

FISCHER RAPID DEPLOY CAMERA POLE (RDCP) SYSTEM

DATASHEET



HIGH-RESOLUTION IMAGING

THERMAL & LOW-LIGHT CAMERA OPTIONS

RUGGED, EXTENDABLE CARBON FIBRE POLE

COMPACT & LIGHTWEIGHT SYSTEM

FIELD DEPLOYABLE CARRY CASE

The Fischer Rapid Deploy Camera Pole (RDCP) System has been designed and developed in collaboration with industry experts and feedback from security professionals and the Emergency Services. The System features a lightweight, extendable carbon fibre pole, rugged viewing device and has the option of either a high-resolution, Thermal Imaging or Visible Low-Light Camera for visual inspection and assessment of inaccessible and hard to reach areas.

Utilising innovative Fischer Freedom™ technology, the camera connects to the adjustable camera mount at the end of the pole by way of award-winning Fischer LP360™ connectors. A further LP360 connector is integrated in the base of the pole for direct connection to a rugged Android mobile device that is supplied as part of the system. Images are relayed directly to the device, enabling the operator to evaluate the situation in real-time; inspecting specific regions of interest and deciding on the next appropriate action to take.

The supplied mobile device not only allows real-time viewing of images, but also supplies power to the attached camera. This reduces the operational weight of the pole and the burden on the operator. The device's extended battery life eliminates the need to carry and accommodate additional battery packs or charger units on deployments.

The RDCP System comes with the option of a 2M or 3M carbon fibre pole that is exceptionally lightweight yet extremely strong, even when fully extended. The pole is easily extended, enabling inspection of hard to reach or dangerous areas from a position of relative safety without overreaching.

Cabling is kept within the pole to eliminate any trailing cables that may cause snagging or hinder use in confined or hot areas. The cabled connection between the camera and Android mobile device also serves to eliminate risk of interference, detection and interception of wireless signals during transmission of any images from the camera to the mobile device.

The complete system is supplied in a dedicated carry case for secure storage and transportation when not in use.

APPLICATIONS

The RDCP System offers a man-portable inspection capability with minimal configuration and extended run time. No additional batteries are required, and all data is stored locally on the mobile device supplied making it a truly self-contained system. Quick to deploy and easy to operate and maintain it is ideal for a wide range of applications, including, but not limited to:

- SEARCH & RESCUE
- SECURITY & SURVEILLANCE
- TACTICAL OPS
- COVERT INSPECTIONS
- CONDITION MONITORING
- PIPELINE INSPECTION
- PREVENTATIVE MAINTENANCE
- LEAK DETECTION
- EVALUATION OF HARD TO REACH AND INACCESSIBLE AREAS

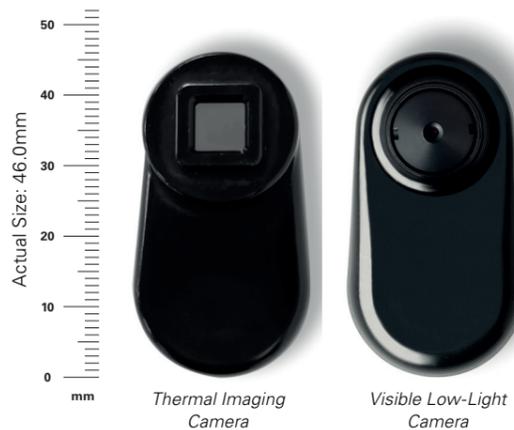
CAMERAS (options)

Two cameras are available as options for the RDCP System:

- Thermal Imaging Camera
- Visible Low-Light Camera (VLC)

The cameras are hot-swappable, allowing further ease of use and saving additional time in the field. The accompanying software application, pre-installed on the supplied mobile device, automatically detects which camera is been connected and displays the image formats and information for the relevant module.

