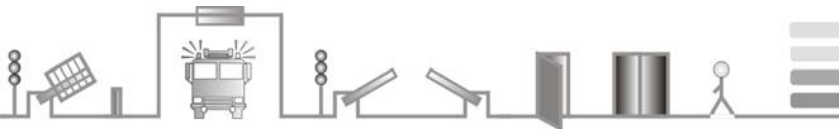
ACAM318B Fingerprint & Smart Card Hand-held system, with 1 standard (8 pins full function) IC card interface.

Micro processor: 32-bit CPU
Display: 128x64 dot, EL backlight, 8x4 lines Chinese characters (16x8 lines western characters), and one-line icons

Memory: FLASH MEMORY: 16Mbit (can be extended to 64Mbit); DRAM: 16Mbit;
Keyboard: 16 keys with backlight, one jog dialer
IC card interface: 1 standard (8 pins full function) IC card interface, 1(8 pins full functions) SAM card socket (optional), compatible with card accord with T=0/T=1 protocol
Communication interface: 1 standard RS232 interface, 1 IrDA interface.
Batteries systems: 850MAH recharge lithium battery
Working environment temperature: -20°C-50°C
Relatively humidity: 45%RH—85%RH (no coagulate dew)
Power: average<0.5W, max<3.5W
Appearance size: 154x67x30mm
Net weight: 170g
Contactless part (illustrated with Mifare 1 or Ultralight)
-Working frequency: 13.56MHZ
-Ant collision: be able to read/write several cards at one time
-SAM card operation, read/write CPU card accord with T=0/T=1 protocol
-Read/write distance: within 20mm

Character:

Support 1:1or 1:N spot fingerprint match mode.
Support contactless smart cards in accordance with ISO7816.
Support contactless smart cards in accordance with ISO14443 Type A/B, such as Mifare series, INSIDE series, and Legic card.
Support tags in accordance with ISO15693, such as I-code series, INSIDE series and TI series.
Support ID card such as EM, Temic.



ACAM848 prenosivi uredjaj

Wireless/GPRS and Smart Card Handheld Terminal with 32-bit CPU Microprocessor and EL Backlight, Working frequency: 13.56MHz . The handheld computer designed to perform in the harshest conditions in your warehouse, manufacturing facility, yard, distribution centre or port or market, etc.

ACAM848:

Key Specifications/Special Features:

Barcode scan module

Supports barcode:

UPC-A, UPC-E and EAN (8, 13 and 128), CODE (128, 39 and 93) and POST 25

Scan rate: 78 scan / second

Scan distance: **10 to 520mm**

Scan width: contact 250mm (maximum)

Resolution: 0.15mm (minimum)

High resolution: 0.125mm (maximum)

Communications: RS232 (maximum: 115,200bps) / IrDA 1.1 / 433MHz

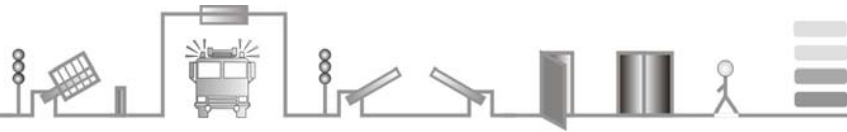
Optional : GPRS (900, 1,800 and 1,900MHz) / USB

Options:

CF card slot

Non-contact card module or RFID module

supports ISO144443A/ISO15693



CA5000W

PRENOSIVI Data Terminal

- Robustan
- "Water & Dust Proof"
- konobari
- Terapeuti
- ...



Physical characteristics

Dimensions: 186.5*75*38.9mm

Weight: 500g (with battery)

Screen: 3.2" QVGA backlight TFT-LCD,
65K colors. 240 x 320 (QVGA size)

Touch panel: glass analog resistive touch / **Backlight:** LED backlight

Battery: rechargeable li-ion polymer battery (3.7V/4,000mAh)

Expansion slots: support SIM/SAM and Micro SD (TF) card / **Indicator:** LED / **Camera:** 3.2 mega pixels (optional) / **Input method:** touch input with stylus and soft keyboard input / **Audio:** 0.5 watt / **Keys:** 31 soft silica gel keys

Programming environment: C# and C++, .Net programming using Microsoft Visual Studio 2005&2008; Software Development Kits (SDK) provided

Operating system (optional): Windows Embedded CE 6.0 core / Windows Embedded CE 6.0 pro

Environmental

Operating temperature: -20 ~ 50 / **Storage temperature:** -25 ~ 70 / **Humidity:** 5%RH ~ 95%R (non Condensing) / **Dropping survive:** 1.5-meter drop test on six sides (concrete floor, under operating temperature range) / **Rolling survive:** 1,000 times, 0.5 meter, rolling by six contact surfaces /

Environmental sealing: IP64

Performance: CPU: Samsung ARM920T@533MHz / **Memory:** 128MB RAM/1GB Flash **Interfaces:** USB 2.0; RS232

RFID LF (optional)

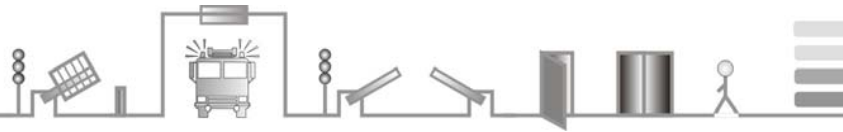
Operating frequency: 125K, 134.2K / **Protocol:** ISO11784, ISO11785 / **Read/write range:** 0cm ~ 8cm

RFID HF (optional)

Operating frequency: 13.56 MHz / **Protocol:** ISO14443A/B, 15693 (optional) / **Read/write range:** 0cm ~ 10cm

Wireless WAN (optional) : Network (WWAN): GPRS/GSM (900MHz/1,800MHz)

Wireless LAN (optional) : WIFI: muRata IEEE802.11b/g



Wireless PAN (optional) : Bluetooth:
Class II, 3-5M

PSAM (optional) / Baud rate: 9600,
19200, 38400, 43000, 56000, 57600,
115200

SAM Slots: maximum 2

1D laser scanner (optional)

Brand: Symbol SE955 **Types:** UPC/EAN,
Code128, Code39, Code93, Code11,
Interleaved 2 of 5, Discrete 2 of 5,
Chinese 2 of 5, Codabar, MSI, RSS

2D scan engine (optional)

Brand: Symbol SE4500 **Types:** **1D:** All
major codes; **2D:** PDF417,
MicroPDF417, Composite, RSS, TLC-
39, Datamatrix, QR code, Micro QR
code, Aztec, MaxiCode; **Postal Codes:**
US PostNet, US Planet, UK Postal,
Australian Postal, Japan Postal Dutch
Postal (KIX)

GPS (optional)

Module: u-blox NEO-5Q /
Performance: 50-channel u-blox 5
positioning engine, Internal GPS.

Localization time: hot start-1 sec, warm start-38 secs, cold start-42 secs,

Camera (optional)

Samsung 3.2 mega pixels, 2048 (H)*1536 (V), QXGA

Printer (optional)

Size: 118*99*55mm / **Communication:** Bluetooth 2.0

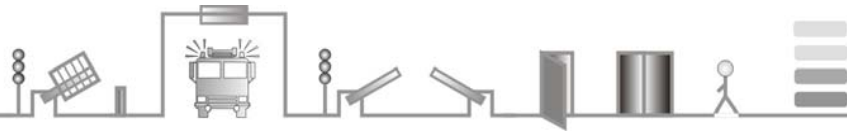
Paper width: 78mm / **Paper roll diameter:** 45mm

Weight (including battery): 255g

Resolution: 203dpi **Battery:** rechargeable lithium battery 7.4V/1,500mAh **Accessories:** thermal paper,
carrying case, power adapter, battery

Accessories

Battery, Charger/adaptor, Data cables, Carrying case, Micro SD (TF) card, Optional cradle and thermal
printer. Refer to Accessories Appendix.



