Getac

BWC BC-03
User Guide

Contents

Chapter 0: Revision History

Title		Getac BWC BC-03 User Guide	
Rev	Date	Description	
V1.0	2018/08/30	Initiation version.	
V1.1	2018/12/05		
V1.2	2019/01/23		

Chapter 1: Unpacking

✧ Standard Package

Item	Description	Outlook	Quantity
1	BWC BC-03 Body-Worn Camera		1

✧ Optional Accessories

Item	Description	Outlook	Quantity
1	Chest Mount		
2	Molle Mount		
3	Pocket Mount		
4	Chest Clip		
5	Epaulette Clip		
6	Charging Dock		
7	Magnetic Mount		
8	Swivel Clip		
9	Breakaway Cable		

Chapter 2: System Architecture

2.1. Getac Video Solution components
- BWC BC-03
- BWC VD-03
- BWC MD-03
- Enterprise Server

HYBRID

CLOUD

YOUR SERVER

4G LTE

IRSA Light
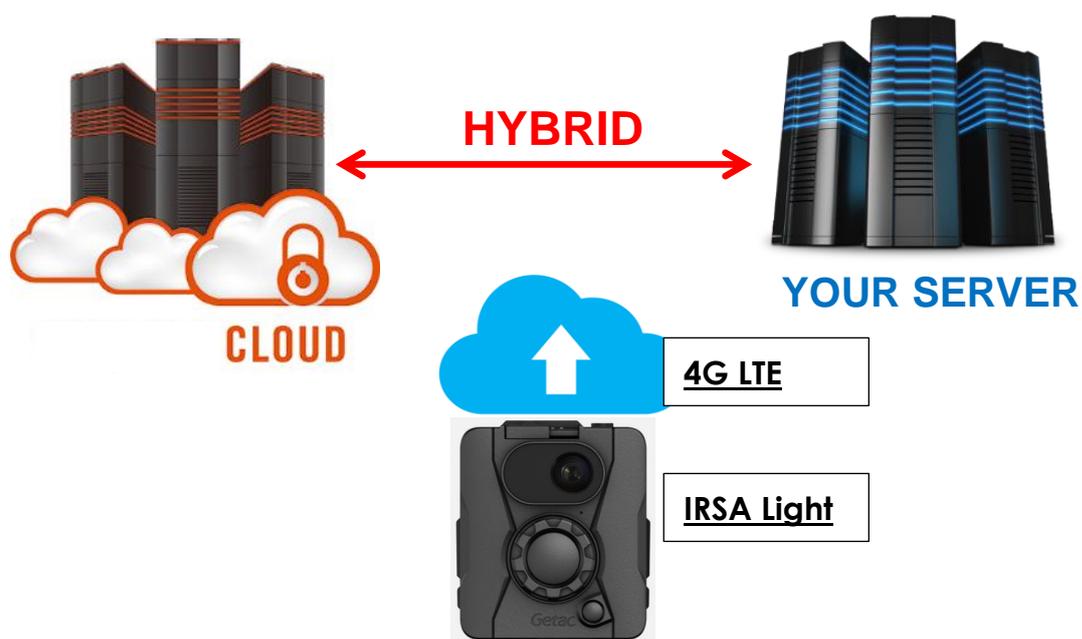
2.2. What is Getac BWC solution?

In the wake of recent years of police controversy as well as subsequent protests, there has been a call to mandate the use of Body Worn Cameras to promote Accountability and Transparency. Getac Video solution helps police officers automatically recording, data offloading and view media evidence and secure it.

BWC is a video recording system that is typically utilized by law enforcement to record their interactions with the public or gather video evidence at crime scenes, and has been known to increase both officer and citizen accountability.

If the video is being sent to the Enterprise Server (Intranet), it is immediately uploaded directly from the BWC to Enterprise server. If the video is being transferred to the Azure, the data is temporarily stored at the Network Attached Storage till there is adequate bandwidth to upload.

BWCs Office docks can be centralized and mounted on the wall for more efficient use of space. Simple LED Indicators on the BWC allows for quick status recognition for express check in/out.

