GARMIN.

GPSMAP® 9500

INSTALLATION INSTRUCTIONS

Important Safety Information

★ WARNING

See the Important Safety and Product Information guide in the product box for product warnings and other important information.

When connecting the power cable, do not remove the in-line fuse holder. To prevent the possibility of injury or product damage caused by fire or overheating, the appropriate fuse must be in place as indicated in the product specifications. Connecting the power cable without the appropriate fuse in place voids the product warranty.

Failure to install this device according to these instructions could result in personal injury, damage to the vessel or device, or poor product performance.

△ CAUTION

To avoid possible personal injury, always wear safety goggles, ear protection, and a dust mask when drilling, cutting, or sanding.

To avoid possible personal injury or damage to the device and vessel, disconnect the vessel's power supply before beginning to install the device.

To avoid possible personal injury or damage to the device or vessel, before applying power to the device, make sure that it has been properly grounded, following the instructions in the guide.

To avoid possible personal injury or damage to this device and vessel, only install this device when the vessel is on land, or when properly secured and docked in calm water conditions.

NOTICE

When drilling or cutting, always check what is on the opposite side of the surface to avoid damaging the vessel.

Read all installation instructions before proceeding with the installation. If you experience difficulty during the installation, contact Garmin® Product Support.

Contacting Garmin Support

- Go to support.garmin.com for help and information, such as product manuals, frequently asked questions, videos, and customer support.
- In the USA, call 913-397-8200 or 1-800-800-1020.
- In the UK, call 0808 238 0000.
- In Europe, call +44 (0) 870 850 1241.

Software Update

You may need to update the chartplotter software after installation. For the instructions on how to update the software, see the owner's manual at garmin.com/manuals/GPSMAP9500.

Connector View



1	Status LED	
POWER	Power cable connection	
NETWORK	$\label{lem:consider} \textit{Garmin BlueNet Network Considerations}, \textit{page 2})$	
USB	USB-C° to connect a compatible Garmin card reader ¹ .	
HDMI IN 1	HDMI® input compatible with HDMI devices up to 4K at 60 fps	
HDMI IN 2	HDMI input compatible with HDMI devices up to 4K at 30 fps	
HDMI OUT	HDMI out to connect the chartplotter to a monitor. Required for device functionality.	
÷	Power ground	
ტ	Power button	
AUDIO	Audio out	
USB DRD	Dual-Role-Data (DRD) USB-C that can be configured as either a host or a client.	
CVBS IN	Composite video in	
NMEA 2000	NMEA 2000° network	
J1939	J1939 network	

Tools Needed

- Dril
- Drill bits appropriate for the surface and hardware (3.2 mm ($^{1}/_{8}$ in.) drill bit for included screws)
- Phillips screwdriver
- Pencil

Mounting Considerations

NOTICE

This device should be mounted in a location that is not exposed to extreme temperatures or conditions. The temperature range for this device is listed in the product specifications. Extended exposure to temperatures exceeding the specified temperature range, in storage or operating conditions, may cause device failure. Extreme-temperature-induced damage and related consequences are not covered by the warranty.

- You must mount the device in a location where it will not be submerged.
- You must mount the device in a location with adequate ventilation so it does not trap heat.
- You must mount the device at least 2.54 cm (1 in.) from cables and other potential sources of interference.
- You must mount the device in a location that allows room for the routing and connection of all cables.

Mounting the GPSMAP 9500 Black Box Device

NOTICE

If you are mounting the device in fiberglass, when drilling the pilot holes, use a countersink bit to drill a clearance counterbore through only the top gel-coat layer. This will help to avoid cracking in the gel-coat layer when the screws are tightened.

NOTE: Screws are included with the device, but they may not be suitable for the mounting surface.

Before you mount the device, you must select a mounting location, and determine what screws and other mounting hardware are needed for the

- Place the black box device in the mounting location, and mark the location of the pilot holes.
- 2 Drill a pilot hole for one corner of the device.

