

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
PWGSC/TPSGC Acquisitions  
1045 Main Street  
1st Floor, Lobby C  
Unit 108  
Moncton, NB E1C 1H1  
Bid Fax: (506) 851-6759

## SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

### Comments - Commentaires

Vendor/Firm Name and Address  
Raison sociale et adresse du  
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution  
NB / PEI Division - Moncton Acquisitions Office  
1045 Main Street  
1st Floor, Lobby C  
Unit 108  
Moncton, NB E1C 1H1

<b>Title - Sujet</b> In-car Digital Video System	
<b>Solicitation No. - N° de l'invitation</b> M4500-133575/A	<b>Amendment No. - N° modif.</b> 004
<b>Client Reference No. - N° de référence du client</b> M4500-133575	<b>Date</b> 2013-02-12
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$MCT-011-4579	
<b>File No. - N° de dossier</b> MCT-2-35120 (011)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-02-15</b>	<b>Time Zone</b> Fuseau horaire Atlantic Standard Time AST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Sharpe, Charlene A.	<b>Buyer Id - Id de l'acheteur</b> mct011
<b>Telephone No. - N° de téléphone</b> (506) 851-3467 ( )	<b>FAX No. - N° de FAX</b> (506) 851-6759
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b>	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm (type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## Solicitation Amendment

### Title In-Car Digital Video System

#### Solicitation Amendment No. 004

This solicitation is hereby amended to provide the following questions and answers:

**Q1. Page 10 states that all deliverables must be received on or before March 28, 2013. To help vendors accommodate this requirement, can the RCMP provide details as to how soon an award will be announced after the RFP due date of February 7, 2013?**

A1. Please see Amendment 002, Question 2.

**Q2. Annex A and Annex C appear to be very similar. Do both need to be included in the vendor response?**

A2. The proposal must include enough information for the technical evaluation team to determine that it meets all the mandatory criteria and can be scored on the point rated criteria. Annex C has been included to make this task easier.

**Q3. Regarding Annex B - Basis of Payment: The RFP requires three different configuration options: (1) Basic, (2) Enhanced and (3) Wire/Wireless; however the basis of payment only provides one pricing table for each the (145) quantity purchase and the (5) quantity purchase. Is it expected that vendors copy this table for each of the (3) configuration options for both the (145) quantity purchase and the (5) quantity purchase? If not, how shall we describe price differences in each configuration? Alternatively, may vendors add additional line items to the boxes in Annex B?**

A3. Please see revised Basis of Payment. Also, there is a line in the basis of payment for miscellaneous items (if applicable, these are to be specified). If the items a bidder wishes to include are part of the system itself, these items are to be included in the lot price of the system.

**Q4. Regarding requirement 1.a.6), monitor size as part of the Basic Configuration, the dimensions listed (minimum of 20.32 cm (8 inches) and a maximum of 27.9 cm (11 inches)) are the equivalent to a tablet computer or laptop computer with an exception made for those built into the rear-view mirror. Since this is the Basic Configuration, which does not require a MDT/MWS interface, and an exception has been made to allow for displays built into the rear-view mirror, will the RCMP allow for displays that are hi resolution but smaller than the stated dimensions? The high resolution display we provide has the control panel built into it and is small and unobtrusive while also being very intuitive and user friendly through the Graphical User Interface.**

A4. Please see revised Annex A.

**Q5. Regarding requirement 12.b.5, dust resistance, can the RCMP please provide a use case that would necessitate this since the equipment will be installed in a police vehicle? Would the RCMP consider equipment that has not been tested to this requirement, yet has been implemented in 30,000+ plus police vehicles across Canada and the United States?**

A5. The requirement for dust resistance will not be changed. It is particularly important in geographical areas with high levels of sand and clay.

**Q6. Regarding requirement 12.b.6, the requirement for water resistance, can the RCMP please provide a use case that would necessitate this since the equipment will be installed in a police vehicle? Would the RCMP consider equipment that has not been tested to this requirement, yet has been implemented in 30,000+ plus police vehicles across Canada and the United States?**

A6. The requirement for water resistance will not be changed. It is particularly important in geographical areas with high levels of humidity.

**Q7. Regarding requirement 30.b.3, wireless network security standard WPA2 AES 256 bit Encryption, will the RCMP consider allowing WPA2 AES 128 bit Encryption, which we have found to be standard and acceptable in the industry as well as the International Association of Chiefs of Police? Additionally, this requirement was removed from the recent RCMP national RFSO and changed to WPA2 AES 128 bit Encryption.**

A7. Yes, please see revised Annex A.

**Q8. a) Why is there a NB RCMP tender when there is a current Ottawa RCMP NSO and why some sections differ from the Ottawa NSO.**

**b) Regarding section 30.b.3, in 2006 when the RCMP issued a tender for in-car video they used the attached 2004 IACP study as criteria for selecting the Kustom trunk mounted DVD-RAM system. In 2009 and 2011 with tenders for BC and Nova Scotia the same IACP requirements appeared in the RFPs. According to the new IACP guidelines (attached) sections 5.6.2.1 and 5.6.3.1 clearly identify that a minimum of 128 bit encryption is required. If the RCMP used the IACP guidelines as their standard in 2006 it would stand to reason that they should be following the IACP guidelines in 2013. Unfortunately, in the RCMP's 2006 NSO the mandatory requirement which was based on IACP standards resulted in only one vendor being able to comply. The 2009 and 2011 NSO's met with the same results. If the 256 bit encryption is eliminating a vendor, it could be seen as violating the Agreement on Internal Trade (Rule 504 3. b & g) as it is discriminating against certain suppliers.**

**We would request that the functional requirements section 30 b. 3. be changed to 128 bit encryption as a minimum and additional points awarded for 256 bit encryption. The Ottawa RCMP NSO was amended to reflect the IACP guidelines of 128 bit encryption.**

A8. a) There are currently two tenders available. The first is a National Standing Offer which will be in place for the 2013/2014 fiscal year. The second is a Contract for H Division (Nova Scotia) RCMP only, for March 28, 2013 delivery, and the technical specification has been modified for our specific needs.

b) Please refer to A7 above.

**Q9. Regarding section 1.a.6. of the Ottawa RCMP NSO has monitor size NOT to exceed 11 inches (see attached) however the NB RFP has 8 inches minimum to 11 inches maximum. There are several manufacturers who have monitors including frame which are less than 8 inches which is much more conducive for overhead mounting of the display and reduced blind spots for officers. If a mirror system with a 3.5 inch monitor is allowed then the minimum 8 inch requirement should be removed and the specification should mirror that of the Ottawa RCMP NSO.**

**We would request that section 1.a.6. be modified to allow a control panel/display including monitor size to 11 inch maximum and the minimum size removed.**

A9. Please refer to A4 above.

**Q10. Regarding Section 17a within the Technical Requirements, Annex A sets the field of view for the rear seat camera. Although the field of view requirements are clear, the statement does not specify the field of view requirements relate specifically to within the rear seat compartment. This field of view requirement, although it refers to a rear seat camera, can be anywhere within the vehicle. If the rear seat camera is placed outside the rear seat area, while it may meet the specifications, it might not cover the rear seat area. Therefore, would it be appropriate to change the wording of Section 17.a specifying this field of view relates to the rear seat area?**

A10. Section 17 under functional requirements specifies: The ICDVS back-seat camera must cover sufficient field of view to capture activities in the back-seat area.

**Q11. Regarding Section 27.a, a minimum of 12 hours recording time at the minimum frame rate equivalent to 30 +- 2% frames per second per camera. Is this requirement for each of the cameras operating one at a time or for two or three cameras operating simultaneously?**

A11. It is intended for multiple cameras operating simultaneously.

**Q12. At Annex B Basis of Payment and Amendment No. 002, A3.: "The basis of payment includes one line for the complete system (as responding to the specs)." The Request For Proposal requires the system in three different configurations; Basic, Enhanced, and Wired/Wireless. Each configuration will have a different price since there are different specifications and components required for each. Questions:**

**a) Which configuration - Basic, Enhanced, Wired/Wireless - should be used for Annex B, Item 1., Unit Price?**

**b) If only one configuration is priced per Annex B, how will the RCMP acquire other configurations?**

**c) Is the Wired/Wireless configuration an upgrade only to either the Basic or Enhanced configuration?**

**d) How many of the 145 units, and 5 optional units, will be Basic configurations and how many will be Enhanced configurations?**

**e) How many of the 145 units, and 5 optional units, will be Wired/Wireless configurations?**

**f) How many locations (i.e. Division and Detachment office sites) will have the Wired/Wireless download hardware (antennae, access points, computer), software and network installed?**

**g) Request that Annex B be changed to include one line for Basic configuration unit price and quantity, another line for Enhanced configuration unit price and quantity, and another line for Wired/Wireless configuration as an upgrade only price to either the Basic or Enhanced configuration and quantity.**

A12. a) Please refer to A3 above.

b) Please refer to A3 above.

c) Yes.

d) Please see revised Basis of Payment.

e) Please refer to A12d) above.

f) We do not intend to have any wired/wireless locations under this contract. However, we still require that the units have this capability.

g) Please refer to A3 above.

**Q13. Section 32 E requires that all manuals shall be provided in English and French. These are mostly technical documentation. The RFSO for In-Car Video System did not require French manuals. Also, in the past, PWGSC has removed the requirement for French technical documentation if PWGSC was allowed to do the translation themselves. In light of this information:**

**a) Would PWGSC please remove the requirement for French manuals?**

**b) Would PWGSC please accept a French Quick Help Guide for the in car software as meeting the requirement of 32 e)?**

A13. English only is sufficient. Please see revised Annex A.

## **AND**

This solicitation is hereby amended to:

- (1) Reference: **Annex A Statement of Requirement (Functional and Technical Specifications)**  
**DELETE** Annex A (Revised February 1, 2013) in its entirety; and  
**INSERT** Annex A Statement of Requirement (Functional and Technical Specifications) (**Revised February 12, 2013**) attached.
- (2) Reference: **Annex B Basis of Payment**  
**DELETE** Annex B in its entirety; and  
**INSERT** Annex B Basis of Payment (**Revised February 12, 2013**) attached.
- (3) Reference: **Annex C Technical Evaluation Criteria**  
**DELETE** Annex C (Revised February 1, 2013) in its entirety; and  
**INSERT** Annex C Technical Evaluation Criteria (**Revised February 12, 2013**) attached.

If your bid has already been forwarded and you wish to revise same, this revision should be sent either in a sealed envelope and mailed to the above address or by facsimile (506) 851-6759 and reach the undersigned before the appropriate closing date. The solicitation number and the closing date are to be shown on the outside of the sealed envelope or on the facsimile transmission.

All other terms and conditions of the solicitation document remain unchanged remain unchanged.

Solicitation No. - N° de l'invitation

M4500-133575/A

Amd. No. - N° de la modif.