MULTIMEDIJALNI ACAM880 kartica & kamera

Features

- Built-in proximity card reader module enables fast and accurate verification.
- 3.5" TFT screen and integrated camera which make T&A application more visible
- Professional access control interfaces for alarm, magnetic lock, exit button, door
- sensor

- Photo-ID function enables user-friendly with user's photo displayed
- 8 user-defined function keys
- Embedded web server enables user to inquire data at local or remote via browser
- Built-in USB slot for manual data transfer when network is not available
- Multi language Optional: English, Spanish, French, etc
- More helpful function like work code, T9 input method, short message, bell scheduling,
- day-light-saving, self-service inquiry all standard
- Optional integrated Wi-Fi or GPRS module available for wireless communication
- SDK available for OEM customers and software developers

Technical Specification

- Card capacity: 50,000 / · Event capacity 150,000
- Hardware Platform: ZEM510 / · Operation System: Linux
- Display: 3.5" TFT LCD / · LED indicator: Red , Green
- RF card: Proximity (125KHz)
- Communication Interface: TCP/IP, RS485/232 / · USB Memory Slot: USB Host
- Output relay: EM lock, automatic door / · Wiegand Input/Output
- Identification speed: ≤0.8 sec / · FAR: ≤0.01% / · FRR: ≤0.0001%
- Operation temperature: 0-45 / · Operation humidity: 20%-80%
 - Standard functions: ID card, Work code, Photo-ID,
 - Web server, SMS, Scheduled-Bell, T9 input,
- Optional functions: Mifare/HID card, Wi-Fi, GPRS
- Language: English, French, Spanish...



ACAM103, Mifare

RFID Card Access control and T/A Recorder and Access control system

Product Description: It's an import proximity T&A and A&C system, as it adopts proximity communication PSK and encrypt professional proximity card to check ID, which is much safer and more credible than those without encrypt proximity cards. Recheck the 5 PIN inputted by card holder, which is a senior and safe equipment, achieve the professional management of automatic and modern C&A and T&A. In the operation process, this Series could offer 3 different manners. The first one is the most convenient one--use proximity card

directly; the second way is to use both card and 5 No.'s code, which is the most precise one; the third way is the most simplest--use 1-5 No.'s code. When the user is threaten to open the door, a kind of intimidating card or code could be used to output a soundless alarm signal through auto-dial machine which was connected with the alarm system. The anti-pass function is optional, which can prevent those person who has no authorization but through following others enter the room. this Series' input and output interface could be used for linking other exterior system accessories. For example, it could connect release button and set the effective period; if the door was not closed in time, the relay will output an alarm; when some emergent flee is required, the breaker could shatter the vitreous door and send out an alarm; it could connect with fire alarm system and open the door automatically right after it received a fire alarm and at the same time will send alarms out. This Series were developed in LINUX system. It could use USB flash disk to download the data. It has the massage function which will be shown at the certain date; after setting, when the certain person checks in, the massage will show a reminding massage on the LCD. this Series have inner background light for LCD and keypad. It could work stand alone and keep the records. Meanwhile, through RS232, RS485 or TCP/IP, it could be managed the system by PC. THis Series are certificated by CE, UL, FCC and MIC, they're the best choice for the users who require safe, high quality, reliable and steady. Benefits: User Capacity: 30000; Transaction Capacity: 50000 · With 10 cm Proximity Reader and LCD inside · Standalone or contacted PC with RS232 or RS485 or TCP/IP · Download records with U-Disk · Identification: Standalone proximity card, proximity+5 bits code, 1 to 5 bits PIN number. · Users can set up threatened alarm and code by themselves. · Access Control: 50 Time Zone, 5Grouping, 10 Combination, support many fingerprint access. Easy operation of function keys. · Operated in night with 16 bits backlight keyboard. · Authentication: UL, CE, FCC, MIC · The Hardware Design adopts international fashionable POE, applying professional anti-static and anti-jamming protection. All input/output are designed with over-voltage & circuit protection, illegal-dismantle alarm & professional alarm system, voltage control & compliable surveillance system. Besides, it's completely waterproof. All these advantages make an excellent performance. Technical Specification : · Card Holders: 30000 cards · Transaction Capacity: 50000 records · CPU: 64bit 6001 Microprocessor · Hardware: 500(Embedded Linux O/S) · Access Mode: Card Only, PIN Only, Card+PIN · Read Range: 10-15 cm · I/O Interface: RS232/485 · Baud Rate: 9600-115Kbps programmable · Ethernet: 10/100M · Wiegand I/O: any bit · USB: Mini-USB 2.0 port · Access Control Function: 50time zones, 5groups, 10open door combination, supports multi-users enter. TTL for connecting to lock, door sensor, exit button, alarm · LCD Panel: 4 line, 16 character each line(User name, ID number, time, date, states) · Keypad: 4*4 metal keypad with 4 function keys · Audio Visual Indicator: Red LED(Access denied)/ Green LED(Access granted) with Audible Beep · Housing Material: ABS · Power Requirement: 12V DC, 400mA · Operating Temperature: 0°C-45°C Operating Humidity: 20%-80% · Options: Web server, Anti pass-back, Multi-language display.



TAR515E

Pravi

ON-LINE (real time) uređaj

TAR515E Ethernet-interfaced Time Recorder is simple to install and operate, this Time and Attendance terminal provides all the basic Time Recorder functionality in an attractive and cost-effective package. Extremely versatile, TAR515E terminal can be used as either a wall-mount or as a desktop device. An excellent viewing angle is provided in both orientations by rotating the unit 180 degrees.

Features:

- ☑ Ethernet interface connected to Ethernet hub
- ☑ Works on a standard TCP/IP network
- ☑ Bright, high-contrast blue LED display shows time of day, last 4 digits of the ID-code and error messages
- ☑ Approximately 8200 records storage capacity
- ☑ Convenient Machine Number setup feature using IN and OUT buttons simplifies multi-terminal installation
- ☑ Built-in Ring relay for external ring (bell) control
- ☑ Daily bell schedule of up to 32 different entries
- ☑ Built-in Magnetic Card, RFID or Mifare reader 13.56Mhz or Barcode reader
- ☑ Two buttons for clocking IN and OUT.

