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CPRC

CANADIAN POLICE RESEARCH CENTRE



CCRP

CENTRE CANADIEN DE RECHERCHES POLICIERES

TM-09-94

The Nooklooker System - “Looking in inaccessible places”

By: Mr. John Arnold, Chief Scientist
Canadian Police Research Centre

TECHNICAL MEMORANDUM

Submitted by
Canadian Police Research Centre

February, 1994

NOTE: Further information
about this report can be
obtained by calling the
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(613) 998-6343

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EXECUTIVE SUMMARY

The NOOKLOOKER video system is a portable personal self contained video system that allows a police officer to look in inaccessible places and in dimly lit dark places. The system is portable allowing the police officer to look in hard to reach places such as suspended ceilings, under cars or the front of semi-trailer from the rear door. The system comes in two versions both having a black and white video picture. Version 1 is hand held with a four inch black and white video monitor operating for two hours on the rechargeable batteries. Version 2 clips on the officers belt with a black and white video eye-piece monitor that clips to the officer's head operating for 6 hours on the rechargeable batteries.

The Canadian Police Research Centre(CPRC) will be offering this technology for "technology platform" assessment in March 1994. This offer is being made available through the CPRC Technology Platform Network that is being developed with the Canadian police community. This technology offering will be jointly financially supported by the evaluating law enforcement agency and the CPRC.

Any interest in participating in these field trials can be obtained by contacting:

John Arnold, Chief Scientist
Canadian Police Research Centre at the
National Research Council of Canada
OTTAWA, Ontario
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Telephone : (613) 993-3737
Fax : (613) 954-1473

SOMMAIRE

Le NOOKLOOKER est un système vidéo autonome qui permet à un policier de filmer dans des endroits difficiles d'accès ainsi que dans des lieux sombres où l'éclairage est tamisé. Cet appareil portatif permet de voir au-dessus des plafonds suspendus, sous les voitures ou à l'avant d'une semi-remorque à partir de la porte arrière. Le système existe en deux versions noir et blanc. Le premier type d'appareil se tient dans la main et est muni d'un écran noir et blanc de quatre pouces; il peut fonctionner deux heures sur piles rechargeables. Le second type s'accroche à la ceinture du policier et comporte un écran noir et blanc à oculaire qui se fixe autour de la tête; il peut fonctionner 6 heures sur piles rechargeables.

Le Centre canadien de recherches policières proposera aux corps policiers de faire l'évaluation de cette technologie en mars 1994, dans le cadre du programme de la Plate-forme technologique. Cette offre d'évaluation est faite par l'entremise du Réseau de la Plate-forme technologique que le CCRP est en train de constituer en collaboration avec les services de police du Canada. Elle sera financée conjointement par le corps policier qui fera l'évaluation de la technologie et par la GRC.

Quiconque est intéressé à participer à ces essais sur le terrain peut communiquer avec :

John Arnold, scientifique en chef
Centre canadien de recherches policières au
Conseil national de recherches du Canada
Ottawa (Ontario)
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NOOKLOOKER PRODUCT DESCRIPTION AND SPECIFICATION SHEET

Product Description -

The "Nooklooker" is a small 4" by 4" black and white video camera that can inspect dark and hard to see places both quickly and effectively. For instance it is possible to inspect or examine inside false ceilings for suspicious packages. There is no recording capability as this is an inspection piece of equipment. There are two separate modes of use. The short six foot version, the search unit, for looking in dark places like under a car and the longer version, the tactical unit, that can be deployed in 30 seconds to look in a second story window.

Your Technology Platform Cost -

The department cost for this evaluation unit is \$ 1,250.00. This one time cost gives your department the unit at half the finished retail cost. You keep this unit for your departments use.

Specifications -

Both systems come with the following:

- *Carrying Case including an external quiver for the two-storey extension.
- 15' pole 25' flexible cable - 4' sections with 6" overlap
- Hand wand 2' goose neck (for looking around corners)
 - 6 cable multi stranded flexible 3" pole
- Battery charger/ trickle charger
- Power Requirements - powered by rechargeable ni-cad batteries
- Black & white camera 360 lines with an I.R. source for seeing in the dark.
 - Camera 180 mA @ 12 volts
- Lens - options (two)
 - 73 degrees field of vision
 - 95 degrees field of vision
- . 60" extension electrical cord with storage reel
- . Operations Manual

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VERSION 1 - Hand held 4" shielded monitor with batteries.

(SEE PICTURES 1 and 2)

- . length of time 2 hours (with hand held monitor).
- . Power Requirements - powered by rechargeable ni-cad batteries
 - Hand Held @ 6 volts
 - with hand held 4" shielded monitor with batteries.

VERSION 2 - Eye-piece with battery belt

(SEE PICTURE 3)

- . Power Requirements - powered by rechargeable ni-cad batteries
 - Camera 180 mA @ 12 volts
 - Eye piece @ 12 volts
 - with eye piece, complete with battery belt (6 hours use).
 - Hand Held @ 6 volts

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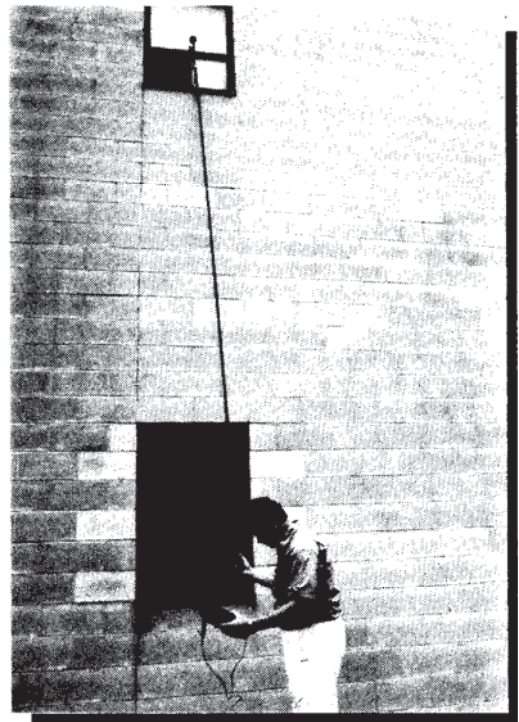
NOOKLOOKER MANUAL

1. Parts description
2. Operating Instructions
3. Operating recommendations
4. Assembly
5. Trouble shooting/maintenance
6. Parts list

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Picture 1 - NOOKLOOKER in the six foot mode with hand held monitor configuration (2 hours operation)



Picture 2 - NOOKLOOKER in the fifteen foot mode with hand held monitor configuration (2 hours operation)



Picture 3 - NOOKLOOKER in the eye piece configuration (6 hours operation)