¹ An adapter cable (010-12390-13) may be required when connecting an external card reader to this port.















- 3 Loosely fasten the device to the mounting surface with one corner, and examine the other three pilot-hole marks.
- 4 Mark new pilot-hole locations if necessary, and remove the device from the mounting surface.
- 5 Drill the remaining pilot holes.
- 6 Secure the device to the mounting location.

Connection Considerations

When connecting this device to power and to other Garmin devices, you should observe these considerations.

- The power and ground connections to the battery must be checked to make sure they are secured and cannot become loose.
- The cables may be packaged without the locking rings installed. The cables should be routed before the locking rings are installed.
- After installing a locking ring on a cable, you should make sure the ring is securely connected and the o-ring is in place so the power or data connection remains secure.

Connecting to Power

△ WARNING

When connecting the power cable, do not remove the in-line fuse holder. To prevent the possibility of injury or product damage caused by fire or overheating, the appropriate fuse must be in place as indicated in the product specifications. Connecting the power cable without the appropriate fuse in place voids the product warranty.

You should connect the red wire to the power source through the ignition or another manual switch to turn the device on and off.

- 1 Route the power cable to the power source. If necessary, you can extend the power cable (Power Cable Extensions, page 2).
- 2 Connect the red power wire to the ignition or another manual switch, and connect the switch to the positive (+) battery terminal if necessary.
- 3 Connect the black wire to the negative (-) battery terminal or to ground.

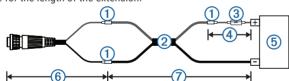
Additional Grounding Consideration

This device should not need additional chassis grounding in most installation situations. If you experience interference, you can use the grounding screw on the housing to connect the device to the water ground of the boat to help avoid the interference.



Power Cable Extensions

If necessary, the power cable can be extended using the appropriate wire gauge for the length of the extension.



- Splice
 - Up to 4.6 m (15 ft.): 10 AWG (5.26 mm²) extension wire
 - Up to 7 m (23 ft.): 8 AWG (8.36 mm²) extension wire
 - Up to 11 m (36 ft.): 6 AWG (13.29 mm²) extension wire
- 3 Fuse (10 A, 42 V fast-acting)
- 4 20.3 cm (8 in.)
- Battery
- 6 20.3 cm (8 in.)
- 7 11 m (36 ft.) maximum extension

Power Considerations

While you can turn the device on and off using the power key, the device will likely not be easily accessible to do so. You should consider connecting a switch or one of the following to turn the GPSMAP 9500 device on and off:

A GRID[™] device

NOTE: A GRID 20 device will **not** turn the GPSMAP 9500 device on or off. Using the power key on the GRID 20 device will place the GPSMAP 9500 device into sleep mode.

- · Another Garmin chartplotter
- A GMM[™] monitor

When power is applied to the GPSMAP 9500 device, the device will turn on. You cannot disable the auto power on feature.

Garmin BlueNet Network Considerations

This device can connect to additional Garmin devices to share data such as radar, sonar, and detailed mapping using Garmin BlueNet technology. For more information about Garmin BlueNet technology, including best practices for properly constructing a network that contains both Garmin BlueNet devices and legacy Garmin Marine Network devices, go to garmin.com/manuals/bluenet.

When connecting Garmin BlueNet devices and legacy Garmin Marine Network devices to this device, observe these considerations.

- The NETWORK ports on the device each act as a Garmin BlueNet network switch. Any Garmin BlueNet device can connect to any NETWORK port to share data with all devices on the boat connected by a Garmin BlueNet cable.
- You can connect legacy Garmin Marine Network devices to this device if you install a Garmin BlueNet 30 gateway.
- All devices connected to the Garmin BlueNet network must be connected
 to the same ground. If multiple power sources are used for Garmin
 BlueNet network devices, you must tie all ground connections from all
 power supplies together using a low resistance connection or tie them to
 a common ground bus bar, if available.
- You must use a Garmin BlueNet network cable for all Garmin BlueNet network connections.
 - You must not use third-party CAT5 cable and RJ45 connectors for Garmin BlueNet network connections.
 - Additional Garmin BlueNet cables and connectors are available from your Garmin dealer or from garmin.com.

