Physical Architecture:

Of all the models to "AMIR Designs Ltd's", this is the most comprehensive and practical, yet luxuries one there is. Once again, the design is inspired from nature but in a new perspective. The unit is packed with features and functions to satisfy not only all there is to Smartphone expectations, but also to fulfill the needs of professionals and businessmen who care for a greater performance and the silent language of luxury. The model is also fitted with game capabilities to provide for those who desire electronics entertainments such as youngsters and so on. In doing so, this outstanding unit is designed to look like both Tablet, and Pocket Personal Computer, wrapped in exotic snake skin.

The Smartphone consists of two modules, The Display Module that is on top and is the face of the unit, also the Main Module that sits beneath having most of the PCBs, controls, connectors and etc. Only the Display Module is foldable.

1- The Display Module:

There are two full sides to the module that a single side comes to contact with the user only. There are two displays to the module, one per each side. At one side is the half size, Non-touch which is the secondary display accompanied by keys and controls. On the other side is the full size, Multi-touch display which is the Primary display. Other than certain minor marginal parts, there is no other major component to this side. For the sake of practicality, the designer Mr. AMIR recommends to have the unit when carried around, in its default positioning which is folded having the secondary display exposed and outward.

The two modules are connected by a special pivotal joint allowing the both fold/unfold of 0 to 180 swivel motion as well as the Display Module's pivot motion onto the Main Module. A combination of a 90° unfold swivel motion and a 180° CW pivotal rotation of the display module allows a swap of display accessibility from the secondary display to main display availability. The hinge to the unit is designed and constructed in a way that is capable of maintaining any angle it is adjusted to, depending on the application in use.

On the very top, near the edge, above the display and to the very left is the 7 segment linear LED array sitting at an angle.
In the center is the Ear-set assembly, and to the very right is the secondary camera mounted on a frame.
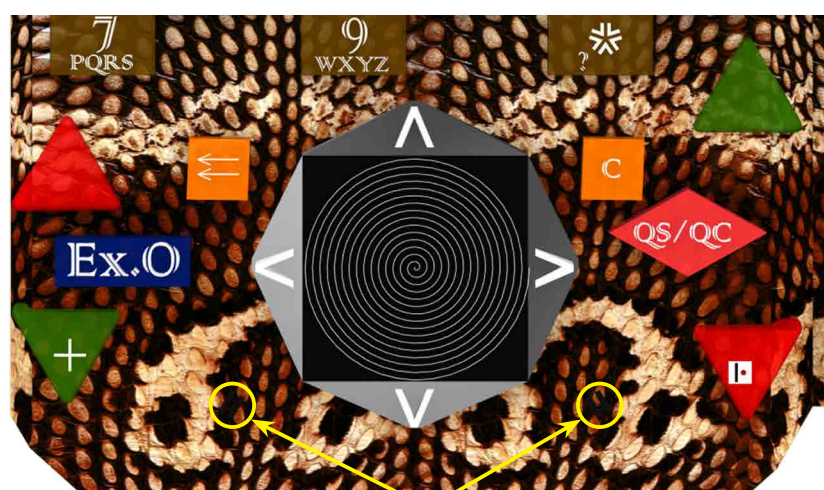
About the entire upper half of the face is occupied by the secondary display, designated for basic observation functions. The display placement is slightly to the left leaving a wider margin to the right for the sake of practicality and proper fitting when the Smartphone unfolds.

About three quarter down the module face is the standard "AMIR Designs Ltd's" Merged keypad. In accordance to the Merged keys standard, every 2 semi-transparent brown keys on this model are connected in a way that the even keys are attached and stand to the upper right corner of the odd keys bonding a pair. They are laid on a handsome background of a fine snake skin.

