FISCHER RAPID DEPLOY CAMERA POLE (RDCP) SYSTEM DATASHEET



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. HIGH-RESOLUTION IMAGING THERMAL & LOW-LIGHT CAMERA OPTIONS RUGGED, EXTENDABLE CARBON FIBRE POLE COMPACT & LIGHTWEIGHT SYSTEM FIELD DEPLOYABLE CARRY CASE

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.



Camera

Camera

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 maintainence 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 •



Mil-SPEC black/white mode



Example of Thermal red/orange mode

The simple user interface includes Mode Selector, Onscreen Horizon and Temperature Indicators, Record and Snapshot functions

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) ٠
- ٠ MJPEG and H.264 compression and streaming
- USB 2.0 UVC V1.1 compliant interface ٠
- Robust IP65 sealed aluminium housing •
- Operating Temperature: -20°C to +60°C ٠
- ٠ Low power consumption: 800mW @ 1080p, 30fps; 300mW @ 640x480, 10fps
- Size: 46 x 26 x 23mm (L x W x D) ٠
- ٠ 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.



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 Peli[™] 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 <i>(630mm)</i>	3 metres <i>(860mm)</i>
SYSTEM CASE TYPE	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
Thermal Imaging Camera (with Fischer Freedom™ Connectivity) FADQM14 P007 BK360 CAM THERMAL Rev 00	136784 <i>ine rischer Li sob yppil</i> <i>connector, such as lights</i> <i>etc are also available and ca</i>	
Visible Low-Light Camera (VLC) (with Fischer Freedom [™] Connectivity) FADQM14 P007 BK360 CAM VISIBLE Rev 00	136788	required. Contact us for more details.





For more information connect with your Fischer Connectors Account Manager

fischerconnectors.com