Specifications:

Display : 4 x 7-segment Blue light LED

Magnetic card reader : ISO Track 2, 75 BPI

Barcode reader : Visible or IR, numerical Code 39

RFID reader : 125 KHz, ASK, 64 bits, Manchester coding or Mifare reader 13.56Mhz

Database capacity : App. 8200 records

Supported interface : Ethernet, TCP/IP protocol

Bell control relay : 1A, 12 V max. Power supply : DC 9 V, 500 mA

Dimensions : W185 x H110 x D51 mm

Installation : Wall-mount or desktop

Operating temperature : 0 ~ 55 Deg. C

Operating humidity : 5 ~ 95 % relative

☑ POE is available from now on

Available versions:

[TAR515EM - with Magnetic card reader](#)

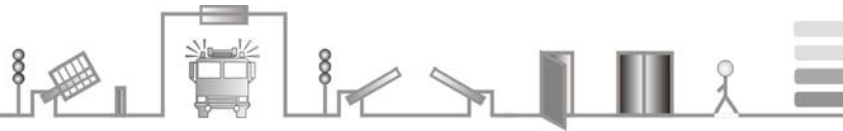
[TAR515ER - with RFID card reader](#)

[TAR515EMF - with Mifare RFID card reader, 13.56Mhz](#)

[TAR515EB - with LED Barcode card reader](#)

[TAR515EF - with IR Barcode card reader](#)

Also available with Multi-Metro Cards or HID version, support HID PROX credentials



SERIJA PROFESIONAL



Controller BOX



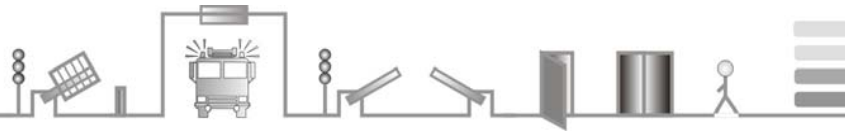
SERIJA KONTROLERA ACAM0x

ZA VISOKO PROFESIONALNE SISTEME EVIDENCIJE I KONTROLE PRISTUPA

PROFESSIONAL TIME ATTENDANCE AND ACCESS CONTROL SYSTEM

Both: on-line (Ethernet) / off-line (Ethernet, RS232), - Anti-Pass & Time Zone “professional functions Time zone/AntiPass/TCP/IP / Access Controllers provide the solution for powerful combinations of access control and alarm monitoring within off-line networks. Access Controller fits any type of installations, up to **30,000** users, **100,000** records (off-line) from single buildings to multiple sites spread over remote locations and linked via RS485, RS232 or TCP/IP. The user-friendly Access software programs the system within a few minutes, from a non-dedicated PC. Access Software provides numerous access control and alarm monitoring features: expiry date for clubs, automatic activation, interlock between two doors, time zones, supervision, anti-pass back, activity reports... Each alarm input is programmable: operating mode - NO or NC), time zones, local reflex - activation of outputs according to input status). Specific alarms are triggered according to the number of unsuccessful attempts, the time limit for door closing - door alarm), the duress code... Whenever required, the data stored in the controllers is transferred to the computer and activity reports are printed. Each controller works independently and keeps its own database. Installation; The installation is set up within a few minutes. In case of power cut, the back-up battery - up to 12V- 17 A/h) ensures numerous hours of full autonomy. Visual LEDs indicate the inputs, outputs and communication status. Database Support: ACCESS; Baud Rate: 9600 bps for RS232, 10/100M for TCP/IP; Operating Temperature: -40C – 70C Power Supply Input: 12 VDC; Operational humidity: 0 to 95% RH; Working voltage: 9.5 V to 14 VDC, Current consumption: max. 100 mA. **SDK**

ACAM01 control 1 door / 2 readers/1 doors button (1 In and 1 Out)
ACAM02 control 2 doors / 4 readers/2 doors button (2 In and 2 Out)
ACAM04 control 4 doors / 4 readers/ 4 doors button (4 In or 4 Out)
Professional BOX for controller, power supply and battery back-up

**ACAM26A:** EM / Mifare Card Reader,**waterproof**

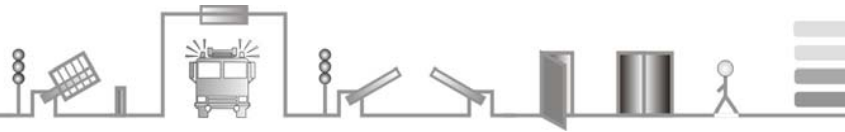
Dimension (mm): L120mm x W75mm x H211mm ; Power Supply: DC9~12V; Static Power Supply: 50~60mA ; Operating Frequency: 125KHz/13.56MHz ; Output Interface: Interface with standard wiegand 26, photovoltaic seclusion OC gate output Max Transmitting Distance: 200 meters (in ideal condition) ; Temperature: - 20°C~60°C ; PCB 100% EM and Mifare two functions for option ; **Read Card: EM And Mifare Card**

**ACAM26M:** EM / Mifare Card Reader**waterproof**

Can read 5 to 10cm short range 125 kHz / or 13.56 MHz reader with wiegand 26, wiegand 34 or RS232 protocol. 5-10cm Proximity Range; Ambient Temperature:-25°C to 75°C Ambient Humidity: 10%-90% ; Built-in Antenna; Built-in LED (Double Color LED); Built-in Loud Speaker (Buzzer); 100 Meters Communication Distance; Real Time Data Transfer; PVC Case Material ; With Water-Proof Function.

**ACAM01A:** EM / Mifare Card Reader

5 to 10 cm short range 125 KHz or 13.56 MHz Card reader with wiegand 26, wiegand 34 protocol. Specification - Wiegand 26bits/ Wiegand34bits Standard Format Data Output - Less than 0.2 second Response Speed - 5-10cm Proximity Range - Support EM-ID, M1card, 15693card, 14443A or 14443B Card - Ambient Temperature:-25°C to 75°C - Ambient Humidity: 10%-90% - Built-in Antenna - Built-in LED (Double Color LED) - Built-in Loud Speaker (Buzzer) - DC 9V-16V Working Voltage. Standard 12V, 70mA Working Current - 90 Meters Communication Distance - Real Time Data Transfer - With Water-Proof Function - Audiovisual indication: When a registered card is presented to the reader, LED flashes green and the beep sounds. - 115 - 76 - 18(mm) Or 80 - 43 - 16(mm) - Package: 100pcs per carton. Carton Size: 43.5 - 56 - 23(cm) - Color: Black, white

**ACAM26H:** Mifare Card Reader**waterproof**

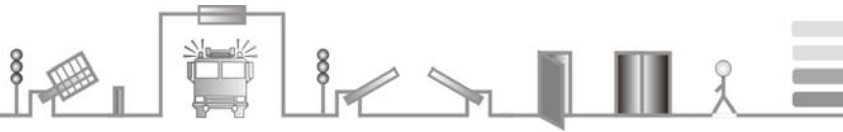
Wiegand 26bits/ Wiegand34bits/ABA standard format data output / Less than 0.2 second response speed / Less than 0.5 seconds proximity time distance: 2 to 15cm proximity range /Supports UEM 4,100 ID card or compatible with it (64bits, Manchester Code) and Mifare 1 card (13.56 MHz frequency) / Ambient temperature : -25 to 75 / Ambient humidity: 10 to 90% /Built-in antenna / Built-in LED (double color LED) / Built-in loudspeaker (Buzzer) / DC 12V working voltage, 70mA working current / 100m communication distance / Real time data transfer / Color: black PVC case material (black resin for water-resistant function) / Size: 119 x 53 x 25mm

ACAM26P: EM / Mifare Card Reader**metal case**

smart card reader, with 10 cm short range EM 125 KHz or 13.56 MHz Mifare Card reader with wiegand 26, wiegand 34 protocol, Ambient Temperature:**-25°C to 75°C**; Ambient Humidity: 10%- 90% ; Built-in Antenna; Built-in LED (Double Color LED); Built-in Loud Speaker (Buzzer); DC 9V-16V Working Voltage. Standard 12V, 70mA Working Current; 100 Meters Communication Distance, Real Time Data Transfer. **EM, Mifare, HID, ...**

