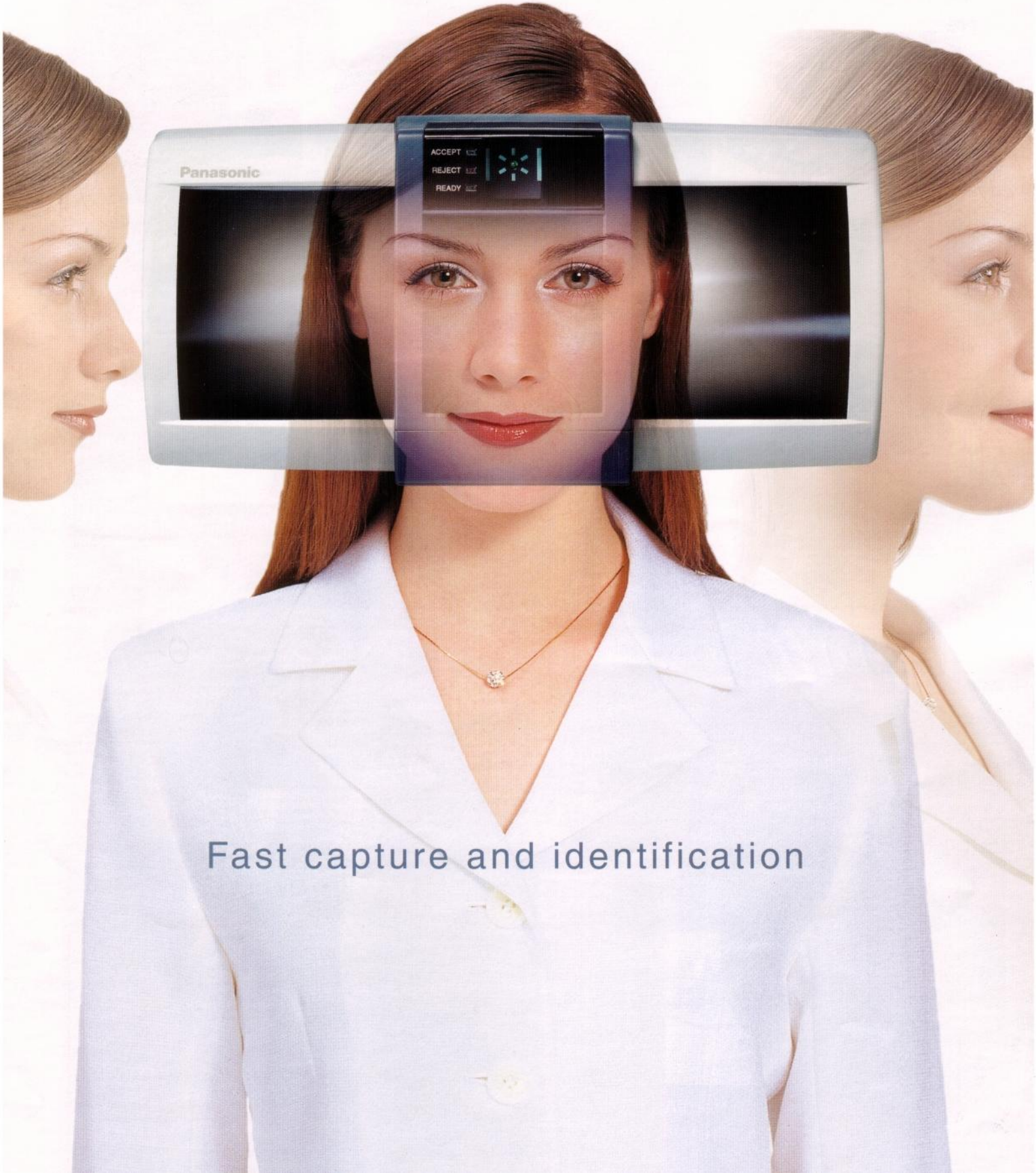
Panasonic

Iris Recognition Access Control System

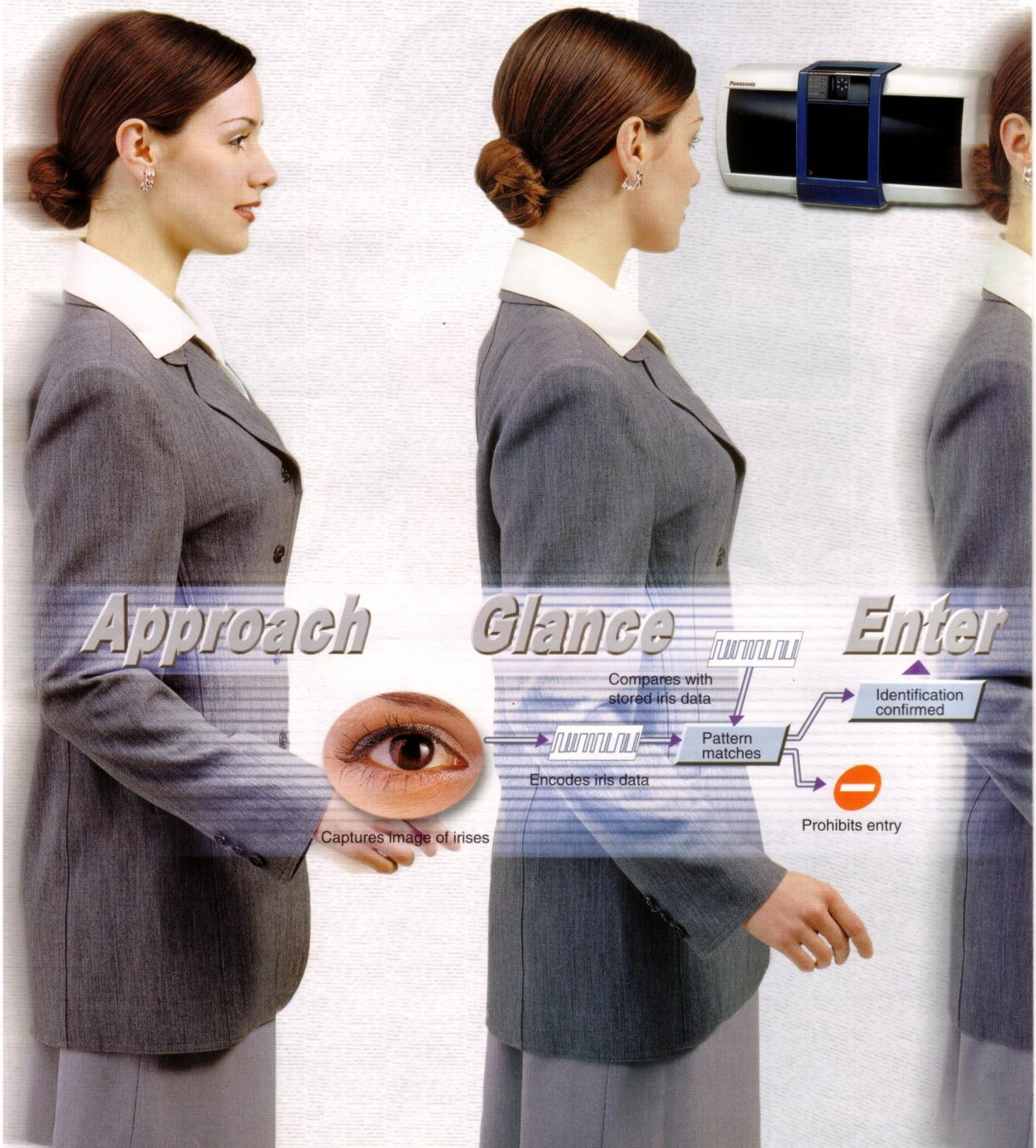
BM-ET500 Series



Fast capture and identification

Smoother, Smarter, More Secure Access and Entry Management

With automatic iris capturing, identification is as simple as looking at the camera. High speed and precision make this system the world's most advanced access and entry point security identification system.

