User manual

Owners Manual: please read before using this product
Thank you for purchasing the Universal Maxx. Before operation, be sure to thoroughly read these instructions.

Warranty for this product is 3 years from date of purchase, however warranty will be void if:

• The unit is tampered with, damaged or modified in anyway.
• If applicable Reverse camera cable is cut or modified in any way.
• If applicable Reverse camera is subjected to over voltage.
• If applicable the Navigation SD card is damaged or tampered with in any way (this includes installing foreign mapping or software onto the SD card).
• The installation of 3rd party apps that may cause harm to the unit.

Warranty Terms
The Universal Maxx is covered for 3 years and includes:
• Defective Equipment • Defective Cables

Not Covered under warranty:
• Abuse
• Improper installation
• Alteration to Cables (includes cutting of any cables)
• Accidents
• Water damage
• Improper use
• Labour
• Postage and Handling

If you have any questions concerning the installation, warranty or the operation of the unit, please contact Polaris on 1300 555 514.

We hope that you enjoy the Universal Maxx.
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**Getting Started**

The unit will take approx. 15-20 seconds on the initial start-up, after this the unit will load instantaneously unless reset.

Once the unit has loaded it will appear with the main menu interface:

![Main Menu Interface](image)

**Swipe left to access more features:**

![Additional Features](image)

Please note that some apps have been installed by Polaris via Google Play store.
You can change the order of the icons or move desired icons to the main interface by holding down the applicable icon and dragging to the desired position.

**Connecting to Wi-Fi**

There are a few different ways in which you can connect to Wi-Fi:

1: Drag the toolbar that is located at the top of the screen down > Hold down the Wi-Fi symbol until the Wi-Fi settings appear. Touch the Wi-Fi that you wish to connect to and follow the prompts.

2. The other way in which you can connect to Wi-Fi is to select the settings icon > select Wi-Fi > Touch the Wi-Fi that you wish to connect to and follow the prompts.

**Please Note:** If you are connecting to Wi-Fi via your personal hotspot, you will be using your phones data.

**Connecting Bluetooth**

Select bluetooth from the main menu

Select the phone icon.

Select the scan icon to scan for bluetooth devices.
Bluetooth can be temperamental at times. If the Universal Maxx does not find your device, turn your bluetooth off and back on through your bluetooth enabled device and scan again.

Follow any prompts on your phone and once the device has paired successfully, it will move over to the paired devices column. 

You can also connect your bluetooth device by following the normal procedure through your device. This usually involves going into your devices > bluetooth settings and scanning for other bluetooth devices.

The Universal Maxx’s bluetooth ID is **Polaris** > Select **Polaris** on your device > when your device asks you for a passcode, please enter **0000**.

For a more in depth look at the bluetooth settings, please see page 12-20.
**Setting Up Radio Pre-sets**

Select radio from the main menu 📣

You can store up to 18 FM pre-sets and 12 AM pre-sets.

To automatically scan, select the magnifying glass icon:

![Automatic scan](image)

The unit will run through a complete scan and will automatically set your pre-set stations to the radio frequencies with the strongest signal within your area.

Select a pre-set down the bottom of the screen and hold down until it changes to your desired station.
To manually scan for radio stations press the arrow buttons:

When you have found the station you desire, press the arrow key to stop the search.

If you need to change the frequency one by one, hold one of the arrow keys down (long press). You will now be able to scan the radio frequency one by one.

Once you have reached your desired station select a pre-set down the bottom of the screen and hold down (long press) until it changes to your desired station.

For a more in depth view at the radio features, please see page 20-21.

**Date & Time**

Select settings from the main menu.

Scroll down until you find date & time located under system settings.

If you are planning on always being connected to Wi-Fi via your mobile phone then you can simply set the date and time to Automatic Date & Time and Automatic Time Zone.
If you are not planning on being connected to Wi-Fi all the time then you can manually set the date, time and time zone:

Google Play Store

To start downloading your own apps you will need to sign into Google play store. To do this you need to have a Google account. If you already have a Gmail account then this is all you will need in order to sign into the play store.

If you do not have a google account, you can sign up online which is completely free. Head over to www.gmail.com > click on more options > create account.

Follow all the necessary prompts to create your free google account.

Once you have set up your account, select play store from the main menu > follow the prompts to sign in.

Once you are signed in, you are free to start downloading 3rd party apps such as navigation or Spotify.

Please note that the more apps you add onto the system will result in a slower response time from the Universal Maxx.

WARNING: Polaris take no responsibility for 3rd party apps installed onto the device.
Easy Connection

Easy connection allows you to connect an android phone via USB for two way control or you can mirror your android or Apple phone via Wi-Fi.

To setup, open Easy Connection from the main menu.

Android USB

Connect your phone with your original phone cable to one of the USB inputs on the Universal Maxx and select Android USB. A message should pop up on your android device to allow for debugging > select yes. If debugging was successful, Android drive mode will automatically load.

Note: If you are having trouble connecting your android phone, make sure that debugging is enabled. You can usually find debugging in developer options. A quick google search of your make and model should help with finding this feature on your phone.

