Abstract

Modern avionics provide a comprehensive human-machine interaction. The modern electronic displays are the key components of any glass cockpit based aircraft employing the state of art avionics and are being increasingly used due to two main reasons: firstly, the continuous advancements and improvements in the electronic display technologies, and second being the progressive changes in the onboard data distributing and processing methods in both military and civil aircraft. In this article we have discussed several electronic display devices and relevant technologies for avionics display use especially with reference to the head-up displays. These display technologies have been analysed with reference to the avionics display requirements and vital parameters like size, resolution, brightness, flicker, shades of grey, contrast, color, power consumption, etc.
Analysis of Displays Attributes for use in Avionics Head up Displays

References

- Oldfield D. E., "Initial trials in Hunter XE531 of an electronic display of basic flight data"; Royal Aircraft Establishment Technical Memorandum IEE 177, 1967.
Analysis of Displays Attributes for use in Avionics Head up Displays


Index Terms

Computer Science  Artificial Intelligence

Keywords

Cathode Ray Tube  Display Attributes  Head Up Display  Display Writing Methods
Display Technologies.