PORTABLE ELECTRONIC DEVICE

TECHNICAL FIELD

The present invention relates to a tablet-type portable electronic device having the payment function for cards.

BACKGROUND ART

Tablet-type portable electronic devices have come to be popular (e.g., refer to Patent Document 1). On the other hand, payment terminals dedicated for making payments with various cards (credit cards, cash cards, etc.) consisting of IC cards and magnetic cards are also known (e.g., refer to Patent Document 2).

Patent Document 1: Japanese Unexamined Patent Application, Publication No. 2012-215682

Patent Document 2: Japanese Unexamined Patent Application, Publication No. 2013-003810

SUMMARY

A tablet-type portable electronic device that can perform payment by way of a card as well as being compact has been demanded.

The present disclosure has an object of providing a tablet-type portable electronic device that can perform payment by way of a card as well as being compact.

In an aspect, the present disclosure provides a A tablet-type portable electronic device comprising: a plate-shaped housing; a touch panel and display unit provided to a front surface of the housing; and a reading unit that is integrally configured with the housing and performs reading processing of a card related to payment, wherein the housing is substantially rectangular in a front view of the portable electronic device, wherein the portable electric device includes, as the reading unit: - a contact-type IC reading unit that performs reading processing of a contact-type IC card serving as the card, the contact-type IC reading unit having a contact-type IC sensor that acquires electronic information from an IC chip of the contact-type IC card, and an IC insertion groove provided in the housing for guiding the IC chip of the contact-type IC card to a position of the IC sensor, and - a non-contact-type IC reading unit that performs reading processing of a non-contact-type IC card serving as the card, characterized in that the portable electric device further includes, as the reading unit: - a magnetic reading unit that performs reading processing of a magnetic card serving as the card, the magnetic reading unit including a magnetic sensor that acquires magnetic information from a magnetic recording part of the magnetic card, and a magnetic insertion groove provided in the housing for guiding the magnetic recording part of the magnetic card to a position of the magnetic sensor, wherein the contact-type IC reading unit and the magnetic reading unit are arranged to a side of one vertical lateral surface along a shorter direction of the housing, the IC insertion groove and the magnetic insertion groove being open, in said side of said one

vertical lateral surface along said short direction of the housing, to an outer side in a longer direction of the housing and being concaved with a bottom to an inner side in the longer direction, and wherein the non-contact-type IC reading unit is arranged to a side of the one vertical lateral surface or another vertical lateral surface along the shorter side of the housing, and can read a non-contact-type IC card arranged at the front surface of the housing.

The present disclosure is a tablet-type portable electronic device including: a plate-shaped housing; a touch panel and display unit provided to a front surface of the housing; and a reading unit that performs reading processing of a card related to payment, in which the reading unit is configured integrally with the housing.

In addition, the reading unit may include an IC reading unit that performs reading processing of an IC card serving as the card, and a magnetic reading unit that performs reading processing of a magnetic card serving as the card, the IC reading unit may have an IC sensor that acquires electronic information from an IC chip of the IC card, and an IC insertion groove provided in the housing for guiding the IC chip of the IC card to a position of the IC sensor, the magnetic reading unit may include a magnetic sensor that acquires magnetic information from a magnetic recording part of the magnetic card, and a magnetic insertion groove provided in the housing for guiding the magnetic recording part of the magnetic card to a position of the magnetic sensor, and the IC insertion groove and the magnet insertion groove may be overlapping in portions thereof.

Furthermore, a bottom part of the IC insertion groove may be provided more in an interior region than a bottom part of the magnet

insertion groove, in an insertion direction of the IC card to the IC insertion groove, and the IC card may be arranged in the interior region.

Moreover, the IC insertion groove may include an embossing groove part having a shape corresponding to an embossing of the IC card.

Additionally, the IC reading unit may include a contact-type IC reading unit that performs reading processing of a contact-type IC card serving as the IC card, and a non-contact-type IC reading unit that performs reading processing of a non-contact-type IC card serving as the IC card.

Furthermore, the housing and the display unit may be substantially rectangular in a front view of the portable electronic device, and

the contact-type IC reading unit and the magnetic reading unit may be arranged to a side of one vertical lateral surface of the housing, and the non-contact-type IC reading unit may be arranged to a side of another vertical lateral surface of the housing.

According to the present disclosure, it is possible to provide a tablet-type portable electronic device that can perform payment by way of a card, as well as being compact.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view showing a portable electronic device 1 of an embodiment of the present invention;

FIG. 2 is a front view showing the portable electronic device 1 of the embodiment;

CLAIMS

1.

A tablet-type portable electronic device comprising:

a plate-shaped housing;

a touch panel and display unit provided to a front surface of the housing; and

a reading unit that is integrally configured with the housing and performs reading processing of a card related to payment,

wherein the housing is substantially rectangular in a front view of the portable electronic device,

wherein the portable electric device includes, as the reading unit:

- a contact-type IC reading unit that performs reading processing of a contact-type IC card serving as the card, the contact-type IC reading unit having a contact-type IC sensor that acquires electronic information from an IC chip of the contact-type IC card, and an IC insertion groove provided in the housing for guiding the IC chip of the contact-type IC card to a position of the IC sensor, and
- a non-contact-type IC reading unit that performs reading processing of a non-

contact-type IC card serving as the card,

characterized in that

the portable electric device further includes, as the reading unit:

- a magnetic reading unit that performs reading processing of a magnetic card serving as the card, the magnetic reading unit including a magnetic sensor that acquires magnetic information from a magnetic recording part of the magnetic card, and a magnetic insertion groove provided in the housing for guiding the magnetic recording part of the magnetic card to a position of the magnetic sensor,

wherein the contact-type IC reading unit and the magnetic reading unit are arranged to a side of one vertical lateral surface along a shorter direction of the housing, the IC insertion groove and the magnetic insertion groove being open, in said side of said one vertical lateral surface along said short direction of the housing, to an outer side in a longer direction of the housing and being concaved with a bottom to an inner side in the longer direction, and

wherein the non-contact-type IC reading unit is arranged to a side of the one vertical lateral surface or another vertical lateral surface along the shorter side of the housing, and can read a non-contact-type IC card arranged at the front surface of the housing.

2. The portable electric device according to claim 1, wherein the IC insertion groove and the magnet insertion

groove are overlapping in portions thereof.

3. The portable electric device according to claim 2, wherein a bottom part of the IC insertion groove is provided more in an interior region than a bottom part of the magnet insertion groove, in an insertion direction of the IC card to the IC insertion groove, and the contact-type IC sensor is arranged in the interior region.

4. The portable electronic device according to any one of claims 1 to 3, wherein the IC insertion groove includes an embossing groove part having a shape corresponding to an embossing of the IC card.