Android Drive Mode (This feature only works with android enabled devices)

Touching this icon will bring up the following settings:

- Settings
- Will go to drive mode home screen
- Settings/Quit/About
- Exit
- Back
Android drive mode will allow you to access certain features on your phone such as messages, contacts and calls without having to touch your phone. You can add certain apps to drive mode as well such as Google maps, Spotify etc. Android drive mode will also allow you to mirror your phone.

**Note:** Android Drive mode version may differ depending on the easy connect version that is installed on your phone.

**Android Wi-Fi**

When connecting via Wi-Fi, the Universal Maxx and your android phone must be connected to the same network. If you are on the road, you will need to connect the Universal Maxx up to your personal hotspot.

When setting up for the first time, you will need to plug your phone in via USB. Please make sure Android debugging is enabled (normally found in developer options). Once debugging is done the unit should connect via Wi-Fi and you can now unplug your phone.

**iPhone Wi-Fi**

iPhone Wi-Fi will allow you to mirror your iPhone. It does not allow for 2 way control, it will simply mirror whatever is on your iPhone screen.

When connecting via Wi-Fi, the Universal Maxx and your iPhone must be connected to the same network. If you are on the road, you will need to connect the Universal Maxx up to your personal hotspot.

Select iPhone Wi-Fi from the easy connection menu.

On your iPhone open airplay or screen mirroring and select **EC-Mirror-CJ**.

**Please Note:** When connecting via Wi-Fi please be aware that the response time will depend on how strong your signal is. If the connection is weak the response time will be slow.
**Bluetooth features**

Please see page 5 & 6 on how to pair up your Bluetooth enabled device.

Once you are connected to bluetooth, you can receive calls regardless of what feature you are using.

**Receiving a Call**

1. Answer.
2. Hang up.
3. Incoming phone number.
4. Switch sound between handset and unit.
5. Minimise bluetooth call.

**Call in progress**

2. Hang up.
3. Switch sound between handset and unit.

**Notes:** Minimising the bluetooth call will allow you to access other features on the Universal Maxx.
Making a Call

To make a call, select Bluetooth from the main menu.

Keypad

1. Takes you back to the home screen.
2. Keypad to dial numbers.
3. Back to previous screen.
4. Switch sound between handset and unit.
5. Call.
8. Contacts.
9. Dialled/Received/Missed calls.
Contacts

1. Home.
2. Back to previous screen.
3. Search contacts.
4. Search alphabetically.
5. Call nominated contact.
6. Import contacts.
8. Contacts.
9. Received/Dialled/Missed menu.
10. Paired/Available device menu.

Notes:
When importing contacts, your phone may ask for permission. Please select yes on your device.
Received/Dialled /Missed calls

1. Home.
2. Back to previous screen.
3. Received Calls.
4. Dialled numbers.
5. Missed calls.
6. Call.
7. Delete nominated number.
8. Delete all.
10. Contacts.
11. Received/Dialled/Missed menu.
12. Paired/Available device menu.
**Paired / Available devices**

**Pairing your device**

Scan for available devices

Select device and pair

**Notes:**

The Universal Maxx will only connect to one phone at a time however, it will remember past paired devices so that you can easily switch between phones if necessary. To easily set this up, see pages 17-18 For instructions.
**Paired Devices**

Paired devices will show you a list of past or current paired devices. The Universal Maxx unit will only pair with one phone at a time and the current paired device will be listed at the top of the list. If you want to have more than one phone listed in the paired devices column so that you can easily switch between phones, please follow these steps:

1. Scan & pair your first mobile phone—to see instructions, please see pages 5-6. Once it has paired, it will move over to the paired devices column.

2. Highlight the paired phone and disconnect.

3. Select the second phone which should be located in the available devices column and pair.
4. The Second phone will now move to the top of the paired device list.

5. To filter between the two phones simply use the connect and disconnect icon depending on which phone is connected at the time. The current paired device will always move to the top of the list.

6. To delete the pairing select the trash can icon.
# Bluetooth Settings

1. **Home**
2. Device name—select to change it
3. Universal pin code—select to change it
4. Auto answer on/off
5. Auto connect on/off
6. Back to previous screen
7. Keypad
8. Contacts
9. Received/Dialled/Missed calls
10. Paired/Available devices
11. Bluetooth settings

**Notes:**

If the auto answer feature is on, The Universal Maxx will automatically answer the call after three rings.

If Auto Connect is turned on, bluetooth will automatically connect to the last paired phone upon vehicle start-up.
**Bluetooth Music (A2DP)**

You can listen to songs on your bluetooth enabled device via bluetooth. You can either select the music you wish to listen to directly from your mobile phone and it will play through the unit.

Alternatively you can select A2DP and the Universal Maxx will play whatever audio file you were previously listening to on your bluetooth enabled device.

If you were listening to a playlist you can skip forward and back, pause and play through A2DP.

---

**Notes:**

A2DP is limited in features, we recommend that if you use streaming services such as Spotify or Apple music to download the app directly onto the Universal Maxx.