The bottom quarter of the module face is dedicated to a well grouped Button Field. On the top left corner of the button field, below number 7 key and nearly passed the edge is 1st R of the Accessed easily buttons. Immediately below and slightly to the right of 1st R is the Ex.O button. Near the bottom left of the module face is 2nd G button. Both 1st R & 2nd G buttons have passed and protruded the left edge. In the center of Button Field is FPS assembly. In between 1st R and the upper left corner of FPS sits the orange square "Back" button. Passed FPS and across from the "Back" button there located the "C" button that is orange square too. With respect to an imaginary line running through the width of the Smartphone and above 1st R button, the 1st G button stands clearly higher and above the line, protruding past the right edge. Slightly below the "C" button sits the first set of red, diamond shaped QS/QC button. To the very right corner of the module is the 2nd R button which is also Power On/Off button. All of the Accessed easily button are triangular shaped, and the entire Button Field is semi-transparent. The Microphone set is at the very lowest part of the module's face, near the center edge.
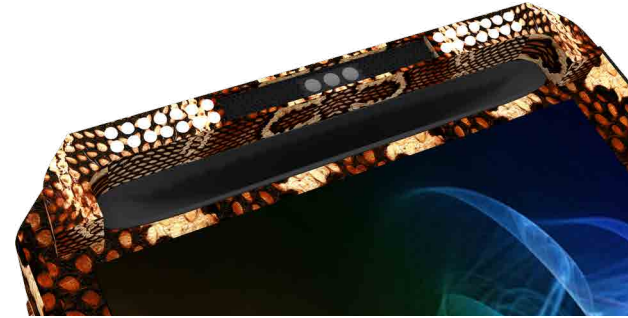

Microphones

The inner side of the Display Module face is mostly taken by a large Multi-touch display, as it was declared as the primary display.
Over the upper edge and also over the lower edge there the two protruded (Tongue) mechanism. Over onto the upper Tongue and in the middle is the second Ear-set assembly. There are two stacked up rows of each 7 Doted LEDs adding up to 14 on each sides of the Ear-set assembly totaling to 28 Dots. This is the second set of LEDs which is designated to this side of the module only.

Below the display and over onto the lower protruded edge (the lower Tongue) is another Microphone set.

Microphones

Looking around the sides and only onto the right side, there are two Loudspeakers occupying the entire right hand side wall. The two are separated by the pivotal joint in the center.
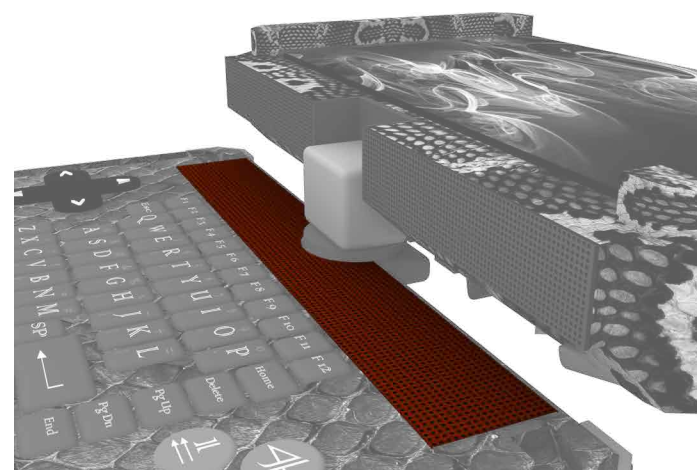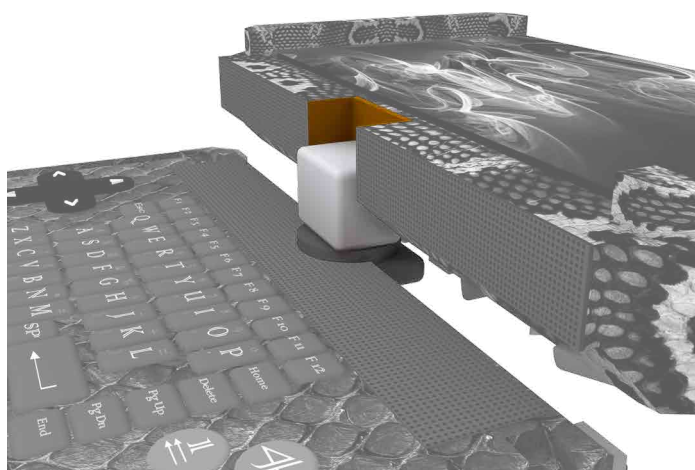

2-   The Main Module:

It contains the main PCB inside and also all the exterior components that are described below.

To have access to QWERTY Keyboard and the remaining controls of the Main Module, the user must unfold the Smartphone first. It opens on a single hinge that is connected from one side to the Main (base) Module and from the other side to the Display Module. The connecting joint is placed in the center, in a way that not only allows the unfolding, but also the pivotal joint allows the rotation of the Display Module as well.

