

SKI+

2018



**SKI+ APP
User Manual**

User
Manual

**Research Center for Information
Technology Innovation, Academia Sinica.**

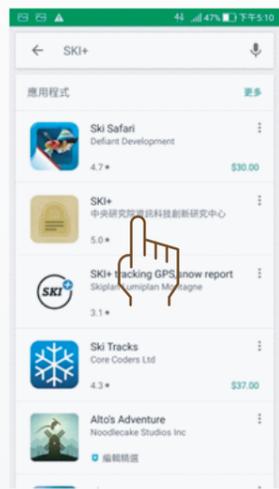
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Installation

Android



Android users can download this app on the Google Play Store.



Follow the invitation link. If the app is not already installed on the user's device, the link will take the user to the App Store or Play Store where the user can download and install the app. The user can also register an account. After completing installation, the app will automatically add the senders of the invitation link as friends.



Follow the invitation link. If the app is already installed on the user's device, the app will automatically launch and add the senders of the invitation link as friends.

Ios

iOS users can download this app on the App Store.



Registration



Users using mobile numbers which have never been registered before will receive an authentication code by SMS. Users should enter the code into the app to complete verification. The app will automatically generate random encryption keys (current encryption keys are "RSA2048") in the device and upload a public key and customized username to complete registration.



Users using mobile numbers which have been registered before will receive an authentication code by SMS. Users should enter the code into the app to complete verification and server-side checks for backup encryption keys will occur.



If there are backup encryption keys, the app will verify the codes. After verification, the device will restore all backed up app data including encryption keys, messages, and address books. This allows users to install the app with the option to restore previously backed up account information before installation.



If there are no backup encryption keys, the app will automatically produce random encryption keys on the device and upload a public key and customized username to complete registration. Users can register a brand new account without restoring previously backed-up app data.

Message interface

New messages



When the user receives a new encrypted message, the latest message will appear at the top of the chats page along with the number of unread messages.

The number of new messages will be displayed in red bubbles on the top right corner of each chat as well as on the app icon on the home screen.

Delete messages



Enter chats by tapping on the chat on the chats page.

Delete a chat by swiping left on the chat on the chats page.

New friend message

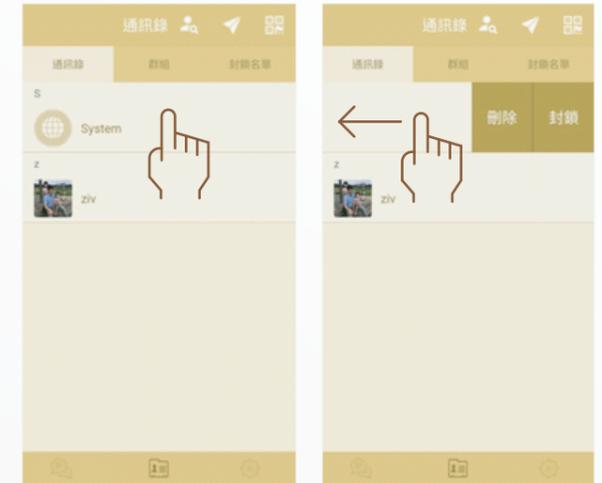


If you add a new friend, you will receive a new friend's message from your new friend's administrator according to your privacy settings.