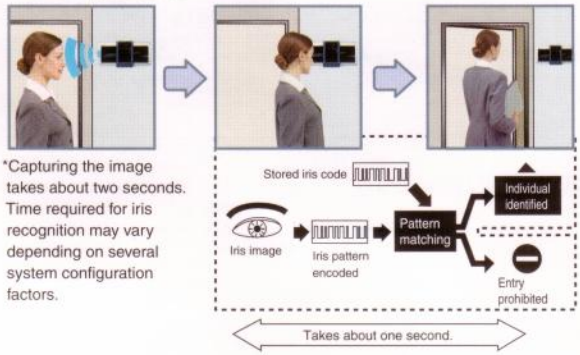


"One Glance" Autom

"One Glance" identification

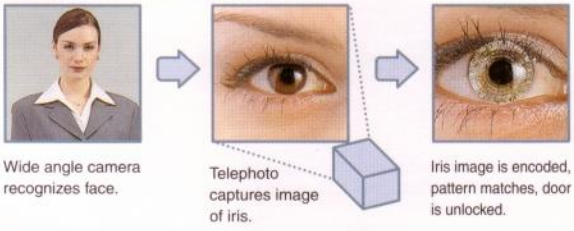
When an individual looks at the camera, the irises are automatically captured and matched against stored patterns. There is no need, as with previous systems, to hold the body in a certain way or the eyes in a certain fixed position. Pattern matching and identification take only a few seconds.*

❶ Camera starts automatically when approached.
❷ Looks intently at panel.
❸ Pattern matches, door unlocked.



*Capturing the image takes about two seconds. Time required for iris recognition may vary depending on several system configuration factors.

Automatic Iris Image Capturing Using Two Cameras



Wide angle camera recognizes face.

Telephoto captures image of iris.

Iris image is encoded, pattern matches, door is unlocked.

*Eyeglasses, sunglasses, some types of contact lenses, or environmental conditions may prevent the capturing from working properly.

Benefits from using Iris Recognition

No need for ID cards or passwords.

Iris recognition eliminates the need for ID cards and problems caused by loss, damage or theft of ID cards. There is none of the inconvenience associated with forgotten passwords.

Easily accommodates a growing number of users.

The number of possible users is limited only by the number of iris patterns stored. Iris scan is ideal for large facilities or when the number of users is expected to increase.

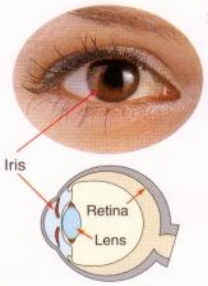
Time and cost savings are large.

In contrast to previous systems, iris recognition eliminates the need to issue ID cards or passwords. One glance is all it takes to capture and store a user's iris pattern. No further effort or cost is required.

Quality engineering

The Panasonic BM-ET500 Series are all CE approved products.

CE This equipment complies with the EMC Directive 89/336/EEC

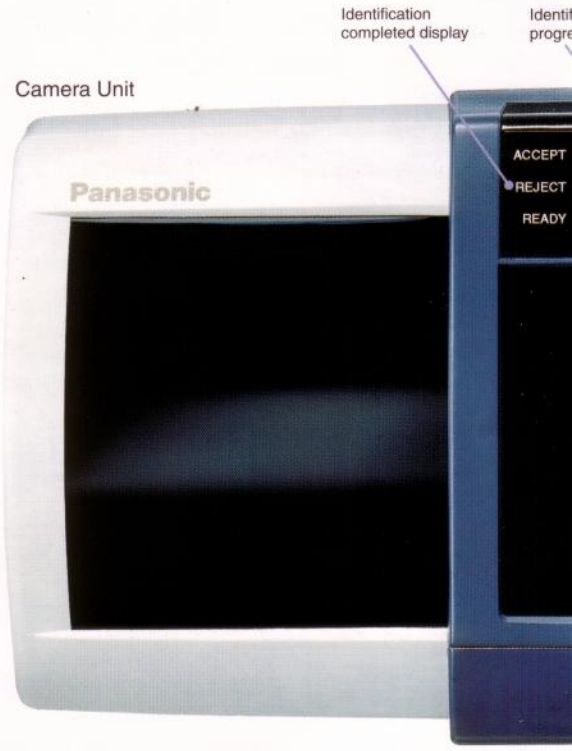


How Iris Recognition Technolog

The iris is a thin coloured membrane loc
Iris patterns are extremely complex and
and ideal for positive identification of a s

Iris Characteristics

- Complex patterns unique to each indiv (even fraternal and identical twins hav
- Iris patterns start to form six months a are fixed from the age of one, after wh
- They are extremely difficult to imitate.
- They are easy to capture and extract c

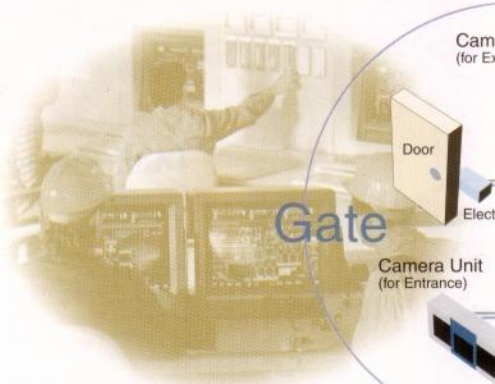


Best error rat Ideal for high

Use of iris recognition 1/1,200,000, ensuring Confusion with anothe

System Configuration (Example)

Combining Iris Recognition with an existing CCVE and access control systems raises security to new heights.



tic Iris Recognition

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individual.