Chapter 3: System Requirement

3.1. Operating System.

Operating System	Version	Supported	Remark
Win7	64bit	Yes	
Win10	64bit	Yes	

3.2. System Requirement

	Item	Specification	Remark
1	CPU	Intel Core i3 or i5 above	
2	Memory	4.00 GB	
3	Disk		
4	Software		

Chapter 4: System Specification

4.1. BWC BC-03 Hardware Specifications

Item	Specification	Remark
Dimension	83.7 X 73 x 21 mm	
Weight	180g	
RAM	8Gb	
eMMC	64GB; Built-In	
Lens FOV	140 degree(H)	
Wireless - WIFI	802.11 b/g/n/ac	
Wireless - Bluetooth	BLE	
LTE	Cat-4	
GPS	Yes	
Slide Switch	Normal/Covert	
Video Categorize	64 Category	
Mark Button	Save "Mark" into Metadata file	
Power/RF Button	Yes	
Resolution	1920x1080/30FPS 1280x720/30FPS 768x432/30FPS	
File Format	.MP4	
Operation Temp.	-20 ~ 50 degree C	
Drop	1.8 meter	
IP Rating	IP67	
FCC	Yes	
CE	Yes	
IC	Yes	
RoHS	Yes	
LTE	Yes	

4.2. BWC VD-03 Hardware Specifications

Product Name		Getac VD-03
Vehicle mounting function		Support pass-through holes on backside and bottom side for "vertical installation".
Vehicle dock function		Support BWC B3 for battery charging(both still & moving states) in "vertical" installation
Office dock function		Support BWC B3 for battery charging on office table docking in "vertical direction"
I/O Port		Ethernet Port * 1(10/100Mb) DC Jack * 1
AC Adapter		12V, 2A, 24W
Warranty		Standard 1 year, extendable for 2nd & 3rd year.
Operation Temp.		-20~50 degree C; battery charging temp > 0°C, <40°C
Humidity		5% to 95%
Vibration test (non OP)		MIL-STD-810G Fig. 514.6 E-1
Storage Temp.		-40~70 degree C
Dock/Undock		Support 10,000 times life
Status Indicator		Support Green LED, "On" = power-connected, "Off" = power-disconnected.
Regulation		FCC, CE
ID and label		Getac Logo printing & rating label.

Chapter 5: System Operation

5.1. BWC Operation

Charging LED
Status LED

Mode Switch
(Normal/Covert)

Microphone

Wheel Switch

On/Off Button;
WIFI Wake-up

No.	Description
❶	On/Off Button: Wi-Fi wake-up supported
❷	Microphone
❸	Power Status LED
❹	Camera Status LED
❺	Mode Switch (Normal/Covert)
❻	HD Camera Lens
❼	Wheel Switch
❽	Main Button (Start/Stop/Mark/Confirm)
❾	Speaker
❿	Dock Connector: Connects to the charging dock.
⑪	Interlocking Grooves: Fit the tongues of the Getac mount and clip.

5.2. BWC Button Function

	Key	Function	Remark
1	Power Button	To power on/off body worn camera	
2	Power Button	To wake up Wi-Fi forcedly	
3	Main Button	To start/stop recording	
4	Main Button	To confirm categorize operation & mark	

5.2.1. LED

Please refer to 5.3.

5.2.2. Microphone

For audio recording purpose.

5.2.3. On/Off Button

Press power button one time to boot BWC. Press power button 10 seconds to shutdown BWC.

5.2.4. Mode Switch

Normal mode and Covert mode switch.

5.2.5. Wheel Switch

When stopping recording, you can use wheel switch to categorize the instant.

5.2.6. Main Button

To start recording/stop recording and mark/confirm function.

5.2.7. Speaker

To provide audio notifications.

5.2.8. Action Description

Action	State	Audio
Press Power button 1 sec	Power on	Hello
Press Power button for 10 sec	Power off	Goodbye
Wheel select	Category	Clarify
		Event-1
		Event-…
		Event-….
		Event-64
		Confirm
Press REC button 1 sec	Start Recording	Recording
Press REC button 3 sec	Stop Recording	Stop Recording
Press Power button	Video Mark	Mark
Mode switch	Covert On	No sound
Mode switch	Covert Off	Covert Off (or no sound)
Battery low at 3.1V, Shutdown at 3.0V	Battery Low	Battery Low
Put on dock	Battery Charge	Battery Charge
Memory full at 0byte remaining	Memory Full	Memory Full
Memory low at 4GB remaining	Memory Low	Memory Low
Press power button 1sec when REC	Mute On	Mute On
Press power button 1sec when REC and mute on	Mute Off	Mute Off
Press power button for 3 sec when pre-rec or standby	Audio only Recording	Audio Only
Press Power button 3 sec	Audio Stop	Audio Stop
Server send live on	Live On	Live on
Server send live off	Live Off	Live off
Press Power button 3 sec	WIFI On (power 3 second press)	Wifi on