**Radio**

The Universal Maxx has AM and FM built into it. You can set up to 18 FM pre-sets and 12 AM pre-sets. To see how to set these up, please see pages 7-8.
1. Home.
2. Scan back through different stations manually. Hold button down to scan one by one.
3. Radio frequency.
4. Scan forward through different stations manually. Hold button down to scan one by one.
5. Back to previous screen
6. Radio pre-set channel.
7. Automatic scan.
8. Mono/stereo sound quality.
9. Scan for Long Range (distant) or short Range frequencies (local).
10. Change to AM frequency.
11. Alternative frequency.
13. Change to FM frequency.
14. Program type.
**Music via USB**

The Universal Maxx has 3 x USB ports. Two of the USB ports plug into the back of the head unit and are normally run into the glove box. The third USB port is located in the head unit.

<p>| | | | | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
</tbody>
</table>
Notes:

If 🧡 is highlighted whilst a song is playing, this song will be added to a ‘songs you love’ list located in the USB contents menu.

**Normal:** Will play all the songs in order and stop once finished.

**Repeat Song:** Will repeat the current song.

**Repeat all:** Will play the songs in order and start from the beginning once finished.

**Shuffle:** Will shuffle all the songs on the USB.

---

**USB Contents Menu**

1. Home.
3. Albums.
4. Artists.
5. Songs you love.
7. Music files found in internal memory.
8. Music files found on SD card.
9. Music Files found on USB.
10. Play all the songs located on the USB.
11. Select specific folder to play.
Playing movie files via USB

To view your movie files, select video from the main menu.

1. Home.
2. Back to previous screen.
3. USB contents menu.
4. Shuffle/Repeat/Repeat all (see notes).
5. Skip back.
6. Pause/Play.
7. Skip forward.
8. Change to full screen.

Notes:

**Normal**: Will play all the movies in order and stop once finished.

**Repeat Movie**: Will repeat the movie.

**Repeat all**: Will play the movies in order and start from the beginning once finished.

**Shuffle**: Will shuffle all the movies on the USB.
**File Browser**

If you would like to view your files in the one place, select File Browser from the main menu.

1. Home.
2. Back to previous screen.
3. Internal memory.
4. SD card external memory.
5. USB external memory.
6. Copy.
7. Cut.
8. Delete.

**Notes:**

If a file is selected, the copy/cut/delete menu will appear. If you wish to move a file, you can opt to copy or cut it. Once you have selected cut/copy, choose the memory source that you wish to move the file to and select paste.
**CD player**

Please insert a CD into the head unit.

If the CD doesn't load automatically, please select DVD from the main menu.

---

**DVD player**

Please insert a DVD into the head unit.

If the DVD doesn't load automatically, please select DVD from the main menu.
1. Home.
2. Back to previous screen.
4. Skip back.
5. Rewind.
6. Pause/Play.
7. Stop.
9. Skip forward.
10. Previous options.
11. Equaliser settings.
12. Subtitles on/off.
13. Change language (if applicable).
14. Back to main menu.
15. Normal / Repeat/ Repeat all.
16. Filters through different scenes.
Navigation

You have your choice of street navigation or off road navigation at the time of purchase.

Tom Tom Street Navigation

If you have opted for the street navigation we will preload the mapping program onto a micro SD card at the time of purchase.

Please be aware that the mapping data is provided by Tom Tom (previously Whereis) but the software is run by iGo.

To enter into street navigation, please enter the iGo app from the main menu.


HEMA Off Road Navigation

If you have opted for the off road navigation we will preload the mapping program onto a micro SD card at the time of purchase.

Please be aware that the mapping data is provided by HEMA but the software is run by OziExplorer.

To enter into your off road navigation, please enter the OziExplorer app from the main menu.

For help on how to use the OziExplorer android software please visit www.oziexplorer.com > OziExplorer Android.

The HEMA maps and Tom Tom maps only require a GPS signal to work. No internet connection required.

Google Maps

The Universal Maxx comes standard with the Google maps app already preloaded. Google maps is a great option for street navigation however please be aware that you will require some sort of internet connection to navigate.

The most popular way to get internet connection whilst on the road is to use your mobile hotspot from your phone.

If you do not want to use any data to navigate then we suggest that you opt for the preloaded Tom Tom navigation.
Other features

**DVR:** Allows you to plug in an aftermarket DVR camera via USB for recording.

**APK installer:** Allows you to install and manage APK files.

**Clock:** Alarm / World Clock / Timer & Stopwatch function.

**GPS Info:** Displays satellite strength information.

**Adobe Reader:** allows you to view PDF documents.

**Google Chrome:** Use Google Chrome to browse the internet when connected to Wi-Fi.

**Downloads:** View/ Manage downloads.

**Gmail:** View / Manage your Gmail account.

**Google:** Open Google search bar.

**Gallery:** View/Manage photos that are stored in the internal memory.
AV in: See page 37.

Amplifier: Sound management.

Google Maps: Opens Google maps for navigation.

Google play store: Open Google play store for downloading apps onto the unit.

