

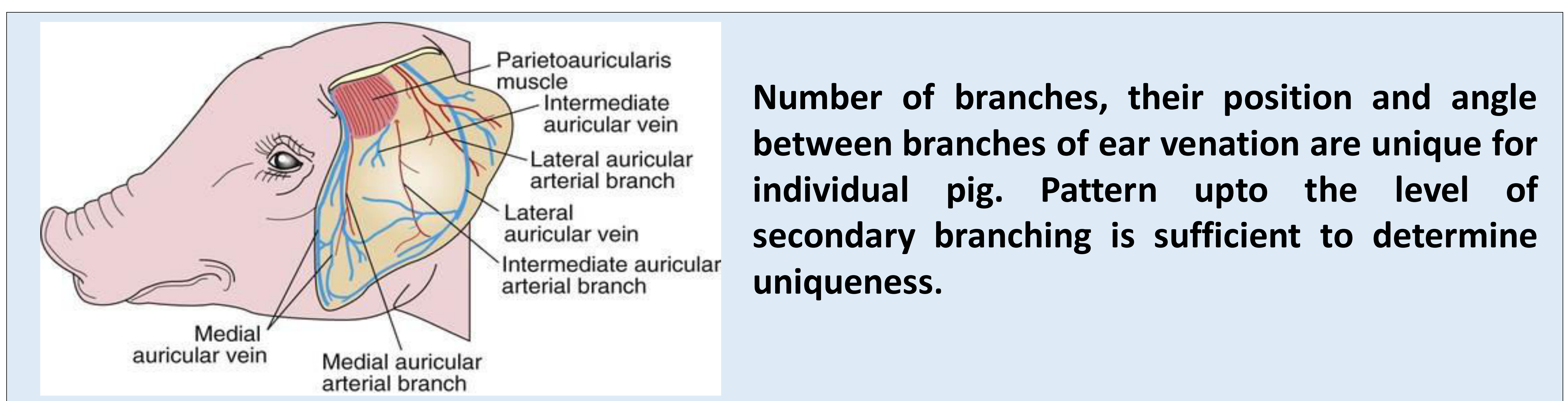
Individual Pig Identification using Ear Venation Pattern

Problem being Solved

All traditional goat and pig identification systems are tamperable and hurtful to the animals. Because of non availability of a dependable identification system, the large number of farmers (mostly marginal) cannot claim proper insurance, and services for their animals, a good traceability system for pork & chevon production cannot be developed. As a result, the small farmers are denied their potential income, and pig fatteners & processors cannot develop potential system of world standards.

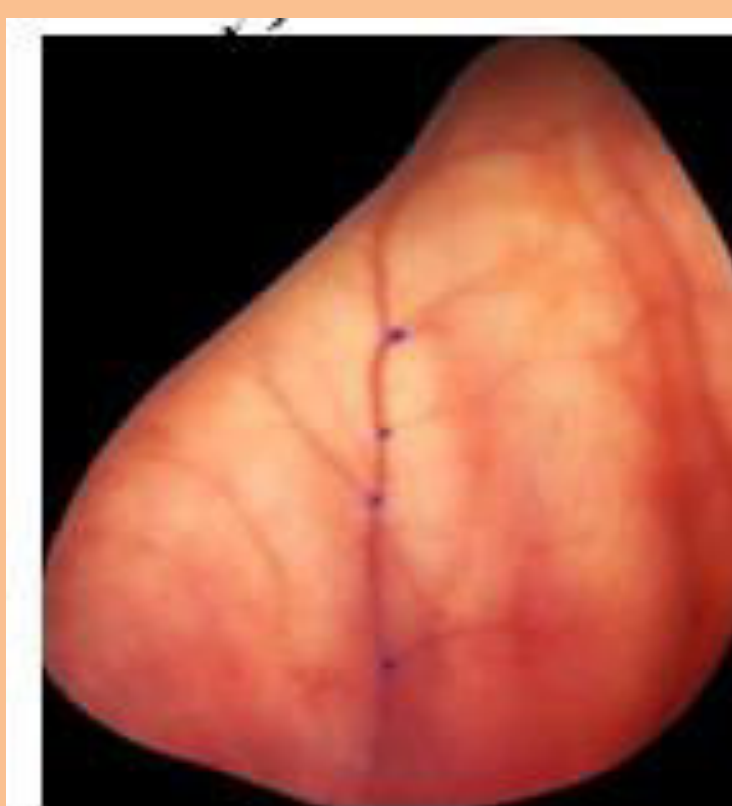
Solution for Pig

As in humans, biometric identification systems would be foolproof for animals too. Hence, various trait features were explored for **constant individual uniqueness** and **ease of capture**. Ear venation pattern was selected as the most suitable for unique identification of pigs.

