

RALCAM[®]

EXPAND YOUR VISION



SHENZHEN RALCAM CO., LTD

CONTENTS

—
01 About Ralcam
—

—
02 Development
—

—
03 Products Introduction
—



COMPANY PROFILE >>

The brand Ralcam belongs to Shenzhen Ralcam Co, Ltd. We were established in 2010 and based in Shenzhen. Ralcam is a professional high-tech manufacturer and exporter that Specialize in the design, R&D and production of high resolution and small diameter industrial endoscope. More than 30 of our models are FCC CE ROHS certified that compliant with GS regulations. We have a 26-person R&D team, with well-equipped testing facilities, strong technical force and excellent quality control. ralcam borescope is committed to providing the best inspection tool for our customer to make our customer no worry about the problem of blind angle anymore. At present our research and development directions are small diameter industrial endoscope, HD endoscope, wireless endoscope, semi-rigid endoscope and wide-angle HD endoscope.

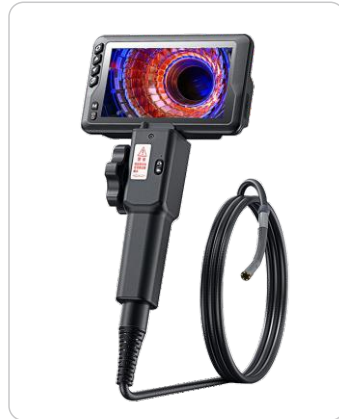
Our mission: Let visual products enter thousands of households and enhance family happiness and security.



DEVELOPMENT >>

M6 series HD endoscope leads the new trend of Auto Aftermarket

IN 2022



Finder Endoscope F408D won the Auto and Insurance Chamber of Excellence Product Award.

IN 2020



IN 2017

Q1 Series Evaporator Cleaning Borescope



IN 2021

Finder Endoscope F4-B successfully launched to the market.

M6 SERIES

Four-way 360° Steering Endoscope

- ▶ 360° Degree Rotation Lens
- ▶ 5" HD Display
- ▶ Wear-resistant High Density Tungsten Tube



3.9mm



6mm



Specification Parameters

	Model	M604	M606
System	LCD Display	5.0" IPS (1280*720)	
	Menu Language	Chinese Simplified, Chinese Traditional, Japanese, English, Korean, French, Russian, Spanish, German	
	Snap Resolution	JPG: 640*480/1280*720/1920*1080	
	Video Recording Resolution	MOV: 640*480/1280*720/1920*1080	
	Basic Function	Taking Photos, Videos Recording, Playback, WiFi, Image Rotation, High Temperature Early Warning Protection, etc	
Probe	Steering Radius	36mm	
	Steering	Steering Angle: Up/ Down/ Left/ Right $\approx 180^\circ$; Steering Life ≥ 20000 Time	
	Snake Tube Material	Tungsten Woven Mesh Pipe	
	Snake Tube Length	1M / 2M / 3M / Customizable	
Camera	Camera Lens Diameter	$\Phi 3.9 \times 15\text{mm}$	$\Phi 6.0 \times 12\text{mm}$
	Sensor	1/9 CMOS, 1280x720; 20FPS	
	FOV	120°	120°
	DOF	8 ~ 80mm	20mm - Infinity
	Lens Struc.	F/No. : 2.8±5 ; 4P+1IR	
	Adjuster LED Light	4 Level, 5PCS LED	4 Level, 6PCS LED
	AWB/ AGC	AWB: ON ; AGC: ON	
	Camera Head IP Grade	IP67	
Power	Battery Life	Charging : DC5V*2A; 3.7V/5200mAh; About 6 Hours	
Operating Environment	Temperature & Relative Humidity	-10°C— 50°C; Less Than 90%	
Package	Box Size	43.5*3*9CM , 2.1 KG	
	Carton Size	10PCS/Carton , 47.5*46*44.5CM , 22KG	
Qualification	Certification	CE / FCC	

F408D

Two-way 360° Steering Endoscope (Android)

- ▶ The lens is waterproof and oil-proof.
- ▶ Over-Temperature Protection
- ▶ Support Android/PC/ Diagnostics