Address books' interface

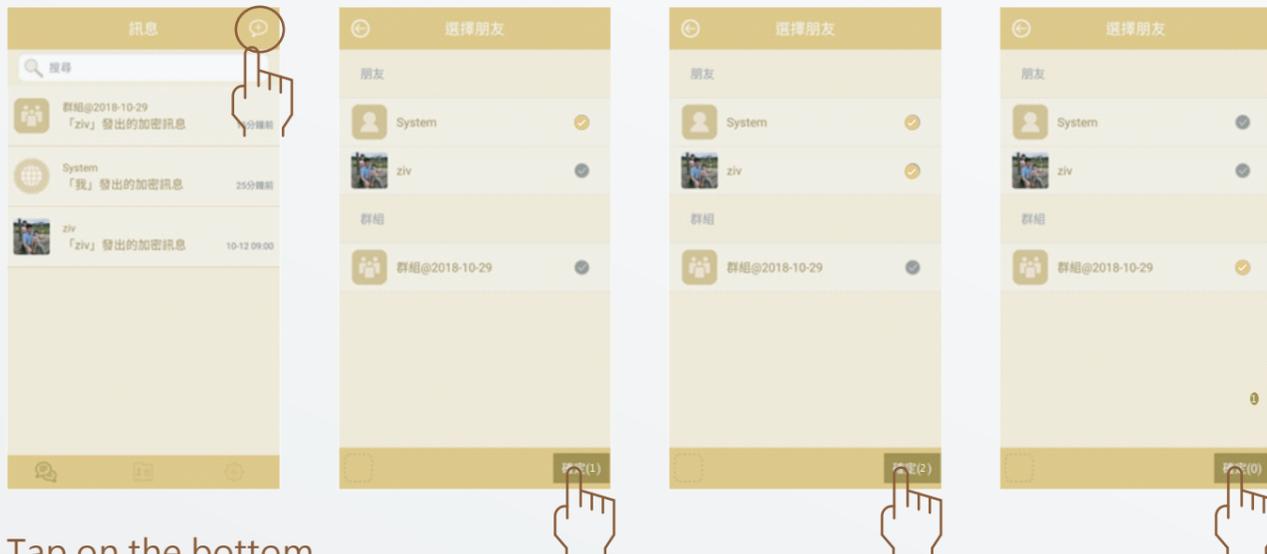
Address book menu has three tabs: Friends list, Groups list, Blocked Users list.

Friends list



Enter a chat with a friend. Delete or block friends by swiping left on their name.

Start a new chat.



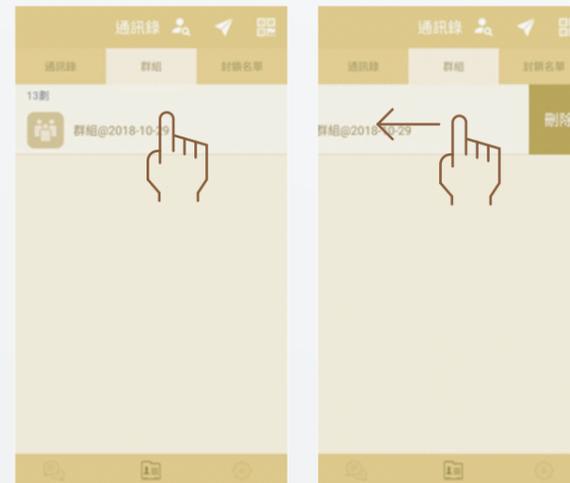
Tap on the bottom right corner of the chats page to start a new chat.

a) Start a new chat with a friend or view chat history.

b) Choose two or more people to start a new group chat.

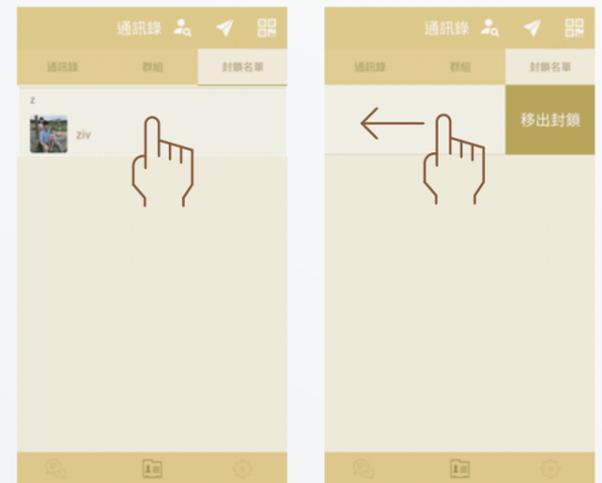
c) Select and rejoin a group chat.

Groups list



Enter a group chat. Leave the group chat by sliding left.

Blocked Users list



Swipe left on a user to unblock.

