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## Infotainment System User Guide





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## OPERATING INSTRUCTIONS

### Infotainment System Introduction

The 8-inch display is a visual interface that provides control of certain machine settings, operating information, infotainment settings, and entertainment through the use of a touch screen.

List of Accessories:


- Antenna
- Cameras
- Microphone
- Speakers.

Features Covered in Machine Operation & Maintenance Manual:

- Machine vitals
- Camera system
- Service information
- Attachment information
- Settings.


### Phone Pairing

This procedure is only required once for each phone. The phone must be paired via the 8-inch display in order to place or receive calls. The USB port in the machine is for charging purposes only. To send and receive calls, the phone must be paired to the machine using a connection.

1. Select the phone  icon.  
The phone being paired must have wireless technology turned on before the phone can be paired. (See your phone's manual to activate the feature.)
2. Select **[ADD DEVICE]**.
3. Find the Bobcat machine on the desired device.
4. Confirm the pairing pin number shown on the 8-inch display matches the pairing pin number shown on the desired device.
5. Accept the pairing on the desired device to complete pairing.


### Deleting A Phone

Once a device has been connected, it can be deleted. Deleting a device removes all phone information and requires phone pairing to reconnect the phone.


1. Select the phone  icon.
2. Select **[PHONE SETTINGS]**.
3. Select **[DEVICE MANAGEMENT BLUETOOTH]**.
4. Select the connected device and select the **[X]** icon.

### Connecting And Disconnecting A Phone

Only one paired phone can be connected at a time.

1. Select the phone  icon.
2. Select **[PHONE SETTINGS]**.
3. Select **[DEVICE MANAGEMENT BLUETOOTH]**.
4. Press **[CONNECT DEVICE]** to connect a phone.
5. To disconnect a connected device, click on the phone that says connected, then select **[DISCONNECT]**.

### Placing A Phone Call

Select the phone  icon.

There are multiple ways to place a phone call:

- Select a number from the favorites list,
- Dial the number using the keypad.
- Select a number from your call history.

### Answering A Phone Call

Incoming phone calls will be displayed on the screen.

- Press **[ANSWER]** to answer the phone call.
- Press **[DISMISS]** to dismiss the phone call.


### Phone Call History

Press the phone icon to view the phone call history.

- Recent calls will be displayed, with the most recent call on top.
- A white arrow pointing up indicates an outgoing call.


- A green arrow pointing down indicates an incoming call that was answered.
- A red arrow pointing down indicates an incoming call that was missed or dismissed.



## Adjusting Volume

Adjust the volume by selecting the volume  icon on the home screen.

- Move the volume slider to the left to decrease the volume or to the right to increase the volume.

The volume slider will automatically close after a few

seconds or the volume  icon can be selected to close it immediately.



- Tap the volume  icon once to mute the speakers. Tap the volume  icon again to unmute the speakers.



## Radio Operation And Settings

The following radio settings are automatically saved for each operator:

- Bass control,
- Midrange control,
- Treble control,
- Volume,
- AM, FM, and Weatherband presets.



To adjust the radio settings:

1. Select the audio settings  icon to view the radio settings.
  - a. Select **[DEVICE MANAGEMENT (BLUETOOTH)]** to view the connected devices. If your device is not shown, select **[CONNECT DEVICE]** to add it.
  - b. Select **[EQUALIZER]** to adjust the equalizer settings (mid, treble, balance, and bass).
2. Select the radio  icon.
3. Select the desired radio station.

- a. To manually enter the radio station, press the keypad  icon.
- b. To change the type of radio, press the source  icon and select AM, FM, Bluetooth, or Weatherband (WB).

When the machine is started and the last connected source (Bluetooth, etc.) is not connected, the radio will default to FM radio.

## Camera Operation And Settings

1. Select the camera  icon to view the rear and side cameras.
2. Select the button on the left that corresponds with your desired view. All three views can be shown on the screen at the same time.
3. Select the camera settings  icon to view the camera settings.

Select **[CAMERA LAYOUTS]** to adjust the camera view.








Select **[SET CAMERA REVERSE OVERRIDE]** to turn off the rear camera view.




Select **[SET CAMERA LINES]** to adjust the following rear camera settings:

- Back-up lines on or off.
- Adjustment of the back-up lines.
- Center line on or off.