Station Connection Considerations

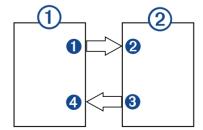
This device can be set up in conjunction with other compatible Garmin devices to work together as a station. When planning stations on your boat, observe these considerations.

- Devices earlier than the GPSMAP 8000 series and GPSMAP 8500 series cannot be used in a station.
- Although it is not necessary, it is recommended that you install all of the devices you plan to use in one station near each other.
- All of the devices you plan to use in stations must be connected to the Garmin BlueNet network (*Garmin BlueNet Network Considerations*, page 2). No additional, special connections are necessary.
- Stations are created and modified using the device software. See the device owner's manual for more information.

Third-Party Touchscreen Connection Considerations

When connecting a third-party touchscreen to view and control the GPSMAP 9500 device, you must observe these considerations.

- The video data is sent over the HDMI connection.
- · The touch data is sent over the USB connection.



Devices

Item	Device
1	GPSMAP chartplotter
2	Third-party touchscreen monitor

Connections

From	То	Cable
Chartplotter's HDMI OUT port	Monitor's HDMI IN port	Garmin HDMI Cable (010-12390-20)
Monitor's USB port	4 Chartplotter's USB port	Garmin USB-C to USB-A Adapter Cable (010-12390-14)

NOTE: If the monitor is not a touchscreen, you should install a GRID remote input device or a GRID 20 remote input device so you can interact with the chartplotter.

NMEA 2000 Considerations

NOTICE

If you are connecting to an **existing** NMEA 2000 network, identify the NMEA 2000 power cable. Only one NMEA 2000 power cable is required for the NMEA 2000 network to operate properly.

A NMEA 2000 Power Isolator (010-11580-00) should be used in installations where the existing NMEA 2000 network manufacturer is unknown.

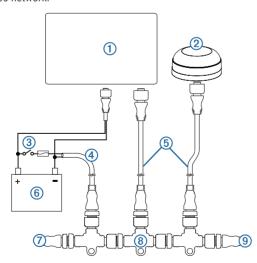
If you are installing a NMEA 2000 power cable, you must connect it to the boat ignition switch or through another in-line switch. NMEA 2000 devices will drain your battery if the NMEA 2000 power cable is connected to the battery directly.

This device can connect to a NMEA 2000 network on your boat to share data from NMEA 2000 compatible devices such as a GPS antenna or a VHF radio. The included NMEA 2000 cables and connectors allow you to connect the device to your existing NMEA 2000 network. If you do not have an existing NMEA 2000 network you can create a basic one using cables from Garmin.

This device is not powered through the NMEA 2000 network. You must connect the device to a power source (*Connecting to Power*, page 2).

If you are unfamiliar with NMEA 2000, you should read the *Technical Reference for NMEA 2000 Products* at qarmin.com/manuals/nmea_2000.

The port labeled NMEA 2000 is used to connect the device to a standard NMEA 2000 network.



Item	Description
1	NMEA 2000 compatible Garmin device
2	GPS antenna
3	Ignition or in-line switch

Item	Description
4	NMEA 2000 power cable
5	NMEA 2000 drop cable
6	12 Vdc power source
7	NMEA 2000 terminator or backbone cable
8	NMEA 2000 T-connector
9	NMEA 2000 terminator or backbone cable

Remote Input Device Connection and Control

If you do not connect the chartplotter to a touchscreen monitor, you can install a GRID 20 remote input device (sold separately) to interact with and control the chartplotter.

You should follow the installation instructions provided with the remote input device to install it on the vessel and connect it to the same NMEA 2000 network as the chartplotter. After connecting the remote input device, you must perform a procedure to pair it with the chartplotter.