Voice search: Allows you to utilise OK Google with the Universal Maxx.

Steering wheel study: Allows you to reprogram your steering wheel controls if necessary.
### Settings

#### Wireless & Networks

| Wi-Fi                                      | Connect to local Wi-Fi network.  
|                                           | Turn Wi-Fi on/off.               |
| Bluetooth                                 | Change bluetooth name.           
|                                           | Change bluetooth pin number.     
|                                           | Auto connect on/off.             
|                                           | Auto answer on/off.              
|                                           | See past paired devices.         |
| Data Usage                                | Wi-Fi Data usage.                
|                                           | Data saver.                      
|                                           | Network restrictions.            |
| More                                      | Not applicable to this unit.     |

#### Device

| Display                                   | Change brightness for day and night.  
|                                           | Change wallpaper, font size, display size. 
|                                           | Setup touch assist.                  |
| Notifications                             | Control which apps send you notifications. |
| Sound                                     | Control volume.                    
|                                           | Change alarm tones.                 
|                                           | Change notification tones.          
<p>|                                           | Do not disturb on/off.              |
| Element                                   | Change the panel display colour.    |</p>
<table>
<thead>
<tr>
<th>Apps</th>
<th>View/Manage your apps.</th>
</tr>
</thead>
</table>
| Screenshot settings | Select delay time.  
|              | Set location of screenshot.  
|              | Display screen icon in the status bar. |
| Storage     | View/Manage storage.   |
| Memory      | View memory.           |
| Users       | View/Manage user profiles. |

**Personal**

<table>
<thead>
<tr>
<th>Location</th>
<th>Change location mode high accuracy/battery saving/device only.</th>
</tr>
</thead>
</table>
| Security       | View or deactivate device administrators.  
|                | Allow installation from unknown sources.  
|                | Credential storage. |
| Accounts       | View / manage accounts for different apps like google, Gmail, adobe etc. |
| Google         | View / manage your google account. |
| Languages and input | Set different languages.  
|                  | Spell checker.  
|                  | Keyboard and input methods.  
|                  | Text to speech output. |
| Backup & reset | Perform factory reset & manage backups. |
### System

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th>Setup date and time.</th>
</tr>
</thead>
</table>

| Accessibility | Magnification gesture.  
|               | Font size.  
|               | Display size.  
|               | Mono audio on/off.  
|               | Accessibility shortcut.  |

### Car

| Navigation | Change the navigation default to your preferred mapping.  
|            | Setup navigation sound mode: **Switch** will mute the radio when the Nav voice speaks and **Mixing** will drop the volume level of radio when the navigation voice speaks.  
|            | Monitor GPS information.  |

| Driving settings | Allow to watch video while driving on/off.  
|                  | *Polaris does not endorse this feature  
|                  | Block notifications whilst driving on/off.  |

| Extra Settings | Shutdown delay when accessories is off.  
|               | Play music as soon as USB is inserted on/off.  
|               | Reversing X-mirror: will flip the reverse camera image.  
|               | Reversing volume: can turn volume off when reverse camera is engaged.  
|               | Reversing trajectory display.  |

| Steering Wheel Keys | Programme your Steering wheel controls.  |
| Amplifier        | Manually modify equaliser.  
                  | Set custom equaliser.       
                  | Speaker settings.           |
|------------------|-----------------------------|
| Factory Settings | Password is 126.            
                  | Change start-up logo.       
                  | Enable front camera (can be found in other tab). 
                  | Nominate a time interval for front camera to switch on after reverse has been disengaged. 
                  | **For an in depth view on how to setup front camera see page 38.** |
                  | There are other settings in factory settings however we have left them off here for good reason. We do not suggest playing around with any of the other factory settings. |
| About Machine    | Run system and MCU updates. 
                  | Find model information.     
                  | Find android version.       
                  | Find android security patch level. 
                  | Find kernel version.        
                  | Find build Number.          
                  | Find MCU version.           
                  | Find serial number.         
                  | Find CPU.                   
                  | Find memory.                |
**Multitasking Split Screen**

The Universal Maxx unit will allow you to view 2 apps at once via the multitasking feature. Please note: Some 3rd party apps may not be supported.

To view 2 apps in split screen, open the first app.

Once your first app has loaded, press the back icon to return to the main menu.

Open your second app and once this has loaded press the back icon to return to the main menu.

Select multitask icon from the taskbar up the top:
Drag your first app over to the left:

Tap the other app that you wish to view in split screen and it should adjust size and appear on the right hand side:

To exit multitask split screen, select the multi tasking icon and the right hand side app will appear with a cross underneath. Touch the cross to close the app.

Simply drag the app that appears on the left hand side to open in full screen.
**AV In (optional)**

AV in will allow you to plug in a second reversing camera with RCA type plugs. The camera can be accessed anytime through the main menu.

PLEASE NOTE: If you want to add a second camera to a trailer, we recommend installing our 2 way control box with a toggle switch as it will allow you to override the reverse camera function.