004

Buyer ID - Id de l'acheteur

mct011

Client Ref. No. - N° de réf. du client

M4500-133575

File No. - N° du dossier

MCT-2-35120

CCC No./N° CCC - FMS No/ N° VME

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All enquiries concerning this amendment are to be forwarded to:

Name Charlene Sharpe

Telephone No.: (506) 851-3467

Facsimile No: (506) 851-6759

*(Derived from - Provenant de: XNB025D, 23/01/2008 )*

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**ANNEX B****BASIS OF PAYMENT (Revised February 12, 2013)**

Item No.	Description	OEM Brand Name and Model Number	Unit of Issue	Quantity	Unit Price	Extended Price
1	In Car Video System (Basic Configuration as per Annex A)		Each	145	\$ _____	\$ _____
2	In Car Video System (Enhanced Configuration as per Annex A)		Each	0	\$ _____	\$ _____
3	In Car Video System (Wireless Configuration as per Annex A)		Each	0	\$ _____	\$ _____
4	Shipping, if applicable		Lot	1	\$ _____	\$ _____
5	Miscellaneous (please specify, if applicable) _____ _____		Lot	1	\$ _____	\$ _____
<b>Subtotal</b>						<b>\$ _____</b>
<b>HST 13%</b>						<b>\$ _____</b>
<b>Total</b>						<b>\$ _____</b>



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**Optional Items :**

Item No.	Description	OEM Brand Name and Model Number	Unit of Issue	Quantity	Unit Price	Extended Price
1	In Car Video System (Basic Configuration as per Annex A)		Each	3	\$ _____	\$ _____
2	In Car Video System (Enhanced Configuration as per Annex A)		Each	1	\$ _____	\$ _____
3	In Car Video System (Wireless Configuration as per Annex A)		Each	1	\$ _____	\$ _____
4	Shipping, if applicable		Lot	1	\$ _____	\$ _____
5	Miscellaneous (please specify, if applicable) _____ _____		Lot	1	\$ _____	\$ _____
					<b>Subtotal</b>	\$ _____
					<b>HST 13%</b>	\$ _____
					<b>Total</b>	\$ _____

Annex A  
*In-Car Digital Video System (ICDVS)*  
Functional and Technical Specifications  
(Revised February 12, 2013)

## **I - Introduction**

1. The *in-car digital video system (ICDVS)* is used to gather evidence for criminal prosecutions and to meet Canada's security and defence commitments. The *ICDVS* is required for operations in low threat, and tactical areas such as patrolling, special operations and peacekeeping. The *ICDVS* will be required progressively in various RCMP vehicles and deployed across Nova Scotia. The RCMP's audio and video policy is mandatory to retain all data for a minimum of two years<sup>1</sup> subsequent to its original *capture*.
2. The purpose of the *ICDVS* is to *capture* audio and video of activities inside and in front of police vehicles to which they are attached. The *ICDVS* footage is to provide evidence of interaction of members with stopped vehicles and occupants as well as with prisoners while occupying the back seat of the police vehicle. *ICDVS* consists of a recording device linked to two cameras and two microphones. *ICDVS* audio/video footage is *exported* from the unit physically to a *removable solid state storage media* or wirelessly to an *Active Storage* or *Archival Storage* system. The *removable solid state storage media* is handled as the original from which copies in suitable *format(s)* are made as required. If an *Active Storage* or *Archival Storage* system is used, an original and copies in suitable *format(s)* are made as required.
3. The police vehicles are consistently shrinking in size while their drivers are becoming busier with equipment with increased complexity and comprising a multitude of components. To address this situation, the RCMP is working towards establishing a suitable integrated solution for all in-car digital equipment.
4. Next generation of *ICDVS* has to work with RCMP in-car vehicle equipment currently in use and has to be interoperable with current RCMP server and platform standards. The hardware and software required for active and *archival storage* is not within the scope of this contract.

## **II - Functional and Technical Requirements**

1. The *ICDVS* functional and technical requirements presented in this document aim at defining the minimum performance criteria for the equipment while taking into consideration the best evidence

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<sup>1</sup> Section 4. (1) Privacy Regulations SOR/83-508: Personal information concerning an individual that has been used by a government institution for an administrative purpose shall be retained by the institution (a) for at least two years following the last time the personal information was used for an administrative purpose unless the individual consents to its disposal; and (b) where a request for access to the information has been received, until such time as the individual has had the opportunity to exercise all his rights under the (Privacy) Act.

"Administrative purpose" is defined as: in relation to the use of personal information about an individual, means the use of that information in a decision making process that directly affects that individual (Privacy Regulations SOR/83-508)

criteria set by the courts, the privacy concerns, as well as the health and safety of the vehicle occupants.

2. For the purpose of this specification, the definition of mandatory requirements shall be that all requirements prefaced by the words “**shall**”, “**must**”, “**is to**” and/or “**are to**” shall be mandatory and must be met in order for the bid to be considered technically compliant.
3. All proposed *ICDVS* **must** be in current production and generally available on the market (no beta test components will be considered).
4. This specification addresses three configurations, basic, enhanced and wire/wireless. The basic configuration includes cameras, recorder, microphones, monitor, controller, all necessary ancillary components, including *solid state removable storage media*, video management software *and diagnostic tools, if any*. The enhanced configuration includes cameras, recorder, microphones, all necessary ancillary components, including *removable solid state storage media*, video management software *and diagnostic tools, if any*, with or without monitor and controller but with an interface with the existing vehicle Mobile Data Terminal (*MDT*) (also called the Mobile Workstation System - *MWS*) to perform the *ICDVS* monitoring and controlling functions. The wire/wireless configuration is a wire/wireless *export* capability added to the equipment of the basic configuration and/or the enhanced configuration.
5. All *ICDVS* hardware iterations, basic, enhanced and wire/wireless configurations **must** be upgradable using the same cameras, recorder, microphones and ancillary equipment and/or software capabilities.

### III - Definitions

In this document, the terms in *italic* are defined as follow:

Active storage: a location or device (e.g. server) to which *DME* is *copied* from the in-vehicle recorder using any method

Archival storage: a location or device to which the *DME* is moved after a designated amount of time and where it resides for an extended period of time

Audio monitor: device for listening to live and recorded audio

Audit log: a collection of *metadata* intended to track audio/video events and system events, such as boot up, diagnostic failures or status changes

Authentication (1) the (Court) process of affirming that the data fairly and accurately represents what it purports to show; (2,a) a security measure designed to protect a communications system against acceptance of a fraudulent transmission or simulation by establishing the validity of a transmission, message or originator; (2,b) a means of identifying individuals and verifying their eligibility to receive specific categories of information; (2,c) evidence by proper signature or seal that a document is genuine and official; (2,d) in evasion and recovery operations, the process whereby the identity of an evader is confirmed; (2,e) a means of proving the origin of the evidence and that it has not subsequently been altered ( or, where alteration has occurred, that such alterations are properly identified); (2,f) the process of determining whether a recording or image is original, continuous, and free from unexplained alterations.

Back-seat camera: the *ICDVS* camera and lens assembly intended to be mounted in the vehicle to capture activities in the back-seat area

Backward compatible: able to function with previous versions

Capture: the process of producing or recording the *DME* from a natural event

Codec: a device/program capable of encoding and/or decoding digital data; *codecs* encode a stream or signal for transmission, storage or *encryption*, and decode it for viewing and listening

Conversion: the change of data format used to represent *DME*

Converted *DME*: the *DME* in a different data format than the original *format*

Copy: an accurate reproduction of information

Digital recorder: any device used to *record DME*

*DME*: Digital Multi Media Evidence; data representing audio *essence*, video *essence*, *metadata* and any other information attached to a digital file; see *converted DME*, *original DME*

Duplicate: an acceptably accurate and complete reproduction of all data objects independent of the physical media

Encryption: the process of coding data so that a specific code or key is required to restore the original data

Essence: sound and/or picture information, not including *metadata*

Export: to *copy* or move information from within a device or system to a physical or logical location outside that device or system. *ICDVS* export is first performed to acquire the *DME* recording on *removable solid state storage media* or wirelessly on *Active Storage* server. A subsequent export is performed to make digital bit-for-bit or converted working *copy(ies)*. Other export operations occur when *DME* is copied/moved between the *Active Storage* and the *Archival Storage* server.

Field of view (FOV): the horizontal angular extent of a scene imaged by the video camera; FOV depends on the focal length of the camera lens and the size of the camera's imager chip

Format: the specific structure for the data in a file

Front-facing camera: the *ICDVS* camera and lens assembly intended to be mounted in the front of the vehicle and be forward facing to *capture* activities in front of the vehicle

Hash function: a mathematical formula that generates a unique number based on the data in a file; the hash function is used to verify the data's integrity

In-car digital video security system (*ICDVS*): a system for recording *DME* to document events in and around a law enforcement vehicle

Integrity: (1) the *reliability* and accuracy of *DME* throughout its lifecycle; (2) the degree to which a system or component prevents degradation of, unauthorized access to or modification of the *DME*

Location: the location within the documentation provided by an Offeror where the information supporting the Offeror's compliance to the identified requirement can be verified

Manufacturer's Documentation Review: that the technical requirements identified in the table found at Annex A will be verified through the means of an official document from the *ICDVS* manufacturer and, where the requirements refer to a standard, a test report from an accredited laboratory or licensed professional engineer as applicable; Bidders are requested to identify where in there documentation the information relevant to each specific requirement compliance can be found (See location)

Metadata: data embedded within or associated with a file that describes information about, or related to, the file or its directory; this may include, but is not limited to, locations where the content is stored, dates, times, application-specific information and permissions, and system-related events. It is data about data

Native file format: the original form of a file; this usually refers to a file *format* associated with, and unique to, a specific software application program

Operators: in relation to the *ICDVS* in-vehicle equipment, the vehicle drivers or occupants normally activating/deactivating the equipment

Original *DME*: data recorded and retrieved to media in its *native file format* (i.e. first usable form)

Passive mode: an operating condition of the remote *wireless microphone* and transmitter when paired with the rest of the base unit but not transmitting audio data

Pixel: a picture element

Proprietary: a characteristic of a technique, technology or device owned and controlled by a company or other party and thereby only usable or adaptable as allowed by that party

Rear-facing camera: *ICDVS* camera and lens assembly intended to be installed at the back of the vehicle and be back-ward facing to *capture* activities at the back of the vehicle

Record: the process of writing *DME* to *recording media*

Recording media: any object to which *DME* is written and can be retrieved

Reliability: the extent to which a process can repeatedly produce the same effective output, with a central tendency and an acceptable dispersion, for consistent input settings; information from such a system is said to be reliable

Removable solid state storage media: any portable data storage device made from silicon microchips designed for removal from a system without disassembly of the system or the storage device; removable solid state storage such as memory cards (USB flash drives or thumb drives) stores data electronically instead of magnetically, as spinning hard drives or magnetic oxide tape do.

Wired microphone: *ICDVS* microphone intended to be installed within the law enforcement vehicle

Verification: the process of confirming the accuracy of any *copy* of the *DME* compared to the *original DME*; this process normally includes the application of a type of *hash function*

Video monitor: device for viewing live and *recorded* video

Wireless microphone: the *ICDVS* microphone, transmitter, battery and accessories (e.g. cords) intended to be worn by an officer

#### IV - Acronyms

In this document, the acronyms in *italic* are defined as follow:

DME: Digital Multimedia Evidence

FOV: Field of View

HF: High Frequency

*ICDVS*: In Car Digital Video System

MDT: Mobile Data Terminal

MWS: Mobile Workstation System

UHF: Ultra High Frequency

UL: Underwriter Laboratories Inc

VHF: Very High frequency

In-Car-Digital Video System (ICDVS)				Compliance Verification Method		Offeror can Provide Y/N
Functional Requirements	Technical requirements	Manufacturer Documentation				
		Review	Location (See definition)			
1. The ICDVS must be capable of being assembled into 3 different configurations (basic, enhanced and wire/wireless) and of being upgradable from one configuration to the other without changing the cameras, microphones, recorder and ancillary equipment.	a.	The ICDVS basic configuration <b>must</b> consist of one <i>front-facing camera</i> , one <i>back-seat camera</i> , one <i>wireless microphone</i> , one <i>wired microphone</i> , one controller, one <i>digital recorder</i> , one <i>video monitor</i> , one <i>audio monitor</i> with all the necessary ancillary components including the video management software and diagnostic tools, if any; and.	X			
	1)	The <i>video monitor</i> , the <i>audio monitor</i> and the controller may be combined into a single component	X			
	2)	The <i>back-seat camera</i> and the <i>wired microphone</i> can be combined in a single device	X			
	3)	The ICDVS basic configuration <b>must</b> provide audio/video recordings on removable solid state storage media	X			
	4)	The ICDVS basic configuration <b>must</b> be capable of operating a <i>rear-facing camera</i>	X			
	5)	The ICDVS <b>must</b> accommodate a second <i>wireless microphone</i> and its docking station	X			
	6)	The ICDVS <i>video monitor</i> <b>must</b> be a color monitor. The size of the ICDVS monitors other than those built into the rear-view mirror, <b>must</b> be a minimum of 20.32 cm (eight (8) inches) and a maximum of 27.9 cm (11 inches) measured diagonally including the frame around the display if any. This dimension is not to exceed 35.8 cm (14 inches) when the monitor, controller and recorder are combined in a system with a single component.	X			
	7)	The ICDVS <b>must</b> be capable of simultaneously recording a minimum of three video streams and a minimum of two audio streams. The <i>front-facing</i> and <i>rear-facing camera</i> video streams <b>are to</b> be associated with the audio streams from the <i>wireless microphones</i> and the related <i>metadata</i> . The <i>back-seat camera</i> video stream <b>is to</b> be associated with the audio stream from the <i>wired microphone</i> and the related <i>metadata</i> .	X			
	8)	Any upgrade/update of the ICDVS software <b>must</b> be backward compatible	X			
	b.	The ICDVS enhanced configuration <b>must</b> provide the same capabilities as the ICDVS basic configuration and satisfy the following criteria:	X			
	1)	The ICDVS enhanced configuration <b>must</b> include a Graphical User Interface (GUI) to operate with the existing vehicle <i>MD/TIMWS</i> to provide the full ICDVS control and viewing capability as defined in 1.b.2) and 1.b.3).	X			
	2)	The ICDVS Graphical User Interface (GUI) <b>must</b> be capable of operating on a wide range of computers including Panasonic Toughbook and General Dynamics Gobook equipped with Windows XP SP3 with Pentium 4m processor and 1024 MB RAM; Windows XP SP3 with Intel Core i5-2520M CPU @ 2.50GHZ with 4 GB RAM; and Windows 7 capable Pentium processor.	X			
	3)	The Offeror <b>shall</b> include in their proposal a technical document that makes reference to how the proposed ICDVS would allow a 3rd party Integrated Police Vehicle (IPV) system to control and display all of the features of the ICDVS. The technical document could include details such as: electrical signal interfaces, protocol definitions, the licenses necessary to integrate the equipment and license fees for the interface and protocol data.	X			
	4)	<b>(Rated)</b> The ICDVS enhanced configuration <b>should</b> operate without the controller and without the monitor of the basic configuration	X			