A Loudspeaker of about 1cm in width and about 7cm in length has been placed on the very upper edge of the Main Module.
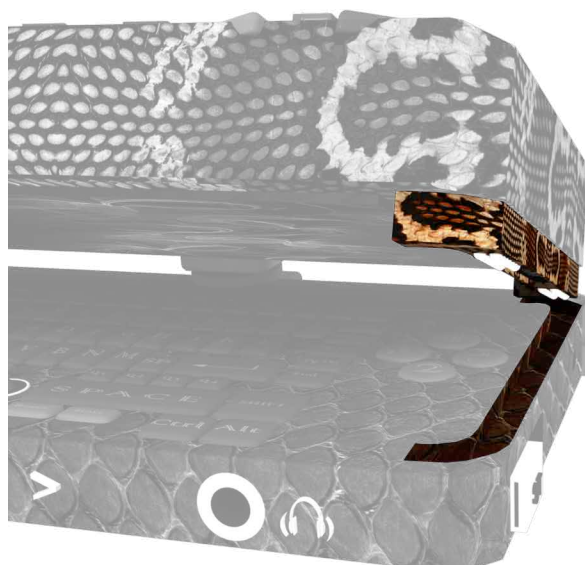
Immediately below the Loudspeaker and center aligned is a full QWERTY keyboard. There is more to "AMIR Designs Ltd's" QWERTY keyboard than the typical ones. To the top row of "AMIR Designs Ltd's" full QWERTY keyboard, there are 12 function keys marked as F1 to F12. Other additions include "SP" button near Carriage return. To the left and slightly lower is the second set of QS/QC in red and rectangular. Further to the right are 4 "Q" buttons (abbreviated for Quick buttons) marked as Q1 to Q4. They are to assign certain tasks depending on the user's needs and preference. A Ball track mouse sitting below the center.

All the way to the lower left of the keyboard, the 3rd from the left is a special key designated to directly connect to "AMIR Designs Ltd's" website allowing the user an immediate access to the hyperlink. The key is specifically decorated with "AMIR Designs Ltd's" emblem.

On the left side of the QWERTY keys, there are the quad directional arrows of Arcade group. On the right hand side of QWERTY keys are "1, 2, 3, and 4" number buttons. Another designation of the number "1" button is to perform as "Back", and the "3" button is to perform as "C". Near the bottom center there are two rectangular orange buttons. The one on the left is the Reset and on the right is the Start buttons of Arcade group.

The two grooves implemented along the length both on the left and right hand sides of the Main Module are designated to receive the protruded edge allocated onto the Display Module to reinforce the integrity of the two when folded. The two "Protruded edges" and the two "Grooves" function like a Tongue & Groove mechanism.

Around the side walls, starting from the bottom is the partial view of R1, R2 buttons of Arcade group, then is the first Band slot and near the left corner is ST switch.
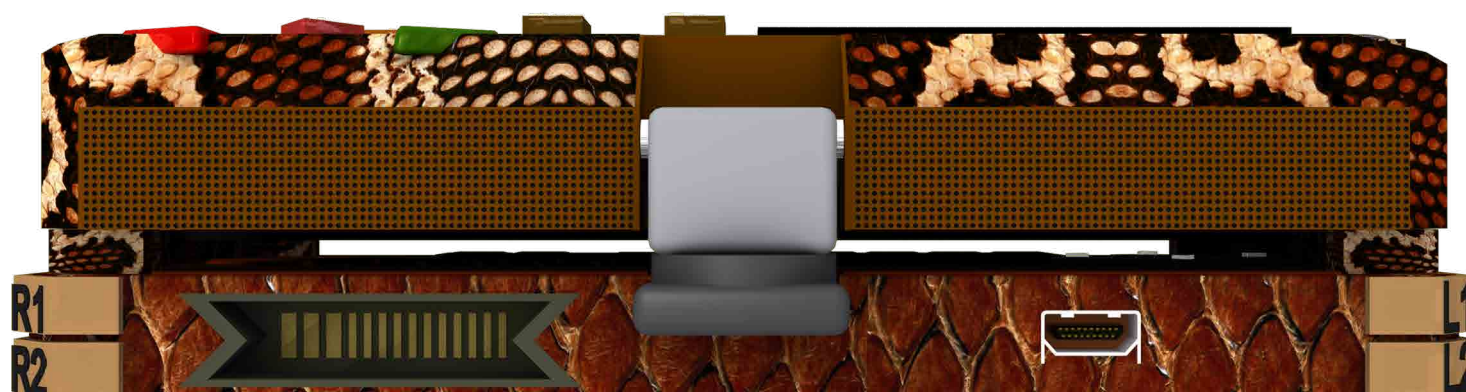

On the left side wall starting from the lower end is the Headphone plug, to the center are Volume adjusters, and half way before the corner is Screen Off/On.

