



US 20230232113A1

(19) **United States**

(12) **Patent Application Publication**  
**HE et al.**

(10) **Pub. No.: US 2023/0232113 A1**

(43) **Pub. Date: Jul. 20, 2023**

(54) **METHOD AND APPARATUS FOR  
CONTROLLING LIGHT COMPENSATION  
TIME OF CAMERA MODULE**

**Publication Classification**

(51) **Int. Cl.**  
**H04N 23/73** (2006.01)  
**H04N 23/743** (2006.01)  
(52) **U.S. Cl.**  
**CPC** ..... **H04N 23/73** (2023.01); **H04N 23/743**  
(2023.01)

(71) Applicant: **HUAWEI TECHNOLOGIES CO., LTD.**, Shenzhen (CN)

(72) Inventors: **Yanshan HE**, Shenzhen (CN); **Yu XU**, Shenzhen (CN); **Wei HUANG**, Munich (DE)

(21) Appl. No.: **18/189,362**

(22) Filed: **Mar. 24, 2023**

**Related U.S. Application Data**

(63) Continuation of application No. PCT/CN2021/106061, filed on Jul. 13, 2021.

**Foreign Application Priority Data**

Sep. 25, 2020 (CN) ..... 202011020997.9

(57) **ABSTRACT**

This application provides a method and an apparatus for controlling a light compensation time of a camera module. An example method includes: determining a first target area in a first image shot by a camera before a current frame; determining a first exposure time period of a first target photosensitive chip row in the current frame based on the first target area; and indicating, based on the first exposure time period, an infrared light source to perform light compensation in response to at least that the photosensitive chip is exposed in the current frame.