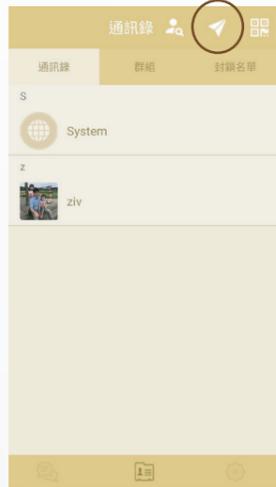
There are three picture buttons on the right side of message interface.

Add friend by scanning phone contacts



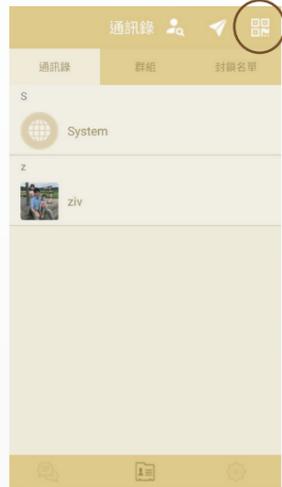
Provided phones will not be stored after comparison. The app will show friends who have already installed the app. Tap to add new friends.

Send an invitation link



Send invitations via any other messaging app, but users must install the app in order to send messages to each other.

Add friend by scanning qrcode



If both people have already installed the app, they can scan each other's QR codes in the app to add each other as friends.

Privacy Settings



Users can set a password to protect chat history and address books. Users can store protected information on the servers and restore information by entering the password.

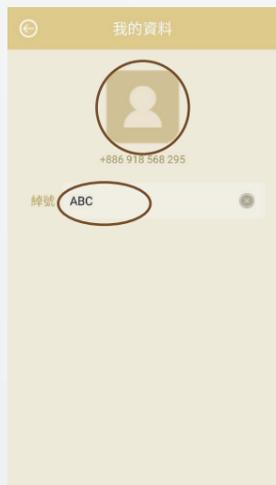
Privacy Settings Allow others to add me, friend requests, and auto-add friends.

Set up interface

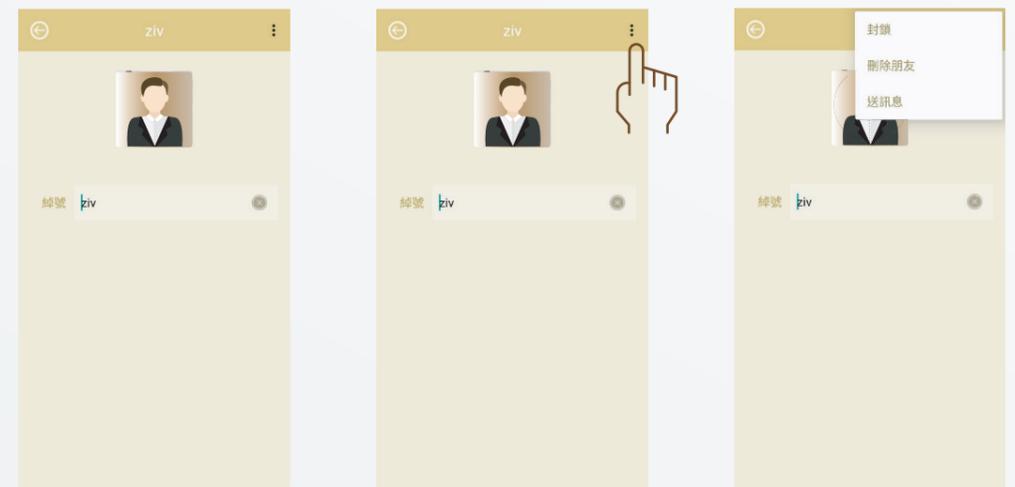
My documents



Set up profile pictures or new nicknames of oneself.



Status message



Allow others to see nicknames and profile pictures. People can add, block or unblock friends here.

Chat room

After entering the chat room, the number of new messages in the new message notification column is zeroed.

One to one



In title bar above, you can see friends' status.

Group



Pressing the title bar, you can modify the group name or description, and check group members.

Members of the group can view the statuses of others and set new nicknames for them.



Swiping on group members can move members out of the group.

