

FP:("Luxvisions Innovation")

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ANALYSIS

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Countries		Applicants		Inventors		IPC code		Publication Dates	
United States of America	33	GUANGZHOU LUXVISIONS INNOVATION TECH LIMITED	22	SHIH-CHIEH YEN	14	H04N	29	2018	5
				CHENG-TE TSENG	5	G02B	24	2019	5
China	15	LUXVISIONS INNOVATION LIMITED	15	YEN SHIH-CHIEH	4	G03B	12	2020	19
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Machine translation

1. **20210239933** IMAGING APPARATUS AND METHOD FOR ASSEMBLING THE SAME

US - 05.08.2021

Int.Class **G02B 7/04** Appl.No 17240038 Applicant LUXVISIONS INNOVATION LIMITED Inventor Cheng-Te Tseng

An imaging apparatus includes an image sensor assembly and a flexible flat cable. The image sensor assembly includes a movable substrate, an image sensing chip, and a bearing frame. The image sensing chip is disposed on the movable substrate and electrically connected to electrical connection pads of the movable substrate. The bearing frame is surrounds the image sensing chip. The flexible flat cable includes a fixed disposed corresponding to an edge of the movable substrate, a floating section having one connected to the fixed end and floating over an upper surface of the movable substrate, and an electrical connection end extending from the other end of the floating section. The electrical connection end is perpendicular to the upper surface of the movable substrate and terminals on an edge of the electrical connection end are electrically connected to the electrical connection pads.

2. **20200142281** IMAGE-CAPTURING ASSEMBLY

US - 07.05.2020

Int.Class **G03B 17/12** Appl.No 16670670 Applicant LUXVISIONS INNOVATION LIMITED Inventor Kuo-Hao Peng

An image-capturing assembly includes a circuit board, an optical filter, an image-capturing element between the circuit board and the optical filter, and a holder. The holder includes a fixing portion. The image-capturing element is on the circuit board and electrically connected to the circuit board. The holder is on an external side of the image-capturing element. The fixing portion has an upper surface and a lower surface opposite to each other, and the lower surface is fixed on the circuit board. The optical filter is fixed on the upper surface of the fixing portion.

3. **208143330** CAMERA MODULE AND PORTABLE ELECTRONIC DEVICE

CN - 23.11.2018

Int.Class **H04N 5/225** Appl.No 201820312832.0 Applicant GUANGZHOU LUXVISIONS INNOVATION TECHNOLOGY CO., LTD. Inventor YAN SHIJIE

The utility model provides a camera module and portable electronic device, the camera module includes microscope base, camera lens, filter element and sensing element. The camera lens disposes on themicroscope base. Filter element includes first sub - filter element and the sub - filter element of an at least second, and the sub - filter element of an at least second disposes in first sub - filter element's long side. Filter element is located between camera



lens and the sensing element. Sensing element has first region and at least second district, and wherein the first region is distinguished for the visible light formation of image, and at least second district distinguishes for the formation of image of non - visible light. First sub - filter element corresponds the first region, and the sub - filter element of an at least second corresponds at least second district. Consequently, can effectively utilize non - visible light to become the image space and keep the optics quality simultaneously.

4. **20180048825** IMAGE CAPTURING APPARATUS AND IMAGE SMOOTH ZOOMING METHOD THEREOF

US - 15.02.2018

Int.Class **G02B 13/02** Appl.No 15335445 Applicant LUXVISIONS INNOVATION LIMITED Inventor Keng-Chun Wang

An image capturing apparatus and an image smooth zooming method thereof are provided. The image capturing apparatus includes a wide-angle lens and a telephoto lens having different sizes of field of view (FOV). In the method, a wide-view image and a tele-view image are respectively captured by using the wide-angle lens and the telephoto lens according to a zoom scale in a capturing setting. Ratios of the FOV sizes of the wide-angle lens and the telephoto lens to the zoom scale are respectively calculated and used to zoom the captured wide-view image and tele-view image so as to fit the zoom scale. The zoomed wide-view image and tele-view image are aligned according to a shift between view centers of the wide-angle lens and the telephoto lens. Finally, the zoomed and aligned wide-view image and tele-view image are overlapped to output an overlapped image fitting the zoom scale.

5. **111965920** PHOTOGRAPHIC DEVICE

CN - 20.11.2020

Int.Class **G03B 11/04** Appl.No 202010489320.3 Applicant LUXVISIONS INNOVATION LIMITED Inventor ZHANG YAOZHONG

A photographic device comprises a bottom plate, a sensing unit, a base, an optical filter and a lens module. The sensing unit is located on the bottom plate, and the base is located on the bottom plate and surrounds the sensing unit. The base comprises an opening, and the optical filter is located on the base and covers the opening. The lens module comprises a lens barrel, a lens mount and a lightshielding plate, the lens barrel is located in the lens mount, the lens mount is connected with the base, the light shielding plate comprises a light shielding part and a light transmitting opening, the light shielding part surrounds the light transmitting opening, and the lens barrel, the light transmitting opening, the opening and the sensing unit are aligned with one another in the light incident direction. Through the design of the light shielding plate, stray light can be effectively reduced, and the production cost can be prevented from rising.