ACM08Y: EM Card Reader**long range****waterproof**

RFID 1meter 125Khz long range reader, Reader card speed: 0.2/s Sensing **distance:0 - 90cm** ; Frequency: 125kHz ; Operating temperature: -25 - 75°C / Operating humidity: 10 - 90% ; Working voltage: DC 12V ; Working current: 70mAh / Read range: 70 - 100cm ; Color: black ; Dimensions: Size: 260*260*35(mm)

**CARF-121A/B/C/D:** EM / Mifare Card Reader

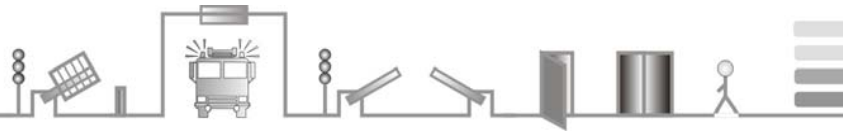
Water proof design made in epoxy / Built-in transceiver antenna; 125 KHz (EM) or 13.56 MHz (MIFARE) / Maximum effective distance up to 100-200mm (EM), 75mm (MIFARE); Less than 100ms decoding time; Low power dissipation with wide range single power supply; RS232 interface with multiple output format optional; Voltage protect: be compatible with converse voltage /Supply voltage: 12VDC (±20%) Support UEM4100 compatible read only tags (64Bits, Manchester coding); Built-in: BI-color LED and buzzer. Color: silver or dark Temperature: **-30°C - 80°C**.

**CARF-122A/B/C/D:** EM / Mifare Card Reader

Built-in transceiver antenna; 125 KHz (EM) or 13.56 MHz (MIFARE) / Maximum effective distance up to 100-200mm (EM), 75mm (MIFARE); Less than 100ms decoding time; Low power dissipation with wide range single power supply; RS232 interface with multiple output format optional; Voltage protect: be compatible with converse voltage /Supply voltage: 12VDC (±20%) Support UEM4100 compatible read only tags (64Bits, Manchester coding); Built-in: BI-color LED and buzzer. Color: silver or dark Temperature: **-10°C - 80°C**.

**CARF-104A/B:** KeyPad EM / Mifare Card Reader

Water proof design / Built-in: BI-DI color LED and buzzer / Card Format: EM or Mifare / Frequency: 125 KHz / 13.56MHz / Induction distance: 1-160mm / Identification time: <100 ms / Output: Wiegand 26/34 bits/ Operating Voltage: 12VDC (±10%) / Static Current: 50mA / Operating Current: 60mA / Diameter: 75mm / Temperature: **-20 ~ 70** Degrees / Humidity: 10%~90% / Material: ABS / Size: L105*W82*H34 (mm)



SERIJA PROFESIONAL



TA5 is an innovative fingerprint card access reader which fully integrates fingerprint and RFID technology. The very compact design makes it suitable for installation on door frame. TA5 has standard Wiegand output to connect seamlessly with access controllers. TA5 can easily update the existing card readers for higher security level of fingerprint and card.

TA5: Fingerprint /EM / Mifare Card Reader / Wiegand 26 out / stand a lone

Čitač Beskontaktnih Kartica - Rang-4" & Scanner otiska prsta (kapacitet 500 fpt.), **Wiegand 26 & USB** ● Small in size and compact in design. Can be easily installed on doorframe ● New generation fully sealed, waterproof and dustproof fingerprint sensor. BioNano core fingerprint algorithm ● Steady 2011 version algorithm platform for T&A and access control, high performance and reliability ● Easy user enrollment on the unit via Master Card or in the management software on computer ● Identification method: fingerprint, card, fingerprint + card ● RFID , Mifare or HID card module. Compatible with industrial standard ● Fingerprint Storage Capacity: 512 ● Easy user enrollment on the unit via Master Card or in the management software on computer ● Communicate with computer via RS232 and RS485, USB device. ● Standard Wiegand26 output to connect with standard access controller ● Encrypted wiegand output to connect with Anviz simple access controller SC021

Algorithm-BioNANO V10 / Sensor-AFOS300 Optical Sensor

Sensor Wake Up Mode-Infrared / Scan Area-22mm*18mm / Resolution-500 DPI

Fingerprint Capacity-512 / Card Capacity-512 / Log Capacity-32000

Identification Mode-FP, Card, FP+Card

Identification Time: <0.5 Sec / FRR 0.001% / FAR 0.00001%

Communication Interface: RS232, RS485, USB Device, Wiegand Out

Card Reader Module: Standard 125KHZ EM RFID, Optional 13.56MHZ Mifare and 125KHZ HID

Relay: DC 12V, Relay Output(COM, NO, NC)

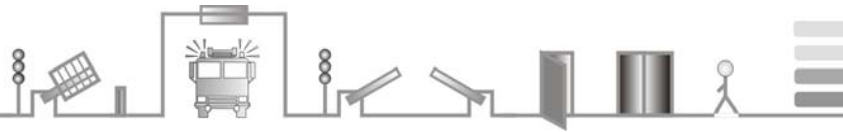
Size: 55(w)*145(h)*37(d)mm

Temperature: -10°C~40°C

IP Level: IP53(Optional Waterproof Cover)

Certificates: FCC, CE

Applicable Situation-Up to 250 Users



AOA99 is a USB fingerprint reader designed for use with Anviz fingerprint terminals or developer software. OA99 fingerprint reader utilizes optical fingerprint scanner which is scratch-proof, unbreakable and durable. Fingerprint reader utilizes blue area source (a stable light in spectrum) as background light. The generated image fully matches the real one.

AOA99: Fingerprint / desktop

Accurate and good in anti - interference. No latent fingerprint impact. In addition, full software developer kit is available for software development. Small in size, big in performance.

Image Format: 304*256 BMP

Identification Time: <20 ms / 1:5000 Search Time: <1 second

Image Reading Time: 15fps / FRR: 0.001% / FAR: 0.00001%

Standard Port: Standard USB port

Sensor Size: 22mm*18mm / Casing Size: 68(w)*74(h)*75(d)mm

Power: DC 5V

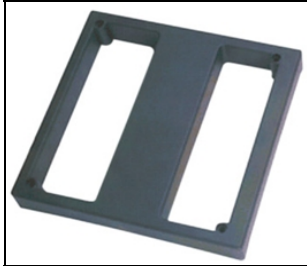
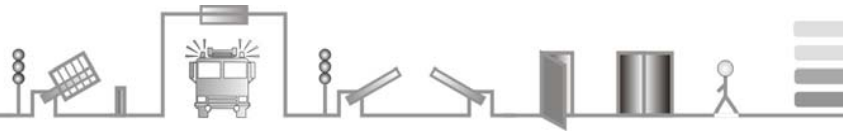
Option card reader, blue tooth, lithium battery

Test condition: 500DPI

Feature extraction + fingerprint comparison

Description

- New generation fully sealed, waterproof and dustproof fingerprint sensor
- Accurate image capture and good in anti-interference
- Fingerprint image of no-distortion
- USB connection
- Compact and portable design
- SDK available for software development
- Optional card reader, blue tooth and lithium battery