Press the action icon in the top right corner to add friends in the address book as new group members.

You can leave and delete the group by pressing the action icon in the top right corner.

Message



In the message input box below, the plaintext will be encrypted and sent to the one-to-one or group chat room after entering the message content.

If delivering a text is successful, the new message below the chat room will show a new cipher text which will be automatically flipped into plaintext.

If delivery of a message fails, the new message below the chat room will be transcribed into plain text with a red label uploaded by the cloud indicates that the message has not been completed, and you can press again to resend the message.



If a new message is received, it will be displayed on the left in chronological order. The most recent encrypted message will be displayed from below. When the user checks the encrypted text, the decrypted plaintext will decode after the flip. Meanwhile, the read notification will be sent back. Later, the user who sends the message will receive the read time label below the original message, indicating that the recipient has decrypted and seen the plaintext.

The record of the chat room can be long-pressed and the floating list can be displayed. You can copy, delete, or forward text.



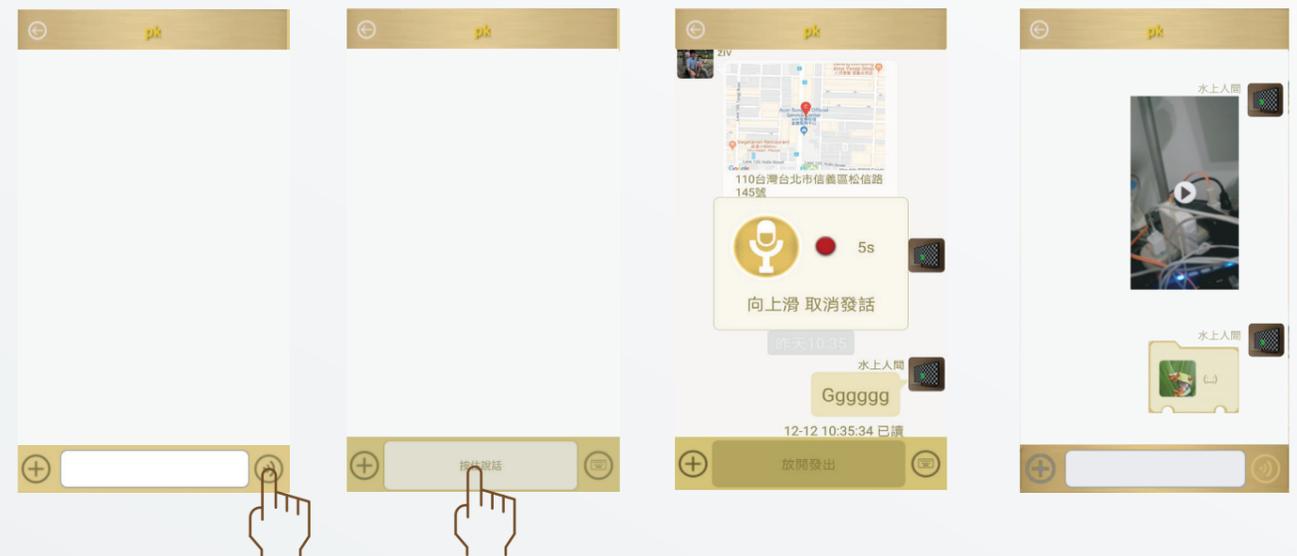
Press the profile picture of the message to see the friend's status.