In-Car-Digital Video System (ICDVS)				Compliance Verification Method		Offorer can Provide Y/N
Functional Requirements	Technical requirements	Manufacturer Documentation	Location (See definition)	Review		
	c.	The ICDVS wire/wireless configuration <b>must</b> consist of <i>all the components and capabilities of the ICDVS basic or enhanced configuration</i> and <b>must</b> have the capability to wire/wirelessly export DME from the vehicle to the Active or Archival Storage server.		X		
	1)	The capability to wire/wirelessly export audio/video from the vehicle <b>is to be</b> upgraded/enabled in the <i>basic configuration and in the enhanced configuration</i>		X		
	2)	The <i>active storage</i> and the <i>archival storage</i> of ICDVS recordings <b>must</b> be interoperable with either of the following operating system standards: Windows 2008 R2 SP1 64 bit, Red Hat Linux 6.x and Novell SUSE Linux 11		X		
	d.	All ICDVS hardware and/or software iterations, basic, enhanced and wire/wireless configurations <b>must</b> be upgradable		X		
2.	The ICDVS <b>must</b> be able to <i>record</i> without the image being displayed or the sound being heard	a.	The ICDVS monitor <b>must</b> be capable of displaying a live picture from the system cameras when the system is on (even if recording is not in progress).	X		
		b.	The ICDVS audio/video monitor <b>must</b> include a system speaker to provide monitoring of live audio from the <i>wireless microphone</i> as well as of recorded sounds during the playback mode. The ICDVS <b>must</b> contain a readily accessible control to adjust the volume and enable and disable monitoring of live audio.	X		
3.	ICDVS <b>must</b> be capable of creating an audit trail of the system usage and of DME recordings	a.	The ICDVS <b>must</b> be capable of allowing operators to input information required for the <i>Audit Log not otherwise automatically captured by the system.</i> (See 3.c)	X		
		b.	The ICDVS video management software <b>must</b> be capable of <i>exporting metadata</i> along with audio/video recordings and creating an <i>Audit Log</i> in a readable format.	X		
		c.	When DME is wire/wirelessly exported, the ICDVS <i>Audit Log must</i> contain, as a minimum: 1) the identification of person or system receiving the export 2) the time and date of the export 3) the <i>verification</i> check performed and logged to validate the DME immediately prior to the DME is exported 4) the identification of the source of the DME (operator's name or vehicle identification).	X		
		d.	The ICDVS <i>Audit Log must</i> record system-level details and events at least each time status changes.	X		
		e.	(Rated) System-level details of the <i>Audit Log should</i> include: 1) the date and time of system-related event 2) the vehicle identification 3) the officer identification 4) the recording device information i. including manufacturer ii. model number 5) the hardware identification including manufacturer and model number 6) the software version 7) the system status change i. boot up ii. power on 8) the component status change indicators i. recording full ii. camera failure iii. microphone failure iv. system ready	X		

In-Car-Digital Video System (ICDVS)			Compliance Verification Method		Offeror can Provide Y/N
Functional Requirements	Technical requirements	Manufacturer Documentation			
		Review	Location (See definition)		
4. ICDVS in-vehicle removable solid state storage media <b>must</b> be protected against unauthorized removal from the recorder	a. The ICDVS in-vehicle removable solid state storage media <b>must</b> be secured using a mechanism that prevents unauthorized removal of the media from the recorder.	X			
	a. The ICDVS in-vehicle removable solid state storage media <b>must</b> be a commercially-available product of a non-proprietary format.	X			
	a. The ICDVS recording device <b>must</b> be capable of being physically mounted in the vehicle, following the ICDVS manufacturer's recommendations, to prevent removal without tools and deter theft of the device.	X			
5. ICDVS in-vehicle removable solid state storage media <b>must</b> be non-proprietary	b. The ICDVS recording device <b>must</b> be mountable in the vehicle cockpit (such as in a ceiling console, in a console between front seats or in the glove compartment) and in the trunk.	X			
	c. The ICDVS recording device <b>must</b> not exceed the following dimensions: width: 29.3 cm (11.5 inches), height: 10.16 cm (4 inch); depth: 26.67 cm (10.5 inches)	X			
	a. ICDVS items installed or located in the interior of the vehicle per the manufacturer's installation instructions and supplied hardware <b>must</b> remain in place during a reasonably foreseeable crash.	X			
6. ICDVS recorder <b>must</b> be protected against unauthorized removal.	b. Any ICDVS items installed in the interior of the vehicle <b>must</b> meet the requirements stated in Federal Motor Vehicle Safety Standard 201 (October 1, 2002) Occupant Protection in Interior Impact.	X			
	a. ICDVS exposed surfaces, corners, fasteners and controls that could be contacted by an occupant during a collision <b>must</b> be of a design that minimizes the potential for injury.	X			
	b. No ICDVS or components <b>must</b> be installed in any original vehicle manufacturer's designated airbag deployment zone.	X			
7. Once installed, ICDVS <b>must</b> not be a hazard during a reasonably foreseeable crash.	c. ICDVS manufacturers <b>must</b> provide the necessary brackets, mounting hardware and installation instructions that if followed properly, will ensure the vendor's equipment is installed in accordance with all appropriate Federal Motor Vehicle Safety Standard.	X			
	d. If the ICDVS <b>is to</b> be mounted overhead, the mounting bracket for the control panel <b>must</b> not require any holes or cuts to the interior headliner	X			
	e. If the ICDVS <b>is to</b> be mounted overhead, the ICDVS manufacturer <b>must</b> specify equipment-mounting locations in the installer's guide or owner's manual.	X			
8. In-vehicle ICDVS components <b>must</b> not be a potential for injury to vehicle occupants	a. All ICDVS controls and components <b>must</b> be located and designed to minimize driver distraction.	X			
	b. The ICDVS front-facing camera <b>must</b> be mounted in front of the rear view mirror without obstruction of driver's vision.	X			
	c. ICDVS control graphical user interface (GUI) <b>must</b> be designed and organized for ease of use to minimize officer workload.	X			
	d. The ICDVS control graphical user interface (GUI) <b>must</b> control cameras, microphones and recorder fully and individually.	X			
	e. ICDVS record button on the control graphical user interface (GUI) <b>must</b> be readily identifiable by size, color, location and/or other design features.	X			
	f. ICDVS record button on the controller <b>must</b> activate even if officers are wearing gloves.	X			
9. All in-vehicle ICDVS controls and components <b>must</b> minimize driver distraction and fatigue.					

In-Car-Digital Video System (ICDVS)				Compliance Verification Method		Offeror can Provide Y/N
Functional Requirements	Technical requirements	Manufacturer Documentation	Location (See definition)	Rev/few		
10. The in-vehicle ICDVS equipment, and any upgrade, <b>must</b> not adversely affect, or be adversely affected by, any other in vehicle RCMP electric and/or electronic system or component	g.	When installed in accordance with the manufacturer's instructions, ICDVS equipment <b>must</b> be located to minimize interference with the view of the driver.		X		
	h.	When installed in accordance with the manufacturer's instructions, ICDVS equipment <b>must</b> be located to minimize interference with the view of the front-seat passenger.		X		
	i.	ICDVS components <b>must</b> be illuminated for ready identification during period of darkness. Backlit controls are preferred. The illumination level <b>must</b> be controllable from bright to dark. The operator <b>must</b> have the ability to blackout the system on demand.		X		
	a.	The in car video system <b>must</b> not interfere with any electronic systems of the RCMP vehicles (i.e. siren controller, etc).		X		
	b.	The ICDVS must comply with the emission limits and labelling requirements set out in the Interference Causing Standard ICES-003, 'Digital Apparatus', published by Industry Canada. All devices tested must bear the appropriate labels indicating trade name, model number, and the words indicating Industry Canada ICES-003 compliance		X		
	c.	RCMP police vehicles utilize high powered mobile two-way radio transmitters as well as other transmitting communications devices. This high level of electromagnetic radio frequency energy has been known to affect the operation of electronics not designed with sufficient protection against external transmitting sources. The ICDVS system <b>must</b> maintain consistent audio/visual recording quality while subject to interference from the following sources: 1. High-powered radio frequency transmissions 2. Other radio frequency interference (including UHF, VHF, and HF transmitters) 3. Automobile alternator, ignition and electrical systems 4. Fan motors from automobile heaters and air conditioners 5. Other patrol vehicle electrical systems to include radios, emergency lights, sirens, mobile data computers, and speed measuring devices 6. High-voltage power line, traffic signals, neon signs, etc.		X		
	d.	When in operation, the ICDVS <b>must</b> not generate electromagnetic interference or radiation that interferes with communications within RCMP police vehicle.		X		
	e.	The police radio communications system is critical to RCMP operations, public and police officer safety. As such, it is imperative that any electronic devices installed or utilized in a police vehicle be designed such that any effects of radio frequency disturbances are eliminated or controlled so as not to interfere with police two-way radios or other sensitive electronic devices.  Protection <b>must</b> be provided within the following Industry Canada radio frequency bands used for two-way radio communications:  IC SRSP 500: 138 to 144 MHz and 148 to 174 MHz bands  IC SRSP 501: 406 to 430 MHz and 450 to 470 MHz bands  IC SRSP 502: 806 to 824 MHz and 851 to 869 MHz bands  IC SRSP 511: 768 to 776 MHz and 798 to 806 MHz bands		X		

In-Car-Digital Video System (ICDVS)				Compliance Verification Method		Offeror can Provide Y/N
Functional Requirements	Technical requirements	Manufacturer Documentation		Location (See definition)		
		Review				
11. The in-vehicle ICDVS <b>must</b> be compatible with the existing RCMP traffic radar units	a. The ICDV <b>must</b> to be capable of recording the target vehicle and the patrol car speeds <i>captured</i> by the following speed measuring devices used by the RCMP. 1. Stalker II SDR 2. Stalker SDR 3. Kustom Signals Eagle. 4. Kustom Signals CRS832 Conventional Mode (K-band) 5. Kustom Signals CRS833 Multi-Mode (K-band) Raptor PR-1 The Offeror <b>shall</b> make the necessary arrangements to work with the speed measuring device manufacturers and ensure that the Offeror's ICDVS properly interfaces the speed measuring devices.	X				
	12. The in-vehicle ICDVS equipment and components <b>must</b> operate under all the expected environmental conditions throughout Canada	a. The in-vehicle ICDVS equipment <b>must</b> operate within the range of temperatures between -30 and +50 degrees Celsius without the use of environmental control housing.  b. All ICDVS in-vehicle components <b>are to</b> meet successfully the following MIL-STD version 810-F and IP Standard. Test results from an accredited test laboratory or an accredited engineer demonstrating compliance to the 810-F and IP tests described below <b>must be</b> submitted with the technical offer: 1. Temperature (high and low) method 501.4, procedure I and II and 502.4 procedure I and II respectively 2. Humidity - method 507.4 (810-F) 3. Drop - Method 516.5 procedure IV (810-F) 4. Vibration - Method 514.5 procedure I, Category 24 (810-F) 5. Dust Resistance - method 510.4, Procedure I (810-F) or IP 54 Standard; and 6. Water resistance - method 506.4 Procedure III (810-F), or IP 54 Standard	X			
13. The in-vehicle ICDVS components <b>must</b> be designed and installed in a manner that minimizes the potential for shock, fire hazards and damage from electrical power	a. All ICDVS electrical equipment supplied under the contract <b>must</b> be certified or approved for use in accordance with the Canadian Electrical Code Part 1 prior to delivery, by an agency accredited by the Standards Council of Canada. Systems <b>must</b> bear the certification logo that is applicable to the accredited agency. Current accredited agencies include, but are not limited to: <ul style="list-style-type: none"><li>- Canadian Standard association (CSA);</li><li>- Underwriters' Laboratory Inc (cUL) (cULus);</li><li>- Underwriters' Laboratories of Canada (ULC);</li><li>- Entela Canada (cEntela);</li><li>- Intertek Testing Services (cETL);</li><li>- Met Laboratories (cMET);</li><li>- OMNI Environmental Services Inc (cOTL)</li></ul>	X				
	b. The ICDVS <b>must</b> filter and regulate its power source and be protected against short-circuit. The voltage supplied to the system <b>must</b> meet the manufacturer's specifications and not to vary with fluctuations of the system's electrical system voltage between 10.5 and 18 volts. The ICDVS <b>must</b> draw no more than 4 amps at 12 volts while operating 1 <i>front-facing camera</i> , 1 <i>rear-facing camera</i> , 1 <i>back-seat camera</i> and microphone, 2 <i>wireless microphones</i> , 1 <i>audio/video monitor</i> , 1 controller and 1 recorder.	X				
	c. ICDVS equipment <b>must</b> be properly fused to minimize shock and fire hazard.	X				
	d. All ICDVS wiring <b>must</b> meet applicable industry standards.	X				
e. All ICDVS <b>must</b> be properly grounded using the same industry standards as above and, if necessary due to the presence of hazardous voltage or amperage levels, <b>must</b> be equipped with ground fault interrupters to prevent shock and electrocution hazards	X					