If you do not use the control box or some kind of override switch, you will not be able to view the trailer camera in reverse as the reverse camera will always override when the vehicle is in reverse.

If you are setting up the second camera through our control box, please be aware that both cameras will be running through the control box.

Please see 2 cam operation wiring diagram on page 47
**Front Cam (optional)**

The Universal Maxx will allow you to plug a front camera in via the front camera input. You will need to go into the factory settings to turn this function on:

Select settings from the main menu

Scroll down until you see Factory settings.

Enter passcode: **126**

Select other and scroll down until you find front camera:

1. Turn front camera on/off. If front camera is enabled, an app will appear on the main menu so you can access the front camera at any time.

2. This enables you to choose a time interval so that the front camera will appear on the screen for the nominated amount of time after reverse gear is disengaged or you can opt to disable this feature.
**Car Play & Android Auto USB Add-on (Optional)**

If you have purchased the additional car play dongle, Polaris will install the AutoPlay APK file for you so it is ready for you to use.

**Step 1:** Plug the USB dongle into one of the USB inputs.

**Step 2.** Plug your phone in with your genuine cable into the dongle.

**Step 3.** Select AutoPlay from the main menu

**Step 4.** Apple Car play or Android Auto should appear on screen (depending on which phone you have).

Please note: For Android phones, you must have the Android Auto app installed on your phone as well.

**Troubleshooting**

If you are having trouble with this device, unplug your phone and select settings in the top left corner and make sure `compatible` is selected:
Touch Button Panel

1. Standby.
2. Volume up.
3. Volume down.
5. Back to previous screen.

Shortcuts

At any time you can hold or drag the status bar down to quickly access features such as: Wi-Fi, Bluetooth, Volume, brightness, Amplifier, speed management settings and general settings.
You can also access widgets, wallpaper and general settings by holding your finger down anywhere on the screen in the main menu interface.
Knobs & Controls

1. Volume control.
2. Internal bluetooth mic.
3. CD/DVD player slot.
4. Micro SD card slot for GPS.
5. AUX (Not available in AUS Version).
6. Screen plug.
7. USB input.
8. Reset hole.
9. Micro SD card slot.
10. Slide across to detach screen from double din chassis.
11. Eject disc.
12. Radio tuner.
### Specifications

**General Information**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor</td>
<td>Large 10.1&quot; Capacitive Multi Touch Screen.</td>
</tr>
<tr>
<td>Resolution</td>
<td>1024x600.</td>
</tr>
<tr>
<td>Operating system</td>
<td>Android 7.1.2</td>
</tr>
<tr>
<td>Power supply</td>
<td>DC12V.</td>
</tr>
<tr>
<td>Video form</td>
<td>PAL/NTSC.</td>
</tr>
<tr>
<td>SWC</td>
<td>Supports steering wheel controls for most cars that are not controlled by CAN bus*</td>
</tr>
<tr>
<td>OSD Language</td>
<td>English.</td>
</tr>
<tr>
<td>Wiring</td>
<td>Universal style harness with steering wheel control wires for tapping into vehicle OEM plug.</td>
</tr>
<tr>
<td>Warranty</td>
<td>3 years.</td>
</tr>
<tr>
<td>Multi Camera support</td>
<td>Camera input, front camera input and AV in. Can upgrade to control boxes for multi cameras.</td>
</tr>
</tbody>
</table>

**NOTES:**

*We may be able to obtain a module for can bus vehicles

**Technical**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>Rockchip PX3, Cortex-A9, Quad-Core.</td>
</tr>
<tr>
<td>RAM</td>
<td>Samsung DDR3 2GB.</td>
</tr>
<tr>
<td>Flash</td>
<td>16GB.</td>
</tr>
<tr>
<td>Radio</td>
<td>NXP 6686.</td>
</tr>
<tr>
<td>GPS module</td>
<td>SIRF III</td>
</tr>
<tr>
<td>TFT Drive IC</td>
<td>Rockchip PX3.</td>
</tr>
<tr>
<td>Motor Drive</td>
<td>Mabuchi.</td>
</tr>
<tr>
<td>Amplifier IC</td>
<td>TDA 7851.</td>
</tr>
<tr>
<td>Video Decoder</td>
<td>1080P HW.</td>
</tr>
<tr>
<td>DVR</td>
<td>USB Camera.</td>
</tr>
<tr>
<td>Screen</td>
<td>Hanstar screen.</td>
</tr>
<tr>
<td>GPS frequency</td>
<td>1.6GHz.</td>
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</tbody>
</table>

**GPS Navigation:**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Google Maps</td>
<td>APP comes pre-installed on device. Will need to use data from personal hotspot on the road.</td>
</tr>
<tr>
<td>Street Navigation:*</td>
<td>Australia Wide TomTom Navigation with iGo Nextgen Software platform loaded onto an SD card.</td>
</tr>
<tr>
<td>Off Road Navigation:*</td>
<td>HEMA maps with OziExplorer platform loaded onto an SD card.</td>
</tr>
<tr>
<td>GPS Dual Zone</td>
<td>Yes, can listen to music whilst in navigation.</td>
</tr>
<tr>
<td>GPS Language</td>
<td>Multi-languages.</td>
</tr>
</tbody>
</table>