Select **[CAMERA MIRRORING]** and select which camera(s) you want to have mirrored. Mirroring adjusts the camera's output to correct a reversed image, making left appear on the right and right appear on the left. Mirroring provides a true-to-life image, ensuring that what you see on the display directly corresponds to the actual directions and positions of objects behind or beside your machine.

## REGULATORY COMPLIANCE INFORMATION

Region	Country	Label	Statement
Asia	China	CMIT = 26J99J865388	
	India		
	Indonesia	Certificate No. = 121416/DJID/2026, PLG ID = 17648	
	Japan	 001-P01624	
	Singapore		
	Thailand		เครื่องโทรคมนาคมและอุปกรณ์นี้มีความสอดคล้อง ตามมาตรฐานหรือข้อกำหนดทางเทคนิค ของ กสทช English translation: Telecommunication equipment and this device comply with the standards or technical requirements of NBTC.
Australasia	New Zealand	<b>R-NZ</b>	
	Australia		
EEA	Iceland, Liechtenstein, Norway		
EU	Austria, Belgium, Bulgaria, Croatia, Republic of Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden		
Non-EU	Bosnia & Herzegovina, Mauritius, Monaco, San Marino, Serbia, Switzerland, Turkey, United Kingdom		

Region	Country	Label	Statement
South America	Argentina	 H-32990	
	Brazil	 ANATEL 07548-25-03083	<p>Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados.</p> <p>Para maiores informações, consulte o site da ANATEL <a href="http://www.gov.br/anatel/pt-br/">www.gov.br/anatel/pt-br/</a></p>
	Chile, Columbia, Ecuador, Guatemala, Uruguay		
North America	United States	Contains FCC ID: AQO018	<p>Per FCC 15.19(a)(3) and (a)(4) This device complies with part 15 of the FCC Rules Part 15 Subpart C Part 15 Subpart E.</p> <p>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.</p> <p>Compliance with FCC requirement 15.407(c) Data transmission is always initiated by software, which is passed down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets are initiated by the MAX. These are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted. In other words, this device automatically discontinues transmission in case of either absence of information to transmit or operational failure.</p> <p>FCC CAUTION Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</p> <p>This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, this equipment should be installed and operated with minimum distance 20 cm (7.9 inches) between the antenna and your body during normal operation. Users must follow the specific operating instructions for satisfying RF exposure compliance.</p> <p>Contains FCC ID: AQO018</p>

Region	Country	Label	Statement
North America	Canada	<p>Contains IC ID:10176A-018</p> <p>Contains HVIN: LBEE5CJ2XK</p>	<p>Per RSS-Gen, Section 8.4 This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(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.</p> <p>This device complies with the Canadian ICES-003 Class B specifications. CAN ICES-003(B) / NMB-003 (B).</p> <p>This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. In order to avoid the possibility of exceeding the ISED RSS-10 radio frequency exposure limits, this equipment should be installed and operated with minimum distance 20 cm (7.9 inches) between the antenna and your body during normal operation. Users must follow the specific operating instructions for satisfying RF exposure compliance.</p> <p>Contains IC ID: 10176A-018</p> <p>Conformément à la section 8.4 du document RSS-Gen, cet appareil contient un ou des émetteurs/ récepteurs exempts de licence qui sont conformes aux normes RSS exemptes de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est assujéti aux deux conditions suivantes: (1) cet appareil ne doit pas causer d'interférences, et (2) cet appareil doit accepter toute interférence, y compris les interférences qui pourraient entraîner un fonctionnement indésirable.</p> <p>Cet appareil est conforme aux spécifications canadiennes ICES-003 de classe B. CAN ICES-003 (B) / NMB-003 (B).</p> <p>Cet équipement est conforme aux limites d'exposition aux rayonnements ISED RSS-102 établies pour un environnement non contrôlé. Cet émetteur ne doit pas être installé à proximité d'une autre antenne ou d'un autre émetteur, ni fonctionner conjointement avec ceux-ci. Afin d'éviter tout risque de dépassement des limites d'exposition aux radiofréquences ISED RSS-10, cet équipement doit être installé et utilisé en respectant une distance minimale de 20 cm (7,9 pouces) entre l'antenne et votre corps lors d'une utilisation normale. Les utilisateurs doivent se conformer aux instructions d'utilisation spécifiques pour s'assurer du respect des normes d'exposition aux radiofréquences.</p> <p>Contient l'identifiant IC : 10176A-018</p>