In-Car-Digital Video System (ICDVS)				Compliance Verification Method		Offeror can Provide Y/N
Functional Requirements	Technical requirements	Manufacturer Documentation				
		Review	Location (See definition)			
	f. ICDVS manufacturers <b>must</b> provide information in their installer's guides or owners' manuals that specifies the proper wiring, fuses, connectors, and connection points with the vehicle electrical system and grounding points.	X				
	g. The ICDVS <b>must</b> be protected from damage due to input of voltage, reverse polarity and electrical transients that may be encountered.	X				
	h. Loss of operating power or disconnection from the vehicle battery up to 60 hours <b>must</b> not result in the ICDVS requiring programming. Sudden ICDVS loss of power <b>must</b> not cause loss of any DME not yet exported from the ICDVS.	X				
14. The ICDVS front-facing and rear-facing cameras <b>must</b> be small in size and capture colour images under most street/highway lighting conditions	a. ICDVS front-facing and rear-facing cameras (including the lens but not the cabling) <b>must</b> not exceed 570 grams (20 ounces) in weight and <b>must</b> not exceed the following dimensions: 8.9 cm (3.5 inches) in width, 8.9 cm (3.5 inches) in height and 16.5 cm (6.5 inches) in depth.	X				
	b. ICDVS recordings from the front-facing and rear-facing cameras <b>must</b> be capable of ensuring the legibility of license plates at a minimum of 4.8 m (16 feet) from the cameras.	X				
	c. ICDVS front-facing and rear-facing cameras <b>must</b> be capable of providing a usable image with a minimum illumination of 1 lux	X				
	d. The ICDVS front-facing and rear-facing cameras and lens <b>must</b> be equipped with autofocus, re-focus, automatic exposure, and automatic white balance.	X				
	e. The ICDVS front-facing and rear-facing cameras <b>must</b> provide both automatic and manual focus capabilities which are operator selectable.	X				
	f. ICDVS front-facing and rear-facing cameras <b>must</b> have a backlight setting that reduces glare and bleed over from outside lighting.	X				
	g. ICDVS front-facing and rear-facing cameras lens <b>must</b> have a minimum of 10X optical zoom lens and 4X digital zoom.	X				
15. The ICDVS front-facing and rear-facing cameras <b>must</b> capture interaction between the officer and the driver and occupants inside or near a stopped vehicle located in front of the car/camera	a. The ICDVS front-facing and rear-facing cameras <b>must</b> provide a minimum field of view of at least 40 degrees with all optional zoom settings at the full wide angle view.					
16. The ICDVS front-facing and rear-facing cameras direction <b>must</b> be manually adjustable	a. The ICDVS front-facing and rear-facing cameras <b>must</b> be capable of being rotated 360° on their mounts in a horizontal plane or 180° in either direction from its forward-facing position without having to loosen any screws or knobs. The camera position is not to shift position without intentional intervention from the operator.	X				
17. The ICDVS back-seat camera <b>must</b> cover sufficient field of view to capture activities in the back-seat area	a. The ICDVS back-seat camera <b>must</b> be able to provide a focused image with a field of view of a maximum of 127 cm (50 inches) at an object distance of a maximum of 76.2 cm (30 inches) with infrared capabilities.	X				
	b. The ICDVS back-seat camera <b>must</b> have a signal-to-noise ratio of a minimum of 46db.	X				
18. The ICDVS components <b>must</b> be designed in a manner to minimize injury to the operator	a. Each ICDVS primary and secondary battery <b>must</b> comply with UL 1642, Lithium Batteries and/or UL 2054, Household and Commercial Batteries	X				
	b. Any ICDVS component carried on the officer's person <b>must</b> meet Underwriters Laboratories Standards for shock/electrocution and burn prevention.	X				

In-Car-Digital Video System (ICDVS)			Compliance Verification Method		Officer can Provide Y/N
Functional Requirements	Technical requirements	Manufacturer Documentation			
		Review	Location (See definition)		
19. The ICDVS wireless microphones <b>must</b> ensure remote recording operation while the members are interacting with conductors/occupants of stopped vehicles during a normal shift	c.	Any ICDVS component worn or carried by the officer <b>must</b> be smooth construction properly rounded or chamfered to minimize the possibility of injury. The ICDVS components <b>must</b> be free of sharp points or edges that could cause injury during a fight, slip, fall, or other type of incident. In addition, all ICDVS clips and retention devices <b>must</b> be designed to minimize the possibility of pinch points that could cause injury.	X		
	d.	ICDVS parts that can come into contact with human skin <b>must</b> not be allowed to reach a temperature capable of causing a burn injury. Items carried on the officer's person or uniform <b>must</b> not pose an undue risk of injury.	X		
	a.	The wireless microphones <b>must</b> be equipped with a clip or other device to allow the microphone to be placed anywhere on the officer's uniform.	X		
	b.	The ICDVS <b>must</b> incorporate a remote wireless microphone and transmitter in a device to be worn by the officer.	X		
	c.	Each wireless microphone transmitter <b>must</b> be equipped with an in-vehicle docking station which synchronized the operating transmitter frequency to the mobile video system and recharge the wireless microphone batteries. Once programmed the receiver <b>must</b> only accept audio from that transmitter without any manual configuration by the operator.	X		
	d.	The ICDVS wireless microphones <b>must</b> contain a memory-free rechargeable battery that may be replaced by the operator with commonly accessible tools. The rechargeable battery <b>must</b> have a minimum battery-life of 12 hours (passive mode) and a talk time of 3.5 hours (active mode).	X		
	e.	The ICDVS wireless microphone/transmitter assembly and wireless network export devices <b>must</b> transmit within frequency bands approved by Industry Canada (Spectrum Management)	X		
	f.	The ICDVS wireless microphone and transmitter assembly <b>must</b> transmit intelligible audio to the vehicle-mounted recorder and monitor at a range of 300 meters (1,000 feet), line of sight under unobstructed conditions and with no interference.	X		
	g.	The ICDVS wireless microphone and transmitter assembly <b>must</b> be able to activate audio and video recording from the remote transmitter.	X		
	h.	The ICDVS wireless microphone transmitter <b>must</b> contain an internal antenna.	X		
	i.	The omnidirectional ICDVS wireless microphones <b>must</b> be capable of capturing sounds greater than or equal to 50 dB sound pressure level at a distance of one meter within the frequency range of 200 to 4,000 Hz to the minus six dB points while at the same time the audio recording <b>must</b> not be overdriven by the operator's speech. The audio recording <b>must</b> be in an uncompressed format (minimum 8 bit µ-law, 8 KHz sampling).	X		
	j.	The wireless microphones <b>must</b> be able to automatically turn on when the recording device is activated and off when the recording device is deactivated.	X		
	k.	When recording, the audio from the wireless microphone(s) <b>must</b> be synchronized with the video from the front-facing camera and from the rear-facing camera if installed	X		
	l.	The audio transmitted from the wireless microphones <b>must</b> be through digital transmission protocol such as Digital Spread Spectrum (DSS), Frequency Hopping Spread Spectrum (FHSS), Octagonal Frequency Division Multiplexing (OFDM) and the equipment <b>shall</b> provide no noticeable distortion of the signal or emphasis or de-emphasis of frequency within the frequency range captured.	X		
20. The ICDVS must	a.	The ICDVS <b>must</b> incorporate a wired microphone mounted in the vehicle.	X		



In-Car-Digital Video System (ICDVS)				Compliance Verification Method		Offeror can Provide Y/N
Functional Requirements	Technical requirements	Manufacturer Documentation	Rev/new	Location (See definition)		
21. The in-vehicle ICDVS <b>must</b> provide adequate controls and indicators	include a <i>wired microphone</i> to ensure in-vehicle recording operation while the back seat is occupied	b. The audio from the <i>wired microphone</i> <b>must</b> be synchronized with the video from the <i>back-seat camera</i>	X			
		c. The ICDVS <i>wired microphone</i> <b>must</b> be capable of capturing sounds greater than or equal to 50 dB sound pressure level at a distance of one meter within the frequency range of 200 to 4,000 Hz to the minus six dB points while at the same time the audio recording <b>must</b> not be overdriven by the monitored persons' speech. The audio recording <b>must</b> be in an uncompressed <i>format</i> (minimum 8 bit μ-law, 8 KHz sampling).	X			
		a. The ICDVS controller <b>must</b> provide the following controls: 1. Power on/off 2. Play 3. <i>Record</i> start 4. Fast forward 5. Rewind 6. Stop 7. Pause 8. Zoom in/out 9. Autofocus 10. Backlight compensation 11. Manual focus 12. Camera selection	X			
		b. The ICDVS <b>must</b> provide the following indicators: 1. System Power on 2. Microphone on 3. Media inserted and operational with remaining capacity/time available 4. Recording 5. Fast forward 6. Rewind 7. Stop 8. Time counter 9. Diagnostic display showing results (see item d below). 10. Wireless microphone reception 11. Wireless microphone record activation status.	X			
		c. The ICDVS <b>must</b> perform a diagnostic to detect malfunction or loss of functionality of the recorder, cameras and display. The diagnostic <b>must</b> be performed on system start up and periodically thereafter. Any malfunction or loss of functionality of the recorder, cameras and display <b>must</b> be documented in the <i>system audit log</i> .	X			
		d. <b>(Rated)</b> The ICDVS <b>should</b> perform a diagnostic to detect malfunction or loss of functionality of microphones on system start up and periodically thereafter.	X			
22. The ICDVS is to display system-		e. <b>(Rated)</b> Any ICDVS malfunction or loss of functionality of the recorder, cameras, display and microphones should be indicated to the operator immediately.	X			
		f. The ICDVS <b>must</b> provide the following minimum media diagnostics: 1. Indicate the amount of storage space remaining on the media; and 2. Send a notification to the operator (audible/visual) that storage is reaching its maximum capacity.	X			
		a. The ICDVS in-vehicle equipment <b>must</b> have the capability to display in real-time the date/time.	X			