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No physical contact makes it perfectly safe.

Since users simply stand in front of the camera, there is no physical contact required. The amount of infrared illumination used is very weak, making the system perfectly safe.

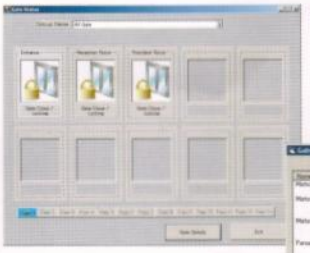
(IEC60825-1 Safety of laser products - Part 1 : Equipment classification, requirements and user's guide)

An built-in video camera for surveillance can also integrate existing security system.

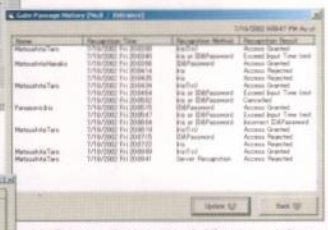
Access and entry status can be monitored in real time.

Realtime user access status, and access history log can be searched, displayed and printed on optional Control Data Software; BM-ES500.

Sample Display

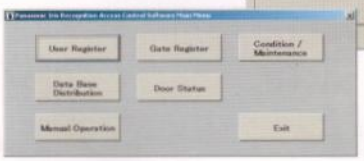


●Gate Status Menu



●Gate Access History Menu

●Enrollment Menu



●Administration Menu

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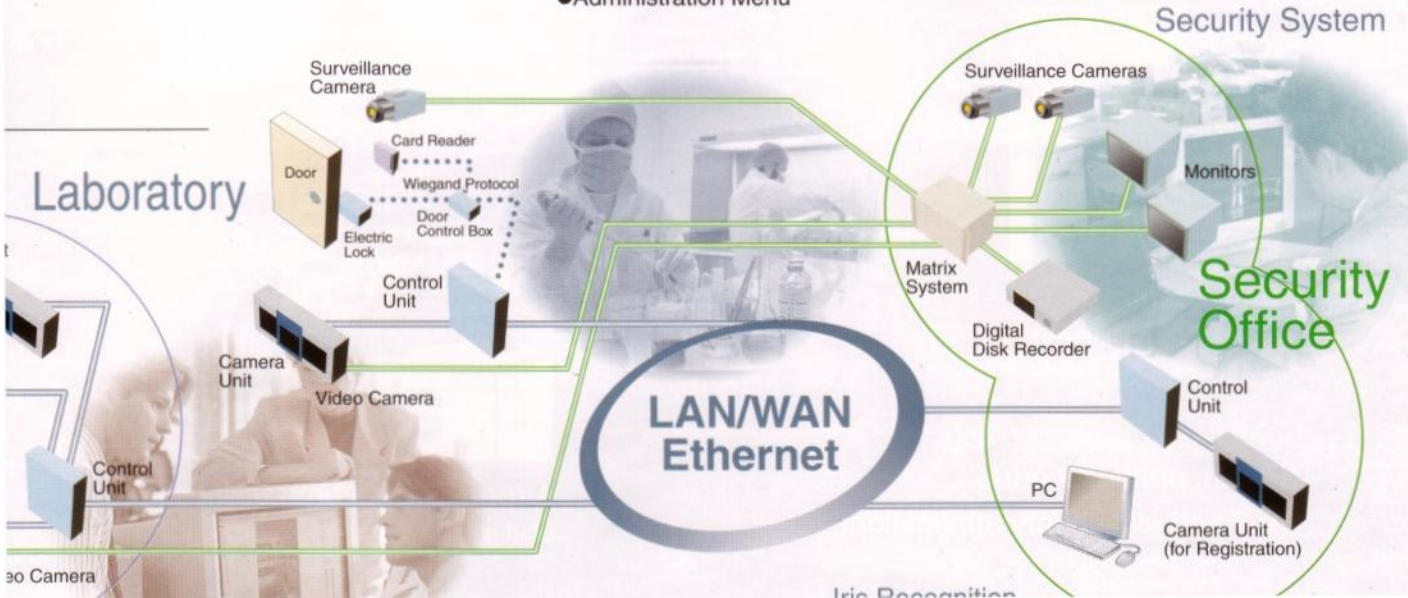
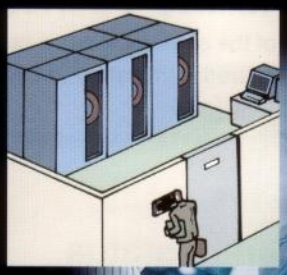
nology reduces errors to less than
y precise individual identification.
vidual is virtually impossible.



