

K9-XR CAMERA

SPEC SHEET: TACTICAL ELECTRONICS



IDENTIFICATION



K9XR

EXTENDED RANGE CAMERA SYSTEMS BY TE

FEATURES



EXTENDED RANGE
450m of real-time video and audio transmission



2-WAY AUDIO
Push-to-talk 2-way audio between handler & K9



THERMAL VIDEO
160x120 FLIR LWIR thermal image sensor



ADJUSTABLE LEDS
Remotely adjust & toggle 2 x visible and 2 x IR LEDs

- › **EXTENDED RANGE:** 450m video & audio transmission
- › **THERMAL VIDEO:** Integrated LWIR thermal imager
- › **LOW-LIGHT VIDEO:** 640 x 480px color video
- › **RECORDING:** Records video & audio to MicroSD card
- › **ILLUMINATION:** 2 visible & 2 IR high-intensity LEDs
- › **ENCRYPTION:** 256-bit AES video & audio encryption
- › **AUDIO:** Omni-directional microphone records audio
- › **MOUNTING:** Molle and Velcro mounting attachment
- › **SNAPSHOT:** Instantly record a still image of live video
- › **BACKLIT BUTTONS:** View push buttons in low light

DESCRIPTION

The K9-XR Camera is a high-powered extended range camera system that transmits live video and audio back to the K9 handler. Easily receive video/audio on the K9-XR Monitor up to 450 meters away from the canine. The camera mounts to the K9's vest using molle and Velcro attachments. Two-way audio on the K9-XR Camera allows handlers to give commands and listen to a canine and/or suspect, utilizing the "Push to Talk" feature.

The K9-XR Camera combines a low-light color camera with high-intensity visible & IR LEDs, providing vision in extreme low-light environments. The K9-XR Camera also includes a white-hot thermal camera for detecting hidden heat signatures. Handlers can remotely toggle between the color and thermal cameras by pressing the view button on the K9-XR Monitor.

The camera arm is spring loaded, allowing canines to maneuver through tight spaces and obstacles. An internal DVR records audio and video directly to a micro SD card. K9 handlers can watch live video from the dog's perspective while simultaneously recording the video for evidence collection and training purposes. The foldaway camera neck and removable antennas make the K9-XR Camera compact and easy to transport via soft carry or hard case.



CONTACT :
TACTICAL ELECTRONICS
P: 866 / 541 / 7996
P: 918 / 249 / 8326
F: 918 / 249 / 8328

WEBSITE : TACTICALELECTRONICS.COM

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SPECIFICATIONS

CAMERA DIMENSIONS:	L 8.04in x W 4.06in x H 7.59in H=12.25in w/ 900MHz antennas attached
CAMERA DIMENSIONS (METRIC):	L 20.4cm x W 10.3cm x H 19.2cm H=31.1cm w/ 900MHz antennas attached
CAMERA WEIGHT:	2.0lb 9.0oz 1.16kg
POWER SUPPLY:	Four CR123 batteries
RUNTIME:	Up to 60 to 75 minutes
HOUSING MATERIAL:	6061-T6 Aluminum
OPERATING TEMPERATURE:	-4°F to 122°F / -20°C to 50°C
FREQUENCY RANGE:	900MHz (default) 2.4GHz (optional) Factory tunable from 100MHz to 6GHz
WIRELESS ENCRYPTION:	256-bit AES Encryption
TRANSMISSION DISTANCE:	Line of Sight (LOS) = up to 450m nonLOS/indoors = up to 200m
COMPATIBLE MONITORS:	K9-XR Monitor
CAMERA SENSOR TYPE:	0.25in CMOS Color Digital Image Sensor
CAMERA RESOLUTION / FRAME RATE:	Color 640 x 480px @ 30fps
LENS FOCAL LENGTH:	3.7mm
HORIZONTAL FOV°:	Visible = 80° Thermal = 51°
THERMAL SENSOR TYPE:	Longwave Infrared (LWIR), 8μm to 14μm
THERMAL SENSOR RESOLUTION:	160 x 120px
ILLUMINATION:	2 x IR LEDs and 2 x visible LEDs; 0 - 100% dimming
REMOTE CAMERA CONTROLS:	Video toggle: color & thermal LED toggle: visible & IR w/ 0-100% dimming control
REAL-TIME AUDIO:	Two-way audio with connected headphones (half-duplex with Push-To-Talk)
STORAGE MEDIA:	MicroSD Card
RECORDING CAPACITY:	32GB



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K9-XR MONITOR

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IDENTIFICATION



K9XR

EXTENDED RANGE CAMERA SYSTEMS BY TE

FEATURES



EXTENDED RANGE
450m of real-time video and audio reception



2-WAY AUDIO
Push-to-talk 2-way audio between handler & K9



THERMAL VIDEO
Real-time thermal video feed from camera



ADJUSTABLE LEDS
Remotely adjust & toggle 2 x visible and 2 x IR LEDs

- › **EXTENDED RANGE:** 450m audio & video reception
- › **LIVE VIDEO:** View wireless color & thermal video
- › **VIDEO:** Remotely toggle between color & thermal video
- › **LEDS:** Remotely adjust & toggle the Camera's LEDs
- › **SNAPSHOT:** Instantly record a still image of live video
- › **DISPLAY:** 5.0in IPS LCD with a capacitive touchscreen
- › **ENCRYPTED:** Encrypted video and audio reception
- › **BACKLIT BUTTONS:** View push buttons in low light

DESCRIPTION

The K9-XR Monitor displays real-time color and thermal video directly from the K9-XR Camera. Utilizing a high-powered extended range radio, the K9-XR Monitor is capable of receiving audio and video up to 450 meters away from the canine.

The K9-XR Monitor also provides long distance remote control of the K9-XR Camera's LEDs and video feed. The push of a button allows the operator to remotely toggle between the color and thermal cameras. An LED dial wheel remotely adjusts the K9-XR Camera's LED intensity (0-100%). The system's two-way audio incorporates a "Push-to-Talk" feature, allowing handlers to directly communicate and listen to a canine and/or suspect. The K9-XR Monitor features both backlit push buttons for critical, real-time controls, and a capacitive touch screen for customizing system preferences.



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SPECIFICATIONS

MONITOR DIMENSIONS:	W 6.61in x D 1.94in x H 4.90in H=14.375in w/ 900MHz antennas attached
MONITOR DIMENSIONS (METRIC):	W 16.8cm x D 4.9cm x H 12.4cm H=36.5cm w/ 900MHz antennas attached
MONITOR WEIGHT:	1.0lb 12.6oz 0.81kg
POWER SUPPLY:	Four CR123 batteries
RUNTIME:	Up to 60 to 75 minutes
HOUSING MATERIAL:	Black HDPE and 6061-T6 Aluminum
OPERATING TEMPERATURE:	-4°F to 122°F / -20°C to 50°C
FREQUENCY RANGE:	900MHz (default) 2.4GHz (optional) Factory tunable from 100MHz to 6GHz
WIRELESS ENCRYPTION:	256-bit AES Encryption
TRANSMISSION DISTANCE:	Line of Sight (LOS) = up to 450m nonLOS/indoors = up to 250m
MONITOR DIAGONAL SIZE:	5.0 inches
MONITOR RESOLUTION:	1280 x 720px
MONITOR VIEWING ANGLE:	80 degrees in all directions
REMOTE CAMERA CONTROLS:	Video toggle: color & thermal LED toggle: visible & IR w/ 0-100% dimming control
HEADPHONE JACK:	2.5mm, 3-conductor



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