**NOTES:**

*Choice of either Tom Tom street navigation or HEMA off road maps

**Radio Function**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM Frequency Range</td>
<td>522KHz - 1620KHz.</td>
</tr>
<tr>
<td>FM Frequency Range</td>
<td>76.0 MHz - 108.0 MHz.</td>
</tr>
<tr>
<td>FM Pre-set channels</td>
<td>Set up to 19 FM pre-sets.</td>
</tr>
<tr>
<td>AM Pre-set channels</td>
<td>Set up to 12 AM pre-set channels.</td>
</tr>
</tbody>
</table>

**USB**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB Flash Drive</td>
<td>Supports up to 64GB.</td>
</tr>
<tr>
<td>USB Inputs</td>
<td>3 x USB inputs.</td>
</tr>
<tr>
<td>Supports iPod/iPhone/iPad</td>
<td>For Charging only.</td>
</tr>
</tbody>
</table>
### Reverse Camera Function

<table>
<thead>
<tr>
<th>Reverse Camera input:</th>
<th>Yellow RCA jack.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reversing Camera:</td>
<td>Comes standard with a Polaris miniature camera with 7 metre cable and an RCA adaptor.</td>
</tr>
<tr>
<td>Reverse Trigger:</td>
<td>Reverse Camera will engage when vehicle is put into reverse gear.</td>
</tr>
</tbody>
</table>

### Front Camera*

<table>
<thead>
<tr>
<th>Front cam input:</th>
<th>Yellow RCA Jack.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Functionality:</td>
<td>Once reverse gear is disengaged, the forward vision camera can be set to appear on the screen for a nominated time interval. The forward vision camera can also be viewed at any time by selecting F-Cam icon in the main menu.</td>
</tr>
</tbody>
</table>

**NOTES:**

*Optional Extra

### Caravan / Trailer camera*

<table>
<thead>
<tr>
<th>Functionality:</th>
<th>Yes, when working in conjunction with Polaris control box via AV-in function.</th>
</tr>
</thead>
<tbody>
<tr>
<td>AV-in</td>
<td>Second camera can be plugged via AV-in (yellow RCA jack) but reverse camera will always override when vehicle is in reverse.</td>
</tr>
</tbody>
</table>

**NOTES:**

*Optional Extra

### Car Play / Android Auto*

| USB Dongle             | Car play / Android Auto USB dongle available. |

**NOTES:**

*Optional Extra

### Bluetooth Function

<table>
<thead>
<tr>
<th>Hands free:</th>
<th>Yes, compatible with BT.2.0 for most brand phones.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Import Phonebook:</td>
<td>Yes, with alphabetic search function.</td>
</tr>
<tr>
<td>Stream audio via Bluetooth:</td>
<td>Yes.</td>
</tr>
<tr>
<td>Supports external microphone:</td>
<td>Yes, included in the unit.</td>
</tr>
</tbody>
</table>

### CD/DVD

<table>
<thead>
<tr>
<th>Video Output Range:</th>
<th>1.0V-1.2V(75Ω)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compatible Disc:</td>
<td>DVD/DIVX/MP4/MP3/MP2/VCD.</td>
</tr>
</tbody>
</table>

### Wi-Fi

<table>
<thead>
<tr>
<th>Power Supply:</th>
<th>Vcc_3.3V.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supported protocol/standard:</td>
<td>IEEE802.11B/g/n compatible WLAN.</td>
</tr>
<tr>
<td>Interface type:</td>
<td>USB 2.0.</td>
</tr>
<tr>
<td>Frequency:</td>
<td>2.4-2.484GHz.</td>
</tr>
<tr>
<td>RF Power:</td>
<td>15dBM.</td>
</tr>
<tr>
<td>Modulation:</td>
<td>OFDM/DBPSK/DQPSK/CCK.</td>
</tr>
</tbody>
</table>

### Audio Input & Output

<table>
<thead>
<tr>
<th>Max power:</th>
<th>Built in 4x50w with internal amplifier.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQ:</td>
<td>10 band equaliser.</td>
</tr>
<tr>
<td>Sound effects:</td>
<td>Pop, classical, rock, flat, jazz, custom, voice.</td>
</tr>
<tr>
<td>AUX audio input:</td>
<td>Yes - L &amp; R.</td>
</tr>
<tr>
<td>AUX audio output:</td>
<td>RL out, FL out, RR out, FR out.</td>
</tr>
<tr>
<td>Subwoofer output:</td>
<td>Yes.</td>
</tr>
<tr>
<td>Test Voltage</td>
<td>13.8V.</td>
</tr>
</tbody>
</table>

### Mounting Style

<table>
<thead>
<tr>
<th>Din Size:</th>
<th>Double Din.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen:</td>
<td>Screen can tilt up &gt; Down &gt; left and right. Also moves up and down on a track once installed so it suits different style dashes.</td>
</tr>
</tbody>
</table>
**What's in the Box & Wiring Diagram**

1) Universal Maxx Unit.