5.3. BWC LED Indicator

	LED	Function	Remark
1	Left	Charging LED	
2	Right	Status LED	

5.3.1. Charging LED

Operation LED	Operation Mode
Green Solid	Battery Fully Charge
Red Solid	Battery Low/Storage Full
Red Fast Blinking	Storage Low<4GB
Red Slow Blinking	Charging or battery fail
Yellow Solid	Battery Charging

5.3.2. Status LED

Operation LED	Operation Mode
Green Solid	Available camera(Data Offloaded/Full Charged)
Red Solid	Storage Full
Red Fast Blinking	Recording and Live Streaming
Red Slow Blinking	Recording
Yellow Fast Blinking	Offloading data
Yellow Slow Blinking	Mute in Recording

5.4. Audio Prompt

| Operation Mode	Beep Sound	Audio Prompt
Video Tag	Beep/Every press	
Storage Full	Beep/5 sec	
Storage Low<4GB	Beep/5 sec with 10 times	
Buffer mode and WiFi connected	Beep * 2 within 1 second	
Recording mode and WiFi connected	Beep * 2 within 1 second	
Buffer mode and LTE connected	Beep * 2 within 1 second	
Recording mode and LTE connected	Beep * 2 within 1 second	
Power On		Hello
Power Off		Goodbye
Category		Depend on event
Start Recording		Recording
Stop Recording		Stop Recording
Video Mark		Mark
Covert Off		Covert Off
Battery Low		Battery Low
Battery Charge		Battery Charge
Memory Full		Memory Full
Memory Low		Memory Low
Mute On		Mute On
Mute Off		Mute Off
Audio only recording		Audio Only
Audio Stop		Audio Stop
Live On		Live On
Live Off		Live Off
Wifi On		Wifi on

Chapter 6: Management

6.1. Operation Introduction

Automatic uploading is Quick, Secure and requires no action from the officer.

6.2. Real time Monitoring

The BWC can wirelessly transmit real-time footage when connected to the In-Car Video DVR or In-Car PC.

This footage can then be further transmitted to the squad car computer or the police command center to be viewed by the commanding officer.
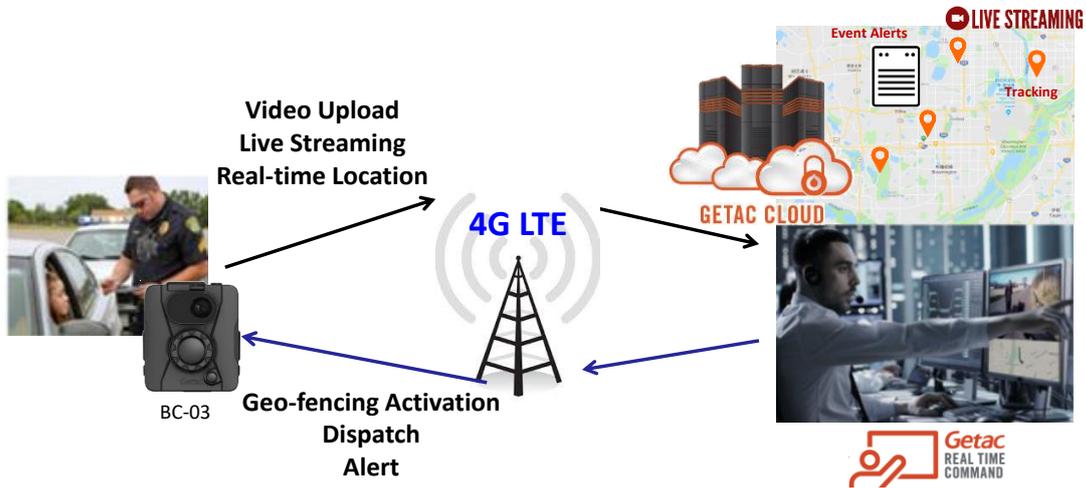
6.3. Instant tag

Turning the Dial allows officers to classify incidents into one of 64 different preset classifications for quicker and easier access.

