Panasonic ideas for life





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

Front & Side View

Bottom View

(3) Mirrors

Speaker

1) Distance Indicator 2 Front Pane

Results Indicator

Tilt Handles 10 Live Indicator front Cover

(4) Eve Image Capturing Cameras 5 Audio Volume Controller

12 High Speed Serial Interface

6 Video Surveillance Camera (Option)

203

⊚

Unit: mm

(9)

(8)

-6

203 mm (W) x 190 mm (H) x 77 mm (D) **Dimensions** Weight

0.9 kg (this iris reader only)
Wiegand, RS-485
10 Base-T/100 Base-TX (Auto negotiation) Network

Network protocol
Available card reader for Iris on card system TCP/IP RWK400 (Manufactured by HID Corporation)

Input/Output

Iris Reader (BM-ET200) Recognition start trigger input Recognition result output1 (ACCEPT)

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])

Audio Output (Preamplifier) High speed serial interface Numeric Key, External memory (*5)

Interface Board (BM-ETA201) (option

Dimensions

Alarm output1 (tamper detection)
Alarm output2 (power status)
Recognition result output2 (REJECT) Open collector output, Normally Open, Active low, 24 V DC, 24 mA Open collector output, Normally Close (Low level), 24 V DC, 24 mA Open collector output, Normally Open, Active low, 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)

65 mm (W) x 76 mm (H) x 31 mm (D)

Wiegand, RS-485 (Either can be selected.)

Time adjust input Interface (card reader) 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 RS-485 (A), (B) (card reader)

nterface (access control panel) Wiegand power input (access control panel)
Wiegand DATA0 output (access control panel)

Differential input: \pm 0.2 V or more, Differential output: \pm 2 V or more (When termination is ON) (*6) Wiegand, RS-485 (Either can be selected.) Vivegand, Tio-405 (Line can be select 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

0 V to 5 V, 24 mA (Max), Active low, Pulse width: 200 ms or more

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Wiegand DATA1 output (access control panel) Wiegand ACCEPT-LED input (access control panel)
Wiegand REJECT-LED input (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 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)

Video Output

1 V [P-P] PAL composite 75 Ω BNC connector

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



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. 14 languages supported (English, German, French, Spanish, Italian, Russian, Chinese, Korean, Portuguese, Turkish, Arabic, Dutch, Voice guidance 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)

Tamper detection switch, Iris data encryption

*1 The third-party external power-supply should meet the following specifications, and must be a UL Listed access control power limited device.

Security function

Output voltage	Output current capacity
12 V DC ± 0.5 V	1.2 A or more
24 V DC ± 0.5 V	0.6 A or more

Rated ripple voltage/Ripple noise: 150 mV [P-P] or less Overcurrent protection: Enabled (mandatory)

- *2 The recognition time may differ depending on
- recognition condition.
 *3 The recognition time may differ depending on capturing conditions, network conditions, or the total number of enrolled users
- *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.

- 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.
- All other trademarks are the property of their respective copyright holders







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.

• Weights and dimensions are approximate. • Specifications are subject to change without notice. • This product is subject to export control regulations.

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Panasonic is the brandname of Matsushita Electric Printed in Japan BM-JKET200C(2N-770)

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

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

The false acceptance rate is so low that the probability of falsely identifying one individual as another is virtually zero.

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



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

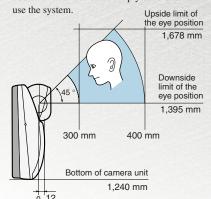
Simple: Only recognition results are announced.

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

Mute: No voice guidance

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 use the system



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.

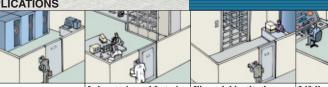
25 User License Included

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



Offices

Data centre, material storage

Drug or dangerous material torage rooms, night or holida

Laboratories and factories | Financial institutions

Lifeline facilities

Traffic control centers

Airport and harbor facilitie

Police Prisons

Any and all security application

DataSheet4 Maximum number of iris readers configuration. Legacy PROX cards are also supported.* Number of users that can be registered *Most card formats are supported-please check with your local Panasonic 5,025 *To handle the protocol, it is necessary to install the BM-ETA201 optional LAN Connection Wiegand Connection **BS-485 Connection**

LAN

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

SYSTEM DIAGRAMS

Integrates with Wiegand-compatible Systems

Compatible with standard Wiegand interface protocol

access control systems thus offering flexible system

Network system

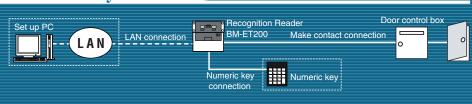


*To handle the protocol, it is necessary to install the BM-ETA201

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

Maximum system specification

Stand alone system



For large and small systems

Flexible registration software

users, or 5,000 users. Easy

operation and management

registrations, updates, and

information confirmation can

be controlled from a PC



