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360 CAMERA MODULE

產品規格承認書

PRODUCTION SPECIFICATION FOR APPROVAL

Model No. : GR360 V1.0



Fangtec Corporation



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Revision History

Date	Rev.	Contents
2025/12/26	V1.0	First release
2026/01/07	V1.1	Include page 6 spec.



Table of Contents

1. General Description	3
2. Features	3
3. Key Specification	4
4. 8 ROI Window	5
5. Live-Streaming / Teaching	6
6. Digital Microphone Specification.....	6
7. Outline Specification	7

1. General Description

The GR360 is a USB Video Class (UVC) and USB Audio Class (UAC) compliant camera module designed specifically for conference call applications. It features 360-degree video capture and omnidirectional sound reception, significantly enhancing your video conferencing experience. Additionally, the GR360 includes LED indicators, HDR functionality, and digital microphone features for improved usability.

2. Features

- Compliant to USB2.0 and USB Video Class & USB Audio Class
- Support still image capture and video streaming
- Provide Multi-Display Modes
 - ◆ 360° Panorama View
 - ◆ 360° Meeting View
 - ◆ 360° Panorama + Single View
 - ◆ 360° Panorama + Dual View
 - ◆ 360° Conner View
 - ◆ 130° Panorama View
- Quickly switch the display mode via the button
- Use the button to switch to mute mode
- Support up to 6M @ 30fps
- Support HDR
- Automatic image control
 - ◆ Automatic Exposure Control (AEC)
 - ◆ Automatic White Balance (AWB)
- LED indicated
 - ◆ Camera active – Blue
 - ◆ Mute - Red
- 2x digital Microphone functions
- Input Voltage: 5V

3. Key Specification

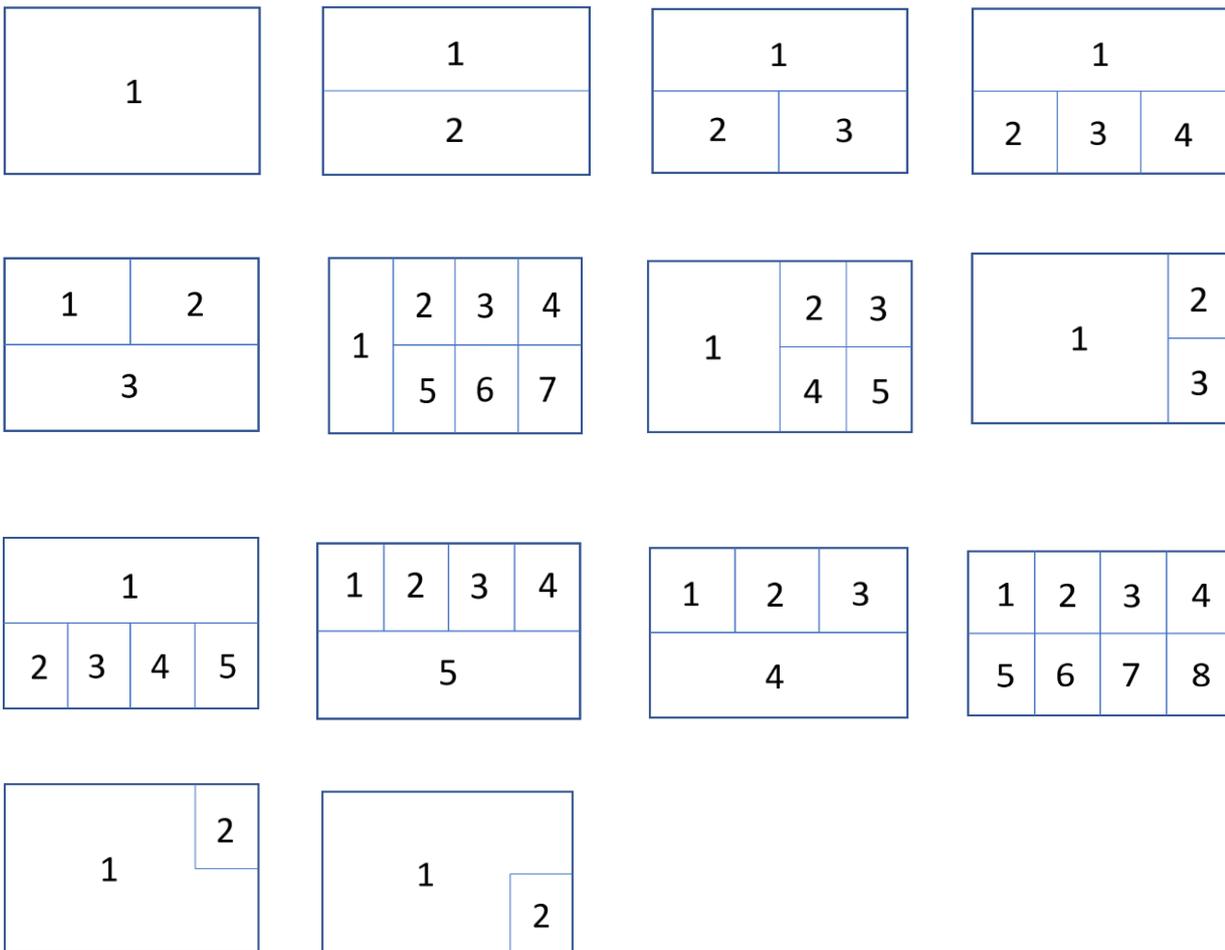
Module Specification			
Dimension (mm)	50.0mm x50.0mm x 32.5mm		
Power Supply	+4.75V ~ +5.25V		
Image/Video Format	YUY2, MJPG		
Output Interface	USB2.0 (480Mbit/sec)		
Operating Temperature	0°C to +60°C		
Compatibility	USB Video Class		
LED Indicate	Camera active -Blue / Mic mute -Red		
Power Consumption			
	Min	Type	Max
Input Supply Voltage	4.75	5.0V DC	5.25
Un-configured Current	-	30 mA	-
Operating Current	-	-	300 mA
Suspend Current	-	220 mA	-
Display mode	360° Panorama View		
	360° Meeting View		
	360° Panorama + Single View		
	360° Panorama + Dual View		
	360° Conner View		
	130° Panorama View		