An award-winning Fischer LP360™ connector is integrated into the body of the camera housing, allowing it to be quickly and easily connected to the LP360 connector on the camera mount at the head of the pole. The design of the LP360 allows it to remain securely connected until it is manually removed. The design also means that should the camera be knocked during use, it can rotate around the connector on the camera mount without breaking the connection or twisting or tangling the cables that run inside the length of the pole.



The cameras' integrated Fischer LP360™ connector enables quick, easy and secure connection of the camera to the pole's camera mount head



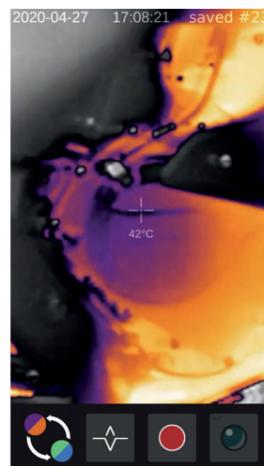
The Fischer LP360™ connector also allows for the cameras to be used off-pole for additional imaging options for body-worn, vehicle mounted or hand-held applications.

THERMAL IMAGING CAMERA

Utilising innovative Fischer Freedom™ technology, video processing software and comprehensive expertise of LWIR sensors, the rugged, compact, plug and play Thermal Imaging Camera provides enhanced detection, visualisation and identification capabilities, including detecting the whereabouts/presence of a live subject who may be hidden or partially obscured from sight. Suitable for use both day and night, the camera not only measures temperature of live subjects but can also be used to detect humidity, liquid leakage and latent heat along with hot/cold spots and maintenance and inspection tasks.

The accompanying software enables the camera to detect and display images and heat readings with outstanding accuracy and sensitivity in a variety of different output modes, including NVG green, Mil-SPEC black/white and thermal red/orange.

- 640 x 480px resolution (Augmented)
- 57° Field Of View (FOV)
- -40°C to 580°C temperature measurement (Temperature measurement accurate +/- 2°)
- Focal range: 0.15m to >20m
- 2.4cm x 2.7cm form factor
- Functions day & night
- Robust IP65 sealed aluminium housing
- 7 Imaging Modes, incl. NVG green, Mil-SPEC black/white and Thermal red/orange
- Software features: Mode Selector, On-screen Horizon Indicator, Record and Snapshot functions
- Size: 46 x 26 x 20mm (L x W x D)
- Weight: 35g
- Designed to meet EN55032



The simple user interface includes Mode Selector, On-screen Horizon and Temperature Indicators, Record and Snapshot functions



Example of Mil-SPEC black/white mode



Example of Thermal red/orange mode

VISIBLE LOW-LIGHT CAMERA (VLC)

The ability to display images in colour is a distinct advantage during remote visual inspections. It allows the operator to identify and qualify targets and regions of interest more easily and distinguish between various objects in confined or inaccessible areas.

The VLC has been designed to offer a versatile, compact and rugged colour imaging solution with outstanding clarity, day or night. Utilising the latest Sony micro-sensor module with back-illuminated pixel technology, the camera delivers superb colour images even in low-light level and night-time conditions.

- 1920 x 1080 pixels
- Video output: MJPEG or H.264 at 1080p, 720p, 640 x 480, 640 x 360
- Resolutions up to full HD (1080p) at frame rates from 10 to 30 fps
- 0.01 Lux, 4.3mm pinhole lens
- 72° Field Of View (FOV) (up to 110° FOV available)
- MJPEG and H.264 compression and streaming
- USB 2.0 UVC V1.1 compliant interface
- Robust IP65 sealed aluminium housing
- Operating Temperature: -20°C to +60°C
- Low power consumption: 800mW @ 1080p, 30fps; 300mW @ 640x480, 10fps
- Size: 46 x 26 x 23mm (L x W x D)
- Weight: 29.0g
- Designed to meet EN55032



