

PAWS

Portable All-terrain Wireless System



- > Search & Rescue, Operations Support, Explosive/Drug Detection
- > Proven technology
- > Optional audio
- > Adaptable to dog size

- > Lightweight
- > Rechargeable batteries
- > Static/worn receiver options
- > Display options
- > WiFi rebroadcast

Wood & Douglas are expanding their range of high quality video delivery products into a new and exciting sector of the market where our rugged physical product together with our robust RF COFDM technology will allow continuous transmission of quality video in even the most difficult terrain. The introduction of a dog-mounted video transmitter will allow access to terrain which until now has been difficult and sometimes impossible for humans to operate in.

dVMO has proved its worth around the world as a high-quality delivery method over an extensive range of frequencies. These frequencies operating with our unrivalled RF implementations have enabled Homeland Security organisations to achieve quality video footage in many of the most inhospitable locations and environments. Implementing this world-leading technology on a dog allows the expansion of video applications into yet another dimension of identification and evidence gathering from operational situations.

In designing this solution we have taken great care to ensure that both parts of the operational team have their needs individually catered for, implementing design changes to suit both the dog and the dog handler. The head harness is of a light but robust design and provides simple adjusters so that the dog can be made comfortable with the equipment, ensuring that it is not distracted in any way from the task in hand. The success of the head harness ensures that any operator viewing the video footage is now presented with the most stable of high quality pictures thus ensuring they can also concentrate on the task in hand with a minimum of viewer fatigue.

As the equipment is part of our solutions portfolio there are a number of ways that it can be deployed and all aspects can be customised to suit the operational needs of our users from the inclusion of extra viewing positions from a single video feed to two-way audio.

Portable All-Terrain Wireless System (PAWS) Specifications

System

Description	Rugged, lightweight, long-range video and audio link with dog-mounted camera
Applications	Search and Rescue Operational support Explosive/drug detection
Technology	Proven dVMO COFDM link
Frequency bands and typical line-of-sight range	Dog to handheld receiver, horizon at 8km 320 – 360 MHz - 8km 700 – 850 MHz - 8km 1.2 – 1.9 GHz - 5km 2.0 – 2.5 GHz - 4km 3.0 – 3.5GHz - 3km 5.0 – 5.5 GHz - 2km
Audio	Optional one- or two-way

Dog

Powering	2 off NiMH rechargeable battery packs with manual selection 3 hours operation as standard; larger battery packs are available
Audio option	Optional back-mounted omnidirectional microphone using dVMO link for audio to handler Optional back-mounted speaker for audio to dog using W&D Trio/Solo pair operating in 400-850MHz bands
Harness	Multi-size body and head harness for all dog sizes
Camera	Lightweight head-mounted camera compatible with "doggles" and ear muffs Low light/high resolution capability (camera dependent) IR illuminator option for night working
Transmitter	Body harness mounted, 200mW RF out as standard
Weight	Body and head harness with transmitter and 2 battery packs: 1.8kg Head harness with camera: 120g

Handler

Receiver options	Desktop Manpack using standard police issue vest or shoulder worn
Display options	Hands-free monitor Head-Mounted Display (HMD) options Re-broadcast over WiFi to hand-held device (Phone, Tablet PC etc)

Wood & Douglas maintain a policy of continuous improvement and enhancement. As a consequence, the above specification may change without notice.