Text message



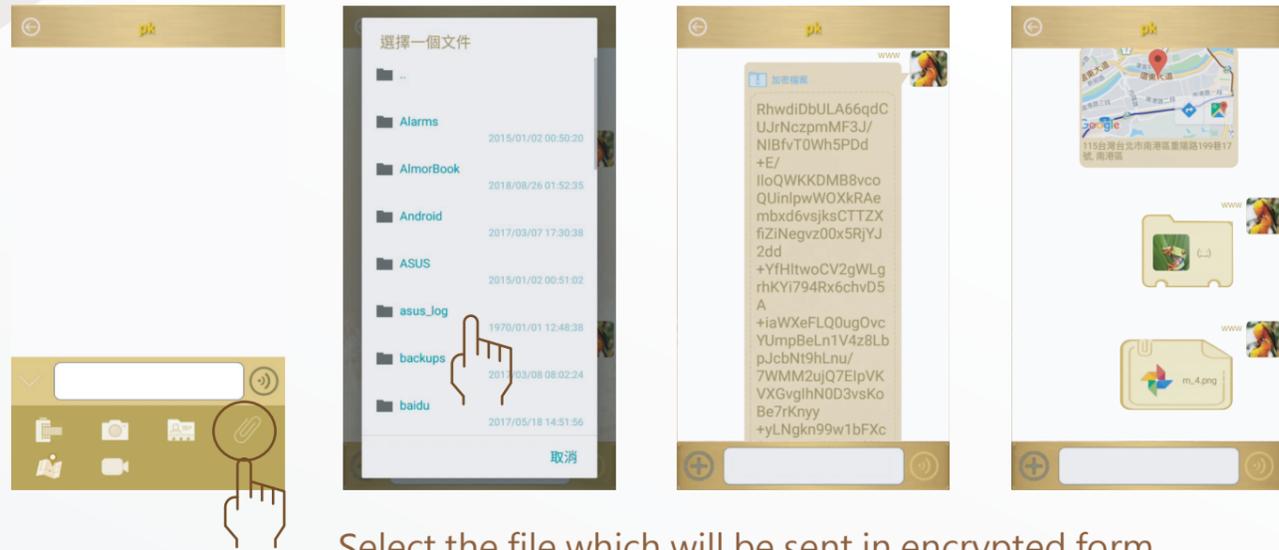
Press the message input box below and enter the text message content, the text will be sent in encrypted form.

Audio message



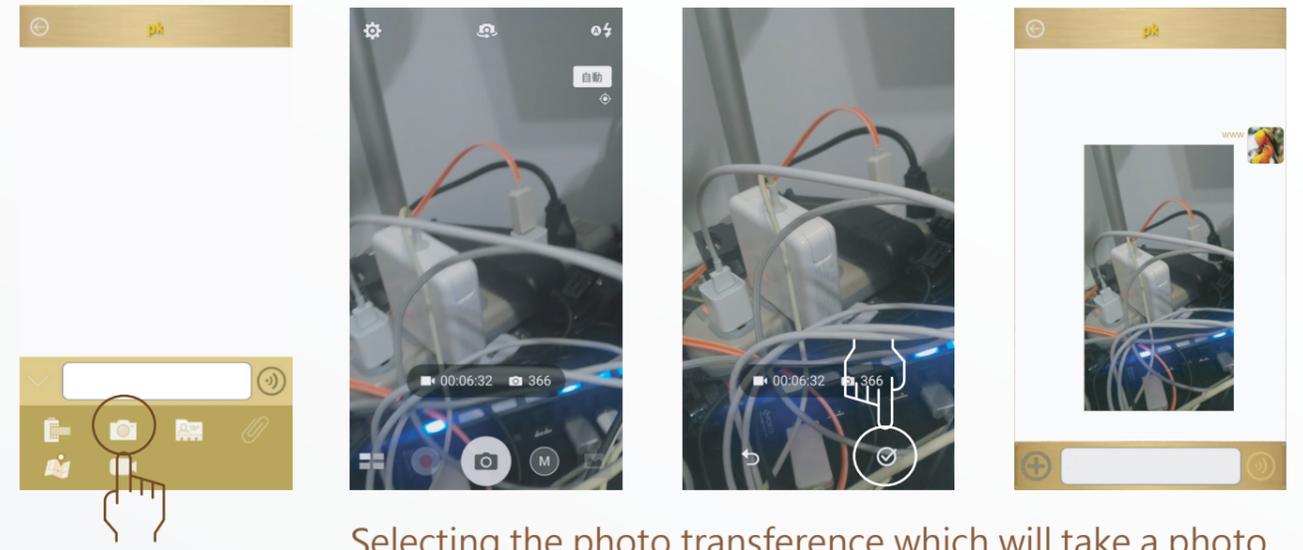
Press the voice button to convert to recording mode, press and hold to speak, release to complete the recording transmission, and the file will be sent in encrypted form.

