

Iris Reader BM-ET200





Combination high-speed capture engine and two mirrors for rapid, high-accuracy recognition.

Simple to configure and easy-to-use Iris Reader with recognition results in 0.3 seconds*

*Time required for recognition in a normal, ready-to-recognize condition after the eyes are aligned with the main unit mirrors

The BM-ET200 offers more-accurate, faster, non-contact entry/exit control utilizing biometric technology for iris recognition. The system can be used to check IDs in a variety of applications, including airports and entry/exit control for many types of industries.

Fast, high-speed capture engine developed to obtain recognition in only 0.3 seconds

Panasonic developed a unique high-speed capture engine that obtains recognition in only 0.3 seconds after eye position alignment with the mirrors. If recognition is not achieved the first time, the operation is automatically repeated at high prompting speeds.

Dual-mirror configuration makes eye alignment easy



Two mirrors are mounted on the front panel. Eye position is less likely to be out of side to side alignment, making recognition easier. Positioning of either the left or right eye is simplified.

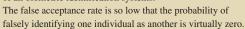
A distance guide indicator informs the user of proper iris capture distance

To adjust the camera for the most optimal eye distance, both voice instructions and a distance indicator lamp guide provide user guidance so the correct capture position is achieved.

Distance	Number of lighting lamps	Voice guidance
Too close	00000 <	Please move
Suitable	00000	back a little
Too far	•••• ••• ••• ••• ••• ••• ••• ••• ••• •	Please move a little closer

High security, with false acceptance rate of 1 in 1.2 million*

Iris recognition uses individual differences in the complex patterns found within the iris of the human eye to authenticate individual identities. Iris recognition is the most precise of all biometric identification systems



Iris Characteristics

• An extremely complex pattern that differs even between identical twins. • Patterns stabilize between six months and two years of age and then remain unchanged for life. · They are extremely difficult to imitate

"RECOGNIZING PERSONS BY THEIR IRIS PATTERNS" by Dr.John Daugman University of Cambri



Voice guidance recognition procedure

A speaker on the front cover offers voice guidance for operational assistance and recognition results. Fourteen languages can be selected for each iris reader Supported languages: English, French, German, Spanish, Italian, Turkish, Arabic, Chinese, Korean, Russian, Portuguese, Dutch, Swedish, and Japanese.

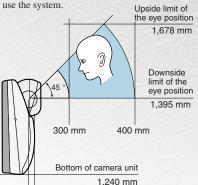
Three settings for voice guidance

Mute : No voice guidance

Simple : Only recognition results are announced. F u 11 : Voice guidance such as "Please move a little closer" and "Please move back a little" and also recognition results are given.

The camera unit swivels up and down

The angle of the two embedded cameras can be adjusted to accommodate users from 152 cm to 180 cm. Taller users can simply bend over to



0 12

Distance indicator Lighting of the lamp indicates the proper

capture distance between the user and the BM-ET200.

Mirrors (Dual)

Adjusts the eye position when registering or recognizing eyes.

Eye image capturing cameras

Located behind the mirrors, the camera captures images of the irises.

Live indicator The light indicates the current operating condition.

Results indicator

The lamp lights when recognition is complete.

Tamper Detection

The tamper protection feature prevents data from being extracted from the system. An audible alarm is triggered via the integrated tamper switches. Alarm signals are also transmitted to the access control system and Administration Server.

25 User License Included

Iris data for up to 25 users can be registered with the Base Administration Software BM-ES200 within the network mode. With additional (optional) user licenses, the system can register and manage iris data for up to 10,025 users. Contact Panasonic directly for systems requiring more than 10,025 users. Up to 50 users are included in the stand alone mode. 50 user licenses included in the BM-ET200 in stand alone mode cannot be used in a network mode.

Access log can be searched by time

Using the time of image capture stored in the camera, you can search the access log of a specific user for the specified time.