Pairing the GRID 20 Device with the Chartplotter

- 1 On the GRID 20 device connected to the same NMEA 2000 network as the chartplotter, hold ■ and ■ until the device beeps.
 - A GRID™ Pairing page opens on all of the chartplotters on the network.
- 2 Press ◀ or ▶ repeatedly on the GRID20 device until **Add** is highlighted on the chartplotter you want to control with the GRID 20 device.
- 3 Press the knob to confirm.

J1939 Engine Network Connection Considerations

NOTICE

You must use a Garmin GPSMAP J1939 accessory cable when connecting the chartplotter to the J1939 engine network to prevent corrosion due to moisture. Using a different cable voids your warranty.

If you have an existing engine network on your boat, it should already be connected to power. Do not add any additional power supply.

This chartplotter can connect to an engine network on your boat to read data from compatible devices such as certain engines. The engine network follows a standard and uses proprietary messages.

You should consult the manufacturer of your engine or engine network when connecting the chartplotter. Some manufacturers may have requirements you must follow when connecting to avoid unexpected behavior.

The port labeled J1939 is used to connect the device to the existing engine network. You must route the cable within 6 m (20 ft.) of the engine network backbone.

The Garmin GPSMAP J1939 accessory cable requires connection to a power source and proper termination. For more information on connecting to your engine network, see the manufacturer's engine documentation.



Pin	Wire Color	Description
1	Bare	Shield
2	Red	Power, positive
3	Black	Power, negative
4	White	CAN High
5	Blue	CAN Low

HDMI Video Considerations

NOTICE

To prevent corrosion due to moisture, you must use Garmin GPSMAP accessory cables when connecting the chartplotter to the video source or display. Do not connect a media player stick directly into the back of the chartplotter. Using different cables or connecting a media player stick into the back of the chartplotter voids your warranty.

Through the HDMI OUT port, you can display the video on screen, such as a television or monitor.

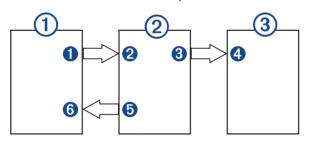
The GPSMAP 9500 chartplotter allows video input from HDMI video sources, such as a Chromecast" device or a Blu-Ray" player, and you can view video on a monitor connected to the HDMI OUT port. You can view protected HDMI content (HDCP content) on an external monitor that supports industry HDCP standards, but are limited with how you can view that content on additional devices across the Garmin BlueNet network and across the Garmin Marine Network.

HDMI video is shared across the Garmin BlueNet network and across the Garmin Marine Network, but it is not shared across the NMEA 2000 network. HDCP content cannot be shared across the Garmin network to GPSMAP 8000 series or older chartplotters. HDCP content can be shared by a GPSMAP 9000 series chartplotter only to other GPSMAP 9000 series chartplotters connected to the Garmin BlueNet network.

The Garmin GPSMAP HDMI accessory cable is 4.5 m (15 ft) long. If you need a longer cable, you should use an active HDMI cable only. You need an HDMI coupler to connect the two HDMI cables.

You can use an adapter cable to power a media player stick using a USB port on the chartplotter. The USB port on a GPSMAP 8000 series chartplotter and the USB DRD port on a GPSMAP 9000 series chartplotter can supply up to 2.5 W to power a media player stick. The USB port on a GPSMAP 9000 series chartplotter can supply up to 4.5 W to power a media player stick

You must make all cable connections in a dry environment.



Devices

Item	Device
1	HDMI source, such as a Chromecast device
2	GPSMAP chartplotter
3	Monitor, such as a computer or television

Connections

From	То	Cable
HDMI source's HDMI OUT port	Chartplotter's HDMI IN 1/HDMI 2 port	Garmin HDMI Cable
Chartplotter's HDMI OUT port	Monitor's HDMI IN port	Garmin HDMI Cable
6 Chartplotter's USB DRD or USB port	6 HDMI source's USB port	Adapter cable to power the HDMI source, if possible (2.5 W or 4.5 W maximum depending on chartplotter model and USB port)

Composite Video Considerations

This chartplotter allows video input from composite video sources using the port labeled CVBS IN. When connecting composite video, you should observe these considerations.

