



For all Interested Companies:
Open date: Sep.10.2012 – 09.00 AM
Close date: Sep.28.2012 – 06.00 PM

REQUEST FOR QUOTATION

Description of Requirement/SOW/TOR: **DIGITAL MOBILE CCTV WITH HIGH ACCURACY SPEED MEASUREMENT SYSTEM**

General Requirements

All equipment and related software must be compatible and used as a single unit. Integrated devices must perform multiple requested functions to include accurate speed measurement, easy visualization of recorded images and a high quality audiovisual recording. Speed must be (also) displayed in km/h. The integrity of recorded data must be supported by digital watermarking function where a unique mark is assigned to a range of images. The video management software must allow users to easily view and copy images from the removable hard disk on CD or DVD, as well as to select and review image sequences or book marked incidents. Images are then optionally stored, distributed or archived. In cases when evidence (images) is submitted to the courts of law on a non-rewritable CD or DVD disks, the system must allow for the appropriate watermark data certification. When the authenticity of the disk needs to be verified at a later stage, a second certificate could be generated from the images on the disk. If the two certificates match, then the disk has not been tampered with. This feature adds integrity to prosecution evidence and is critical for the Moldovan Traffic Police Department.

The vendor is responsible for installation and configuration of the equipment and ensuring that all pieces of equipment work as one compatible integrated unit. The vendor is also responsible for initial user training and any initial maintenance of the equipment. All devices must be covered by an extended warranty period and comply with all health and safety standards.

10 units are requested.

All quotes must reflect these general requirements.

Technical specifications

General Specifications for speed measurement system (radars)

Power: 10.8 to 16.5 Volts DC, 0.9 Amps @ 13.6 V nominal. Fused power cable. Reverse polarity protection.

Speed Range:

Stationary:

Target: 24, 1 km/hr to 321, 8 km/hr (15 to 200 mph). **Conversion: 1 mph = 1, 60 km/hr.** Speed must be displayed in km/hr.

Opposite direction moving: Patrol: 19,3 km/hr to 128,7 km/hr (12 to 80 mph) in City mode, 32,1 km/hr to 128,7 km/hr (20 to 80 mph) (will track to 144,8 km/hr (90 mph)) in Highway mode Target: 24, 1 km/hr to 321, 8 km/hr (15 mph to 200 mph) closing speed. Speed must be displayed in km/hr.

Same direction moving: Patrol: 19,3 km/hr to 128,7 km/hr (12 to 80 mph) in City mode, 32,1 km/hr to 128,7 km/hr (20 to 80 mph) (will track to 144,8 km/hr (90 mph)) in Highway mode Target: + 70% of patrol speed (will not measure speeds within 4,82 km/hr (3 mph) of patrol speed)

Target Distance: One mile range typical for an average size vehicle. Range varies with vehicle size, terrain, weather, and traffic conditions. (Range is lower in same direction mode.)

Speed Display: Powerful colour/infrared camera with wide angle, at least 18 times optical zoom and fast shutter features. All images are displayed on an easy to read retractable monitor with relevant data including security frame tagging, date, time, own vehicle and target vehicle speed and lock speed.

Antenna:

Frequency: 33.8GHz + 100 MHz (Ka-band)

Type: Circularly polarized, with seamless conical horn and Rexolite microwave lens.

Enclosure: All-aluminum housing with a waterproof polycarbonate radome cover incorporating O-ring seals.

Source: Solid state Gunn-effect diode transmitter with a nominal output power level of 12 to 30 mW.

Power Density: Radiated power is less than 2 mW/cm² at 5 cm. distance from the antenna.

Mixer Diode: Schottky barrier type related for 100 mW burnout.

Minimum features for the speed measurement system (radars)

- 1) Automatic Same Direction (ASD) mode** *Measures same direction traffic with computer controlled accuracy. The technology gives the versatility of same direction operation without a confusing faster/slower button. The radar decides whether the target is approaching or receding with 100% accuracy. In stationary mode, ASD allows operators to select a lane and only measure the targets traveling in that lane, while completely ignoring the traffic in the other lane. Or let the radar measure both lanes and tell operator the direction the target is traveling.*
- 2) Directional stationary mode** *Catch a speeder moving in a chosen direction even if there's a closer vehicle moving in the opposite direction.*

- 3) **Selectable City and Highway modes** *help minimize shadowing and combining.*
- 4) **POP™ technology** *can measure traffic speeds without setting off radar detectors.*
- 5) **Ergonomic wireless remote control** *Each major function has a uniquely-contoured switch, so the radar can be operated without having to look at the remote.*
- 6) **Black equipment housings** *Radar blends into the vehicle's interior until you're ready to use it. All-black, waterproof antenna housing makes covert operation easy.*
- 7) **Digital signal processing must be reliable, jammer-proof, and maintenance free.**
- 8) **Waterproof**

General Specifications for digital video recorders

- 1) **Specifically designed for transportation applications and comply with all European marking standards**
- 2) **Common interface to ensure compatibility and connectivity between radars and video recorders, as well as between the control room and police vehicles.**
- 3) **Removable hard disk drive. At least 40 GB**
- 4) **Up to 21 hours of recording with the facility to record continuously or specific events.**
- 5) **Digital watermarking function where a unique fingerprint is assigned to a range of images. Simultaneous record and playback feature is critical.**
- 6) **Video management software must allow users to easily view and copy images from the hard disk on CD or DVD.**

All quotes must reflect these requirements.

Award criteria: The Embassy of the United States of America in Chisinau will award the lowest technical accepted bid.

Payment: Payment will be done only after acceptance of goods.

Your proposal must be sent to FehrGT@state.gov and CerneaVV@state.gov with subject entitled "*Speed measurement system SMD70012Q0422*" on or before **6PM** on **September 28, 2012**. No proposal will be accepted for review after this time.