In-Car-Digital Video System (ICDVS)			Compliance Verification Method		Offorer can Provide Y/N
Functional Requirements	relevant information	Technical requirements	Manufacturer Documentation		
			Review	Location (See definition)	
		b. <b>(Rated)</b> The <i>ICDVS</i> in-vehicle equipment <b>should</b> have the capability to selectively display in real-time the operator or vehicle identification information and system status indicators (video recording on/off, microphone(s) on/off), target and patrol speeds from RCMP radar systems).	X		
		c. The <i>ICDVS</i> in-vehicle equipment <b>must</b> have the capability to display during playback the date/time of <i>DME</i> creation <i>captured</i> in the <i>metadata</i> and not superimposed onto, added to, or be embedded in the video stored on the recording.	X		
		d. <b>(Rated)</b> The <i>ICDVS</i> in-vehicle equipment <b>should</b> have the capability to selectively display during playback such items <i>captured</i> in the <i>metadata</i> and not superimposed onto, added to, or embedded in the video stored on the recording such as the operator or vehicle identification information, emergency light indication, siren indication, brake indication, crash indication, system status indicators (video recording on/off, microphone(s) on/off), target and patrol speeds from RCMP radar systems).	X		
		e. The <i>ICDVS</i> video management software <b>must</b> have the capability to display during playback the date/time of <i>DME</i> creation <i>captured</i> in the <i>metadata</i> and not superimposed onto, added to, or be embedded in the video stored on the recording.	X		
		f. <b>(Rated)</b> The <i>ICDVS</i> video management software <b>should</b> have the capability to selectively display during playback such items <i>captured</i> in the <i>metadata</i> and not superimposed onto, added to, or embedded in the video stored on the recording such as the operator or vehicle identification information, emergency light indication, siren indication, brake indication, crash indication, system status indicators (video recording on/off, microphone(s) on/off), target and patrol speeds from RCMP radar systems) and <i>Audit log</i> .	X		
		g. The displayed items <i>captured</i> in the <i>ICDVS metadata must</i> not overwrite image information.	X		
		23. The in-vehicle <i>ICDVS must</i> be capable of pre-event and post event recording		a. The <i>ICDVS</i> recorder <b>must</b> be capable of storing at least 60 seconds of pre-event video prior to being activated. b. <b>(Rated)</b> The extent of duration of the <i>ICDVS</i> pre-event video prior to recorder being activated <b>should</b> only be programmable by the system administrator c. The <i>ICDVS must</i> have the capability of disabling the audio <i>capture</i> while continuing to <i>capture</i> the remaining <i>DME</i> items. a. The <i>ICDVS</i> recording functions <b>must</b> be activated by any of the following methods: 1. Operator pushes the "record" button 2. Activation of the emergency lights and/or sirens 3. Operator activates the "record" button on the <i>wireless microphone</i> transmitter. 4. Activation on vehicle crash b. The automatic crash activation function <b>must</b> not be tied into any of the vehicle systems (i.e. air bags). a. The <i>ICDVS must</i> have the capability to restrict access to the critical programming functions (such as time/date features) to the system administrator. b. The <i>ICDVS must</i> have the capability of preventing the operator from erasing, altering, and/or recording over previously recorded information from in-vehicle <i>ICDVS</i> components. c. The <i>ICDVS</i> user interfaces <b>must</b> prevent the input of invalid data that exceeds the systems expected ranges. d. The <i>ICDVS must</i> provide a mechanism to <i>capture</i> the time and date of <i>DME</i> creation. e. Date/time generator <b>must</b> be self-adjusting for daylight saving time and leap years variance.	X
24. The in-vehicle <i>ICDVS must</i> have automatic recording triggers			X		
25. The in-vehicle <i>ICDVS must</i> include adequate controls to ensure integrity of <i>DME</i> from capture to storage			X		



In-Car-Digital Video System (ICDVS)				Compliance Verification Method		Offeror can Provide Y/N
Functional Requirements	Technical requirements	Manufacturer Documentation		Location (See definition)		
		Review				
	f.	The recorder <b>must</b> provide a continuous synchronized time reference for the video	X			
	g.	Time reference of the <i>ICDVS DME</i> elements (video, audio, <i>metadata</i> ) <b>must</b> be consistent within all system components.	X			
	h.	The <i>ICDVS</i> <b>must</b> automatically set the correct time and date following interruption of power.	X			
	i.	The <i>ICDVS</i> <b>must</b> incorporate an automatic trigger to stop recording when previously recorded <i>DME</i> will be overwritten and immediately notify the operator.	X			
	j.	All elements of the <i>ICDVS DME</i> <b>must</b> remain accurate with respect of the recording as it was <i>captured</i> .	X			
	k.	The <i>ICDVS</i> recording device <b>must</b> indicate when <i>removable solid state storage media</i> is not inserted into the recorder.	X			
	l.	The <i>ICDVS</i> Recorder, the <i>Active Storage</i> , and <i>Archival Storage</i> Systems clocks <b>must</b> be capable of being synchronized to an external time reference.	X			
	m.	Recorders <b>must</b> have backup power to maintain time/date in power loss for a minimum period of 30 days.	X			
	n.	Recorders <b>must</b> have programmable daylight/standard time and leap years adjustments.	X			
	27.	The <i>ICDVS</i> in-vehicle audio/video recording device <b>must</b> have adequate storage capacity to meet operational requirements	a.	The <i>ICDVS</i> <b>must</b> be capable of minimum recording 12 uninterrupted hours at a minimum frame rate equivalent of 30 ± 2% frames per second per camera.	X	
28.	The <i>ICDVS</i> recording device/software <b>must</b> allow case management	a.	The <i>ICDVS</i> program <b>must</b> allow the recording device to store all data relevant to each incident together: 1) An incident <b>must</b> be defined as the period between the start and the stop recording 2) Data <b>must</b> be filed in a Windows-readable directory structure 3) Different incidents <b>must</b> be stored in separate files or directories 4) Truncated recordings <b>must</b> be playable as one contiguous footage by the video management software 5) Data <b>must</b> be stored on a <i>removable solid state storage media</i> and to be wirelessly exportable to <i>active storage</i> .	X		
		b.	The <i>ICDVS</i> video management program <b>must</b> allow case management on <i>Active Storage</i> and on Archival storage on small, medium and large computers	X		
		c.	The video management program <b>must</b> allow for: 1. Indexing/searching by officer ID (or car ID), time and date, case file/occurrence number 2. assigning/modifying and monitoring purge due date 3. automatically purging records reaching due date	X		
29.	The <i>ICDVS</i> recording file formats <b>must</b> be	a.	The <i>ICDVS</i> <b>must</b> provide the <i>original DME</i> files. The <i>DME</i> files <b>must</b> include all <i>metadata</i> in an accessible format.	X		

In-Car-Digital Video System (ICDVS)				Compliance Verification Method		Offeror can Provide Y/N
Functional Requirements	Technical requirements	Manufacturer Documentation				
		Review	Location (See definition)			
suitable for evidence and post processing by the RCMP	b.	Unless the original <i>format</i> provided by the ICDVS is in a Windows Media Player compatible <i>format</i> that is viewable and playable without the need for <i>proprietary</i> codecs, players, or viewers available from only the system manufacturer, the ICDVS video management software <b>must</b> provide two interoperable <i>formats</i> of the DME (images, sounds, <i>metadata</i> and <i>DME Audit Log</i> ): original (non-converted) DME and converted DME. The converted DME <b>must</b> be in a Windows Media Player compatible <i>format</i> that is viewable and playable without the need for <i>proprietary</i> codecs, players, or viewers available from only the system manufacturer. If the DME file is converted to be compatible with Windows Media Player, the DME file is to consist of the video and audio file and superimposed data, if any. All additional data from the converted DME file captured in a separate metadata file or Audit Log is to be viewable in a non-proprietary text reader such as Windows WordPad or Notepad.	X			
	c.	The ICDVS <i>conversion</i> mechanism, when used, <b>must</b> provide an accurate representation of the images, sounds and <i>metadata</i> recorded.	X			
	d.	If the ICDVS provides the original recording in a non-converted <i>format</i> , the Offeror <b>must</b> provide the non-converted <i>format</i> player license free	X			
	30. The ICDVS <b>must</b> include adequate controls to ensure authentication and integrity of DME during wire/wireless data export	a.	During a wire/wireless data export, particularly following communication interruptions, the system <b>must</b> ensure that the DME on the ICDVS <i>Active Storage</i> is an exact duplicate to any data on the recorder prior to the information being deleted from the recorder.	X		
	b.	A wire/wireless network used to export the DME from the ICDVS recorder to <i>Active Storage</i> <b>must</b> create a secure connection for the DME to be exported using the following security standards: 1. Customized network name 2. Disabled SSID/ESSID (Network name) broadcast; 3. WPA2 AES 128 bit encryption 4. Authentication PSK ( <i>Pre Shared Key</i> )	X			
31. The updating/upgrading of ICDVS to be user-friendly	c.	(Rated) A wire/wireless network used to export the DME from the ICDVS recorder to <i>Active Storage</i> <b>should</b> create a secure connection for the DME to be exported using IEEE - 802.11G or better	X			
	a.	The updating/upgrading of ICDVS <b>must</b> not require a connection to Internet	X			
32. User guide and installation manuals <b>must</b> be supplied	b.	The updating/upgrading of ICDVS <b>must</b> be intuitive and achievable by system operators having limited computer knowledge	X			
	a.	User guide and installation manuals <b>must</b> be supplied with each ICDVS	X			
	b.	All manuals supplied <b>must</b> be professionally written and produced	X			
	c.	All manual supplied <b>must</b> be of commercial print quality	X			
	d.	All manuals are in digital <i>format</i> , either online or on removable media	X			
33. Individual ICDVS components <b>must</b> be available for purchase	e.	All manuals <b>shall</b> be provided in English.	X			
	a.	ICDVS components that are used or operated as separate units <b>must</b> be individually available for purchase. Such components include:	X			
	1.	front-facing/rear-facing cameras	X			
	2.	front-facing camera mount	X			
	3.	rear-facing camera mount	X			
	4.	rear-facing camera wiring and cabling	X			
	5.	back-seat cameras	X			
6.	back-seat camera microphones (if not built in the back-seat cameras)	X				

In-Car-Digital Video System (ICDVS)				Compliance Verification Method		Offeror can Provide Y/N
Functional Requirements		Technical requirements		Manufacturer Documentation		
				Review	Location (See definition)	
		7. wireless microphones	X			
		8. wireless microphones batteries	X			
		9. wireless microphone docking stations	X			
		10. controllers	X			
		11. audio-video monitors	X			
		12. digital recorders	X			
		13. removable solid state storage media	X			
		14. hardware/software and wiring/cabling to interface with the MDT/MWS	X			
		15. Cabling for interfacing ICDVS and the following speed measuring devices used by the RCMP:	X			
		i) Stalker II SDR	X			
		ii) Stalker SDR	X			
		iii) Kustom Signals Eagle	X			
		iv) Kustom Signals CRS832 Conventional Mode (K-band)	X			
		v) Kustom Signals CRS833 Multi-Mode (K-band) Raptor PR-1	X			
34. a. All equipment must be able to be installed in vehicles by a third party without affecting vendor warranty. (All equipment will be installed according to manufacturer specifications/recommendations.)	X					

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**MANDATORY REQUIREMENTS**

It is understood by the parties submitting offers that to be considered valid, an offer **MUST** meet all of the following mandatory requirements. Proposals must be supported by proper and adequate detail, particularly where supporting evidence is required by a mandatory item. Those not meeting all of these mandatory requirements will be given no further consideration.

**ATTENTION BIDDERS: WRITE BESIDE THE CRITERIA BELOW THE RELEVANT LOCATION FROM YOUR PROPOSAL WHICH ADDRESSES THE ISSUE.**

<b><u>Mandatory Specifications:</u></b>		<b>LOCATION</b>	<b>FOR EVALUATION PURPOSES</b>	
			<b>MET</b>	<b>NOT MET</b> <b>COMMENTS</b>
1	The <i>ICD/VS</i> <b>must</b> be capable of being assembled into 3 different configurations (basic, enhanced and wire/wireless) and of being upgradeable from one configuration to the other without changing the cameras, microphones, recorder and ancillary equipment.			
	a. The <i>ICD/VS</i> basic configuration <b>must</b> consist of one <i>front-facing camera</i> , one <i>back-seat camera</i> , one <i>wireless microphone</i> , one <i>wired microphone</i> , one controller, one <i>digital recorder</i> , one <i>video monitor</i> , one <i>audio monitor</i> with <i>all the necessary ancillary components including the video management software and diagnostic tools, if any; and.</i>			
	1) The <i>video monitor</i> , the <i>audio monitor</i> and the controller may be combined into a single component			
	2) The <i>back-seat camera</i> and the <i>wired microphone</i> can be combined in a single device			
	3) The <i>ICD/VS</i> basic configuration <b>must</b> provide audio/video recordings on <i>removable solid state storage media</i>			
	4) The <i>ICD/VS</i> basic configuration <b>must</b> be capable of operating a <i>rear-facing camera</i>			
	5) The <i>ICD/VS</i> <b>must</b> accommodate a second <i>wireless microphone</i> and its docking station			
	6) The <i>ICD/VS video monitor</i> <b>must</b> be a color monitor. The size			

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	of the <i>ICDVS</i> monitors other than those built into the rear-view mirror, <b>must</b> be a minimum of 20.32 cm (eight (8) inches) and a maximum of 27.9 cm (11 inches) measured diagonally including the frame around the display if any. This dimension is not to exceed 35.8 cm (14 inches) when the monitor, controller and recorder are combined in a system with a single component.				
	7) The <i>ICDVS</i> <b>must</b> be capable of simultaneously recording a minimum of three video streams and a minimum of two audio streams. The <i>front-facing</i> and <i>rear-facing camera</i> video streams <b>are to</b> be associated with the audio streams from the <i>wireless microphones</i> and the related <i>metadata</i> . The <i>back-seat camera</i> video stream <b>is to</b> be associated with the audio stream from the <i>wired microphone</i> and the related <i>metadata</i> .				
	8) Any upgrade/update of the <i>ICDVS</i> software <b>must</b> be backward compatible				
	b. The <i>ICDVS</i> enhanced configuration <b>must</b> provide the same <i>capabilities as the ICDVS basic configuration</i> and satisfy the following criteria:				
	1) The <i>ICDVS</i> enhanced configuration <b>must</b> include a Graphical User Interface (GUI) to operate with the existing vehicle <i>MDT/MWS</i> to provide the full <i>ICDVS</i> control and viewing capability as defined in 1.b.2) and 1.b.3).				
	2) The <i>ICDVS</i> Graphical User Interface (GUI) <b>must</b> be capable of operating on a wide range of computers including Panasonic Toughbook and General Dynamics Gobook equipped with Windows XP SP3 with Pentium 4m processor and 1024 MB RAM; Windows XP SP3 with Intel Core i5-2520M CPU @ 2.50GHZ with 4 GB RAM; and Windows 7 capable Pentium processor.				
	3) The Offeror <b>shall</b> include in their proposal a technical document that makes reference to how the proposed <i>ICDVS</i> would allow a 3rd party Integrated Police Vehicle (IPV) system to control and display all of the features of the <i>ICDVS</i> .				