The 64 preset BWC evidence categories can be specified for each department.

6.4. BLE Mesh Network

BC-03 can be triggered to start recording automatically by BLE signal, when trigger box receive event from police car, police officer don't need to press recording button manually.
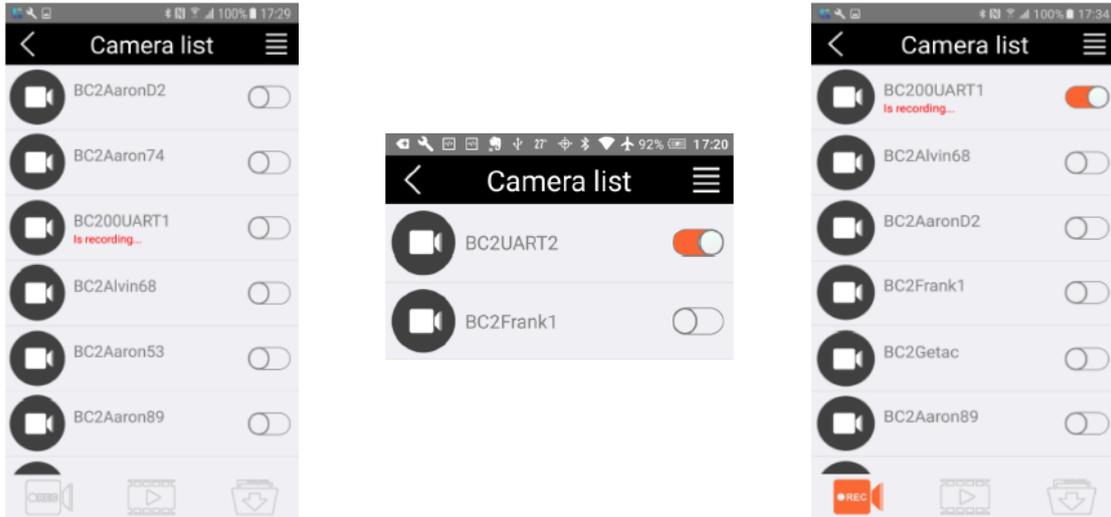
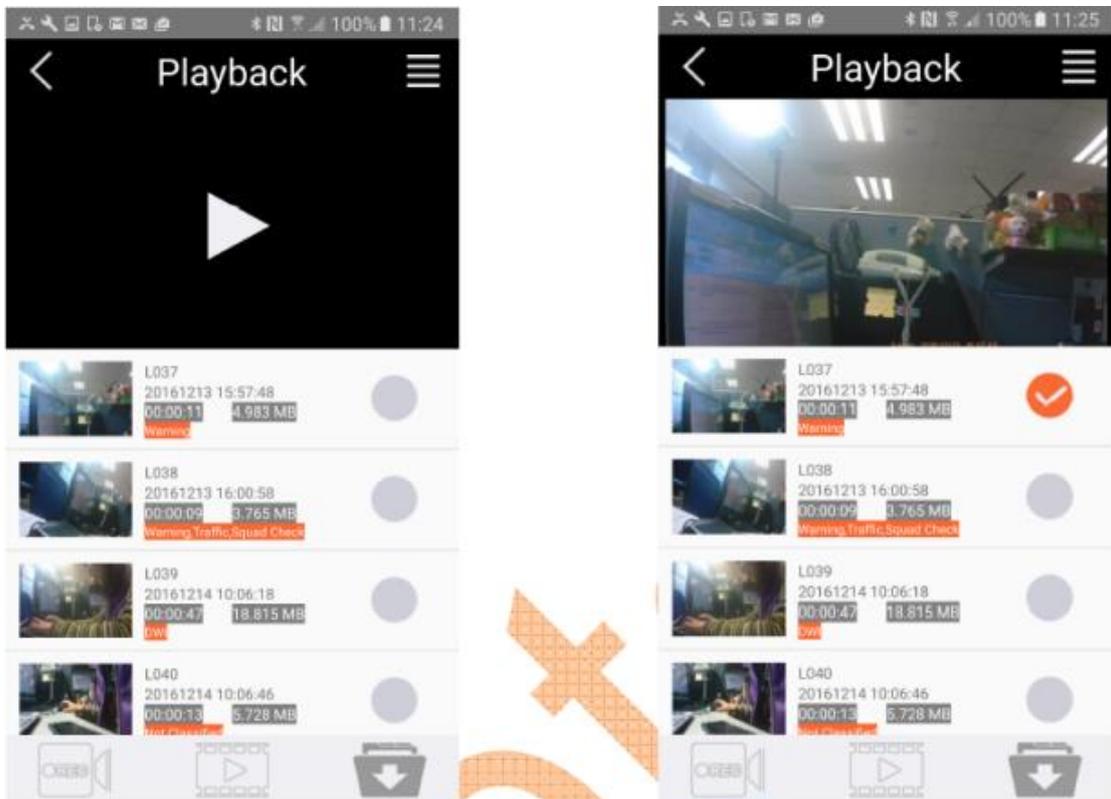Each of the BC-03 can talk each other by BLE to have a small group of mesh network.
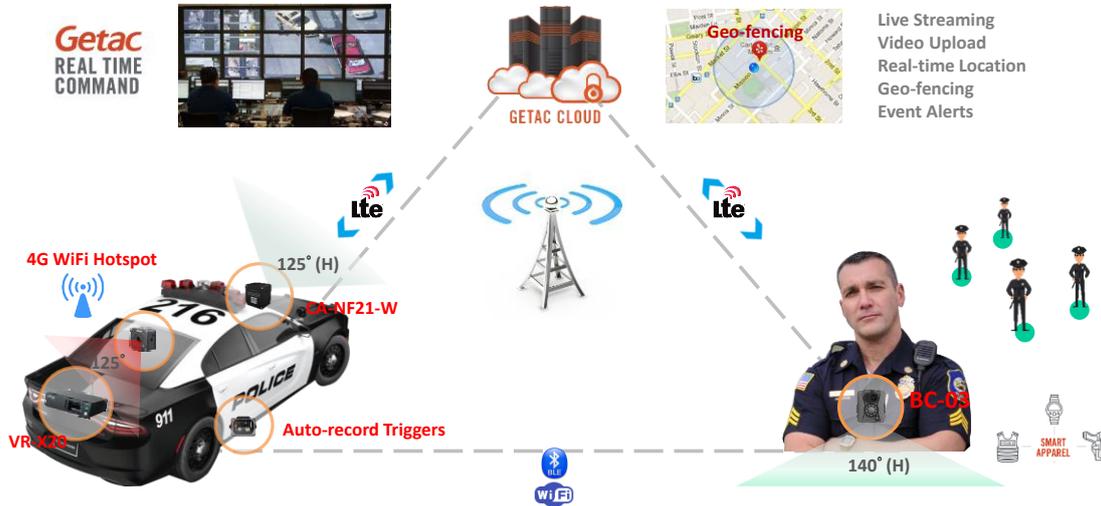
6.5. Mobile APP

