

FRAME TYPE DETECTION AND FRAME SIZE DETECTION METHODS AND APPARATUSES FOR VIDEO STREAM

ABSTRACT

Embodiments of the present invention provide frame type detection and frame size detection
5 methods and apparatuses for a video stream. The video frame type detection method includes:
obtaining a size of a current video frame, where the current video frame is located after the first
video frame of the video stream; obtaining a change feature value of the current video frame
according to the current video frame and a size of a previous first video frame adjacent to the
current video frame; obtaining an I-frame threshold of the current video frame according to a video
10 frame rate and a location of the current video frame; and determining whether the previous first
video frame is an I frame according to the change feature value of the current video frame and a
change feature value of the previous first video frame, the I-frame threshold of the current video
frame, and the size of the current video frame, the size of the previous first video frame, and a size
of a previous second video frame. The present invention provides a complete and effective frame
15 type detection method, and therefore only one video frame before a previous first video frame is
considered during detection of a frame type of the previous first video frame; in addition, impact of
a video frame rate is fully considered.

20 FIGURE 1