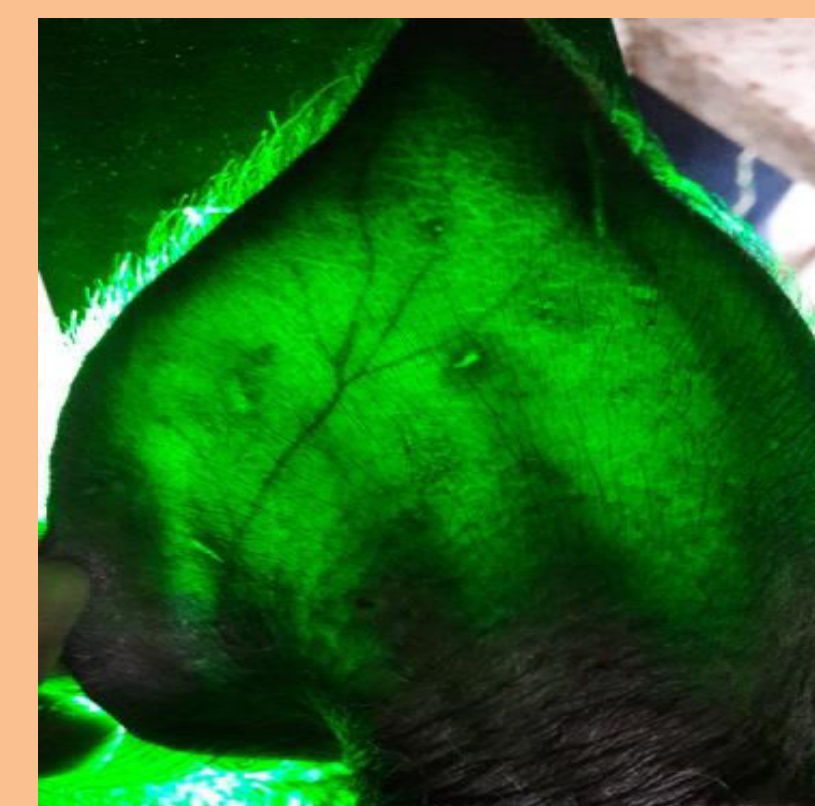


Samsung smart phone with 10MP camera was used for capturing ear veination pictures.