With the mobile Getac BWC App, Police officers can perform video playback and categorize the videos. Videos are not downloaded, but merely played off the BWC.
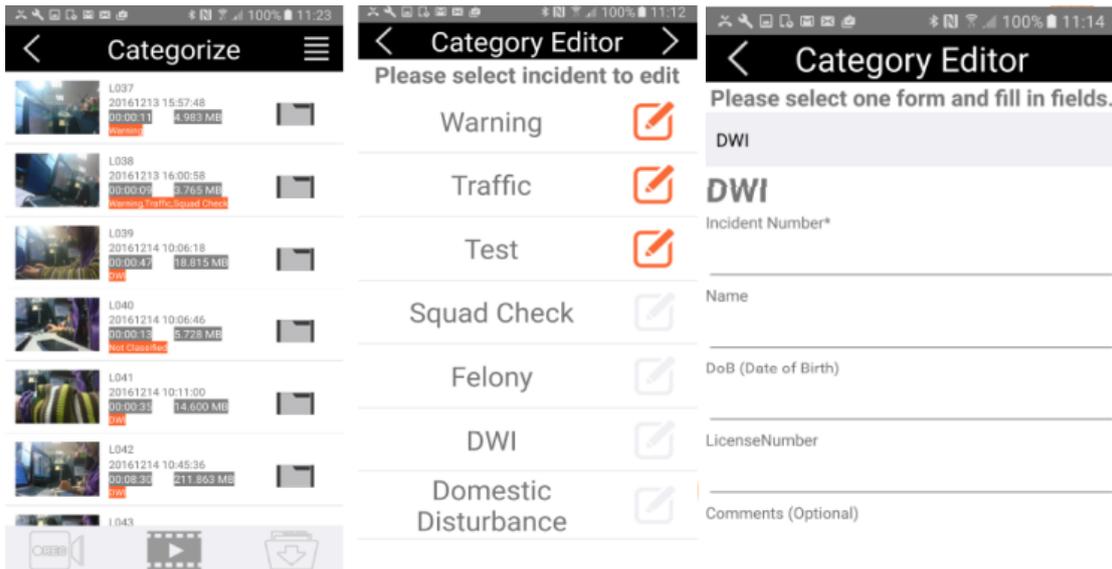
6.5.1. Remote Recording