Thermal Imaging Camera Side Profile

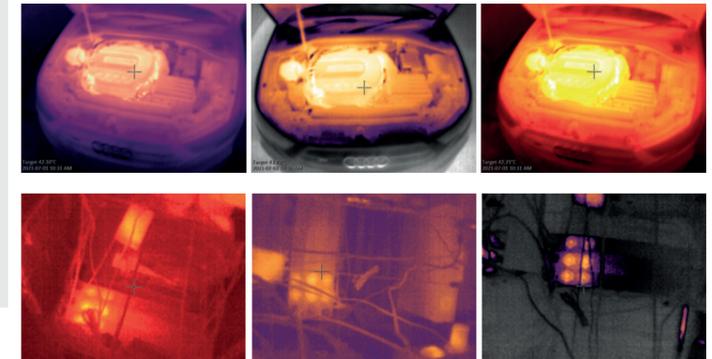


Visible Low-Light Camera Side Profile



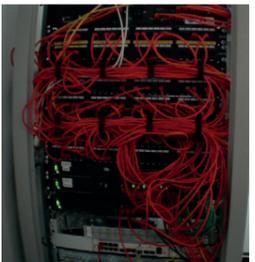
The lightweight, durable pole allows you to easily carry out visual inspection of hard to reach and otherwise inaccessible areas with no undue strain or stress on the operator.

The Thermal Camera gives you a quick, real-time, visual confirmation for a wide range of applications where the temperature changes may warrant further investigation, ie live subject location, condition monitoring, preventative maintenance, leak detection, load current inspection.



The VLC delivers clear colour images even in extremely low light or no light conditions, allowing for visual inspections at any time of the day without the need for additional illumination of the area.

The adjacent image is taken with VLC in low light conditions with no additional lighting



The compact size of both cameras allow for discreet visual inspection of any areas into which the head of the pole can fit, eliminating the need for excavation/structural changes during preliminary investigations.

FISCHER RAPID DEPLOY CAMERA POLE (RDCP) SYSTEM

The RDCP System comprises:

- Extendable Carbon Fibre Pole with compatible LP360™ connectors and adjustable camera mount head
- LP360™ to USB-C adaptor cable
- Rugged Android mobile device*
- Ram® Mounts Quick Grip mobile device holder

*SIM Card and phone data plan is not included or needed for operation



The RDCP System comes supplied in either a Pel™ 1605 Air, a 5.11® LV M4 Shorty or a 5.11® Shock Rifle Case depending on selected pole length and requirement. See table below for further details.

| Item | Item Part No. | | |
|---|--------------------|------------------|-------------------|
| FISCHER RAPID DEPLOY CAMERA POLE (RDCP) SYSTEM | 137996 | 137997 | 137998 |
| POLE LENGTH (Retracted Length) | 2 metres (630mm) | 2 metres (630mm) | 3 metres (860mm) |
| SYSTEM CASETYPE | 5.11® LV M4 SHORTY | PELI™ 1605 AIR | 5.11® SHOCK RIFLE |
| TOTAL SYSTEM WEIGHT WITH CASE | ~3.5KG | ~7.4KG | ~4KG |
| WEIGHT OF POLE, CAMERA & BV9500 | ~1.5KG | ~1.5KG | ~1.9KG |

CAMERAS

| Item and Designation | Item Part No. | Additional devices utilising the Fischer LP360™ 7-pin connector, such as lights, etc are also available and can be mounted on the pole if required. Contact us for more details. |
|---|---------------|--|
| Thermal Imaging Camera (with Fischer Freedom™ Connectivity) FADQM14 P007 BK360 CAM THERMAL Rev 00 | 136784 | |
| Visible Low-Light Camera (VLC) (with Fischer Freedom™ Connectivity) FADQM14 P007 BK360 CAM VISIBLE Rev 00 | 136788 | |