On the top wall pass the corner is Lock/Unlock switch, and further to the left before the corner is the second Band slot. On the following corner are the partial view of L1 and L2, of Arcade group.
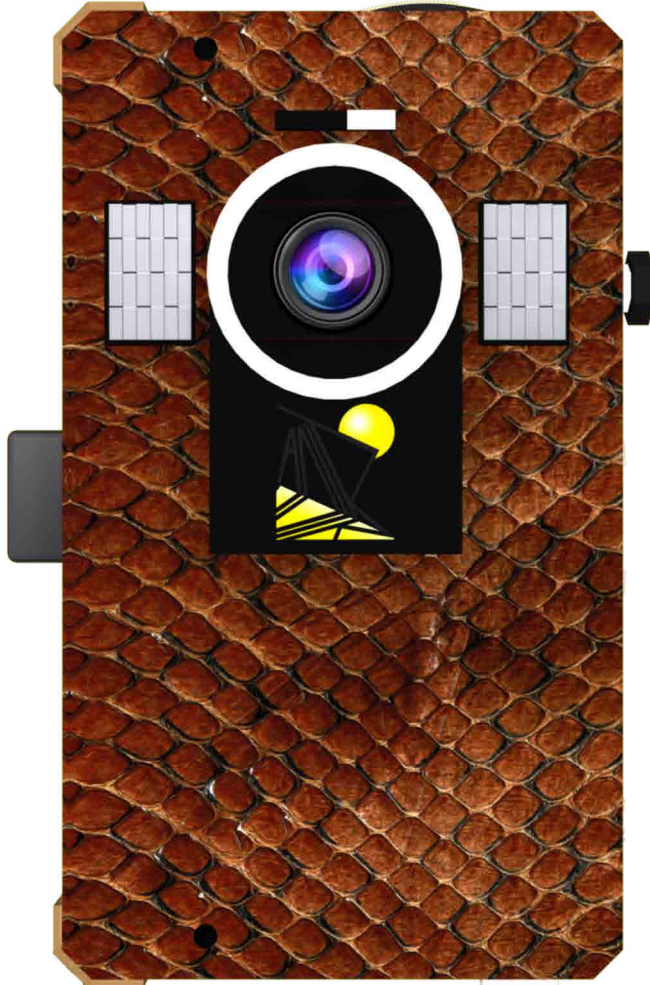

On the upper right wall and at the corner L1, L2 come to full view. Half way before the center joint is HDMI port. Past the center, where the connector joint is, sits Charger/PC connector. Lastly is the full view of R1 and R2 of Arcade group at the corner.

On the backside of the module are the Main camera assembly and "AMIR Designs Ltd's" Logo.

Now that the task and capabilities of the two modules are described each individually, the knowhow to display positioning with respect to the Main Module is as follows:

Applied Positions:

Based on the user's intended application(s), the Smartphone could be used either in a folded position or the unfolded. The positions and the proposed corresponding applications are as follow:

1-   The Folded Position:

   1A- The secondary display (Non-touch) and FPS are outward. The user has access to the Merged keypad, and the Button Field when carried around.

   1B- The primary display is outward. The user has access to all the keys in soft touch mode in the larger Multi-touch display.

2-　　The Unfolded Position:

    2A- The user has access to full QWERTY keyboard and the large display where it stands at a nearly 90º to watch a movie or surf the internet, while has access to just about all other functions as seen in the image.

    2B- In addition to QWERTY keyboard and the large display, the user has full access to Arcade group to enjoy the games and the potential to maneuver the display per desired positioning up to 180 º angles.

Note: *In order to switch from 1A to 1B position it is required to unfold the Display Module by 90° perpendicular with respect to the Main Module, then rotate the Display Module by 180° CW and finally refold back by 90° to the closed position.*

Texture & Applied Material:

The enclosure material is made out of Aluminum alloy and PVC. The exterior of the Smartphone; however, is wrapped in fine snake skin leather which are in two different tones and colors. The Display Module is covered with a design resembling Indian King Cobra with tan or beige patterns where as the Main Module is wrapped in a Brown Cobra design which is mainly the patterns of the same color as seen in the images. To satisfy the users preferring materials other than natural leather, the unit could be wrapped using synthetic leather(s) having individually selected patterns and designs per customer orders.

FOR BETTER VISUALIZATION OF THE SMARTPHONE PLEASE REFER TO ITS RESPECTIVE VIDEO CLIP .