

Abstract

The present invention relates to an intelligent medical display system, which comprises a video acquisition module, an AI edge computing module, a marking layer output module, a video superimposition module, and a display module. The video acquisition module receives a video input signal and transmits same to the AI edge computing module; the AI edge computing module analyzes the video input signal to obtain a lesion target detection packet, a lesion segmentation packet, and a semantic scene detection packet, and pushes same to the marking layer output module; the marking layer output module groups and marks the pushed packets, performs marking on background images according to a grouping and marking result to form a lesion target detection result video, a lesion segmentation result video, and a semantic scene detection result video, and outputs same to the video superimposition module; the video superimposition module is used for performing video superimposition; the display module is used for displaying. The present invention can improve image quality and system stability, reduce image processing delay, and improve real-time performance and accuracy in a surgical process.

(FIG. 1)