

PHASE MOTION DETECTION FOR YC SEPARATION

ABSTRACT

Described are a luminance motion detector and method for detecting low frequency luminance motion between a current frame and previous frame of a component video signal. Also described are a phase motion detector and method for detecting chroma motion of a current frame of a component video signal in the presence of luminance. Further described are a demodulated phase motion detector and method for detecting high frequency luminance motion of a current frame of a component video signal in the presence of chroma. Additionally described are a motion detection system and method for detecting motions in a current frame of a component video signal. Further described are a YC separation circuitry and method for separating a current frame of a component video signal into Y and C signals. Also described is an article of manufacture for video signal processing.

FIG 3