ABSTRACT

A position sensor 3 detects position of a moving object 2 transferred along a transfer path 1 to deliver a trigger signal TRIG-IN to a control unit 20 and an image taking-in unit 30. At the image taking-in unit 30, external synchronizing signals EXT-HD, EXT-VD are delivered from a synchronizing signal generating section 31 to a synchronizing signal generating section 21 of the control unit 20. In addition, write enable signal WE corresponding to the trigger signal TRIG-IN is delivered, from a write enable signal preparation section 33, to a memory 32 and to a modulated HD signal generating section 22 of the control unit 20. The control unit 20 generates a modulated horizontal synchronizing signal TG-HD in accordance with the trigger signal TRIG-IN by the modulated HD signal generating section 22 to deliver it to a CCD camera 10, and to control output timing of a video signal VIDEO from the CCD camera 10 on the basis of the write enable signal WE. The CCD camera 10 delivers the video signal VIDEO to the memory 32 of the image taking-in unit 30 at a timing based on control from the modulated HD signal generating section 22. The memory 32 stores the video signal VIDEO from the CCD camera 10.