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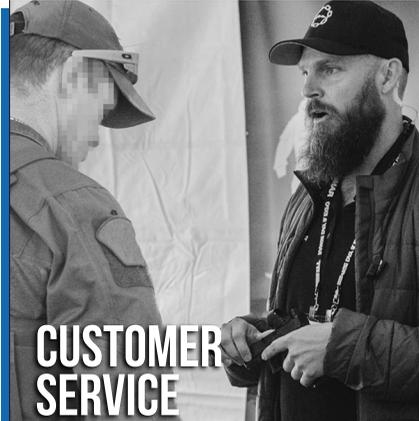
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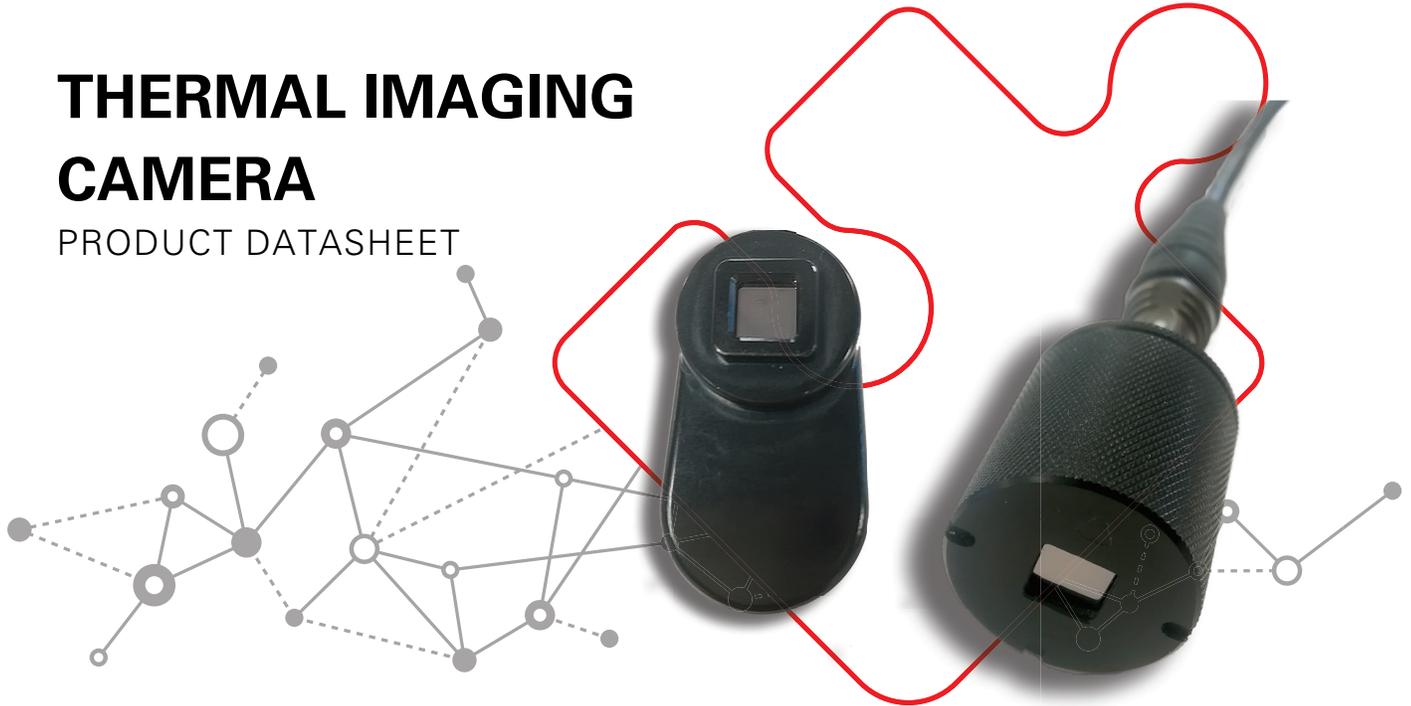
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ACTIVE SOLUTIONS

THERMAL IMAGING CAMERA

PRODUCT DATASHEET



RUGGED, COMPACT, HIGH-RESOLUTION THERMAL IMAGING

Utilising innovative video processing software and comprehensive expertise of LWIR sensors, this rugged, compact plug and play thermal camera has been developed to provide thermal information for a wide range of applications.