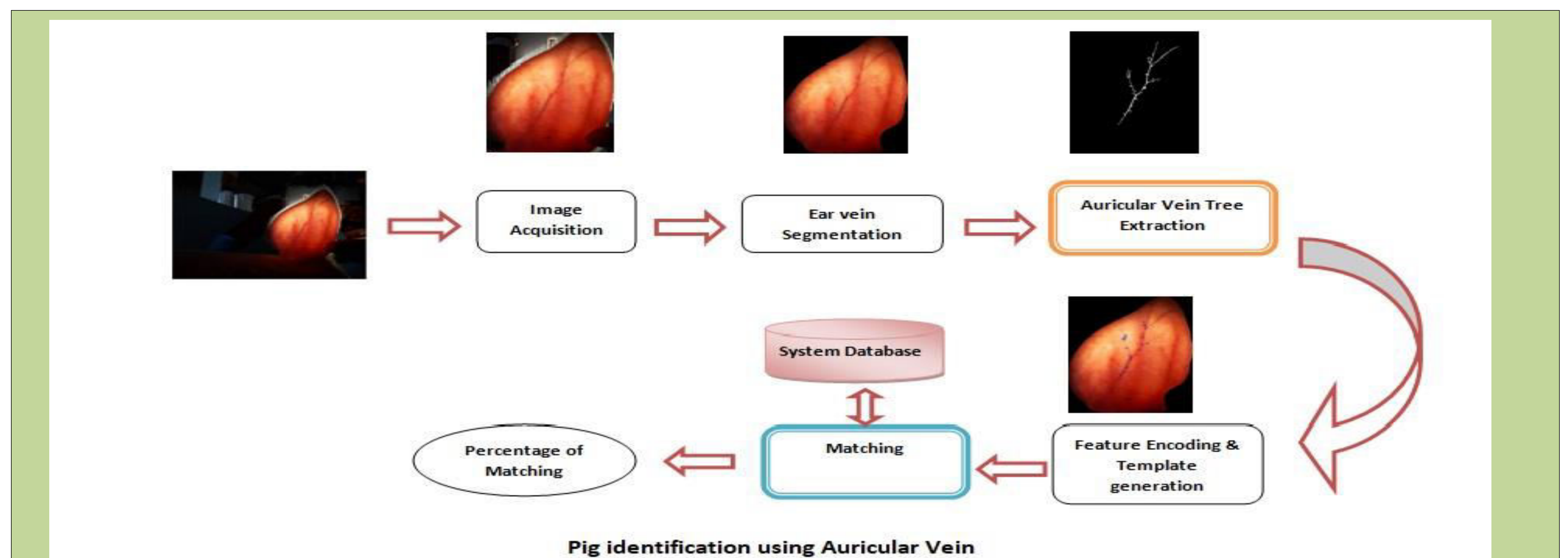
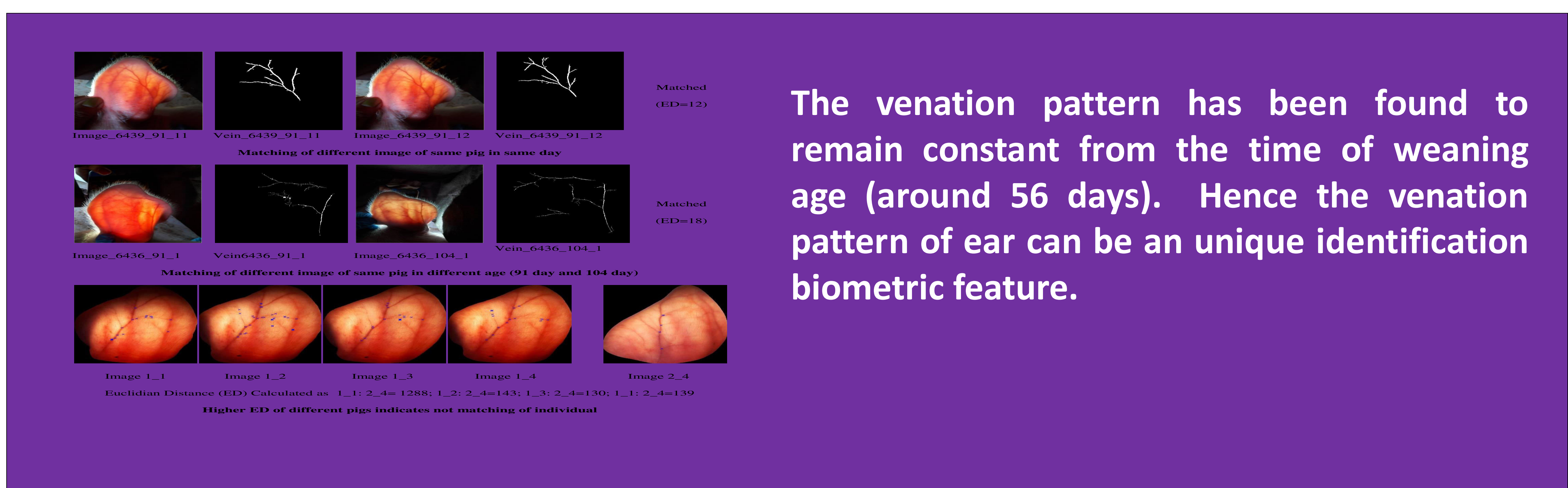
Ordinary mobile camera light is sufficient for light coloured pigs. Special hand held LED device for green light developed for dark coloured pigs.



Light Coloured pigs



Dark Coloured Pigs



Software for Individual pig Identification has been developed and copyright application has been filed. Software for communication between the smart phone (Samsung Galaxy) in the field and a central database is being developed.