ACAM08Y – EM / Mifare Card Reader

Long range 1.2m/0.8m / Wigan

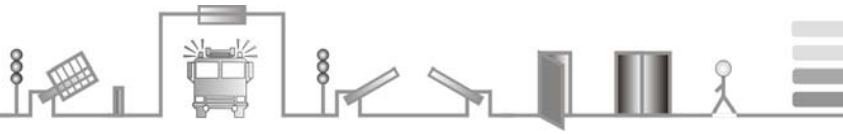
is a low cost and high performance proximity reader for reading ID code form UEM4100 compatible read-only tags. The CRF-210 reader features an extended reading range up to 800-1200mm. It is ideally suited to be applied in automatic parking system, personal identification, access control and production control system etc. Dimensions (W* H* D): 235* 240* 35mm

CARF-211 / EM Cards

DALC – UHF Tag Reader

Rang 2.5m , 3 , 6, 12, 15, up to 30m

Integrated UHF Reader(with Passive tags) 12M), Frequency: 15m 902-928MHZ, Operation Mode: Fixed Frequency or FHSS or Software Programmable, RF Power Output Adjustable: Power Output Adjustable Range 0.1W --- 1W, Built- in Antenna Type: Built-in horizontally polarized antenna. Communication Ports. 1 RS-232, 2 RS-485, 3 Weigand 26 bits \ 32bits, Communication Rates: Up to 57,600bps and software programmable, Reading / Writing Capability, Capability of Reading/Writing agreement of ISO18000-6B EPC Passive tags and software programmable., Able to decode EPC ISO-18000B. Reading Rang(Max): 20M Reading Rang(Reliable):12M, Programmable Application Platform: Allows Programmable Interface with host applications; Currently Supports Visual Basic or VC applications. Power Consumed, +12V DC Average power of less than 5W, Dimension / Weight 460x460x45MM, 5.0KG, Operation Temp, Working Temp. -35°~ +60 °, Storage Temp. -50°~ +80°



PREPOZNAVANJE GEOMETRIJE LICA



ACAM900

Introduction

ACAM900 multimodel Face identification time attendance and access control terminal adopts our latest technology. It integrated 630MHz high speed Multi-Bio processor and high definition infrared camera which enables user identification in the dark environment. The appearances of Face series are designed by Germany professional design company according to the view of human engineering. All operations of the device are designed to be finished on the 4.3 inches TFT touch screen. Multi-model communications includes RS232/485, TCP/IP, optional WiFi or GPRS. Optional built-in 2000 mAh battery eliminates the trouble of power-cut .

Features:

- Integration of Fingerprint, Facial, RFID, and Password identification methods.
- Elegant design according to the view of human engineering
- 4.3" TFT touch screen, easy operation, fashionable and simple interface.
- 6 user-defined function keys
- Web server management software via IE browser.
- Extendable scheduled-bell.
- Infrared optical system enables user identification in dark environment.
- Optional built-in backup battery support extra 4 hours continuous operation if power cut.
- Optional built-in wireless WiFi or GPRS communication makes easier device installation without wiring.



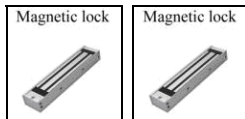
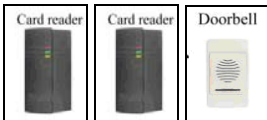
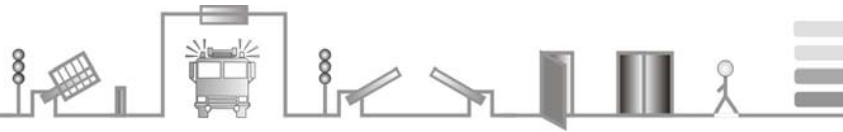
PREPOZNAVANJE GEOMETRIJE LICA



ACAM902

Technical Information:

- Processor: Multi-Bio 600
- Memory: 256M flash, 64 SDRAM
- Camera: High Definition Infrared Camera
- Display: 4.3" TFT with touch screen
- Storage Capacity:
 - Face:700
 - Card:10,000
 - Logs:100,000
- Back-up Battery:2000 mAh
- Communication: TCP/IP, RS232/485
- USB-HOST: Two
- T&A functions: Extendable Scheduled-bell, DLST, Self-Inquiry, Work Code, Short Message, T9 input Webserver
- Simple A&C function: electric lock, door sensor, exit button, Wiegand output,
- Optional functions: WIFI, GPRS, serial printer, Mifare/ HID / iClass, backup battery
- Power Supply: 12V 3A
- Verification Speed: ≤2 sec
- Operating Temperature: 0 °C- 45 °C
- Operating Humidity: 20%-80%
- Dimension: 193.6*165.2*86 mm



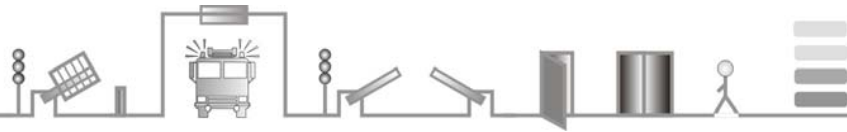
ACAM207F/M: EM / Mifare Dta Terminal stand a lone

ACCESS CONTROL RS485/232 CARD READER

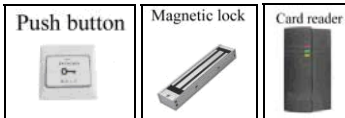
Data terminal (**RS232/485**) has time attendance and access control function, with PWD and single-door controller, LCD display and double door controller. One build-in card reader, two sets of W26 interface, two sets of sensor input, two sets of open button input, two sets of relay output, one set of bell port and one set of RS485 communication interface. English Menu port with backlight; display the owner's name and work number, send public short message and personal short message; the alarm supporting working day setting, set equipment parameter by keyboard, off-line operation. **Support 2500 card holders, store 25000 pieces of card reading information and alarm event and network with 255 machines.** Flexible application can re-define the I/O interface. For example, W26 port will be defined as W26 standard output or input, the relay can be defined as door controller, bell or alarm output, the sensor can be defined as fire ALM signal. Professional door controller functions: 32 time periods/64 time sets/16 application groups/8 types of holidays/validity period for card; when the hard is off-line, there are two layers of A.P.B protection; Only PIN, only card and card & PIN are available; soft control of any door, various alarm incidents functions: open time-out, close time-out, intrude alarm, force alarm, burglar alarm and fire ALM etc.

Technical parameters:

- Data saving: Ten years (after power failure)
- Off-line capacity: 25000 pieces (adjustable); Card control: 2500 pieces (adjustable)
- Card type: EM card or MIFARE 1; Working voltage: 12VDC; Power consumption: <3W
- Induction distance: 6-15cm; Reading speed: 0.15 s
- Communication mode: RS485; Networking capacity: 255 sets
- Working temperature: -20°C-70°C ; Working humidity: 20%-90%
- Dimension: L120*W88*H 18mm; Weight: 160g



Controls for accessories:



ACAM207A: EM Card Reader

STAND ALONE – IN DOOR

Function:

- Work standalone
- Audio visual indication
- Adopting CPU & memory chips of large capacity so that all the data will not lose in power outage cases
- Adopting MCU technology inside; only card, only password and card & password are available.