File message



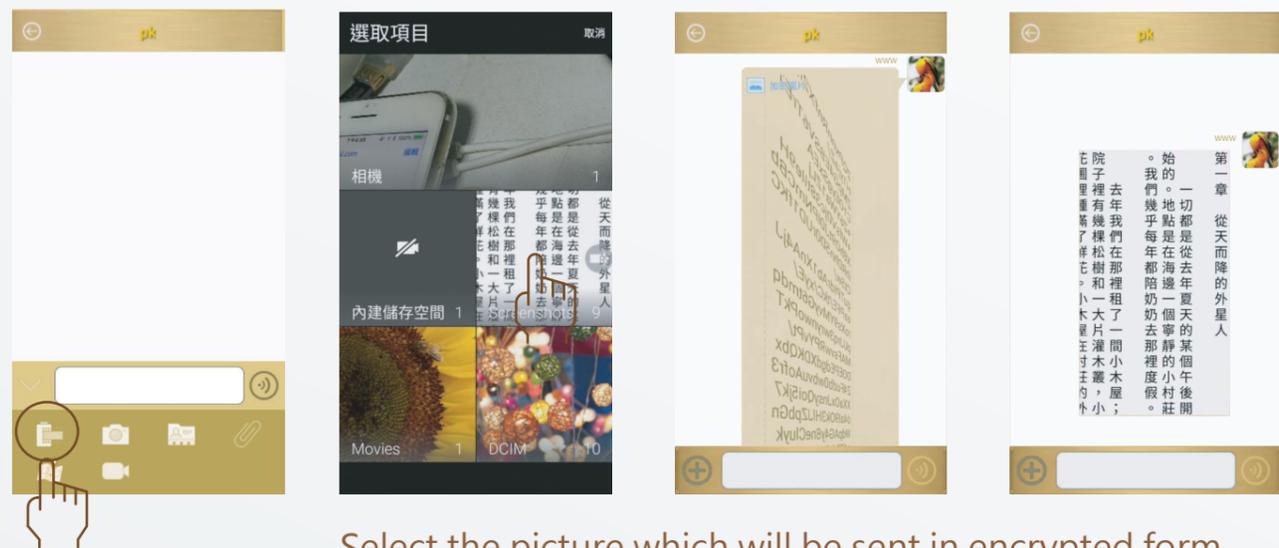
Select the file which will be sent in encrypted form.

Image message by camera



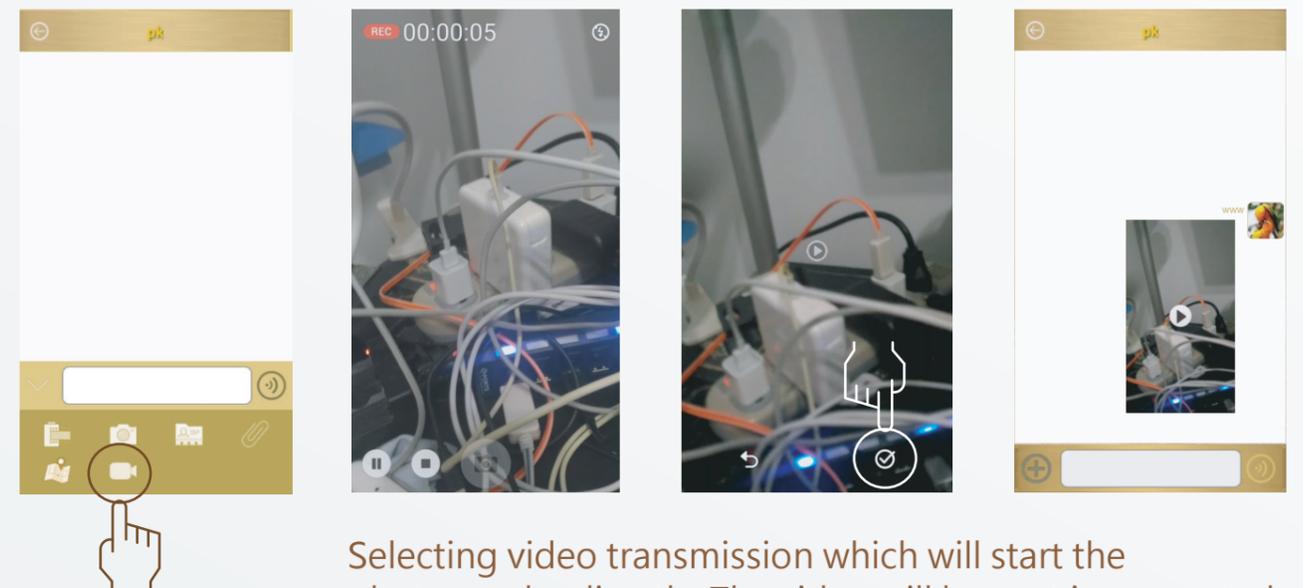
Selecting the photo transference which will take a photo directly through the camera. Photos will be sent in encrypted form when confirming.

