

ABSTRACT

Provided are a method and a device for controlling an output beam of an X-ray source in an imaging system, a CT imaging system, an electronic apparatus, a storage medium and a program product, which relate to a field of security inspection imaging technology. The method includes: receiving (S210) an encoder signal and an X-ray source output beam signal, and initially synchronizing the encoder signal and the X-ray source output beam signal; recording (S220) a coded value M of the encoder at moment t_m , and a coded value N of the encoder at moment t_{m+1} , where each of M , N , and m is an integer; determining (S230) that a duration from the moment t_m to the moment t_{m+1} is an actual output beam time interval T of the X-ray source, when it is determined that a difference value between the coded value M and the coded value N satisfies a preset value a , where a is an integer; determining (S240) a gap time T_G in the actual output beam time interval T based on a preset output beam time interval T_I of the imaging system and the actual output beam time interval T ; and controlling (S250) the X-ray source not to emit an X-ray beam within the gap time T_G . The method solves the problem of sampling image disorder caused by a belt speed fluctuation.