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	The technical document could include details such as: electrical signal interfaces, protocol definitions, the licenses necessary to integrate the equipment and license fees for the interface and protocol data.				
	c. The ICDVS wire/wireless configuration <b>must</b> consist of <i>all the components and capabilities of the ICDVS basic or enhanced configuration and must have the capability to wire/wirelessly export DME from the vehicle to the Active or Archival Storage server.</i>				
	1) <i>The capability to wire/wirelessly export audio/video from the vehicle <b>is to</b> be upgraded/enabled in the basic configuration and in the enhanced configuration</i>				
	2) <i>The active storage and the archival storage of ICDVS recordings <b>must</b> be interoperable with either of the following operating system standards: Windows 2008 R2 SP1 64 bit, Red Hat Linux 6.x and Novell SUSE Linux 11</i>				
	d. All ICDVS hardware and/or software iterations, basic, enhanced and wire/wireless configurations <b>must</b> be upgradable				
2	The ICDVS <b>must</b> be able to <i>record</i> without the image being displayed or the sound being heard				
	a. The ICDVS monitor <b>must</b> be capable of displaying a live picture from the system cameras when the system is on (even if recording is not in progress).				
	b. The ICDVS audio/video monitor <b>must</b> include a system speaker to provide monitoring of live audio from the <i>wireless microphone</i> as well as of recorded sounds during the playback mode. The ICDVS <b>must</b> contain a readily accessible control to adjust the volume and enable and disable monitoring of live audio.				
3	ICDVS <b>must</b> be capable of creating an audit trail of the system usage and of DME recordings				
	a. The ICDVS <b>must</b> be capable of allowing operators to input information required for the <i>Audit Log not otherwise automatically captured by the system.</i> (See 3,c)				

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	b. The <i>ICDVS</i> video management software <b>must</b> be capable of <i>exporting metadata</i> along with audio/video recordings and creating an <i>Audit Log</i> in a readable format.				
	c. When <i>DME</i> is wirelessly <i>exported</i> , the <i>ICDVS Audit Log</i> <b>must</b> contain, as a minimum: 1) the identification of person or system receiving the <i>export</i> 2) the time and date of the <i>export</i> 3) the <i>verification</i> check performed and logged to validate the <i>DME</i> is <i>exported</i> 4) the identification of the source of the <i>DME</i> (operator's name or vehicle identification).				
	d. The <i>ICDVS Audit Log</i> <b>must</b> record system-level details and events at least each time status changes.				
4	<i>ICDVS</i> in-vehicle <i>removable solid state storage media</i> <b>must</b> be protected against unauthorized removal from the recorder				
	a. The <i>ICDVS</i> in-vehicle <i>removable solid state storage media</i> <b>must</b> be secured using a mechanism that prevents unauthorized removal of the media from the recorder.				
5	<i>ICDVS</i> in-vehicle <i>removable solid state storage media</i> <b>must</b> be non-proprietary				
	a. The <i>ICDVS</i> in-vehicle <i>removable solid state storage media</i> <b>must</b> be a commercially-available product of a non-proprietary format.				
6	<i>ICDVS</i> recorder <b>must</b> be protected against unauthorized removal.				
	a. The <i>ICDVS</i> recording device <b>must</b> be capable of being physically mounted in the vehicle, following the <i>ICDVS</i> manufacturer's recommendations, to prevent removal without tools and deter theft of the device.				
	b. The <i>ICDVS</i> recording device <b>must</b> be mountable in the vehicle cockpit (such as in a ceiling console, in a console between front seats or in the glove compartment) and in the trunk.				
	c. The <i>ICDVS</i> recording device <b>must</b> not exceed the following dimensions: width: 29.3 cm (11.5 inches), height: 10.16 cm (4				



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	inch); depth: 26.67 cm (10.5 inches)				
7	Once installed, <i>ICDVS</i> <b>must</b> not be a hazard during a reasonably foreseeable crash.				
	a. <i>ICDVS</i> items installed or located in the interior of the vehicle per the manufacturer's installation instructions and supplied hardware <b>must</b> remain in place during a reasonably foreseeable crash.				
	b. Any <i>ICDVS</i> items installed in the interior of the vehicle <b>must</b> meet the requirements stated in Federal Motor Vehicle Safety Standard 201 (October 1, 2002) Occupant Protection in Interior Impact.				
8	In-vehicle <i>ICDVS</i> components <b>must</b> not be a potential for injury to vehicle occupants				
	a. <i>ICDVS</i> exposed surfaces, corners, fasteners and controls that could be contacted by an occupant during a collision <b>must</b> be of a design that minimizes the potential for injury.				
	b. No <i>ICDVS</i> or components <b>must</b> be installed in any original vehicle manufacturer's designated airbag deployment zone.				
	c. <i>ICDVS</i> manufacturers <b>must</b> provide the necessary brackets, mounting hardware and installation instructions that if followed properly, will ensure the vendor's equipment is installed in accordance with all appropriate Federal Motor Vehicle Safety Standard.				
	d. If the <i>ICDVS</i> <b>is to</b> be mounted overhead, the mounting bracket for the control panel <b>must</b> not require any holes or cuts to the interior headliner				
	e. If the <i>ICDVS</i> <b>is to</b> be mounted overhead, the <i>ICDVS</i> manufacturer <b>must</b> specify equipment-mounting locations in the installer's guide or owner's manual.				
9	All in-vehicle <i>ICDVS</i> controls and components <b>must</b> minimize driver distraction and fatigue.				
	a. All <i>ICDVS</i> controls and components <b>must</b> be located and designed to minimize driver distraction.				
	b. The <i>ICDVS front-facing</i> camera <b>must</b> be mounted in front of the				



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	rear view mirror without obstruction of driver's vision.				
	c. <i>ICDVS</i> control graphical user interface (GUI) <b>must</b> be designed and organized for ease of use to minimize officer workload.				
	d. The <i>ICDVS</i> control graphical user interface (GUI) <b>must</b> control cameras, microphones and recorder fully and individually.				
	e. <i>ICDVS record</i> button on the control graphical user interface (GUI) <b>must</b> be readily identifiable by size, color, location and/or other design features.				
	f. <i>ICVDS record</i> button on the controller <b>must</b> activate even if officers are wearing gloves.				
	g. When installed in accordance with the manufacturer's instructions, <i>ICDVS</i> equipment <b>must</b> be located to minimize interference with the view of the driver.				
	h. When installed in accordance with the manufacturer's instructions, <i>ICDVS</i> equipment <b>must</b> be located to minimize interference with the view of the front-seat passenger.				
	i. <i>ICDVS</i> components <b>must</b> be illuminated for ready identification during period of darkness. Backlit controls are preferred. The illumination level <b>must</b> be controllable from bright to dark. The operator <b>must</b> have the ability to blackout the system on demand.				
10	The in-vehicle <i>ICDVS</i> equipment, and any upgrade, <b>must</b> not adversely affect, or be adversely affected by, any other in vehicle RCMP electric and/or electronic system or component				
	a. The in car video system <b>must</b> not interfere with any electronic systems of the RCMP vehicles (i.e. siren controller, etc).				
	b. The <i>ICDVS</i> must comply with the emission limits and labelling requirements set out in the Interference Causing Standard ICES-003, 'Digital Apparatus', published by Industry Canada. All devices tested must bear the appropriate labels indicating trade name, model number, and the words indicating Industry Canada ICES-003 compliance				
	c. RCMP police vehicles utilize high powered mobile two-way radio transmitters as well as other transmitting communications de-				

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	<p>vices. This high level of electromagnetic radio frequency energy has been known to affect the operation of electronics not designed with sufficient protection against external transmitting sources. The <i>ICDVS</i> system <b>must</b> maintain consistent audio/visual recording quality while subject to interference from the following sources:</p> <ol style="list-style-type: none"> <li>1. High-powered radio frequency transmissions</li> <li>2. Other radio frequency interference (including <i>UHF</i>, <i>VHF</i>, and <i>HF</i> transmitters)</li> <li>3. Automobile alternator, ignition and electrical systems</li> <li>4. Fan motors from automobile heaters and air conditioners</li> <li>5. Other patrol vehicle electrical systems to include radios, emergency lights, sirens, mobile data computers, and speed measuring devices</li> <li>6. High-voltage power line, traffic signals, neon signs, etc.</li> </ol>				
	<p>d. When in operation, the <i>ICDVS</i> <b>must</b> not generate electromagnetic interference or radiation that interferes with communications within RCMP police vehicle.</p>				
	<p>e. The police radio communications system is critical to RCMP operations, public and police officer safety. As such, it is imperative that any electronic devices installed or utilized in a police vehicle be designed such that any effects of radio frequency disturbances are eliminated or controlled so as not to interfere with police two-way radios or other sensitive electronic devices.</p> <p>Protection <b>must</b> be provided within the following Industry Canada radio frequency bands used for two-way radio communications:</p> <p>IC SRSP 500: 138 to 144 MHz and 148 to 174 MHz bands</p> <p>IC SRSP 501: 406 to 430 MHz and 450 to 470 MHz bands</p> <p>IC SRSP 502: 806 to 824 MHz and 851 to 869 MHz</p>				

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	bands					
11	IC SRSP 511: 768 to 776 MHz and 798 to 806 MHz bands The in-vehicle <i>ICDVS</i> <b>must</b> be compatible with the existing RCMP traffic radar units					
	<p>a. The ICDV <b>must</b> to be capable of recording the target vehicle and the patrol car speeds <i>captured</i> by the following speed measuring devices used by the RCMP.</p> <ol style="list-style-type: none"> <li>1. Stalker II SDR</li> <li>2. Stalker SDR</li> <li>3. Kustom Signals Eagle.</li> <li>4. Kustom Signals CRS832 Conventional Mode (K-band)</li> <li>5. Kustom Signals CRS833 Multi-Mode (K-band) Raptor PR-I</li> </ol> <p>The Offeror <b>shall</b> make the necessary arrangements to work with the speed measuring device manufacturers and ensure that the Offeror's <i>ICDVS</i> properly interfaces the speed measuring devices.</p>					
12	The in-vehicle <i>ICDVS</i> equipment and components <b>must</b> operate under all the expected environmental conditions throughout Canada					
	<p>a. The in-vehicle <i>ICDVS</i> equipment <b>must</b> operate within the range of temperatures between -30 and +50 degrees Celsius without the use of environmental control housing.</p>					
	<p>b. All <i>ICDVS</i> in-vehicle components <b>are to</b> meet successfully the following MIL-STD version 810-F and IP Standard. Test results from an accredited test laboratory or an accredited engineer demonstrating compliance to the 810-F and IP tests described below <b>must</b> be submitted with the technical offer:</p> <ol style="list-style-type: none"> <li>1. Temperature (high and low) method 501.4, procedure I and II and 502.4 procedure I and II respectively</li> <li>2. Humidity - method 507.4 (810-F)</li> <li>3. Drop - Method 516.5 procedure IV (810-F)</li> <li>4. Vibration - Method 514.5 procedure I, Category 24 (810-F)</li> <li>5. Dust Resistance - method 510.4, Procedure I (810-F) or IP 54 Standard; and</li> <li>6. Water resistance - method 506.4 Procedure III (810-F). or IP</li> </ol>					