360° Degree Rotation Lens



HD 1080P



IP67 Waterproof



Over-Temperature Protection



Multi-purpose of One Machine



Adjustable LED



Specification Parameters

	Model	F408D
System	Support Phone System	Support Android, Harmony OS, IOS
	Menu Language	Chinese Simplified, English
	Snap Resolution	JPG: 640*480/1280*720/1920*1080
	Video Recording Resolution	MOV: 640*480/1280*720/1920*1080
	Basic Function	Taking Photos,High Temperature Early Warning Protection
Probe	Steering Radius	≈ 40mm
	Steering	Steering Angle: Two-way 180° ; Steering Life ≥20000 Time
	Snake Tube Material	Flexible Metal Tube
	Snake Tube Length	1M / 2M / 3M / Customizable
Camera	Camera Lens Diameter	8.5mm
	Sensor	1/5 CMOS;1920×1080; 20Fps
	FOV	70°
	DOF	40mm-70mm
	Lens Struc	F/No.: 2.8; 3P+1IR
	Adjuster LED light	8PCS LED
	AWB/ AGC	AWB: ON ; AGC:ON
	Camera Head IP Grade	IP67
Operating Environment	Temperature & Relative Humidity	-10℃— 50℃; Less Than90%
Package	Box Size	41*21.5*8.5CM
	Carton Size	10PCS/Carton, 67*47*30.5CM, 12.5KG
Qualification	Certificates	CE / FCC

F4-A

Two-way 360° Steering Endoscope (Android & IOS)

- ▶ Generate Detection Report
- ▶ Metal Cell Phone Holder
- ▶ Support for Android/Apple Devices



360° Degree Rotation Lens



HD 1080P



IP67 Waterproof



One Click for Recording



2600mAh Battery



Adjustable LED



Over-Temperature Protection



Multi-purpose of One Machine



Generate Inspection Report



Specification Parameters

	Model	F408A	F406A	F405A
System	Support Phone System	Support Android and IOS,Harmony OS		
	Menu Language	Chinese Simplified, English,Chinese Traditional, Japanese, German ,Spanish, French, Italian, Korean,		
	Snap Resolution	JPG: 640*480/1280*720/1920*1080		
	Video Recording Resolution	MOV: 640*480/1280*720/1920*1080		
	Basic Function	Taking Photos,Videos Recording, Playback, High Temperature Early Warning Protection,etc		
Probe	Steering Radius	≈ 40mm	≈ 35mm	≈ 35mm
	Steering	Steering Angle: Two-way 180° ; Steering Life ≥20000 Time		
	Snake Tube Material	Flexible Metal Tube		
	Snake Tube Length	1M / 2M / 3M / Customizable		1M / 2M / 3M
Camera	Camera Lens Diameter	8.5mm	6.2mm	5.5mm
	Sensor	1/5 CMOS;1920×1080; 20Fps	1/9 CMOS, 1280×720; 20FPS	
	FOV	70°	100°	120°
	DOF	40mm-70mm	20mm~100mm	20mm~100mm
	Lens Struc	F/No.: 2.8; 3P+1IR	F/No.:4.5; 4P+1IR	F/No.:4.5; 4P+1IR
	Adjuster LED Light	8PCS LED	8PCS LED	6PCS LED
	AWB/ AGC	AWB: ON ; AGC:ON		
	Camera Head IP Grade	IP67	IP67	Not Waterproof
Power	Battery Life	Charging : DC5V*2A; 3.7V/2600mAh; About 3 Hours		
Operating Environment	Temperature & Relative Humidity	-10°C — 50°C ;Less Than 90%		
Package	Box Size	41*21.5*8.5CM		
	Carton Size	10PCS/Carton, 67*47*30.5CM , 12.5KG		
Qualification	Certification	CE / FCC		

F4-B

Two-way 360° Steering Endoscope (Screen Model)

- ▶ 4.5-inch IPS HD Display
- ▶ Over-Temperature Protection
- ▶ Support WIFI Multi-screen Interconnection



