



MonicOra Server API Manual

25/06/2018

MOVIDA Demonstration
ORA2 Smart Glasses
Monicora
Connectivity & Server



- 1) Available features
- 2) How to use and config the app
- 3) Example



1) Available features for the Server

- Connect with the server-side (**LAN/WAN**) through ciphered communication (RSA+AES) through TCP
- Receive and send **text messages** (the app send configurable predefined messages, with little icon to quickly understand the action)
- Receive and send **audio** messages (.3gp)
- Receive and send **video** messages (480p)
- Every type of sent messages (video, text ...) are **located** (longitude, latitude, elevation, %accuracy of signal), **timestamped**, and **the azimuth** (North, West ...) of when the file has been sent is saved.
- Every type of messages are also **saved on the ORA glasses**, so it can be used to retrieve information later or if the app suffer connections issues.
- Moving inside the app is done through a **Bluetooth controller** (buttons are configurable).
- Notifications feedback.



2) How to use and config the app

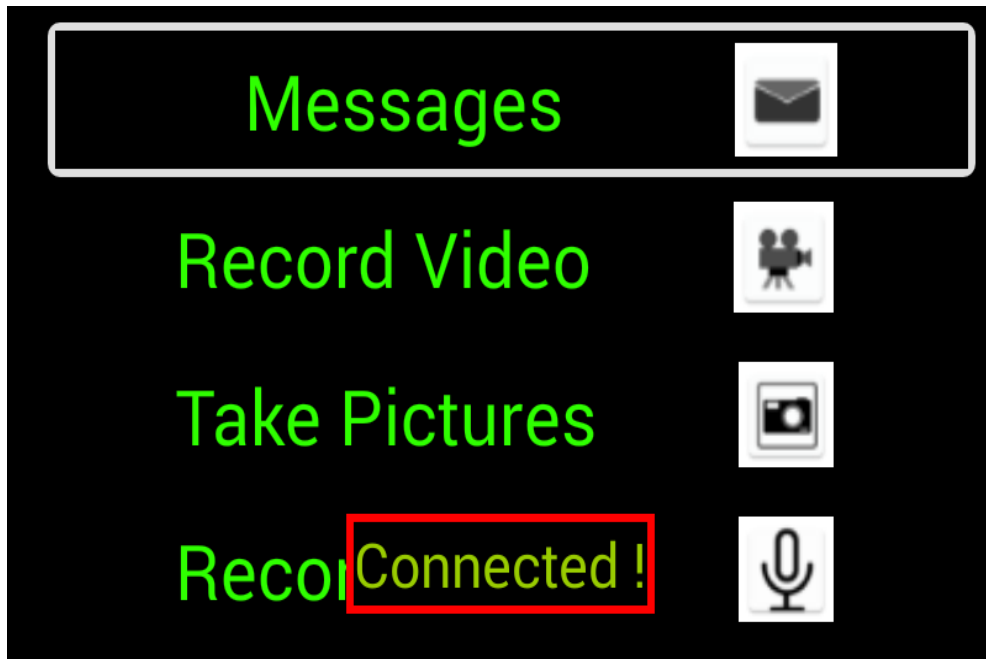
- 1) Install the MonicOra_App.apk on your device
- 2) Manually allow every permissions for the app inside the « Application Menu » of your phone, else the app will not be able to find the necessary resources to work.
- 3) Preconfigure the app using the « opt_config.txt » file. Please, edit files without changing formatting style (e.g use Notepad++). Change the IP, NAME, and if necessary the path of public key and the input key fields. The app is configured to work with the ACGAM R1 controller by default.
- 4) Put the « opt_config » and the « opt_pubKey.key » files in the main « Documents » folder of your phone or the configured path.
- 5) Start the application.

Errors

- Getting the **NO ENCRYPTION KEY**: This could be caused because the permission to access storage directory is not set or because the opt_pubkey.key file is not found.
- Getting the **Not Connected** : The app can't connect with the server. Check the IP in the config file, the IP/PORT of the Server and network infrastructure configuration (ping for visibility).
- Getting the **BAD ENCRYPTION KEY** : Either the app has closed during initialization, either the public key is not related with the server private key.



3) Usage and example.



The app does work offline so the user can still record or take pictures.

Once connected the app will send the configured name of the device to the server.

Then the user can move through the menu using the controller.

Key mapping

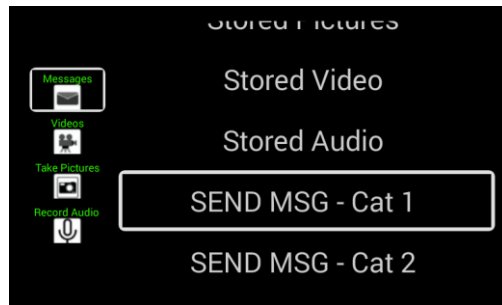
RIGHT : Progress inside a menu and perform action, such as confirm a message, take a picture, start/stop recording audio or video.

LEFT : Return in the previous menu

UP and DOWN : Move through the menu/stored messages.

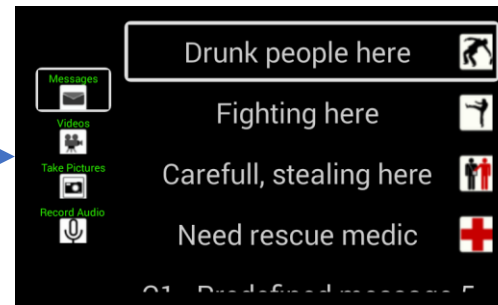


3) Usage and example.



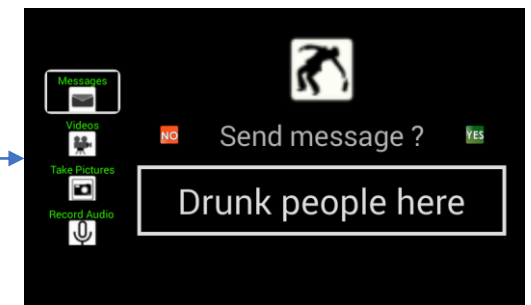
Selection of a message to send

KEY_RIGHT



Example of predefined dummy messages.

KEY_RIGHT



Confirm sending the message



THANK YOU!



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