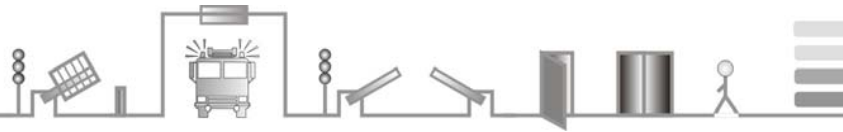
Features:

- Read any EM / Mifare compatible card
- With blue back-light
- Door Status Monitor; Doorbell
- Safe Mode Alarm Output
- Removal Prevention

Technical parameters:

- Card capability: 500/10000 users
- Card Format: EM4100 or compatible
- Operating Voltage: 12VDC(±10%)
- Operating Current: 120mA
- Temperature: -20 ~ 60 Degrees
- Size: L105*W82*H34 (mm)

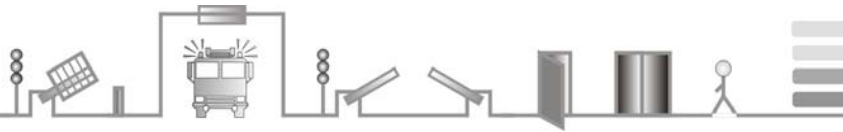
Material: Plastic; Suit for: Office (Indoor)

**CARF-S90:** EM Card Reader**STAND ALONE - VANDAL RESISTANT**

Function: Work standalone; Audio visual indication; Adopting CPU & memory chips of large capacity so that all the data will not lose in power outage cases; Adopting MCU technology inside; only card, only password and card & password are available. Features: Read any EM compatible card; With blue back-light; Door Status Monitor; Doorbell; Safe Mode Alarm Output; Removal Prevention; Technical parameters: Card capability: 500/10000 users; Card Format: EM4100 or compatible; Operating Voltage: 12VDC ($\pm 10\%$); Operating Current: 120mA; Temperature: -20 ~ 60 Degrees; Size: L1225*W23*H125 (mm); Material: Stainless steel / Suit for: Office (In/Out-door)

**CARF-7612:** EM Card Reader**STAND ALONE - VANDAL RESISTANT**

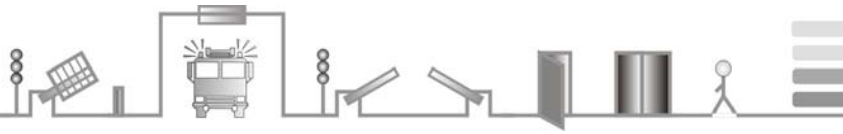
Function: Work standalone; Audio visual indication; Adopting CPU & memory chips of large capacity so that all the data will not lose in power outage cases; Adopting MCU technology inside; only card, only password and card & password are available. Features: Read any EM compatible card • With blue back-light • Door Status Monitor; Doorbell • Safe Mode Alarm Output • Removal Prevention • Technical parameters: Card capability: 500/10000 users • Card Format: EM4100 or compatible • Operating Voltage: 12VDC ($\pm 10\%$) • Operating Current: 120mA; Temperature: -20 ~ 60 Degrees • Size: L76*W37*H120 (mm); Material: Stainless

**ACAM26N** USB Desktop – EM / Mifare Card Reader

Support proximity (EM-ID 125KHz or 13.56Mhz Frequency) Card 5- 10cm Proximity Reading Range;
Standard USB to PC Communication Interface;
Power on USB -10°C to 70°C Ambient Temperature; Less 100mA Working Current;
Champagne or Black Color is option;
DC 5V working Voltage or Power on USB; Product
Size: 140*100 *30 mm

**ACAM09A USB** USB Desktop – EM / Mifare Card Reader

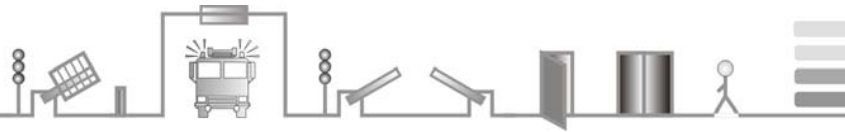
Support proximity (EM-ID 125 KHz or 13.56Mhz Frequency) Card 5- 10cm Proximity Reading Range;
Standard USB to PC Communication Interface;
Power on USB -10°C to 7°C 0
C Ambient Temperature ; Less 100mA Working Current;
Champagne or Black Color is option;
DC 5V working Voltage or Power on USB; Product
Size: 140*100 *30 mm

**Application:**

Network access control
Micro-payment
Public transportation terminals
Automatic fare collection
Physical access control
Customer loyalty
Time and attendance
Contact less public phones
Vending machines

ACAR122: – EM / Mifare Card Reader / Writer

Reader is a PC-linked contact less smart card reader/writer developed based on the 13.56 Hz Contactless (RFID) Technology. Compliant with the ISO/IEC18092 standard for Near Field Communication, it supports not only Mifare® and ISO 14443 A and B cards and FeliCa contact less technologies. ACAR122 is compliant with both CCID and PC/SC. Thus, it is a plug-and-play USB device allowing interoperability with different devices and applications. With an access speed of up to 424 kbps and a full USB speed of up to 12 Mbps, ACAR122 can also read and write more quickly and efficiently. The proximity operating distance of ACAR122 is up to 5 cm, depending on the type of contact less tag in use. In order to increase the security level, ACAR122 can be integrated with an ISO 7816-3 SAM slot. Furthermore, the ACAR122 Reader is available in module form, permitting easy integration into bigger machines, such as POS terminals, physical access systems and vending machines. The ACAR122 Reader is ideal for both secure personal identity verification and online micro-payment transactions. Other applications of the ACAR122 include access control, e-payment, e-ticketing for events and mass transit, toll road fare collection and network authentication. Features: • CCID-compliant - PC/SC-compliant - • Read/write speed up to 424 kbps • Built-in antenna for contactless tag access, with card reading distance of up to 50 mm (depending on tag type) • Supports ISO 14443 Type A and B, Mifare, FeliCa. • Supports new Mifare Ultralight C (via pseudo APDUs) and Mifare Plus SL1 (4 Byte UID, via pseudo APDUS) and SL3 • Supports : reader, card emulation and peer-to-peer modes • Built-in anti-collision feature (at least 1 card is detected when multiple cards are presented) • USB PnP • User-controllable bi-color LED • User-controllable buzzer (optional) • SAM socket (optional) Technical Specs: Dimensions: 98 mm (L) x 65 mm (W) x 12.8 mm (H) / Weight 70 g / Interface USB Full Speed / Operating Distance <= 50mm (depends on tag type) / Supply Voltage Regulated 5V DC / Supply Current 200mA (operating); 50mA (standby); 100mA (normal) / Operating Temperature : 0-50°C / Operating Frequency 13.56 MHz / Smart Card Interface Support / • ISO14443 Type A & B / • Mifare / • FeliCa / • (ISO/IEC18092) tags / Compliance/Certifications / • PC/SC, CCID, CE, FCC, VCCI, RoHS Compliant, USB Full Speed / • Microsoft® WHQL: 2000, Server 2003, XP, Vista, Server 2008, Server 2008 R2, 7 / Operating System Support / • Win 98, Win ME, Win 2000, Win XP, Win Vista, Win 7, Win Server 2003, Win Server 2008 / • Win XP x64, Win Vista x64, Win 7 x64, Win Server 2003 x64, Win Server 2008 x64, Win Server 2008 R2 x64 / • Windows CE 5.0 / • Linux



ACAM128

Dual Interface

Contact and Contact less Smart Card Reader/Writer

With the device, you need only one reader for your contact and contact less smart card applications. ACAM128 is a secure, economically designed reader compliant to ISO 7816 Part 1-4 standard for the Contact smart card and to ISO 14443 Part 1-4 standard for the Contactless Card.