Suitable for use day and night (thanks to its night vision capability), the camera not only measures the temperature but can also be used to detect humidity, liquid leakage and hot/cold spots in identified regions of interest (ROI).

Compact, lightweight and portable, the camera is quick to set up making it ideal for on-site inspections, easily getting around pipes and other obstacles to reveal what can't be seen with the naked eye, with amazing clarity, within a focal range of 1m to 20m

Images are processed through proprietary enhanced image processing software which is available as an intuitive and simple user interface for Android smartphones and tablets, enabling the probe to detect and display images and heat readings with an outstanding accuracy and sensitivity in a variety of different output modes, including NVG green, Mil-SPEC black/white and thermal red/orange.

Available with either Fischer UltiMate™, Size 7, 4-pin or Fischer Freedom™ LP360, 7-pin connector.

APPLICATIONS

The compact design and rugged specifications make the thermal camera an invaluable tool across a wide range of applications, including:

CONSTRUCTION - helps you find electrical shorts, heat dissipation, humidity, moisture or leaking pipes before they become an issue or cause damage. Easily operated at a safe distance from the ROI.

SECURITY - small and discreet, hand held or body worn, provides full awareness of an ROI. High quality imagery also enables identification and categorisation of stowaways/intruders.

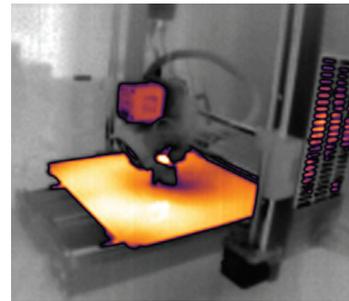
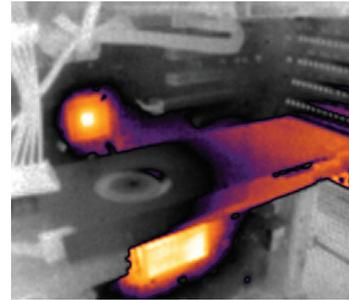
SEARCH & RESCUE - location and identification of people and living assets in hazardous situations by detecting body heat.

PREVENTATIVE MAINTENANCE - prevention of failure is more cost effective, minimizing downtime and expensive callouts and repair costs. The probe can help you detect even the slightest changes in temperature allowing you to take action before damage occurs.



CAMERA: KEY SPECIFICATIONS

| |
|---|
| 640 x 480px resolution (1024 x 768px augmented) |
| 57° Field Of View (FOV) |
| -40°C to 580°C temperature measurement (Temperature measurement accurate +/- 2°) |
| 0,15 to infinity distance |
| 2.4cm x 2.7cm form factor |
| Functions day & night |
| IP65 |
| Onscreen Orientation Indicator |
| Designed to meet EN55032 |



UNIT SPECIFICATIONS

| Connector Style | Size | Weight | IP Rating |
|------------------------------|-------------------------------------|---------|-----------|
| Fischer UltiMate™ Size 07 | Ø 24mm L 40mm incl. connector | 28.7gms | IP65 |
| Fischer LP360™ Size 14 | 20mm x 45.5mm incl. connector | 65gms | IP65 |

COMPATIBILITY

The Thermal Imaging Camera utilises an Android platform for type processing and image enhancements. The Android app utilises a Linux SDK which can be incorporated into other Linux devices as required. iOS devices can also be supported if required.