Backend IC Specification	
Type	Backend IC with USB2.0 interface
Compatibility	USB Video class & USB Audio class Compliant
Support Sensor Size	Support to 9M , Output 4K@30fps
Multiple DeWarp	Fisheye, Panorama, Single,Bird, Multi-Views, 360°, ePTZ, PiP, 8 ROI Windows in a frame
OS Supported	Win11, Linux, Android

Sensor Specification	
Optical format	1/2.5-inch 6MP CMOS Sensor
Active resolution	2564H×2564V
Unit pixel size	2.0μm x 2.0μm

Lens Specification	
Element	6 Glass+ IR
F Number	2.5±5%
Image Format	1/2.5"
Field of view(Diagonal)	210°
Field of view(Horizontal)	210°
Field of view(Vertical)	210°

4. 8 ROI Windows



5. Live-Streaming /Teaching

Only need one Sensor and LENS, utilizing ePTZ to adjust viewing angle, such as live-streaming and remote-teaching mode.



6. Digital Microphone Specification

Item	Test Conditions	Min	Standard	Max	Unit
Sensitivity	f=1kHz, Pin=1Pa	-29	-26	-23	dBFS
Current Consumption	Output open circuit			600	μA
S/N Ratio	f=1kHz, Pin=1Pa	55			dB
Digital noise floor	Bandwidth 20KHz		-81		dBFS
Power Supply Rejection	Test signal on VDD=217Hz, 100mVPP		-70		dB
Max. Input Signal	THD<10%			120	dB SPL
THD+Noise	@115dB SPL, fin=1KHz			5	%

※Test Condition: VDD =3.3V, Tj=25 °C, Vin=18mVpp, fCLK=2.4MHz, Duty Cycle=50%

7. Outline Specification