Image/video message by album



Select the picture which will be sent in encrypted form.

Video message by camera



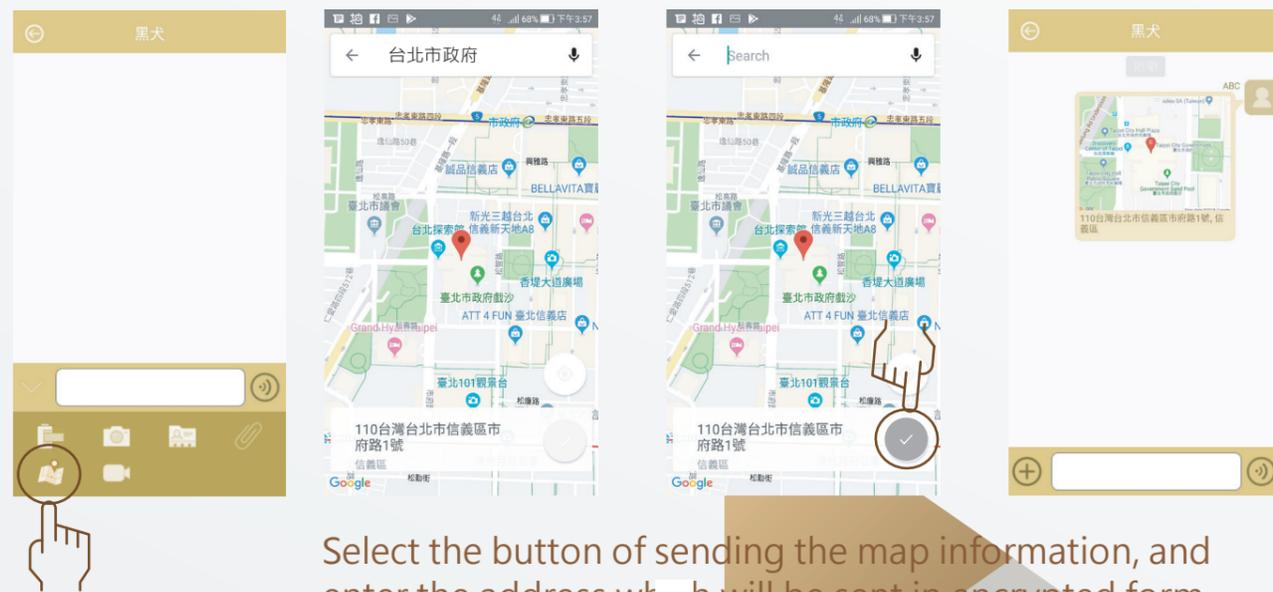
Selecting video transmission which will start the photography directly. The video will be sent in encrypted form when confirming.

Contact message



Click the button of sending the contact information, and select contact people on the device. The information of contact people will be sent in encrypted form when confirming.

Location message



Select the button of sending the map information, and enter the address which will be sent in encrypted form.

Offline notification



If the recipient's app is not working, or hidden in the background, the device will receive a streamlined "new encrypted message notification" and update the number of new messages on the top right of the desktop App icon.