For full compatibility details and further information, contact:

Fischer Connectors, Inc Atlanta, GA

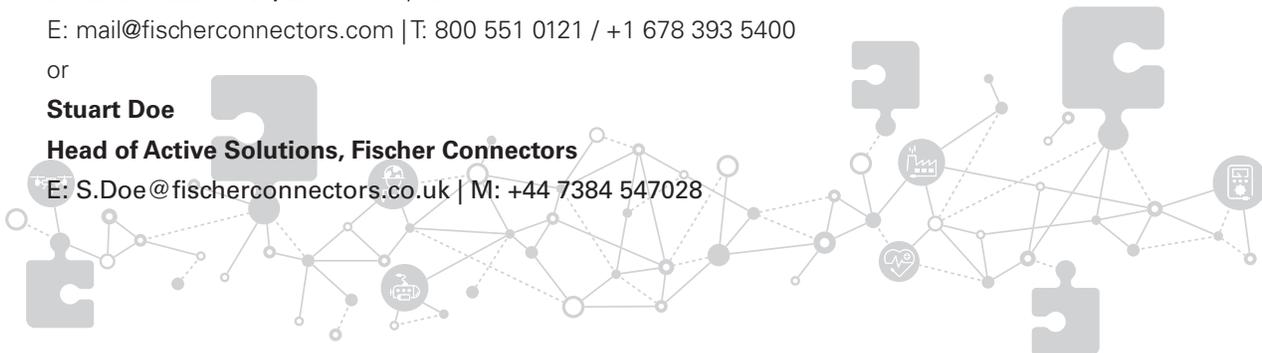
E: mail@fischerconnectors.com | T: 800 551 0121 / +1 678 393 5400

or

Stuart Doe

Head of Active Solutions, Fischer Connectors

E: S.Doe@fischerconnectors.co.uk | M: +44 7384 547028



For more information visit
fischerconnectors.com

VISIBLE LIGHT CAMERA

DATASHEET



RUGGED

COMPACT

HIGH-RESOLUTION IMAGING

PLUG & USE CONNECTIVITY

The Fischer USB Low-Light Visible Camera (LLVC) has been designed to offer a versatile, compact and rugged camera solution with outstanding image clarity coupled with exceptional low-light performance. Utilising the latest Sony micro sensor module with back-illuminated pixel technology, the camera delivers superb colour night-time images in low-light level conditions.

The camera is housed in an IP65-sealed, rugged aluminium housing which utilises the breakthrough Fischer Freedom™ solution and Fischer LP360™ connector not only to provide power and transmit data but also to act as a mounting point for wearables and integration with other devices.

The Fischer LP360™ connector is integrated directly into the camera housing. A stainless steel mounting ring facilitates immediate and secure “snap-on” mounting, connection and video streaming, even in the harshest of conditions.

Compact and lightweight (max. 27g) the camera is quick to set up making it ideal for multiple applications where speed of connection and ease of use are as critical as the quality of the image. Outstanding image clarity coupled with excellent low-light performance make this the ideal device for day and night.

The camera is available with either a 4-pin or 7-pin Fischer LP360™ connector variant, depending on your requirements.

Images are output, live as a H264 USB UVC compliant video stream to enable viewing in real-time, or storing for later assessment, via any USB-2 compatible device, utilising an appropriate camera app.

The camera supports:

- Resolutions up to full HD (1080p) at frame rates from 10 to 30 fps
- MJPEG and H.264 compression and streaming
- USB 2.0 UVC compliant interface

APPLICATIONS

The compact design and rugged specifications make the camera an invaluable tool across a wide range of applications, including, but not limited to:

SECURITY

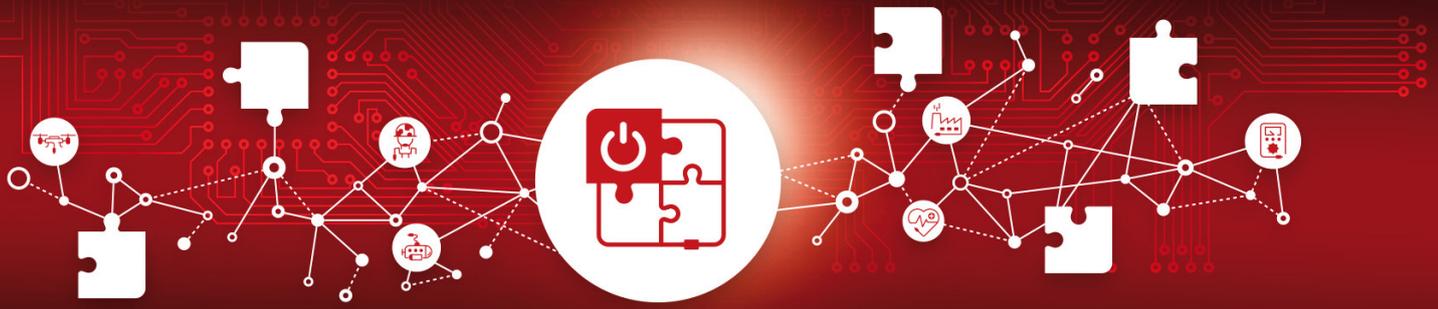
Small and discreet, hand held or body worn, provides full awareness of a Region of Interest (ROI). High quality imagery also enables identification and categorisation of stowaways/intruders.

VEHICLE IDENTIFICATION

The quality of the camera module allows for vehicle licence plates to be read at night without additional illumination (this is not possible with most standard IR cameras as the licence plate is usually blurred out by the glare of the infrared LEDs.).

EMERGENCY SERVICES

The USB interface allows for direct connection to a variety of networked terminals/devices and radios for onward transmission of images. Compact size and weight additionally allows camera to be worn (jacket, vest or helmet-mounted), offering unobstructive, hands-free, live streaming of video when used with compatible device.



VISIBLE LIGHT CAMERA: KEY SPECIFICATIONS

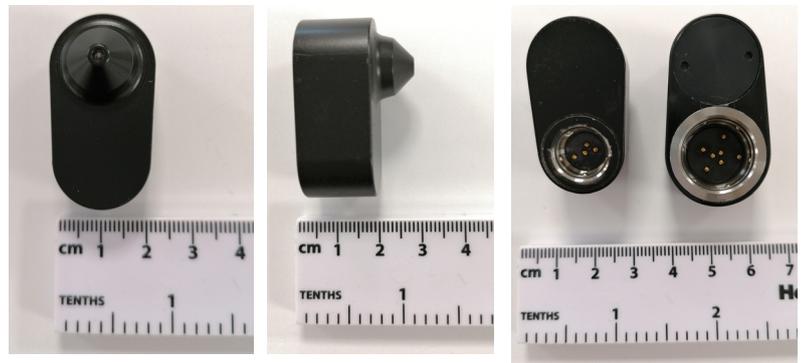


The Thermal Imaging Camera Pole System comprises:

- 1920 x 1080 pixels
- USB 2.0 UVC V1.1 interface
- Output: MJPEG or H.264 at 1080p, 720p, 640x480, 640x360
- 10 to 30 Frames per Second (Fps)
- 0.01 Lux, 4.3mm Pinhole Lens
- 72° Field of View (FoV) (up to 110° FoV available)
- Operating Temperature: -20°C to +60°C
- Lower power consumption: 800mW @ 1080p, 30fps; 300mW @ 640x480, 10fps
- Designed to meet EN55032

UNIT SPECIFICATIONS

| Connector Style | Size | Weight |
|-----------------------------------|----------------------------------|--------|
| Fischer LP360™ Size 07 (4 pin) | 22mm x 40.5mm incl. connector | 23.7g |
| Fischer LP360™ Size 14 (7 pin) | 22mm x 45.5mm incl. connector | 26.3g |



Visible Light Cameras with integrated Fischer LP360™ Connectors, Size 07 and Size 14

COMPATIBILITY

The Visible Light Camera provides a standard USB 2.0 UVC compliant video feed, in either MJPEG or H.264 compression. This means the video feed will be compatible with most >USB 2.0 compliant devices, tablets, phones, radios, etc.



For more information, connect with

Your **Fischer Connectors Account Manager** or sales@fischerconnectors.co.uk

or **Stuart Doe**, Head of Active Solutions E: S.Doe@fischerconnectors.co.uk