2) Main Power Harness (universal ISO connector)

3) GPS External Antenna.

4) External Bluetooth Microphone.

5) RR,RL,FR,FL Aud Out & SUB / VID out 1&2 cable.

6) VID in / AUX L / AUX R cable.

7) CAM in / Front CAM IN cable.

8) 2 x USB cables / Bluetooth mic input cable.

9) Polaris Reverse Camera with RCA adaptor.

---

**Power Harness**

![Power Harness Diagram]

<table>
<thead>
<tr>
<th>No.</th>
<th>Colour</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Green</td>
<td>Speaker Left Rear (+)</td>
</tr>
<tr>
<td>2</td>
<td>Green with black stripe</td>
<td>Speaker Left rear (-)</td>
</tr>
<tr>
<td>3</td>
<td>White</td>
<td>Speaker Left front (+)</td>
</tr>
<tr>
<td>4</td>
<td>White with black stripe</td>
<td>Speaker Left front (-)</td>
</tr>
<tr>
<td>5</td>
<td>Grey</td>
<td>Speaker Right front (+)</td>
</tr>
<tr>
<td>6</td>
<td>Grey with black stripe</td>
<td>Speaker Right front (-)</td>
</tr>
<tr>
<td>7</td>
<td>Purple</td>
<td>Speaker Right rear (+)</td>
</tr>
<tr>
<td>8</td>
<td>Purple with black stripe</td>
<td>Speaker Right rear (-)</td>
</tr>
<tr>
<td>9</td>
<td>Red</td>
<td>12 to ignition (ACC power On)</td>
</tr>
<tr>
<td>10</td>
<td>Black</td>
<td>Ground (-)</td>
</tr>
<tr>
<td>11</td>
<td>Blue</td>
<td>Auto Antenna Control (+)</td>
</tr>
<tr>
<td>12</td>
<td>Orange</td>
<td>Illumination / Dimmer</td>
</tr>
<tr>
<td>13</td>
<td>Yellow</td>
<td>+12V to battery</td>
</tr>
</tbody>
</table>

The universal Maxx comes with a universal ISO connector. This means that you can purchase a secondary harness for certain model vehicles so that the unit becomes plug and play. We can try and source it for you or you can source it yourself. If you cannot find a secondary harness to fit, you can simply cut the ISO plug off and hardwire it into your vehicle. Please refer the wiring diagram on page 45.
Wiring Diagram

Please see installation notes on page 46.
Installation Notes

- The wiring and installation of this unit requires special technical skill and experience. If you do not feel confident installing this product or do not have the level of skill necessary, please contact Polaris on 1300 555 514 so we can refer to a recommended installer.

- Unfortunately we do not have the colour codes of every vehicle. To find the correct wires to tap into, our installers use the following items:
  - Test lamp (to find power).
  - Multimeter (to find steering wheel control wires).
  - 9 volt battery (to find the speaker wires).

- This unit is designed to be used in a vehicle with a 12 volt battery and a negative grounding. Before installing this unit to a recreational vehicle, bus, or truck, make sure the battery voltage is appropriate for this unit to be used. If installing into a 24Volt vehicle, you will need a 10 amp converter which can be purchased through automotive electronic shops such as Jaycar electronics.

- To avoid short circuit in the electrical system, ensure that the negative battery cable is disconnected before installation.

- To avoid possibility of shorting out the electrical circuit in the unit, never connect the battery wire directly to the vehicle battery.

- Always secure all wirings with cable clamps or adhesive tape to prevent short circuit.

- Please make sure all wiring connections and speaker wires are well insulated.

- When pulling the dash apart, please use quality trim tools to avoid damaging your dash.

- Please do NOT cut any plugs off of any Polaris cameras. Doing so will void your warranty! If you need to blend other brand cameras into our system, please call Polaris on 1300 555 514 so we can refer you to a recommended dealer who has the skill and experience in performing this type of work.

- If you want the reverse camera to trigger when reverse gear is engaged, you will need to find reverse power. Once you have found reverse power, connect the reversing wire (tagged as reverse-in) to it.

- Some vehicles will require extra parts such as:
  - Fascia’s to make the double din chassis fit nice and neatly.
  - CAN bus modules to retain steering wheel controls or other original features of the car.
  - modules to retain a factory amp.

- Holden vehicles with Mylink will require a special CAN bus module.

- Most European vehicles will require a CAN bus module to retain steering wheel controls.

- If there is something you are not 100% sure about when installing this unit, please give our experienced technicians a call on 1300 555 514.
Reverse Camera wiring

Red = 12 Volt positive
Black = Ground

Reversing wire (or black stripe) needs to be wired to trigger the camera when the vehicle is in reverse.

