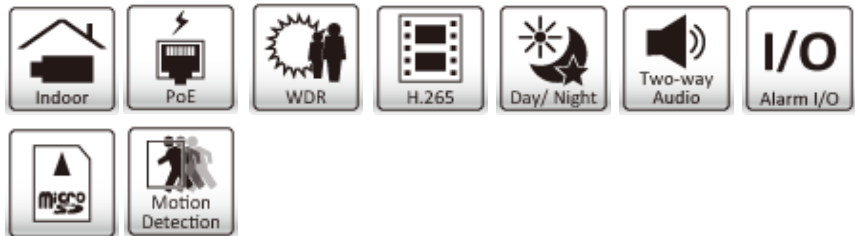# FE5405 5MP
Panoromic Fisheye IP Camera

CHAMP

– 180˚ /360˚ Fisheye Mini Dome

– H.265, 50% lower bitrate

– 1/1.8" 5MP CMOS sensor

– WDR

ONVIF

The FE5405 is a compact, yet powerful fisheye dome camera featuring many cutting-edge technologies. The high resolution fisheye lens provides 360° surround view with image detail even at the normally weak edges; the huge 1/1.8" 5-Megapixel image sensor ensures superior low light sensitivity; our advanced fisheye dewarping algorithms keep distortion lower than others while putting less computing loading on the server; and last but not least, video can be streamed in the ultra-efficient H.265 format, which has up to 50% lower bitrates and cuts your bandwidth and storage requirements in half. It also features a removable IR-cut filter, MicroSD/SDHC/SDXC edge storage, PoE, two-way audio and alarm input/output, making it a extremely versatile camera with maximum coverage.

Features

- 1/1.8" CMOS sensor
- H.265, H.264, and Motion JPEG compression
- 30fps @ 2560 x 1920
- 1.49mm, F2.0 fisheye lens
- WDR
- True day & night with automatic removable IR-cut filter
- Two-way audio and built-in microphone
- 1 x alarm input, 1 x alarm output
- High quality dewarp

- Edge storage
- RTC with built-in battery
- SSL v3 advanced HTTPS encryption
- Supports Samba network storage
- Multi-lingual user interface
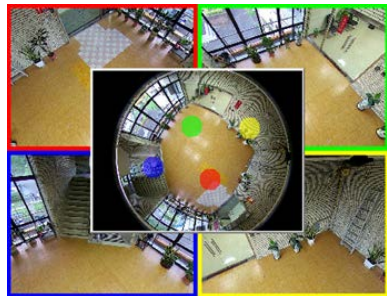- ONVIF 2.4 and Profile S compliant
- Free 32-channel NVR software

WDR

Origin

Single Regional

Dual Panoramic View

One Original & Four Regional

Applications

1. Office
2. Public Area

IP Surveillance Solutions

- **Free 32ch NVR Software**

The most professional NVR software you can get for free!
- Support up to 32 channels
- Up to 32 channels remote live view
- Remote playback 4 channels
- Multi-site / multi-server
- Transcoding (record high quality, transcode to different resolution/ frame rate for remote client to save bandwidth)
- iOS/ Android mobile client (multi-channel live view | playback | PTZ & I/O control)
- E-maps (up to 4 layers | unlimited number of maps | video preview)
- Dual monitor
- ePTZ
- Multi-lingual user interface
*32ch free license for CHAMP cameras, but need to activate license for other brand

- **ONVIF**

All IP cameras are ONVIF 2.x & Profile S compliant, and continuously upgraded to comply with the latest versions

Technical Specifications

Camera

Model	FE5405 5MP Panoromic Fisheye IP Camera
Image sensor	1/1.8" megapixel CMOS sensor
Lens	F2.0, 1.49mm
Angle of view	180° horizontal
	160° vertical
Min illumination	0.08 lux @ F2.0 (color)
	0.008 lux @ F2.0 (B/W)
Day/Night function	Mechanical IR cut filter

Video

Video compression	H.264 baseline/ main profile/ high profile
	H.265
Resolutions	5MP Mode
	2 profiles from 2560 x 1920 to 640 x 360
	2 profiles from 640 x 480 to 640 x 360
	2MP Mode
	2 profiles from 1080 x 720 to 640 x 360
	2 profiles from 640 x 480 to 640 x 360
Frame rate	H.264/ H.265: up to 60 fps at 2MP Mode
	up to 30 fps at 5MP Mode
Video streaming	Simultaneous H.264, H.265
	Controllable frame rate and bandwidth
	Support unicast
	(Real Time Streaming Protocol)
Image settings	Rotation: mirror, flip, mirror flip
	WDR
	Brightness, contrast, saturation, sharpness
	Overlay capabilities: time, date, text and privacy Image
	ROI
	Defog

