Panasonic

Iris Recognition Access Control System

BM-ET500 Series

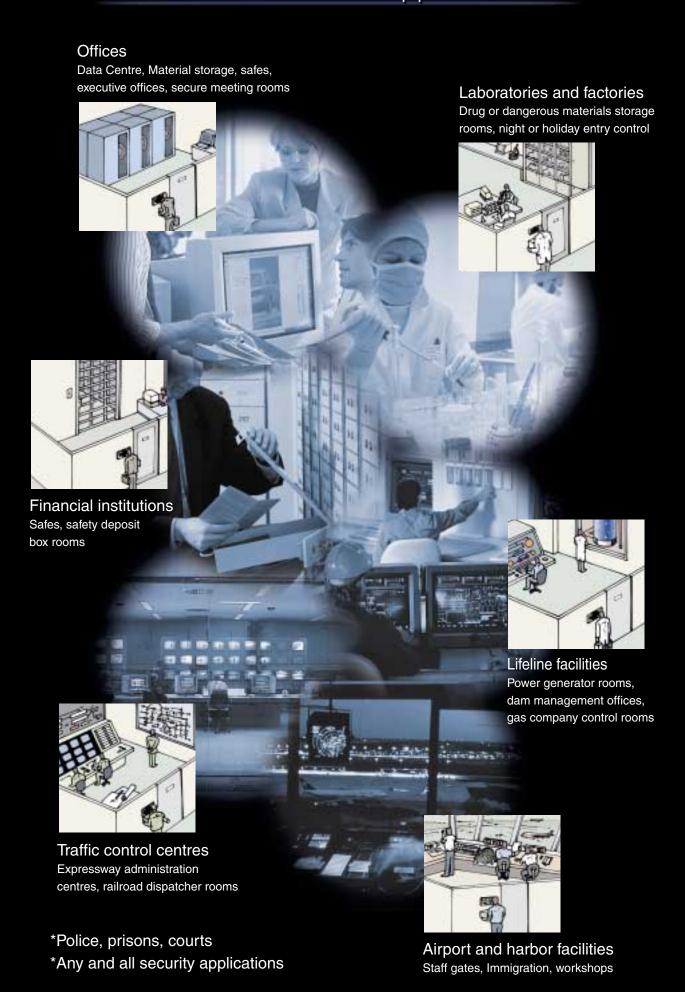


Smoother, Smarter, More Secure Access and Entry Management

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.



Ideal in All These Applications



One Glance" Automatic Iris Recognition

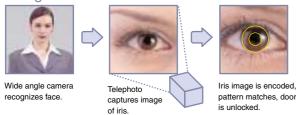
"One Glance" identification

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.*

 Camera starts
Looks intently 3 Pattern matches, automatically at panel. door unlocked. when approached *Capturing the image takes about two seconds Time required for iris recognition may vary depending on several system configuration

Takes about one second.

Automatic Iris Image Capturing Using Two Cameras



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

How Iris Recognition Technology Works

The iris is a thin coloured membrane located around the pupil. Iris patterns are extremely complex and unique to each individual, and ideal for positive identification of a specific individual.

Iris Characteristics

Camera Unit

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- Complex patterns unique to each individual
- (even fraternal and identical twins have different iris patterns). • Iris patterns start to form six months after birth and are fixed from the age of one, after which they never change

Identification in

progress LED

• They are extremely difficult to imitate.

Identification

completed display

• They are easy to capture and extract data from.

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.

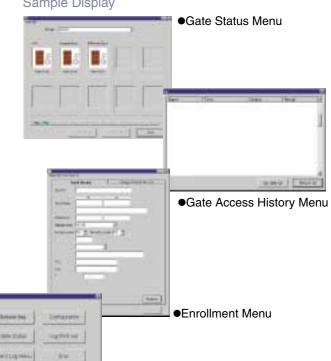
(IEC60825-1 Safety of laser products - Part 1 : Equipment classification, requirements and user's guide)

surveillance can also integrate existing security system. Access and entry status can be monitored in real time.

Administration Menu

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

Sample Display



Best error rate compared to anyBiometric. Ideal for high-security applications

Use of iris recognition technology reduces errors to less than 1/1,200,000, ensuring highly precise individual identification. Confusion with another individual is virtually impossible.

Benefits from using Iris Recognition

No need for ID cards or passwords.