2 cam operation (e.g., car and caravan setup)

Connect to CAM IN on the back of Universal Maxx

Figure 1

(not used)

Control box

Video 2 out

Yellow: Acc+
Green: Reverse Light + Blue:
Reverse in from Maxx (see fig. 2)
Black: Ground

Figure 2

Universal Maxx

Reverse

in Blue

from control box

Camera 1

Camera 2

Micro switch (dash mounted)

Video 2 out (must be plugged into V2 out to view 2 cameras)
**Front Camera**

![Diagram of Front Camera](image)

**IMPORTANT:** If you notice the front camera showing an intermittent black and white screen you will need to connect the camera directly to another 12 volt power source in the vehicle.

---

**Mounting the unit**

- The screen is detachable, so it is best to mount the double DIN chassis in the vehicle before attaching the screen.
- The double DIN chassis will attach to most vehicle’s OEM brackets.
- Before putting your dash back together it is best to attach the screen and test all functions.
- Some vehicles will require a fascia to fill the gap around the double din chassis.
**Attaching the screen:**

1) Plug the cable in from the double din chassis into the back of the screen mount (make sure it is plugged in correctly by lining up the locating pin).

2) Hold the screen and push the mount into the opening located on the double din chassis.

3) The mount should click in place. If you do not hear a click, then it has not attached correctly.

**Warning:** Once installed, please avoid constant detaching and attaching of the screen. Constantly detaching and attaching may reduce the life of the Universal Maxx.

**TOUCH SCREEN NOT RESPONSIVE:** Once you have attached the screen and powered the unit up, if you find that the touch screen is non responsive, this means that the screen has not been attached properly. To rectify this issue you need to remove constant power before reattaching the screen again. The easiest way to do this is to remove positive from your car battery > reattach the screen > reattach positive on your car battery.

If you are not comfortable doing this, then simply disconnect the main harness from the back of the Universal Maxx > reattach the screen > and plug back main harness back in
Steering Wheel Controls

Installation

Steering wheel controls should work for all non CAN bus vehicles provided that Key 1, Key 2 and steering wheel ground have been hardwired in properly according to your specific vehicle.

Some CAN bus vehicles will work with a specific module, please call Polaris to see if we have a solution for your vehicle.

Please note that even if the steering wheel controls are hardwired in, you will still have to programme them in, please see below.

Programming in your steering wheel controls

Select Wheel Key study from the main menu

Select and press one of your steering wheel controls.

Once you have selected one of your steering wheel controls, the following screen will appear:

You can select a different function for short press and long press.

For example if I have selected my mode button, I can select the mode function as my short press and then I can choose the ‘ok google’ function for my long press. This means that when I hold down my mode button, ‘ok google’ will appear.
**Steering Wheel Controls**

Once you have programmed all your steering wheel controls in, your screen should look similar to the one below:

![Steering Wheel Controls](image)

If you have made a mistake or you wish to change the functions you can press **reset** and start the process again.

**Steering Wheel Control functions**

- **Power/standby**
- **Home/main menu**
- **Back to previous screen**
- **Widgets**
- **Volume Up**
- **Volume Down**
- **Mode**
- **Navigation**
- **Radio**
- **Mute**
- **Bluetooth**
- **Answer call**
- **Hang up call**
- **Brightness control**
- **Ok Google**
- **Stop (music/movies files)**
- **Skip previous**
- **Skip forward**
- **Rewind**
- **Fast Forward**
- **Toggle loud on/off**
- **Sound & Equaliser**
- **Settings**
- **AV in**
- **Equaliser**
- **Radio: Scans through pre-sets**
- **Radio: Scans**
- **Play/Pause (music/movie files)**
- **Radio: Change bands**
- **Radio: Seek up**
- **Radio: Seek Down**
Dimensions

260mm

295mm

260mm

155mm

10mm

155mm

100m

177mm

20mm

57mm
Installing third party apps

♦ Polaris accept no responsibility for third party apps installed on the device.
♦ Please be aware that the more apps you install on the device, the slower the unit will perform.
♦ If you are having trouble with a third party app, we will do our best to try and help you but unfortunately it is out of our control if a third party app is causing issues with the unit or the app itself is malfunctioning.
♦ Not all third party apps are going to be compatible with this device.
♦ Not all third party apps will work in split screen function.
♦ Please ensure that you download third party apps from a reputable source as it possible to corrupt the unit by installing malicious software.
Thank you for purchasing a Polaris product.

If you have any enquires or queries, please call Polaris on 1300 555 514.

**Returns Procedure**

The warranty on this unit is 3 years from the date of purchase.

If you are having problems with this unit, please follow these steps:

1) Please contact us on 1300 555 514 or email technical@poron.com.au as there may be a quick solution by changing some settings.

2) If our technician has exhausted all options and determines that the unit needs to be sent back for assessment please visit [www.polarisgps.com.au > warranty & returns > returns form](http://www.polarisgps.com.au). Please print and fill out the return form and include a copy with the goods. For a speedy return process please try and be as detailed as possible when describing the fault.

3) Package the item up and send back to:
   TO: Polaris
   ATTN: Returns
   PO Box 7236
   Silverwater, NSW, 2128
   We suggest registering the parcel so that you have a tracking number in case the item gets lost in the post.

Polaris
283c Victoria Rd, RYDALMERE, NSW, 2116
Phone: 1300 555 514