360° Degree Rotation Lens



HD 1080P



4.5-inch IPS HD Display



One Click for Recording



2600mAh Battery



Adjustable LED



TF Card



Over-Temperature Protection



IP67 Waterproof



Specification Parameters

	Model	F408B	F406B	F405B
System	LCD Display	4.5-inch IPS LCD/ 480x854		
	Menu Language	Chinese Simplified, Chinese Traditional, Japanese, English, Korean, French, Russian, Spanish, German		
	Snap Resolution	JPEG: 640x480、1280x720、192*1080		
	Video Recording Resolution	MP4: VGA (640*480) 、720P (1280*720) 、1080P (1920*1080)		
	Basic Function	Taking Photos, Videos Recording、 Playback, WiFi, Image Rotation, High Temperature Early Warning Protection, etc, etc		
	Memory	TF Card, Max Support 32G		
Probe	Steering Radius	≈ 40mm	≈ 35mm	≈ 35mm
	Steering	Steering Angle: Two-way 180° ; Steering Life ≥20000 Time		
	Snake Tube Material	Flexible Metal Tube		
	Snake Tube Length	1M / 2M / 3M / Customizable		1M / 2M / 3M
Camera	Camera Lens Diameter	8.5mm	6.2mm	5.5mm
	Sensor	1/5 CMOS;1920x1080; 20Fps	1/9 CMOS, 1280x720; 20FPS	
	FOV	70°	100°	120°
	DOF	40mm-70mm	20mm~100mm	20mm~100mm
	Lens Struc.	F/No.: 2.8; 3P+1IR	F/No.:4.5; 4P+1IR	F/No.:4.5; 4P+1IR
	Adjuster LED Light	8PCS LED	8PCS LED	6PCS LED
	AWB/ AGC	AWB: ON ; AGC:ON		
	Camera Head IP Grade	IP67	IP67	Not Waterproof
Power	Battery Life	Charging :DC5V*2A; 3.7V 5000mAh,About 5 Hours		
Operating Environment	Temperature & Relative Humidity	-10°C — 50°C ;Less Than 90%		
Package	Box Size	41*21.5*8.5CM		
	Carton Size	10PCS/Carton, 67*47*30.5CM , 12.5KG		
Qualification	Certification	CE / FCC		

H4-A

Two-way 360° Steering Endoscope (Android &IOS)

- ▶ 6mm Sapphire Glass Lens
- ▶ Metal Cell Phone Holder
- ▶ Support for Android/ Apple Devices



360° Degree Rotation Lens



HD 1080P



One Click for Recording



2600mAh Battery



Generate Inspection Report



Over-Temperature Protection



Specification Parameters

	Model	H408A	H406A
System	Support Phone System	Support Android and IOS,Harmony OS	
	Menu Language	Chinese Simplified, English,Chinese Traditional, Japanese, German ,Spanish, French, Italian, Korean,	
	Snap Resolution	JPG: 640*480/1280*720/1920*1080	
	Video Recording Resolution	MOV: 640*480/1280*720/1920*1080	
	Basic Function	Taking Photos,Videos Recording, Playback, Image Rotation, High Temperature Early Warning Protection,etc	
Probe	Steering Radius	≈ 32mm	≈ 32mm
	Steering	Steering Angle: Two-way 180° ; Steering Life ≥20000 Time	
	Snake Tube Material	Flexible Metal Tube	
	Snake Tube Length	1M / 2M / 3M / Customizable	
Camera	Camera Lens Diameter	Φ8.5 × 11.5mm	Φ6.2 × 16mm
	Sensor	1/6"COMS , 1920×1080 ;20FPS	1/9 CMOS, 1280×720; 20FPS
	FOV	80°	90°
	DOF	20 ~ 100mm	20mm~100mm
	Lens Struc	F/No.: 3.8; 3P+1IR	F/No.: 4.7 ; 3P+1IR
	Adjuster LED Light	4 Level ,10 PCS LED	4 Level , 6 PCS LED
	AWB/ AGC	AWB: ON ; AGC:ON	
	Camera Head IP Grade	IP67	
Power	Battery Life	Charging : DC5V*1A; 3.7V/2600mAh; About 4 Hours	
Operating Environment	Temperature & Relative Humidity	-10℃— 50℃; Less Than 90%	
Package	Box Size	42.5*28*8CM 1.60KG	
	Carton Size	10PCS/Carton 58*47*36CM, 16KG	
Qualification	Certification	CE / FCC	

H4-B

Two-way 360° Steering Endoscope (Screen Model)



- ▶ 1080P HD Camera
- ▶ Replaceable Screen/ Battery
- ▶ Support Android/PC/ Diagnostics