The ACAM128 dual interface reader satisfies the increased demand for bagging, and other personal ID applications. This combination of contact and contact less power makes it possible to carry out conventional

single-purpose card applications in one card. For example, the same card and type of reader might be used for building access and network access. Furthermore, it can also be used as embedded readers in bigger machines and systems such as vending machines, automatic fare collection systems, and public telephone systems. What is even better is the seamless transition from Contact to Contactless Technology that this dual interface card reader enables. For example, one single reader ACAM128 can support the existing contact cards used in a customer loyalty program plus the new contactless cards to be adopted in the system.

High Performance

ACAM128 is PC/SC Compliant for contact and contactless interfaces and it is also CCID Compliant. It makes use of high-speed communication for PICCs (proximity or contactless cards) with maximum speed of 848 kbps for DesFire Cards. Furthermore, ACAM128 has intelligent support for hybrid cards and combi cards. It is designed such that it can still detect a contactless card even if it is inserted in the contact card slot! Premium Features. As different applications require different levels of security and functionality, the ACAM128 has a built-in SAM card slot for added security. ACAM128 uses a landing type card acceptor which minimizes card damage for more reliable card operations. With the variety of features that the ACAM128 offers, you will certainly benefit from all these product features to start developing a wide range of applications!

ACAM128 Standard Features:

- PC/SC Compliant for Contact and Contactless Smart Card Interfaces
- CCID Complaint / · RoHS complaint / · CE, FCC
- Built-in Antenna for contactless card access
- Durable landing-typed Smart card connector for contact card access
- Built-in SAM card slot / · Built-in one Monotone buzzer
- One Dual-color LED / · One mono-tone buzzer / · USB Full Speed (12 Mbps)



The Cash card Access System is designed for the application of Mifare cards at 13.56Mhz compliant with ISO 14443A. The idea is that consumer pay for all consumption by card instead of cash, First the said Mifare card needs to be programmed and stored with values or amounts by a Read/Write Device (RWD), PRAW106. Then consumers bring the programmed cash card with them to the Reader end, ACA906, for transaction. Whenever the cash card is read by ACA906, the present decrement will be deducted from the

card and the new value or amount will be rewritten to it. This system can also be applied for Access Control purpose.

ACA906 / PRAW106

Cash Card Access Terminal & Cash Card Issuer / Programmer

Features: IFrequency: 13.56 MHz; IRead / Write ISO 14443A ; Mifare® and Mifare® PRO Standard cards
IFast data transfer; IHigh data integrity; ITrue anticollision; Specifications

ACA906

Major feature Feature: Access Control Read / Write

RF Frequency: 13.56Mhz ; RF Distance: 3 cm ; DC Power: 9V / 150mA; RS232: 19200,N,8,1

Interface : RS232/RS485; Protocol : GNET PLUS; Card Type : ISO 14443A Mifare® 1K or 4K

Memory : 32KB; RTC : Yes; Battery Backup : Yes / 1 week; Dimension (mm) : W79.6 x L84.8 x H25

Housing : ABS; Weight : 200g; Operating temperature : -10 to 60 Deg C

Operating relative humidity : 10 ~ 90%

PRAW106

Major feature Feature: Card Issue Read / Write

RF Frequency: 13.56Mhz; RF Distance: 3 cm; DC Power: 9V / 100mA

RS232: 19200,N,8,1; Interface : RS232; Protocol : GNET PLUS

Card Type : ISO 14443A Mifare® 1K or 4K; Memory : 32KB

RTC : No; Battery Backup : No; Dimension (mm) : W86 x L121.8 x H86

Housing : ABS; Weight : 180g; Operating temperature : -10 to 60 Deg C

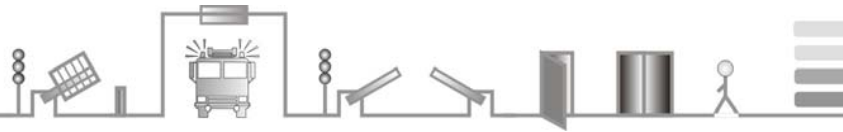
Operating relative humidity : 10 ~ 90%

Mifare® Class: Ultra-Light; Standard 1K; Standard 4K

Application: * Access controls; * Admission control; * Master and user authentication control

* Time and attendance; * Pre-payment; * Prepaid parking / meal coupon; * Ticketing

* Home security & Anti-crime application



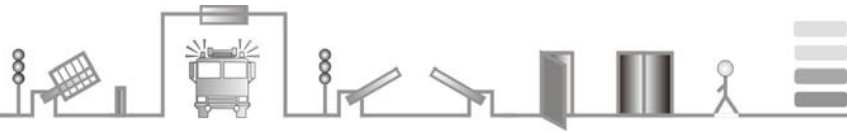
PROFESSIONAL ACCESS CONTROL DATA TERMINAL



DOK TRAJU ZALIH

CAFA-F20: OTISAK & ID KARTICA & ŠIFRA - ETHERNET:

Access control management function: matching outlaying access controller is available to achieve safety style access function; Sensor window cotton improving image quality, accepts dry, wet fingers. Automated exposure and intelligent compensation improved image quality. Adjusting image distortion, assure fingerprint matching consistency. Suitable for office, factory, hotel, hospital, bank etc. Technical Specifications: Size: 181(L)*91(W)*36(H) mm, User Capacity: 2000; Transaction Storage: 50000; Algorithm version: Biokey V4.0 Double-Engine algorithm, Verification mode: 1:1 or 1: N, Hardware platform: MAINCON; Communications: RS232 / 485/ TCP/IP/ USB/ REALTIME; WIEGAND23/34:OUT/IN; Access control: Voltage supply: DC12V/2A; Identification time : <=1.5S; FAR: <=0.0001%; FRR: <=1% ; Operating Temperature: 0- 45 Degrees; Operating Humidity: 20%-80%; Language: English; Support: SDK



Fingerprint & Card attendance and
Access Control

Built-up: fingerprint;
password; card;

DOK TRAJU ZALINE

CAFA – Z6 : Otisak prsta & bezkontaktna kartica & šifra

Sound effect: on time alarm

Off-line function (With memory)

Access control management function: matching outlaying access controller is available to achieve safety style access function

- Sensor window cotton improving image quality, accepts dry, wet fingers.
- Automated exposure and intelligent compensation improved image quality.
- Adjusting image distortion, assure fingerprint matching consistency.
- Suitable for office, factory, hotel, hospital, bank etc.