6. **20220137427** IMAGING CORRECTION UNIT AND IMAGING MODULE

US - 05.05.2022

Int.Class **G02B 27/64** Appl.No 17493860 Applicant GUANGZHOU LUXVISIONS INNOVATION TECHNOLOGY LIMITED Inventor Chuan-Hui Liu

An imaging correction unit and an imaging module are provided. The imaging correction unit has an optical axis, and includes an optical turning element and two wedge-shaped optical elements. The optical turning element has a light emitting surface, and the light emitting surface has a first included angle with respect to the optical axis. Each of the two wedge-shaped optical elements has an inclined optical surface, and the inclined optical surface has a second included angle with respect to the optical axis. The light emitting surface of the optical turning element faces one of the two wedge-shaped optical elements, and the two wedge-shaped optical elements are rotatable relative to the optical axis.

7. **20210258480** IMAGING DEVICE AND IMAGING METHOD

US - 19.08.2021

Int.Class **H04N 5/232** Appl.No 17313350 Applicant GUANGZHOU LUXVISIONS INNOVATION TECHNOLOGY LIMITED Inventor Guan-Jie Su

An imaging device includes a light emitter, an optical diffraction plate, a pair of wedge prisms, a rotation unit, a light receiver, and a processing unit. The light emitter emits a light beam. The optical diffraction plate is for converting the light beam into a plurality of diffracted light rays that forms a first light spot. The pair of wedge prisms is for adjusting an emission direction of the first light spot. The rotation unit is connected to the pair of wedge prisms and is for rotating the pair of wedge prisms relative to each other. The light receiver is for receiving a plurality of second light spots reflected from the plurality of first light spots. The processing unit is connected to the light receiver and is for generating a plurality of pieces of light spot information and processing the plurality of pieces of light spot information into image information.

8. **20210310800** 3D SENSING DEVICE, LIGHTING MODULE AND CONTROL METHOD THEREOF

US - 07.10.2021

Int.Class **G01B 11/25** Appl.No 17349643 Applicant GUANGZHOU LUXVISIONS INNOVATION TECHNOLOGY LIMITED Inventor Jui-Kuang Tsai

A 3D sensing device configured to sense a to-be-detected object is provided. The 3D sensing device includes a lighting module and a sensing module. The lighting module includes a lighting element, an optical element group, and a drive circuit. The drive circuit is coupled to the lighting element and configured to light the first lighting region, or the second lighting region, or both the first lighting region and the second lighting region. The drive circuit can determine an optical power of the second lighting region. The lighting module selectively emits a diffused light, or a structured light, or both the diffused light and the structured light. The sensing module is adjacent to the lighting module and configured to sense the diffused light, or the structured light, or both the diffused light and the structured light reflected by the to-be-detected object.

9. **20200371407** OPTICAL IMAGING APPARATUS CAPABLE OF FOCUSING

US - 26.11.2020

Int.Class **G03B 13/34** Appl.No 16992996 Applicant LUXVISIONS INNOVATION LIMITED Inventor Cheng-Te Tseng

An optical imaging apparatus capable of focusing is provided. The apparatus includes a lens assembly and an imaging sensing component. The lens group includes a stabilization component and a focusing component. The stabilization component has an optical axis and includes a first optical lens group and a driving element. The driving element is configured to drive the first optical lens group to move on a plane perpendicular to the optical axis or to rotate around the optical axis. The focusing component is fixed to the stabilization component and includes a second optical lens group. The second optical lens group is aligned with the optical axis. The image sensing component is fixed to one end of the lens group and is aligned with the optical axis.

10. **20220086319** IMAGE CAPTURING MODULE

US - 17.03.2022

Int.Class **H04N 5/225** Appl.No 17536368 Applicant GUANGZHOU LUXVISIONS INNOVATION TECHNOLOGY LIMITED Inventor Shih-Chieh Yen

An image capturing module includes a light filter, a meta-lens layer, and a photosensitive element. The light filter includes a light receiving surface and a light emitting surface opposite to each other. The meta-lens layer and the light filter are disposed side by side with each other. The meta-lens layer includes a light transmitting film and a plurality of microstructures. Each microstructure is arranged on the light transmitting film. The photosensitive element includes a photosensitive surface. The photosensitive surface faces to the meta-lens layer and the light emitting surface of the light filter, wherein the photosensitive surface has a plurality of pixels, and each pixel corresponds to each microstructure.