APPLICATIONS



Data centre, material storage Drug or dangerous material safes, executive offices, secure torage rooms, night or holida meeting rooms ntry control

Laboratories and factories Financial institutions fes, safety deposit box ro

SYSTEM DIAGRAMS

Network system

Compatible with standard Wiegand interface protocol access control systems thus offering flexible system configuration. Legacy PROX cards are also supported.* *Most card formats are supported-please check with your local Panasonic *To handle the protocol, it is necessary to install the BM-ETA201 optional

LAN Connection

Wiegand Connectior **RS-485** Connection



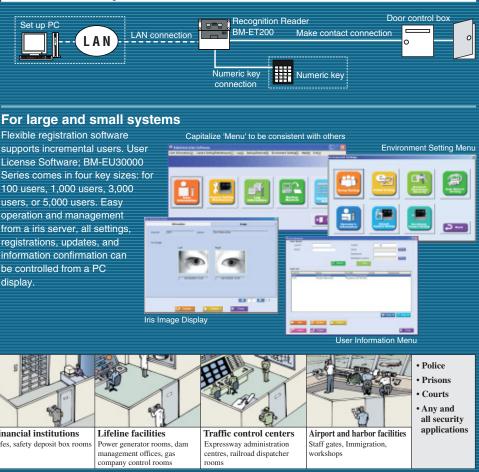


Smart Cards

The iris data on an ID card is compared with the captured image to allow access. Smart cards provide, application flexibility and do not require a central database

> *To handle the protocol, it is necessary to install the BM-ETA201 ptional board (sold separately HID





Flexible registration software 100 users, 1,000 users, 3,000 users, or 5,000 users. Easy operation and management from a iris server, all settings registrations, updates, and information confirmation can be controlled from a PC

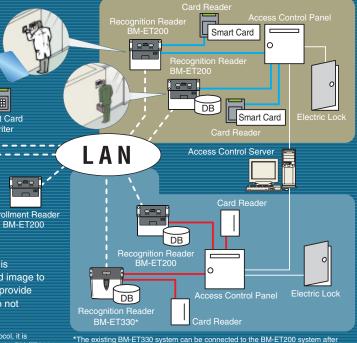
Integrates with Wiegand-compatible Systems

Maximum system specification

Local matching

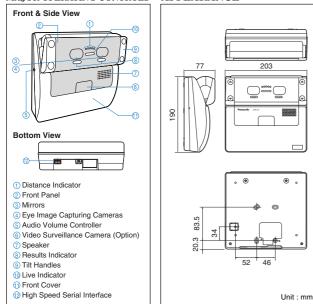
Maximum number of iris readers Number of users that can be rec

	256	units
tered	10,025	users
	5,025	users



*The existing BM-ET330 system can be connected to the BM-ET200 system after upgrading the management software to BM-ES200 without changing existing dat

MAJOR OPERATING CONTROLS APPEARANCE



RECOMMENDED SMART CARD READERS AND WRITERS

Applicable products	Manufacturer	Product / Product No.
Smart Card Writer	HID Corporation Ltd. RFIDeas, Inc.	RWK400 RW400 RFID1356i (USB and RS-232)
Smart Card	HID Corporation Ltd.	2001, 2011, 2021, 2031, 2041, 2051, 2061

NOTE

• In regard to details of the Smart Card Writer and the Smart card, refer to the respective instruction manuals attached to merchandise.

· When a card writer is connected and a USB-RS-232C conversion connector is used, the system may not operate normally,

• The USB connections are applicable to Windows® XP only. Operation is impossible with Windows® 2000.