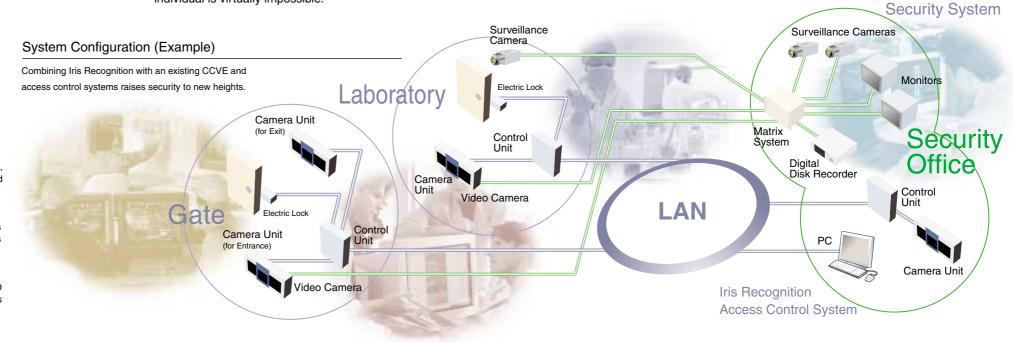
Iris recognition eliminates the need for ID cards and problems caused by loss, damage or theft of ID cards. There is none of the inconvenience associated with forgotten passwords.

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.



An built-in video camera for

SPECIFICATIONS

Camera Unit; BM-ET500	
Recognition Time	approx. 3 seconds
	(capturing iris images plus checking the data)
Max. Registration Data	4000 irises (2000 persons)
ID	Max. 17 digits
Password	Max. 10 digits
Distance From Control Unit	20m (Max. 100m)
Backup For Iris Recognition	Password access by 10 key input
Installation	Surface & flush wall-mount /
	On the table with camera stand,
	Indoor application only
Installed Direction	vertical only
Operating Distance	25cm - 60cm from Iris Camera
Power Source	DC32V from Control Unit (Max. 20m from Control unit)
	DC24V with power supply unit (Max. 100m from Control unit)
Ambient Operating Temperature	+0°C - +40°C
Ambient Operating Humidity	20% - 80%
Dimensions (W x H x D)	430 x 211 x 80 mm
Weight (approx.)	6 kg

Control Unit; BM-ED500

External Interface

Camera Input Camera unit input x 3, BNC connectors

Interface Video / Command / Reply (mixed serial signal)

Power output DC32V x 2 (connect by power circuit board)

LAN Interface 10/100 Base-TX x 1, RJ45 connector Serial Interface RS-232C x 1 (D-sub, 9-pin connector)

Baud rate = 9,600 - 38,400 bps (preset by DIP-SW on G-Box)

Electric Key Interface DC24V output x 2 ports

Max. cable distance: 100m

Contact Closure Input 200ms - 2seconds, make / break (preset by data control PC)

DC 5V. 3mA or higher

Contact Closure Output 200ms - 2seconds, make / break (preset by data control PC)

DC 24V, less than 100mA

General

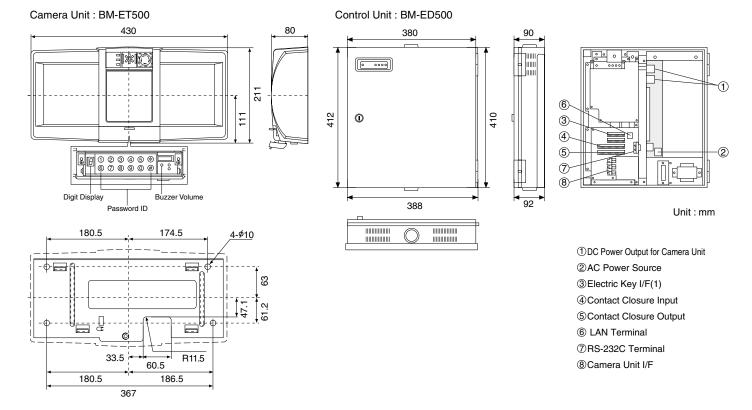
Power Source 100/120/220/240V AC, 50/60Hz

Power Consumption (approx.) less than 190W Ambient Operating Temperature $0^{\circ}\text{C} - +40^{\circ}\text{C}$ Ambient Operating Humidity 20% - 80% Dimensions (W x H x D) $380 \times 410 \times 90 \text{ mm}$

Weight (approx.) 10 kg

Control Data Software; BM-ES500

DIMENSIONS



• 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.

DISTRIBUTED BY:

"Forward Security Systems"

Lenina st.21-A,Lytkarino, Moscow area,140081,Russia Tel.:+7(095)506-19-16; Fax.:+7(095)552-78-81 e-mail:info@biometricsecurity.ru; fs-system@mail.ru http://www.biometricsecurity.ru

System Solutions Company

Matsushita Communication Industrial Co.,Ltd. 4-3-1, Tsunashima Higashi, Kohoku-ku, Yokohama, 223-8639, Japan

Tel 81(0)45-531-1231

http://www.mci.panasonic.co.jp/english/prdct/cctv/index.html