Technical Specifications:

- Size: 165(L)*145(W)*52(H) mm,
- User Capacity: 2500/2800/5000/8000
- Transaction Storage: 80000/120000
- Algorithm version: Biokey V4.0 Double-Engine algorithm
- Verification mode: 1:1 or 1: N
- Hardware platform: MAINCON
- Communications: RS232/485/TCP/IP/USB/REALTIME;
- WIEGAND: OUT/IN
- Access control: 5 combination; 50 time combination; 10 door opening combination;
- Voltage supply: DC12V/2A
- Identification time : $\leq 1.5S$
- FAR: $\leq 0.0001\%$; FRR: $\leq 1\%$
- Operating Temperature: 0-45 Degrees; Operating Humidity: 20%-80%



DOK TRAJU ZALINE

ACA100: bezkontaktna kartica & šifra / ethernet

Item Description

LCD 128×64 Blue LCD

Register Method: ID card & Password

Record Capacity 30000

Standard Port RS232 RS485

Optional Port TCP/IP

Working Current 50mA-180mA

Sleeping Current 1.5mA

ESD Tolerance >15000V

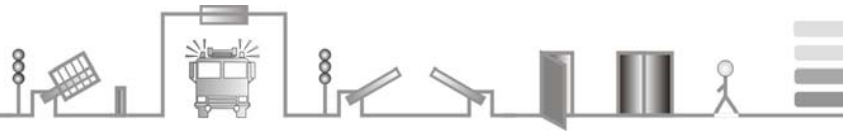
Power: Input220V / Working Voltage9V

Inside Power Supply

Temperature/Humidity -10 C°/—45C°/20%--80%

Size 240mm×180mm×40mm

Color Black Argent White



MULTIMEDIJALNI system evidencije i kontrole pristupa

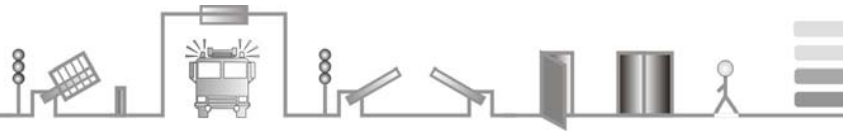


DOK TRAJU ZALINE

CARF - F6 : Bezkontaktna kartica & šifra & CCD kamera

CARF - F8 : Otisak prsta & bezkontaktna kartica & šifra & CCD kamera

Function: Real-time to check report: Keep track of situation of employees; Real-time monitoring browse: real-time know the attendance process of employees; Visual intercom access: be easy to know the access situation of visitors Issue notice information: employees realize the enterprise information in time; Advanced LINUX embedded type operation system, adopting ARM9 hardware platform, incessantly working for 24 hours, with stable and reliable equipment. Standard micro-camera, achieving to take photos, to prevent the occurrence of alternative attendance. Features: Real-time monitoring and operation; 3.5 inches TFT LCD, showing personality graphical interface and people's color photos; Unique function of taking photos for attendance, high definition color camera with 1,300,000 pixels, finish taking photos of attendance for a while - effectively preventing alternative card-swiping); Visual intercom access function, innovative style of using doorbell function key, to see the visitor's information indoors; Off-line function - With memory) and USB flash disk to upload and download; Multiple recognize method for users: card, password, taking photos, randomly assembling and distinguishing are available. Multiple auxiliary functions: notices of meetings, birthday reminders, timing wake up reminder, playing advertisement pages. Access control management function: matching outlaying access controller is available to achieve safety style access function; With Weigand interface: externally connect with a Wiegand26 card reader; Storage capacity: 60M Electronic Hard Disk, supporting 1G SD expansion card; Internally installed function key of doorbell; Multimedia function: play advertisement page, background music; Sound effect: voice prompt, birthday reminder, on time alarm; Specifications: Size: Dimensions: 173*131*45- mm) wall-hanging; Power supply: DC 5V - 2A); Interface: TCP/IP, USB; 3.5 inches true color TFT LCD: 320x240; Temperature: 0C-50C; Humidity: 10%-90%



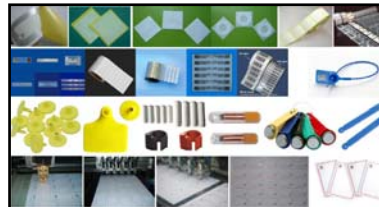
IDENTIFIKACIJA ID KARTICE ISO CR 80 STANDARD

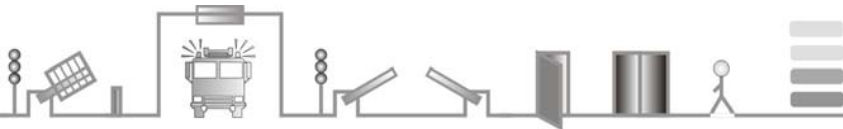
ASPEKT System Integration d.o.o. je preduzeće usko specijalizovano za uvoz i distribuciju svih tipova kartica (EM, HID, Mifare, ...), ako i za ŠTAMPU I PERSONALIZACIJU ID KARTICA u kvalitetu ISO CR 80, odnosno kartica kreditnog tipa kao na primer VISA, MASTER, AMEX, ...

Raspolažemo kompletnom opremom za Thermal / Transfer štampu renomiranih svetskih proizvođača FARGO, US & CIM S.p.A., Italy, ZEBRA, UK i opremom za Direct Thermal – CIM S.p.A., Italy. Tehnologiju enkodiranje magnetne staze i chip-a naslonili smo na opremu American Magnetics, US, Fargo, US, CIM S.p.A. Italy i GIGA-TMS, Tw. Embosiranje, Tipping i Infill teksta naslonili smo na opremu CIM S.p.A. Italy.

Mifare Classic 1K
Mifare Classic 4K
MIFARE Ultralight

MIFARE Ultralight C
Mifare Mini S20
Mifare DESFire 2K EV1
Mifare DESFire 4K EV1
Mifare DESFire 8K EV1
Mifare Plus S 2K
Mifare Plus S 4K
Mifare Plus X 2K
Mifare Plus X 4K
Hitag 2
Hitag S 256
Hitag S 2048
I-Code SLI
I-Code SLI-L
I-Code SLI-S
U-CODE EPC Gen2
UCODE HSL
T5567/T5577/ATA5567
EM4100/4200
EM4205/4305
EM4450/4550
LEGIC MIM256
LEGIC MIM1024
INSIDE Picopass 2K
INSIDE Picopass 32K
Tag-it Ti256
Tag-it Ti2048
SLE 4428
SLE 5542
AT24C02/04/08/16/64
AT88SC102
AT88SC1608





AUTORIZACIJA ZA

- DISTRIBUCIJU
- INSTALACIJU
- I ODRŽAVANJE

renomiranih proizvođača opreme:



Wavre, March-11, 2008

TO WHOM IT MAY CONCERN

Hereby Automatic Systems S.A. confirms that ASPEKT Systems Integration d.o.o. from Belgrade, Serbia, is authorised to sell and distribute access control equipment from Automatic Systems in Serbia.

Additionally, ASPEKT System Integration d.o.o. is authorised to fulfill installations of Automatic Systems' equipment in Serbia.

Best regards,

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Christian Hebenstein
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Access controlled... Future secured.

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**BEOGRAD Factory
Optimization Program**



Hereby ERYMA SECURITY SYSTEMS confirms that ASPEKT Systems Integration d.o.o. from Belgrade, Serbia, is authorized to sell and distribute access control Equipments (SIPORT SYSTEMS) from ERYMA SECURITY SYSTEMS.

Additionally, ASPEKT Systems Integration d.o.o is authorized to fulfill installations of ERYMA SECURITY SYSTEMS equipment in SERBIA.

By this way, ERYMA SECURITY confirms that ASPEKT Systems Integration has all the competences to work, install, program, and training all the SIPORT equipments.

ASPEKT is an ERYMA'S partner for long time, and we will assure support if it's necessary.

Wilfried **SASSIAT**
Key Account Manager **NESTLE**.

BEOGRAD Factory Optimization Program ERYMA Security Systems N°: 28.05. 2010-GAPCC-Belgrad		Version 1.0
		23/05/2010