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Influence of Image Sticking on Electro-Optical Characteristics in Alternating-Current Plasma Display Panel

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Alternating current plasma display panel (AC-PDP) is the most promising device for the large size display. But there are several problems which have to be solved in AC-PDP, that is, low power efficiency, high price, image sticking and so on. Of these problems, although image sticking is one of major factors to determine display quality in AC-PDP, so far, it has not being reported why it is occurred and how we can prevent it. In this experiment, we have analyzed the optical waveform and the brightness of the image sticking area and compared it with those of normal area. We have measured the optical waveform in accordance with the discharge time and measured the change in the brightness.