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	54 Standard					
13	The in-vehicle <i>ICD/VS</i> components <b>must</b> be designed and installed in a manner that minimizes the potential for shock, fire hazards and damage from electrical power					
	<p>a. All <i>ICD/VS</i> electrical equipment supplied under the contract <b>must</b> be certified or approved for use in accordance with the Canadian Electrical Code Part 1 prior to delivery, by an agency accredited by the Standards Council of Canada. Systems <b>must</b> bear the certification logo that is applicable to the accredited agency. Current accredited agencies include, but are not limited to:</p> <ul style="list-style-type: none"> <li>- Canadian Standard association (CSA);</li> <li>- Underwriters' Laboratory Inc (cUL) (cULus);</li> <li>- Underwriters' Laboratories of Canada (ULC);</li> <li>- Entela Canada (cEntela);</li> <li>- Intertek Testing Services (cETL);</li> <li>- Met Laboratories (cMET);</li> <li>- OMNI Environmental Services Inc (cOTL)</li> </ul>					
	<p>b. The <i>ICD/VS</i> <b>must</b> filter and regulate its power source and be protected against short-circuit. The voltage supplied to the system <b>must</b> meet the manufacturer's specifications and not to vary with fluctuations of the system's electrical system voltage between 10.5 and 18 volts. The <i>ICD/VS</i> <b>must</b> draw no more than 4 amps at 12 volts while operating 1 <i>front-facing camera</i>, 1 <i>rear-facing camera</i>, 1 <i>back-seat camera</i> and microphone, 2 <i>wireless microphones</i>, 1 audio/video monitor, 1 controller and 1 recorder.</p>					
	c. <i>ICD/VS</i> equipment <b>must</b> be properly fused to minimize shock and fire hazard.					
	d. All <i>ICD/VS</i> wiring <b>must</b> meet applicable industry standards.					
	e. All <i>ICD/VS</i> <b>must</b> be properly grounded using the same industry standards as above and, if necessary due to the presence of hazardous voltage or amperage levels, <b>must</b> be equipped with ground fault interrupters to prevent shock and electrocution hazards					
	f. <i>ICD/VS</i> manufacturers <b>must</b> provide information in their in-					

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	staller's guides or owners' manuals that specifies the proper wiring, fuses, connectors, and connection points with the vehicle electrical system and grounding points.				
	g. The <i>ICDVS</i> <b>must</b> be protected from damage due to input of voltage, reverse polarity and electrical transients that may be encountered.				
	h. Loss of operating power or disconnection from the vehicle battery up to 60 hours <b>must</b> not result in the <i>ICDVS</i> requiring programming. Sudden <i>ICDVS</i> loss of power <b>must</b> not cause loss of any <i>DME</i> not yet exported from the <i>ICDVS</i> .				
14	The <i>ICDVS front-facing</i> and <i>rear-facing cameras</i> <b>must</b> be small in size and <i>capture</i> colour images under most street/highway lighting conditions				
	a. <i>ICDVS front-facing</i> and <i>rear-facing cameras</i> (including the lens but not the cabling) <b>must</b> not exceed 570 grams (20 ounces) in weight and <b>must</b> not exceed the following dimensions: 8.9 cm (3.5 inches) in width, 8.9 cm (3.5 inches) in height and 16.5 cm (6.5 inches) in depth.				
	b. <i>ICDVS</i> recordings from the <i>front-facing</i> and <i>rear-facing cameras</i> <b>must</b> be capable of ensuring the legibility of license plates at a minimum of 4.8 m (16 feet) from the cameras.				
	c. <i>ICDVS front-facing</i> and <i>rear-facing cameras</i> <b>must</b> be capable of providing a usable image with a minimum illumination of 1 lux				
	d. The <i>ICDVS front-facing</i> and <i>rear-facing cameras</i> and lens <b>must</b> be equipped with autofocus, re-focus, automatic exposure, and automatic white balance.				
	e. The <i>ICDVS front-facing</i> and <i>rear-facing cameras</i> <b>must</b> provide both automatic and manual focus capabilities which are operator selectable.				
	f. <i>ICDVS front-facing</i> and <i>rear-facing cameras</i> <b>must</b> have a backlight setting that reduces glare and bleed over from outside lighting.				
	g. <i>ICDVS front-facing</i> and <i>rear-facing cameras</i> lens <b>must</b> have a minimum of 10X optical zoom lens and 4X digital zoom.				

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15	The <i>ICDVS front-facing</i> and <i>rear-facing cameras must capture</i> interaction between the officer and the driver and occupants in-side or near a stopped vehicle located in front of the car/camera				
	a. The <i>ICDVS front-facing</i> and <i>rear-facing cameras must</i> provide a minimum <i>field of view</i> of at least 40 degrees with all optional zoom settings at the full wide angle view.				
16	The <i>ICDVS front-facing</i> and <i>rear-facing cameras direction must</i> be manually adjustable				
	a. The <i>ICDVS front-facing</i> and <i>rear-facing cameras must</i> be capable of being rotated 360° on their mounts in a horizontal plane or 180° in either direction from its forward-facing position without having to loosen any screws or knobs. The camera position is not to shift position without intentional intervention from the operator.				
17	The <i>ICDVS back-seat camera must</i> cover sufficient <i>field of view</i> to <i>capture</i> activities in the back-seat area				
	a. The <i>ICDVS back-seat camera must</i> be able to provide a focused image with a <i>field of view</i> of a maximum of 127 cm (50 inches) at an object distance of a maximum of 76.2 cm (30 inches) with infrared capabilities.				
	b. The <i>ICDVS back-seat camera must</i> have a signal-to-noise ratio of a minimum of 46db.				
18	The <i>ICDVS</i> components <b>must</b> be designed in a manner to minimize injury to the operator				
	a. Each <i>ICDVS</i> primary and secondary battery <b>must</b> comply with <i>UL 1642</i> , Lithium Batteries and/or <i>UL 2054</i> , Household and Commercial Batteries				
	b. Any <i>ICDVS</i> component carried on the officer's person <b>must</b> meet Underwriters Laboratories Standards for shock/electrocution and burn prevention.				
	c. Any <i>ICDVS</i> component worn or carried by the officer <b>must</b> be smooth construction properly rounded or chamfered to minimize the possibility of injury. The <i>ICDVS</i> components <b>must</b> be free of sharp points or edges that could cause injury during a fight, slip,				

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	fall, or other type of incident. In addition, all <i>ICDVS</i> clips and retention devices <b>must</b> be designed to minimize the possibility of pinch points that could cause injury.				
	d. <i>ICDVS</i> parts that can come into contact with human skin <b>must</b> not be allowed to reach a temperature capable of causing a burn injury. Items carried on the officer's person or uniform <b>must</b> not pose an undue risk of injury.				
19	The <i>ICDVS wireless microphones must</i> ensure remote recording operation while the members are interacting with conductors/occupants of stopped vehicles during a normal shift				
	a. The <i>wireless microphones must</i> be equipped with a clip or other device to allow the microphone to be placed anywhere on the officer's uniform.				
	b. The <i>ICDVS must</i> incorporate a remote <i>wireless microphone</i> and transmitter in a device to be worn by the officer.				
	c. Each <i>wireless microphone</i> transmitter <b>must</b> be equipped with an in-vehicle docking station which synchronized the operating transmitter frequency to the mobile video system and recharge the <i>wireless microphone</i> batteries. Once programmed the receiver <b>must</b> only accept audio from that transmitter without any manual configuration by the operator.				
	d. The <i>ICDVS wireless microphones must</i> contain a memory-free rechargeable battery that may be replaced by the operator with commonly accessible tools, The rechargeable battery <b>must</b> have a minimum battery-life of 12 hours ( <i>passive mode</i> ) and a talk time of 3.5 hours (active mode).				
	e. The <i>ICDVS wireless microphone/transmitter</i> assembly and wireless network <i>export</i> devices <b>must</b> transmit within frequency bands approved by Industry Canada (Spectrum Management)				
	f. The <i>ICDVS wireless microphone</i> and transmitter assembly <b>must</b> transmit intelligible audio to the vehicle-mounted recorder and monitor at a range of 300 meters (1,000 feet), line of sight under unobstructed conditions and with no interference.				

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	g. The <i>ICDVS wireless microphone</i> and transmitter assembly <b>must</b> be able to activate audio and video recording from the remote transmitter.				
	h. The <i>ICDVS wireless microphone</i> transmitter <b>must</b> contain an internal antenna.				
	i. The omnidirectional <i>ICDVS wireless microphones</i> <b>must</b> be capable of capturing sounds greater than or equal to 50 dB sound pressure level at a distance of one meter within the frequency range of 200 to 4,000 Hz to the minus six dB points while at the same time the audio recording <b>must</b> not be overdriven by the operator's speech. The audio recording <b>must</b> be in an uncompressed <i>format</i> (minimum 8 bit $\mu$ -law, 8 KHz sampling).				
	j. The <i>wireless microphones</i> <b>must</b> be able to automatically turn on when the recording device is activated and off when the recording device is deactivated.				
	k. When recording, the audio from the <i>wireless microphone(s)</i> <b>must</b> be synchronized with the video from the <i>front-facing camera</i> and from the <i>rear-facing camera</i> if installed				
	l. The audio transmitted from the <i>wireless microphones</i> <b>must</b> be through digital transmission protocol such as Digital Spread Spectrum (DSS), Frequency Hopping Spread Spectrum (FHSS), Octagonal Frequency Division Multiplexing (OFDM) and the equipment <b>shall</b> provide no noticeable distortion of the signal or emphasis or de-emphasis of frequency within the frequency range <i>captured</i> .				
20	The <i>ICDVS</i> must include a <i>wired microphone</i> to ensure in-vehicle recording operation while the back seat is occupied				
	a. The <i>ICDVS</i> <b>must</b> incorporate a <i>wired microphone</i> mounted in the vehicle.				
	b. The audio from the <i>wired microphone</i> <b>must</b> be synchronized with the video from the <i>back-seat camera</i>				
	c. The <i>ICDVS wired microphone</i> <b>must</b> be capable of capturing sounds greater than or equal to 50 dB sound pressure level at a distance of one meter within the frequency range of 200 to 4,000				

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	Hz to the minus six dB points while at the same time the audio recording <b>must</b> not be overdriven by the monitored persons' speech. The audio recording <b>must</b> be in an uncompressed <i>format</i> (minimum 8 bit $\mu$ -law, 8 KHz sampling).				
21	The in-vehicle <i>ICDVS</i> <b>must</b> provide adequate controls and indicators				
	<p>a. The <i>ICDVS</i> controller <b>must</b> provide the following controls:</p> <ol style="list-style-type: none"> <li>1. Power on/off</li> <li>2. Play</li> <li>3. <i>Record</i> start</li> <li>4. Fast forward</li> <li>5. Rewind</li> <li>6. Stop</li> <li>7. Pause</li> <li>8. Zoom in/out</li> <li>9. Autofocus</li> <li>10. Backlight compensation</li> <li>11. Manual focus</li> <li>12. Camera selection</li> </ol>				
	<p>b. The <i>ICDVS</i> <b>must</b> provide the following indicators:</p> <ol style="list-style-type: none"> <li>1. System Power on</li> <li>2. Microphone on</li> <li>3. Media inserted and operational with remaining capacity/time available</li> <li>4. Recording</li> <li>5. Fast forward</li> <li>6. Rewind</li> <li>7. Stop</li> <li>8. Time counter</li> <li>9. Diagnostic display showing results (see item d below).</li> <li>10. <i>Wireless microphone</i> reception</li> <li>11. <i>Wireless microphone record</i> activation status.</li> </ol>				
	<p>c. The <i>ICDVS</i> <b>must</b> perform a diagnostic to detect malfunction or loss of functionality of the recorder, cameras and display. The di-</p>				