**PRODUCT SPECIFICATIONS**

**Brand Name**

Bobcat

**Model**

A-0854G01

**Manufacturer Name and Address**

Pektron Group Ltd  
 Alfreton Road  
 Derby  
 De21 4AP  
 United Kingdom

**Product Name and Description**

Infotainment Module  
 The module provides broadcast radio reception, Bluetooth phone connectivity with microphone input, Wi-Fi connectivity, Ethernet connectivity to cameras and display, and audio amplification to drive speakers.

**Temperature Range**

Operating: -40 to 60°C  
 Storage: -40 to 85°C

**RF Technology Types / Standards**

Bluetooth 5.2: BDR (1 Mbit/s), EDR (2 Mbit/s) and EDR (3 Mbit/s)  
 Wi-Fi : IEEE 802.11 a / b / g / n

**Maximum RF Output Power**

(EIRP = Effective Isotropic Radiated Power)  
 Bluetooth : 7.37 dBm EIRP  
 Wi-Fi 2.4 GHz : 21.59 dBm EIRP  
 Wi-Fi 5.18 GHz : 5.55 dBm EIRP  
 Wi-Fi 5.5 GHz : 6.51 dBm EIRP

**Modulation Types**

Bluetooth : GFSK,  $\pi/4$ -DQPSK and 8-DPSK  
 Wi-Fi : IEEE 802.11a, g, and n: OFDM using BPSK, QPSK, 16-QAM, and 64-QAM  
 Wi-Fi : IEEE 802.11b: DSSS, CCK using BPSK, DBSK, QPSK, and DQPSK

**Frequency Bands**

Bluetooth 2.4 GHz band : Channels 0 to 78 : 2402 MHz to 2480 MHz  
 Wi-Fi 2.4 GHz band : Channels 1 –13 : 2412 MHz to 2472 MHz  
 Wi-Fi 5 GHz U-NII–1 band : Channels 36, 40, 44, and 48: 5180 MHz to 5240 MHz  
 Wi-Fi 5 GHz U-NII–2A band : Channels 52, 56, 60, and 64: 5260 MHz to 5320 MHz  
 Wi-Fi 5 GHz U-NII–2C band : Channels 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, and 144: 5500 MHz to 5720 MHz

Wi-Fi 5GHz U-NII-3 band : Channels 149, 153, 157, 161, and 165: 5745 MHz to 5825 MHz

Which specific channels are enabled depends on the country of operation as determined by the vehicle configuration.

Channels will not be enabled if their use requires the Infotainment module to operate as a Dynamic Frequency Selection (DFS) master.

**Specific Absorption Rate (SAR)**

FCC : This module complies with the exemption criteria defined in KDB 447498 D04 v01 section 1.1307(b) which confirms compliance with the RF exposure limits of section 1.1310.

EU : Based on EN 62311:2020 section A.1.3.2, exposure field strengths for simultaneous transmissions can be compared to the reference level on Sum Square (SS) basis.

Simultaneous Bluetooth and Wi-Fi 2.4GHz : Sum Square 1.0 at 3.33 cm (limit 1.0)

Simultaneous Bluetooth and Wi-Fi 5GHz : Sum Square 0.921 at 3.33 cm (limit 1.0)

**Antenna Gain**

Bluetooth	
Frequency (MHz)	Gain (dBi)
2400	2.66
2413	2.66
2425	3.14
2438	3.31
2450	3.48
2463	3.21
2475	3.40
2488	3.18

Wi-Fi	
Frequency (MHz)	Gain (dBi)
2400	2.14
2413	2.30
2425	2.69
2438	2.86
2450	2.81
2463	2.71
2475	3.04
2488	2.65
2500	2.68

Wi-Fi	
Frequency (MHz)	Gain (dBi)
5150	5.00
5241	3.56
5331	3.32
5422	3.34
5513	3.43
5603	2.39
5694	3.09
5784	1.88
5875	2.38