360° Degree Rotation Lens



HD 1080P



One Click for Recording



2600mAh Battery



Over-Temperature Protection



Multi-purpose of One Machine



Specification Parameters

	Model	H408B	H406B
System	LCD Display	4.3" IPS (480x272)	
	Menu Language	Chinese Simplified, Chinese Traditional, Japanese, English, Korean, French, Russian, Spanish, German	
	Snap Resolution	JPG: 640*480/1280*720/1920*1080	
	Video Recording Resolution	MOV: 640*480/1280*720/1920*1080	
	Basic Function	Taking Photos, Videos Recording, Playback, WiFi, Image Rotation, High Temperature Early Warning Protection, TV out, etc	
	Memory	TF Card, Max Support 32G	
Probe	Steering Radius	≈ 32mm	≈ 32mm
	Steering	Steering Angle: Two-way 180° ; Steering Life ≥20000 Time	
	Snake Tube Material	Flexible Metal Tube	
	Snake Tube Length	1M / 2M / 3M / Customizable	
Camera	Camera Lens Diameter	Φ8.5 × 11.5mm	Φ6.2 × 16mm
	Sensor	1/6" COMS, 1920×1080 ;20FPS	1/9 CMOS, 1280×720; 20FPS
	FOV	80°	90°
	DOF	20 ~ 100mm	20mm~100mm
	Lens Struc.	F/No.: 3.8; 3P+1IR	F/No.: 4.7 ; 3P+1IR
	Adjuster LED Light	4 Level ,10 PCS LED	4 Level , 6 PCS LED
	AWB/ AGC	AWB: ON ; AGC:ON	
	Camera Head IP Grade	IP67	
Power	Battery Life	Charging: DC5V*1A; 3.7V/2600mAh; About 4 Hours	
Operating Environment	Temperature & Relative Humidity	-10°C — 50°C ; Less Than 90%	
Package	Box Size	42.5*28*8CM 1.60KG	
	Carton Size	10PCS/Carton, 58*47*36CM, 16KG	
Qualification	Certification	CE / FCC	

F6-A

Four-way 360° Steering Endoscope (Cell-Phone Model)

- ▶ Four-way 360° Steering Lens
- ▶ Replaceable Screen/Battery
- ▶ Support for IOS/Android Devices



360° Degree
Rotation Lens



HD 1080P



One Click for
Recording



2600mAh
Battery



Over-Temperature
Protection



Generate
Inspection Report



Specification Parameters

	Model	F608A	F606A
System	Support Phone System	Support Android and IOS,Harmony OS	
	Menu Language	Chinese Simplified, English,Chinese Traditional, Japanese, German ,Spanish, French, Italian, Korean,	
	Snap Resolution	JPG: 640*480/1280*720/1920*1080	
	Video Recording Resolution	MOV: 640*480/1280*720/1920*1080	
	Basic Function	Taking Photos,Videos Recording, Playback, Image Rotation, High Temperature Early Warning Protection,etc	
Probe	Steering Radius	≈ 40mm	≈ 32mm
	Steering	Steering Angle: Two-way 180° ; Steering Life ≥20000 Time	
	Snake Tube Material	Flexible Metal Tube	
	Snake Tube Length	1M / 2M / 3M / Customizable	
Camera	Camera Lens Diameter	Φ8.5 × 11.5mm	Φ6.2 × 16mm
	Sensor	1/6"COMS , 1920×1080 ;20FPS	1/9 CMOS, 1280×720; 20FPS
	FOV	80°	90°
	DOF	20 ~ 100mm	20mm~100mm
	Lens Struc	F/No.: 3.8; 3P+1IR	F/No.: 4.7 ; 3P+1IR
	Adjuster LED Light	4 Level ,10 PCS LED	4 Level , 6 PCS LED
	AWB/ AGC	AWB: ON ; AGC:ON	
	Camera Head IP Grade	IP67	
Power	Battery Life	Charging : DC5V*1A; 3.7V/5200mAh; About 6 Hours	
Operating Environment	Temperature & Relative Humidity	-10℃— 50℃; Less Than 90%	
Package	Box Size	42.5*28*8CM 1.60KG	
	Carton Size	10PCS/Carton, 58*47*36CM, 16KG	
Qualification	Certification	CE / FCC	

F6-B

Four-way 360° Steering Endoscope (Screen Model)

- ▶ 1080P HD Camera
- ▶ Replaceable Screen/ Battery
- ▶ Support Android/PC/Diagnostics