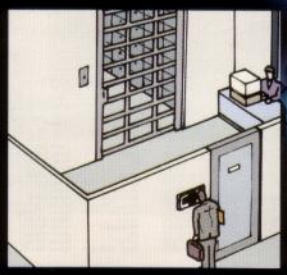
Iris Recognition

Ideal in All These Applications

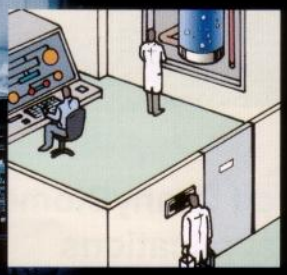
Offices
Data Centre, Material storage, safes,
executive offices, secure meeting rooms



Laboratories and factories
Drug or dangerous materials storage
rooms, night or holiday entry control

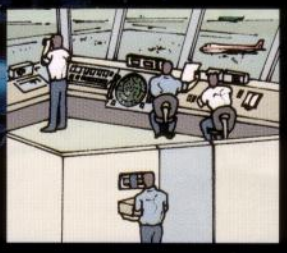


Financial institutions
Safes, safety deposit
box rooms



Lifeline facilities
Power generator rooms,
dam management offices,
gas company control rooms

Traffic control centres
Expressway administration
centres, railroad dispatcher rooms



Airport and harbor facilities
Staff gates, Immigration, workshops

*Police, prisons, courts
*Any and all security applications

SPECIFICATIONS

Camara Unit; BM-ET500

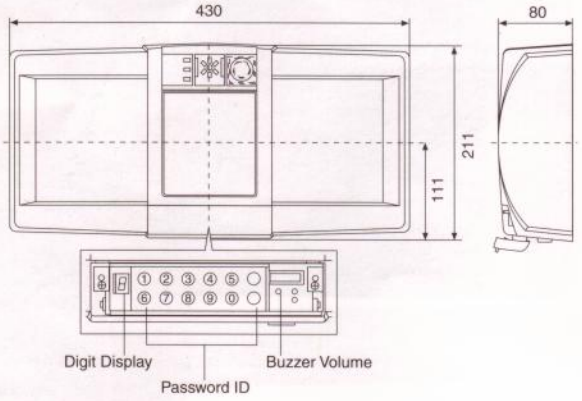
General	
Power Source	32V, 3A DC (when supplied from Control Unit BM-ED500) 24V, 4A DC (when supplied from an external power control unit *)
Power Consumption	30W (while waiting) 60W (max. while operating)
Iris Recognition Time	3 seconds
Ambient Operating Temperature	0°C ~ +40°C
Ambient Operating Humidity	30% ~ 80%
Dimensions	430 mm (W) x 211 mm (H) x 80 mm (D)
Weight	4.5 kg
Input/Output	
CCVE Camera Output	1V [p-p] / 75Ω, composite colour signal
*The third-party external power-control unit should meet the following standards.	
Output Voltage	24V DC ± 0.5V
Output Current Capacity	0A ~ 4.5A
Rated Ripple Voltage/Ripple Noise	150 mV[p-p] or less
Overcurrent Protection	Enabled (mandatory)