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	agnostic <b>must</b> be performed on system start up and periodically thereafter. Any malfunction or loss of functionality of the recorder, cameras and display <b>must</b> be documented in the <i>system audit log</i> .				
	f. The <i>ICDVS</i> <b>must</b> provide the following minimum media diagnostics: 1. Indicate the amount of storage space remaining on the media; and 2. Send a notification to the operator (audible/visual) that storage is reaching its maximum capacity.				
22	The <i>ICDVS</i> <b>is to</b> display system-relevant information				
	a. The <i>ICDVS</i> in-vehicle equipment <b>must</b> have the capability to display in real-time the date/time.				
	c. The <i>ICDVS</i> in-vehicle equipment <b>must</b> have the capability to display during playback the date/time of <i>DME</i> creation <i>captured</i> in the <i>metadata</i> and not superimposed onto, added to, or be embedded in the video stored on the recording.				
	e. The <i>ICDVS</i> video management software <b>must</b> have the capability to display during playback the date/time of <i>DME</i> creation <i>captured</i> in the <i>metadata</i> and not superimposed onto, added to, or be embedded in the video stored on the recording.				
	g. The displayed items <i>captured</i> in the <i>ICDVS metadata</i> <b>must</b> not overwrite image information.				
23	The in-vehicle <i>ICDVS</i> <b>must</b> be capable of pre-event and post event recording				
	a. The <i>ICDVS</i> recorder <b>must</b> be capable of storing at least 60 seconds of pre-event video prior to being activated.				
	c. The <i>ICDVS</i> <b>must</b> have the capability of disabling the audio <i>capture</i> while continuing to <i>capture</i> the remaining <i>DME</i> items.				
24	The in-vehicle <i>ICDVS</i> <b>must</b> have automatic recording triggers				
	a. The <i>ICDVS</i> recording functions <b>must</b> be activated by any of the following methods: 1. Operator pushes the “ <i>record</i> ” button				

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	2. Activation of the emergency lights and/or sirens				
	3. Operator activates the “ <i>record</i> ” button on the <i>wireless microphone</i> transmitter.				
	4. Activation on vehicle crash				
	b. The automatic crash activation function <b>must</b> not be tied into any of the vehicle systems (i.e. air bags).				
25	The in-vehicle <i>ICDVS</i> <b>must</b> include adequate controls to ensure <i>integrity</i> of <i>DME</i> from <i>capture</i> to storage				
	a. The <i>ICDVS</i> <b>must</b> have the capability to restrict access to the critical programming functions (such as time/date features) to the system administrator.				
	b. The <i>ICDVS</i> <b>must</b> have the capability of preventing the operator from erasing, altering, and/or recording over previously recorded information from in-vehicle <i>ICDVS</i> components.				
	c. The <i>ICDVS</i> user interfaces <b>must</b> prevent the input of invalid data that exceeds the systems expected ranges.				
	d. The <i>ICDVS</i> <b>must</b> provide a mechanism to <i>capture</i> the time and date of <i>DME</i> creation.				
	e. Date/time generator <b>must</b> be self-adjusting for daylight saving time and leap years variance.				
	f. The recorder <b>must</b> provide a continuous synchronized time reference for the video				
	g. Time reference of the <i>ICDVS DME</i> elements (video, audio, <i>meta-data</i> ) <b>must</b> be consistent within all system components.				
	h. The <i>ICDVS</i> <b>must</b> automatically set the correct time and date following interruption of power.				
	i. The <i>ICDVS</i> <b>must</b> incorporate an automatic trigger to stop recording when previously recorded <i>DME</i> will be overwritten and immediately notify the operator.				
	j. All elements of the <i>ICDVS DME</i> <b>must</b> remain accurate with respect of the recording as it was <i>captured</i> .				
	k. The <i>ICDVS</i> recording device <b>must</b> indicate when <i>removable solid state storage media</i> is not inserted into the recorder.				

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	1. The <i>ICDVS</i> Recorder, the <i>Active Storage</i> , and <i>Archival Storage</i> Systems clocks <b>must</b> be capable of being synchronized to an external time reference.				
	m. Recorders <b>must</b> have backup power to maintain time/date in power loss for a minimum period of 30 days.				
	n. Recorders <b>must</b> have programmable daylight/standard time and leap years adjustments.				
27	The <i>ICDVS</i> in-vehicle audio/video recording device <b>must</b> have adequate storage capacity to meet operational requirements				
	a. The <i>ICDVS</i> <b>must</b> be capable of minimum recording 12 uninterrupted hours at a minimum frame rate equivalent of $30 \pm 2\%$ frames per second per camera.				
28	The <i>ICDVS</i> recording device/software <b>must</b> allow case management				
	a. The <i>ICDVS</i> program <b>must</b> allow the recording device to store all data relevant to each incident together: 1) An incident <b>must</b> be defined as the period between the start and the stop recording 2) Data <b>must</b> be filed in a Windows-readable directory structure 3) Different incidents <b>must</b> be stored in separate files or directories 4) Truncated recordings <b>must</b> be playable as one contiguous footage by the video management software 5) Data <b>must</b> be stored on a <i>removable solid state storage media</i> and to be wire/wirelessly exportable to <i>active storage</i> .				
	b. The <i>ICDVS</i> video management program <b>must</b> allow case management on <i>Active Storage</i> and on Archival storage on small, medium and large computers				
	c. The video management program <b>must</b> allow for: 1. Indexing/searching by officer ID (or car ID), time and date, case file/occurrence number 2. assigning/modifying and monitoring purge due date 3. automatically purging records reaching due date				

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29	The ICDVS recording file, <i>formats</i> <b>must</b> be suitable for evidence and post processing by the RCMP				
	a. The ICDVS <b>must</b> provide the <i>original DME</i> files. The DME files <b>must</b> include all <i>metadata</i> in an accessible <i>format</i> .				
	b. Unless the original <i>format</i> provided by the ICDVS is in a Windows Media Player compatible <i>format</i> that is viewable and playable without the need for <i>proprietary codecs</i> , players, or viewers available from only the system manufacturer, the ICDVS video management software <b>must</b> provide two interoperable <i>formats</i> of the DME (images, sounds, <i>metadata</i> and <i>DME Audit Log</i> ): original (non-converted) DME and converted DME. The converted DME <b>must</b> be in a Windows Media Player compatible <i>format</i> that is viewable and playable without the need for <i>proprietary codecs</i> , players, or viewers available from only the system manufacturer. If the DME file is converted to be compatible with Windows Media Player, the DME file is to consist of the video and audio file and superimposed data, if any. All additional data from the converted DME file captured in a separate <i>metadata</i> file or Audit Log is to be viewable in a non-proprietary text reader such as Windows WordPad or Notepad.				
	c. The ICDVS <i>conversion</i> mechanism, when used, <b>must</b> provide an accurate representation of the images, sounds and <i>metadata</i> recorded.				
	d. If the ICDVS provides the original recording in a non-converted <i>format</i> , the Offeror <b>must</b> provide the non-converted <i>format</i> player license free				
30	The ICDVS <b>must</b> include adequate controls to ensure <i>authentication</i> and <i>integrity</i> of DME during wire/wireless data <i>export</i>				
	a. During a wire/wireless data <i>export</i> , particularly following communication interruptions, the system <b>must</b> ensure that the DME on the ICDVS <i>Active Storage</i> is an exact <i>duplicate</i> to any data on the recorder prior to the information being deleted from the recorder.				
	b. A wire/wireless network used to <i>export</i> the DME from the ICDVS				

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	reorder to <i>Active Storage</i> <b>must</b> create a secure connection for the <i>DME</i> to be <i>exported</i> using the following security standards: 1. Customized network name 2. Disabled SSID/ESSID (Network name) broadcast; 3. WPA2 AES 128 bit <i>encryption</i> 4. <i>Authentication PSK (Pre Shared Key)</i>				
31	The updating/upgrading of <i>ICDVS</i> to be user- friendly				
	a. The updating/upgrading of <i>ICDVS</i> <b>must</b> not require a connection to Internet				
	b. The updating/upgrading of <i>ICDVS</i> <b>must</b> be intuitive and achievable by system <i>operators</i> having limited computer knowledge				
32	User guide and installation manuals <b>must</b> be supplied				
	a. User guide and installation manuals <b>must</b> be supplied with each <i>ICDVS</i>				
	b. All manuals supplied <b>must</b> be professionally written and produced				
	c. All manual supplied <b>must</b> be of commercial print quality				
	d. All manuals are in digital <i>format</i> , either online or on removable media				
	e. All manuals <b>shall</b> be provided in English.				
33	Individual <i>ICDVS</i> components <b>must</b> be available for purchase				
	a. <i>ICDVS</i> components that are used or operated as separate units <b>must</b> be individually available for purchase. Such components include:				
	1. front-facing/ <i>rear-facing cameras</i>				
	2. front-facing camera mount				
	3. rear-facing camera mount				
	4. rear-facing camera wiring and cabling				
	5. <i>back-seat cameras</i>				
	6. <i>back-seat camera microphones</i> (if not built in the <i>back-seat cameras</i> )				

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	7. wireless microphones				
	8. wireless microphones batteries				
	9. wireless microphone docking stations				
	10. controllers				
	11. audio-video monitors				
	12. digital recorders				
	13. removable solid state storage media				
	14. hardware/software and wiring/cabling to interface with the MDT/MWS				
	15. Cabling for interfacing ICDVS and the following speed measuring devices used by the RCMP:				
	i) Stalker II SDR				
	ii) Stalker SDR				
	iii) Kustom Signals Eagle				
	iv) Kustom Signals CRS832 Conventional Mode (K-band)				
	v) Kustom Signals CRS833 Multi-Mode (K-band) Raptor PR-1				
34	Installation				
	a. All equipment must be able to be installed in vehicles by a third party without affecting vendor warranty. (All equipment will be installed according to manufacturer specifications/recommendations.)				

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**POINT RATED REQUIREMENTS**

In addition to meeting all of the mandatory requirements, the technical proposal will be evaluated on the basis of the following. The proposal must obtain 85 points overall out of the maximum score of a possible 170 points in order to be deemed responsive.

**ATTENTION BIDDERS: WRITE BESIDE THE CRITERIA BELOW THE RELEVANT LOCATION FROM YOUR PROPOSAL WHICH ADDRESSES THE ISSUE.**

Point Rated Specifications (Maximum 170 points, minimum 85 points)		LOCATION	FOR EVALUATION PURPOSES	
			SCORE	COMMENTS
1b4	The <i>ICDVS</i> enhanced configuration <b>should</b> operate without the controller and without the monitor of the basic configuration.  Maximum Score: 2 points			
3e	System-level details of the <i>Audit Log</i> <b>should</b> include: 1) the date and time of system-related event 2) the vehicle identification 3) the officer identification 4) the recording device information i. including manufacturer ii. model number 5) the hardware identification including manufacturer and model number 6) the software version 7) the system status change i. boot up ii. power on 8) the component status change indicators i. recording full ii. camera failure iii. microphone failure iv. system ready  Maximum Score: 40 points			

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Point Rated Specifications (Maximum 170 points, minimum 85 points)		LOCATION	FOR EVALUATION PURPOSES	
			SCORE	COMMENTS
21d	The <i>ICDVS</i> <b>should</b> perform a diagnostic to detect malfunction or loss of functionality of microphones on system start up and periodically thereafter.  Maximum Score: 3 points			
21e	Any <i>ICDVS</i> malfunction or loss of functionality of the recorder, cameras, display and microphones should be indicated to the operator immediately.  Maximum Score: 20 points			
22b	The <i>ICDVS</i> in-vehicle equipment <b>should</b> have the capability to selectively display in real-time the operator or vehicle identification information and system status indicators (video recording on/off, microphone(s) on/off), target and patrol speeds from RCMP radar systems).  Maximum Score: 20 points			
22d	The <i>ICDVS</i> in-vehicle equipment <b>should</b> have the capability to selectively display during playback such items <i>captured</i> in the <i>metadata</i> and not superimposed onto, added to, or embedded in the video stored on the recording such as the operator or vehicle identification information, emergency light indication, siren indication, brake indication, crash indication, system status indicators (video recording on/off, microphone(s) on/off), target and patrol speeds from RCMP radar systems).  Maximum Score: 20 points			
22f	The <i>ICDVS</i> video management software <b>should</b> have the capability to selectively display during playback such items <i>captured</i> in the <i>metadata</i> and not superimposed onto, added to, or embedded in the video stored			

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Point Rated Specifications (Maximum 170 points, minimum 85 points)		LOCATION	FOR EVALUATION PURPOSES	
			SCORE	COMMENTS
	on the recording such as the operator or vehicle identification information, emergency light indication, siren indication, brake indication, crash indication, system status indicators (video recording on/off, microphone(s) on/off), target and patrol speeds from RCMP radar systems) and <i>Audit log</i> . Maximum Score: 55 points			
23b	The extent of duration of the <i>ICDVS</i> pre-event video prior to recorder being activated <b>should</b> only be programmable by the system administrator. Maximum Score: 5 points			
30c	A wire/wireless network used to <i>export</i> the <i>DME</i> from the <i>ICDVS</i> recorder to <i>Active Storage</i> <b>should</b> create a secure connection for the <i>DME</i> to be <i>exported</i> using <i>IEEE - 802.11G</i> or <i>better</i> . Maximum Score: 5 points			