360° Degree
Rotation Lens



HD 1080P



One Click for
Recording



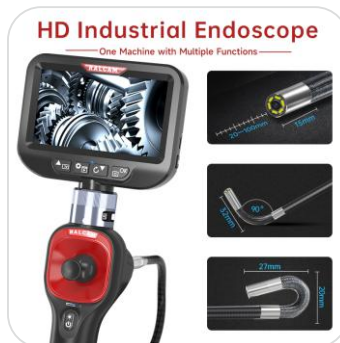
2600mAh
Battery



Over-Temperature
Protection



Multi-purpose
of One Machine



Specification Parameters

	Model	F608B	F606B
System	LCD Display	4.3" IPS (480x272)	
	Menu Language	Chinese Simplified, Chinese Traditional, Japanese, English, Korean, French, Russian, Spanish, German	
	Snap Resolution	JPG: 640*480/1280*720/1920*1080	
	Video Recording Resolution	MOV: 640*480/1280*720/1920*1080	
	Basic Function	Taking Photos, Videos Recording、Playback, WiFi, Image Rotation, High Temperature Early Warning Protection, TV out ,etc	
	Memory	TF Card, Max Support 32G	
Probe	Steering Radius	≈ 40mm	≈ 32mm
	Steering	Steering Angle: Two-way 180° ; Steering Life ≥20000 Time	
	Snake Tube Material	Flexible Metal Tube	
	Snake Tube Length	1M / 2M / 3M / Customizable	
Camera	Camera Lens Diameter	Φ8.5 × 11.5mm	Φ6.2 × 16mm
	Sensor	1/6"COMS , 1920×1080 ;20FPS	1/9 CMOS, 1280×720; 20FPS
	FOV	80°	90°
	DOF	20 ~ 100mm	20mm~100mm
	Lens Struc.	F/No.: 3.8; 3P+1IR	F/No.: 4.7 ; 3P+1IR
	Adjuster LED Light	4 Level ,10 PCS LED	4 Level , 6 PCS LED
	AWB/ AGC	AWB: ON ; AGC:ON	
	Camera Head IP Grade	IP67	
Power	Battery Life	Charging : DC5V*1A; 3.7V/5200mAh; About 6 Hours	
Operating Environment	Temperature & Relative Humidity	-10°C — 50°C ;Less Than 90%	
Package	Box Size	42.5*28*8CM 1.60KG	
	Carton Size	10PCS/Carton, 58*47*36CM, 16KG	
Qualification	Certification	CE / FCC	

Q1 Series Evaporator Cleaning



- ▶ Side-view Design
- ▶ 1080P HD Camera



2600mAh Battery



TF Card



One Click for Recording



HD 1080P



Adjustable LED



IP67 Waterproof



Specification Parameters

	Model	Q1
System	LCD Display	4.3" IPS (480x272)
	Menu Language	Chinese Simplified, Chinese Traditional, Japanese, English, Korean, French, Spanish, German,Italy
	Snap Resolution	JPG: 640*480/1280*720/1920*1080
	Video Recording Resolution	MOV: 640*480/1280*720/1920*1080
	Basic Function	Taking Photos,Videos Recording,Playback, WiFi, Image Rotation,High Temperature Early Warning Protection,TV out ,etc
	Memory	TF Card, Max Support 32G
Camera	Camera Lens Diameter	22mm
	Snake Tube Length	0.8M
	Sensor	1/5 CMOS;1920×1080; 20Fps
	FOV	70°
	DOF	40mm-70mm
	Lens Struc	F/No.: 2.8; 3P+1IR
	Adjuster LED Light	8PCS LED
	AWB//AGC	AWB: ON ; AGC:ON
	Camera Head IP Grade	IP67
Power	Battery Life	Charging : DC5V*2A; 3.7V/2200mAh; About 3 Hours
Operating Environment	Temperature & Relative Humidity	-10°C — 50°C ;Less Than 90%

F2 Series Cell Phone Model HD Endoscope



- ▶ Support for iOS & Android
- ▶ 2 Megapixel Ultra HD Camera
- ▶ Generate Inspection Report



2600mAh
Battery



Generate
Inspection Report



One Click for
Recording



HD 1080P



Adjustable LED



IP67 Waterproof



Specification Parameters

	Model	F208	F205
System	Support Phone System	Support Android ,IOS and Harmony OS	
	Menu Language	Chinese Simplified, Chinese Traditional, Japanese, English, Korean, French, Spanish, German,Italy	
	Snap Resolution	JPG: 640*480/1280*720/1920*1080	
	Video Recording Resolution	MOV: 640*480/1280*720/1920*1080	
	Basic Function	Taking Photos,Videos Recording, Playback, Image Rotation, High Temperature Early Warning Protection,etc	
Probe	Snake Tube Material	Metal-shaped Tube	
	Snake Tube Length	1M / 2M / 3M / Customizable	1M / 2M / 3M
Camera	Camera Lens Diameter	Φ 8.5mm	Φ 5.5mm
	Sensor	1/5 CMOS;1920×1080; 20Fps	1/9 CMOS, 1280×720; 20FPS
	FOV	70°	100°
	DOF	40mm-70mm	20mm~100mm
	Lens Struc	F/No.: 2.8; 3P+1IR	F/No.:4.5; 4P+1IR
	Adjuster LED Light	8PCS LED	8PCS LED
	AWB/ AGC	AWB: ON ; AGC:ON	
	Camera Head IP Grade	IP67	
Operating Environment	Temperature & Relative Humidity	-10°C — 50°C ;Less Than 90%	
Qualification	Certification	CE / FCC	

WIN-WIN COOPERATION

◎ **Look forward to cooperating with you** ◎