Control Unit; BM-ED500

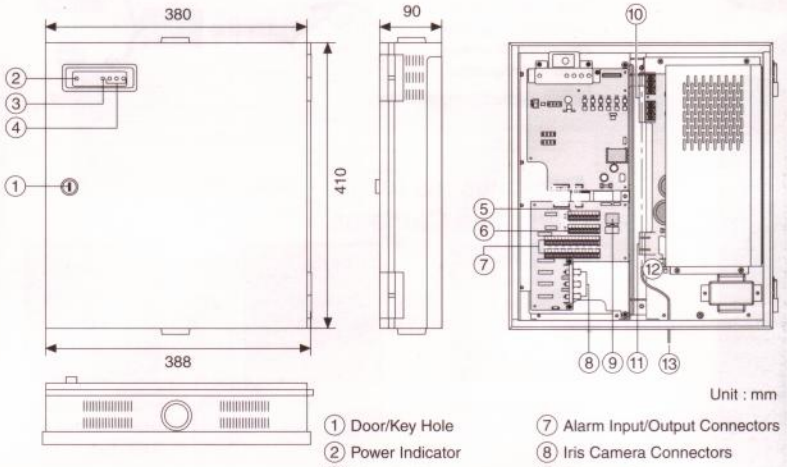
General	
Power Source	100/120/220/240 V AC, 50/60 Hz
Power Consumption	190 W 150 W (when standby) 230 W (max. when operating)
Ambient Operating Temperature	0°C ~ +40°C
Ambient Operating Humidity	30% ~ 80%
Dimensions	380 mm (W) x 410 mm (H) x 90 mm (D)
Weight	9.5 kg
Input/Output/Interface	
Iris Camera Interface	Exclusive control, BNC x 3
Camera Power Output	32 V DC, 3A, terminal x 2
Ethernet Port	10 Base-T/100 Base-TX, RJ-45 x 1
Electric Lock Interface	Solenoid operation output (24 V DC, 300 mA or less) x 1 Door-opening detector input (contact signal, 24 V DC, 100 mA or less) x 1 Locking/Unlocking detector input (contact signal, 24 V DC, 100 mA or less) x 1 Emergency unlocking activation input (contact signal, 24 V DC, 100 mA or less) x 1
Wiegand Interface	Output x 2 5 V TTL level (25 mA or less) Data Length 26-128 bit Pulse Width Time 30/40 µs Pulse Interval Time 1/2 ms
RS-485 Interface	Output x 1 Baud Rate 2,400/4,800/9,600/19,200/38,400 Parity none/odd/even Stop Bits 1/2 bit Data Bits 7/8 bit
Alarm Output	Open collector x 8, 200 ms to 25.5 s, Normally open or normally closed selectable (Configurable through the administration PC, 24 V DC, 100 mA or less)

DIMENSIONS

Camera Unit : BM-ET500



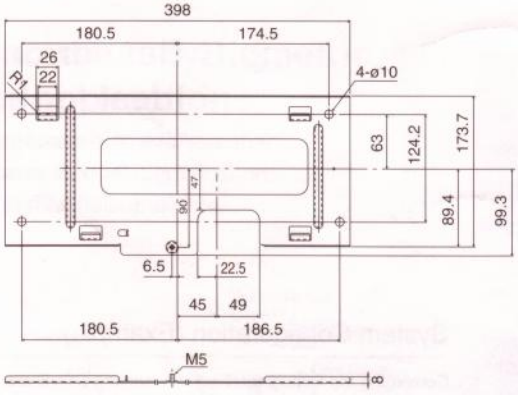
Control Unit : BM-ED500



Unit : mm

1. Door/Key Hole
2. Power Indicator
3. Alarm Indicator
4. Status Indicators
5. Electric Lock Connectors
6. Wiegand/RS-485 Protocol Connectors
7. Alarm Input/Output Connectors
8. Iris Camera Connectors
9. Ethernet Port
10. Camera Power Connectors
11. Power Input Connectors
12. Power Switch
13. AC Power Cable

Mounting Bracket (BM-ET500)



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- This system is jointly developed with Oki Electric Industry Co., Ltd.
- All TV pictures are simulated.
- Weights and dimensions are approximate.
- Specifications are subject to change without notice.
- These products may be subject to export control regulations.

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TAMICO SYSTEMS SDN BHD
(Co. No. 451639-H)
GF-25, IOI Business Park,
1, Persiaran Puchong Jaya Selatan,
Bandar Puchong Jaya,
47100 Puchong, Selangor Darul Ehsan.
Tel: 03-80762626 Fax: 03-80761616

Panasonic System Solutions Company
Matsushita Electric Industrial Co.,Ltd.
4-3-1,Tsunashima-higashi, Kohoku-ku, Yokohama,
223-8639, Japan
Tel 81(0)45-540-5769
Fax 81(0)45-540-5773
URL http://panasonic.co.jp/pss/cctv/en/index.html

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