## Photographs



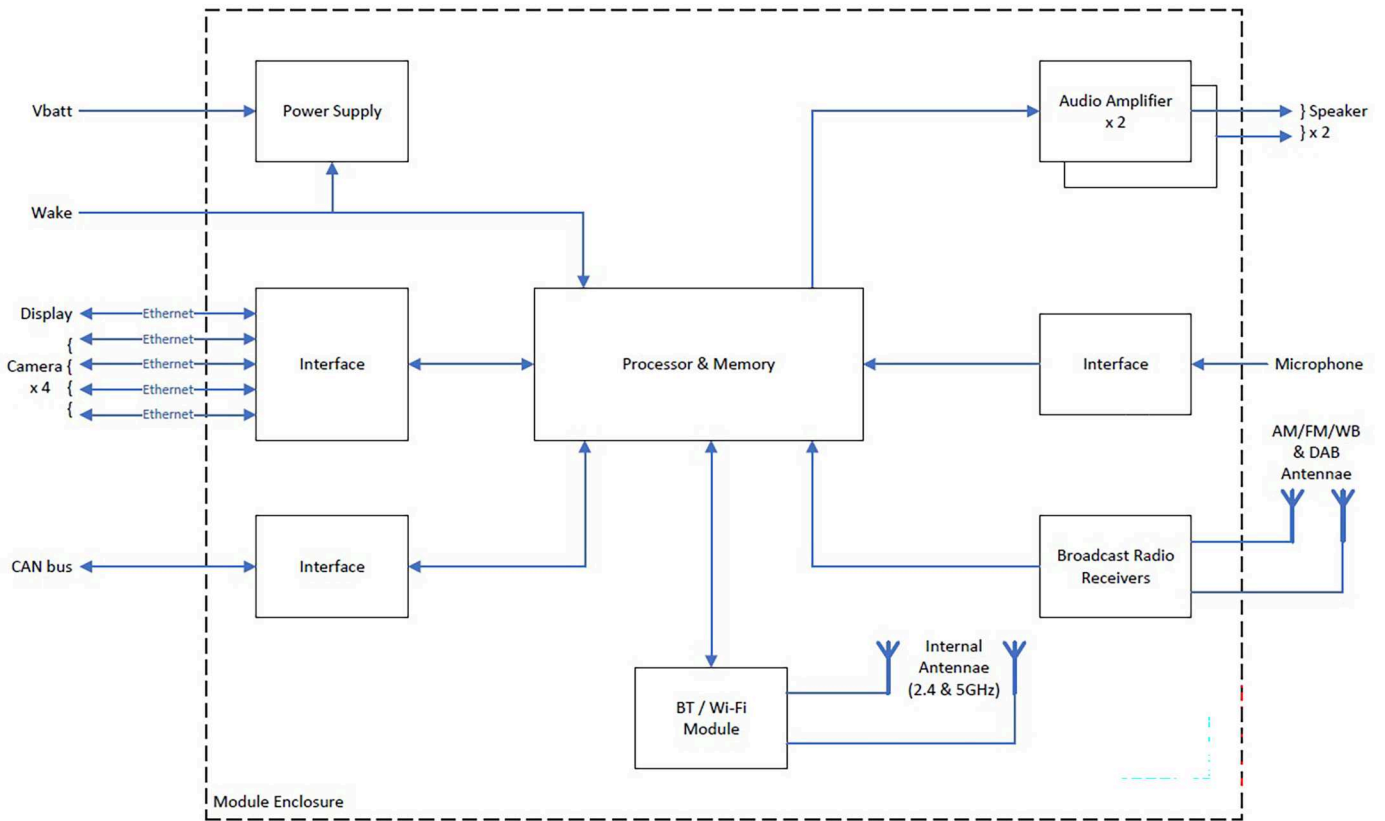
## Dimensions and Weight

Overall dimensions (including connector shells and mounting tabs): 282 mm x 150 mm x 70 mm

Weight: 1.6 kg

## BLOCK DIAGRAM – HARDWARE OVERVIEW

0854 Infotainment Module  
Block Diagram



C238849

### Regional Variants

There is a single, global variant of this module, intended for use in all countries.

### Contact Details

Troy Olson  
Email :Bluetooth.compliance@doosan.com







**WARNING** This product can expose you to chemicals including lead and lead compounds, mineral oils, and phthalates which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).