6.5.2. Video Playback

6.5.3. Instant Category

Chapter 7: Troubleshooting

If your issue is more detailed and has not been covered here, please check the rest of the website to see if it has been answered.
http://us.getac.com/index.html

If you need assistance with any of the steps, or you cannot resolve your issue, please contact a member of Getac Technology for further help.

FCC Warning statement

15.19   This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
15.105 This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

15.21
- Any changes or modifications not expressly approved by the party responsible for compliance could void the authority to operate equipment.
- This device and its antenna must not be co-located or operating in conjunction with any other antenna or tran smitter.
  - End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.
- For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible FCC RF Radiation Exposure Statement:

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment for body-worn configuration in direct contact to the phantom.

IC Warning statement

RSS-Gen Issue 4 8.4

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference; and (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RSS-247 6.4(5)

(i)the device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
(ii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;
(iii) for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits specified for point-to-point and non-point-to-point operation as appropriate; and
(iv) the worst-case tilt angle(s) necessary to remain compliant with the e.i.r.p. elevation mask requirement set forth in Section 6.2.2(3) shall be clearly indicated.

Users should also be advised that high-power radars are allocated as primary users (i.e. priority users) of the bands 5250-5350 MHz and 5650-5850 MHz and that these radars could cause   interference and/or damage to LE-LAN devices.

(i) l'appareil pour fonctionner dans la bande 5150-5250 MHz est réservé à une utilisation en intérieur afin de réduire les risques d'interférences nuisibles à la co-canal systèmes mobiles par satellite;
(ii) pour les appareils avec antenne (s) détachable, le gain d'antenne maximal autorisé pour les appareils dans les bandes 5250-5350 MHz et 5470-5725 MHz doit être telle que l'équipement satisfait encore la pire limite;
(iii) pour les appareils avec antenne (s) détachable, le gain d'antenne maximal autorisé pour les appareils dans la bande 5725-5850 MHz doit être telle que l'équipement satisfait encore la pire limites spécifiées pour le point-à-point et non point-à-point, le cas échéant; opération et

(iv) l'angle d'inclinaison du pire (s) nécessaire pour rester conforme à la pire exigence de masque d'élévation énoncées dans la section 6.2.2 (3) doit être clairement indiqué.

Devraient également être informés les utilisateurs que les radars à haute puissance sont désignés comme utilisateurs principaux (c.-à- utilisateurs prioritaires) des bandes 5250-5350 MHz et 5650-5850 MHz et que ces radars pourraient provoquer des interférences et / ou endommager les appareils LE-LAN.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio
exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) il ne doit pas produire de brouillage et (2) l' utilisateur du dispositif doit étre prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fomctionnement du dispositif.

portable device (SAR)
This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. The portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body.

Cet équipement est conforme aux limites d'exposition au rayonnement ISED établies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions d'utilisation spécifiques pour satisfaire à la conformité d'exposition RF. L'appareil portable est conçu pour répondre aux exigences d'exposition aux ondes radio établies par l'ISDE. Ces exigences fixent une limite de DAS de 1,6 W / kg en moyenne pour un gramme de tissu. La valeur SAR la plus élevée indiquée dans cette norme lors de la certification du produit pour une utilisation correctement portée sur le corps.