Audio

Audio streaming	Two‑way (full duplex)
Audio compression	G.711 µ law, a law, AMR
	Line input and line output

Network

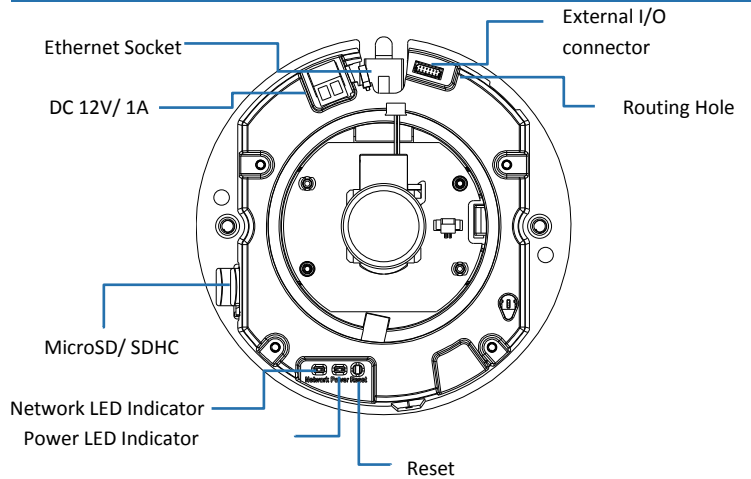|	
Security	Multiple user access levels with password protection, HTTPS encryption
	Bonjour, TCP/ IP, DHCP, DNS, DynDNS, PPPoE, ARP, ICMP, FTP, SMTP, NTP, UPnP, RTSP, RTP, RTCP, HTTP, HTTPS, SSL, TCP, UDP
Users	users

Alarm and Event Support

Alarm and event management	Input: alarm buffer, alarm input, motion detection
	Output: network storage, FTP, SMTP, HTTP event, alarm out
	Pre‑and post alarm buffer

System

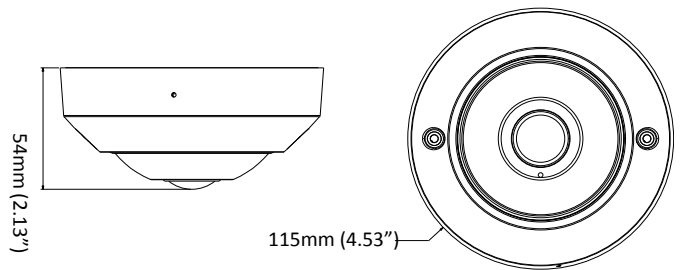|	
	RJ-45 Ethernet 10/ 100/ 1000 Base-T (PoE),
	Reset button
	2pin terminal block for DC power
	6pin cable for 1 alarm input, 1 output,
	1 audio line in 1 audio line out
Local storage	MicroSD Card slot
	Power status indicator
	Network link indicator
Software integration	ONVIF 2 4 & Profile S
Video management software	Camera Installation Tool & Video Management Software for viewing recording and archiving up to 32 cameras

General

Casing	Aluminum casing
Power	DC 12V or PoE IEEE 802.3af class 1
	Power consumption: Max 4.65W
Operating conditions	-10 ~ 50 ℃ (14 ~ 122 ℉)
Installation, management, and maintenance	CHAMP camera management tool on web Configuration of backup and restore firmware upgrades over HTTP, firmware available at www.champsolution.com
Minimum web browsing requirement	Pentium 4 2.8GHz (or equivalent AMD) 256MB RAM graphic cards (or equivalent on-board graphic cards) 1G RAM Window XP, Vista, or Windows 7 Mac OS Leopard 10.5 or later
Dimensions	φ115 x 54mm (φ4.53" x 2.13")
Weight	240g (0.53lb)
Included accessories	Quick installation guide, mounting and connector kits Dowload on website (Camera Installation Tool, Video Management Tool, User Manuals, Camera LanguagePacks)
Certification	CE, FCC

Integration

software	For viewing, recording and archiving up to 32 ch cameras

Part Names and Functions

Ethernet Socket
External I/O connector
DC 12V/ 1A
Routing Hole
MicroSD/ SDHC
Network LED Indicator
Power LED Indicator
Reset

Dimensions

54mm (2.13")

115mm (4.53")