PRODUCT CONFIGURATION



General 12 V DC/24 V DC Max. 24 W Power source *1 Power consumption Ambient operating temperature Ambient operating humidity 0 °C to +40 °C 30 % to 90 % 203 mm (W) x 190 mm (H) x 77 mm (D) Dimensions 0.9 kg (this iris reader only) Wiegand, RS-485 10 Base-T/100 Base-TX (Auto negotiation) Weight Interface Network Network protocol TCP/IP Available card reader for Iris on card system RWK400 (Manufactured by HID Corporation) Input/Output Iris Reader (BM-ET200) 0 V to 5 V, 24 mA (Max), Active low, Pulse width: 200 ms or more Recognition start trigger input make contact output, Normally Open, Pulse width: 0.1 s to 60 s, 24 V DC, 100 mA, ON-Resistance 6 Ω Stereo mini plug (ø3.5 mm)(10 k Ω , 100 mV[P-P]) Recognition result output1 (ACCEPT) Audio Output (Preamplifier) High speed serial interface Numeric Key, External memory (*5) Interface Board (BM-ETA201) (option 65 mm (W) x 76 mm (H) x 31 mm (D) Dimensions Alarm output1 (tamper detection) Alarm output2 (power status) Recognition result output2 (REJECT) Open collector output, Normally Open, Active Iow, 24 V DC, 24 mA Open collector output, Normally Close (Low level), 24 V DC, 24 mA Open collector output, Normally Open, Active Iow, Pulse width: 0.1 s to 60 s, 24 V DC, 24 mA 0 V to 5 V, 24 mA (Max), Active low, Pulse width: 200 ms or more 0 V to 5 V, 24 mA (Max), Active low, Pulse width: 100 ms or more (*7) Buzzer input: Time adjust input Interface (card reader) Wiegand, RS-485 (Either can be selected.) Wiegand power output (card reader) Wiegand DATA0 input(card reader) 5 V DC, 100 mA max. 0 V to 5 V DC, 25 mA max., Active low Wiegand DATA1 input (card reader) 0 V to 5 V DC, 25 mA max., Active low Differential input: ± 0.2 V or more, Differential output: ± 2 V or more (When termination is ON) (*6) Wiegand, RS-485 (Either can be selected.) RS-485 (A), (B) (card reader) nterface (access control panel) 5 V DC (No connection available) 0 V to 5 V DC, 25 mA max., Active low 0 V to 5 V DC, 25 mA max., Active low Wiegand power input (access control panel) Wiegand DATA0 output (access control panel) Wiegand DATA1 output (access control panel) 0 V to 5 V, 24 mA (Max.), Active low, Pulse width: 200 ms or more 0 V to 5 V, 24 mA (Max.), Active low, Pulse width: 200 ms or more Wiegand ACCEPT-LED input (access control panel) Wiegand REJECT-LED input (access control panel) RS-485 (A), (B) (access control panel) Differential input: ± 0.2 V or more Differential output: ± 2 V or more (When termination is ON) (*6) Video Surveillance Camera (BM-ETC202) (optional) 1 V [P-P] PAL composite 75 Ω BNC connector Video Output Function ris recognition time Approx. 0.3 seconds (After iris image capturing until the recognition result is output) (*2) Approx. 5 seconds (Server certification. After iris image capturing until the recognition result is output) (*3) Approx. 30 cm to 40 cm between the eyes and the mirror Eye image capturing range Total number of users enrolled BM-FT200 Stand alone mode : 50 users max Network mode : 5,025 users max. (*4) Iris server 10,025 users max. Voice guidance 14 languages supported (English, German, French, Spanish, Italian, Russian, Chinese, Korean, Portuguese, Turkish, Arabic, Dutch, Swedish, and Japanese) Mute, Simple (recognition result), and Full (voice guidance and recognition result) selectable Lighting of the lamp indicates the proper distance Distance indicator between the user and the main body Blinking, On, and Off selectable Horizontal: 115° Live indicator Angular field view (Video surveillance camera: BM-ETC202) Vertical: 85° (Fixed) Security function Tamper detection switch, Iris data encryption *2 The recognition time may differ depending on *1 The third-party external power-supply should meet the following specifications, and must be a UL Listed access control power limited device. recognition condition. *3 The recognition time may differ depending on capturing conditions, network conditions, or the Output voltage Output current capacity total number of enrolled users 12 V DC ± 0.5 V 24 V DC ± 0.5 V 1.2 A or more 0.6 A or more *4 User Licence Software BM-EU30000 Series

(option) is required.

*5 Refer to the dealer for available external devices.

*6 Our exclusive protocol is employed. *7 Refer to the dealer for available external devices.

BM-ET200 SPECIFICATIONS [PAL]

Rated ripple voltage/Ripple noise: 150 mV [P-P] or less

Overcurrent protection: Enabled (mandatory)

Private ID, and KnoWho are trademarks of Iridian Technologies, Inc., USA.

• iCLASS is a registered trademark of HID Corporation.

• Windows® 2000 Professional, or Windows® XP Professional are registered trademarks of Microsoft Corporation in the USA and / or other countries.



Important – Safety Precaution: carefully read the operating instructions and installation manual before using this product.
– Panasonic can not be responsible for network performance and/or other manufacturer products that reside on the network.
All photographs and menu are simulated and shown for the purpose of explanation.