- The CVBS IN port uses a BNC connector. You can use a BNC to RCA adapter to connect a composite-video source with RCA connectors to the CVBS IN port.
- Video is shared across the Garmin Marine Network, but it is not shared across the NMEA 2000 network.

Touchscreen Controls for a Connected Computer

NOTICE

To prevent corrosion due to moisture, you must use Garmin GPSMAP accessory cables when connecting the chartplotter to the computer. Using different cables voids your warranty.

You can connect the chartplotter to a computer to see the computer screen and to control the computer using a touchscreen. To see the computer screen, you must connect the computer to the HDMI IN 1/HDMI 2 port and connect the touchscreen to the HDMI OUT port. To control the computer using the chartplotter touchscreen, you must connect the computer to the USB DRD port and connect the touchscreen to the USB port.

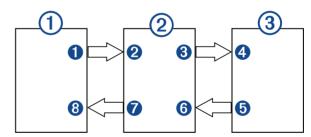
The HDMI Cable (010-12390-20) is $4.5\ m$ (15 ft) long. If you need a longer cable, you should use an active HDMI cable only. You need an HDMI coupler to connect the two HDMI cables.

The recommended Garmin USB Cable (010-12390-14) is $4.5\,\mathrm{m}$ (15 ft) long. If you need a longer cable, you should use a USB hub or USB repeater extension cable only.

NOTICE

To avoid potential communication errors, you should use the correct USB cable for your chartplotter. You should not use an adapter to change the USB connector type on an older cable.

You must make all cable connections in a dry environment.



Devices

Item	Device
1	Computer
2	GPSMAP chartplotter
3	Touchscreen monitor

Connections

From	То	Cable
Computer's HDMI OUT port	Chartplotter's HDMI IN 1/HDMI 2 port	Garmin HDMI Cable (010-12390-20)
Chartplotter's HDMI OUT port	Monitor's HDMI IN port	Garmin HDMI Cable (010-12390-20)
Monitor's USB port	6 Chartplotter's USB port	Garmin USB-C to USB-A Cable (010-12390-14)
Chartplotter's USB DRD port	3 Computer's USB port	Garmin USB-C to USB-A Cable (010-12390-14)

Specifications

opositionis		
Dimensions (W × H × D)	$38.3 \times 19.8 \times 5.3$ cm $(15^{1}/_{8} \times 7^{13}/_{16} \times 2^{3}/_{32}$ in.)	
Clearance on front of device	8.6 cm (3 ³ / ₈ in.)	
Weight	1.58 kg (3.49 lb.)	
Compass-safe distance	2.54 cm (1 in.)	
Temperature range	From -15° to 55°C (from 5° to 131°F)	
Material	Polycarbonate plastic and die-cast aluminum	
Water rating	IEC 60529 IPX7 ²	
Fuse	4 A, 42 V fast-acting	
Input voltage	From 10 to 32 Vdc	
Max. power usage at 10 Vdc	25 W	
Typical current draw at 12 Vdc	19.1 W	
Max. current draw at 12 Vdc	2.08 A	
NMEA 2000 LEN @ 9 Vdc	2	
NMEA 2000 draw	75 mA max.	
HTML integration	Compatible with OneHelm [™] integration	
Memory card	External card reader required (not included)	
Wireless frequency and protocols	Wi-Fi® and ANT® technologies 2.4 GHz @ 17.21 dBm maximum	

NMEA 2000 PGN Information

Transmit and Receive

Transmit and receive		
PGN	Description	
059392	ISO acknowledgment	
059904	ISO request	
060160	ISO transport protocol: Data transfer	
060416	ISO transport protocol: Connection management	
060928	ISO address claimed	
126208	Request group function	
126993	Heartbeat	
126996	Product information	
126998	Configuration information	
127237	Heading/track control	
127245	Rudder	
127250	Vessel heading	
127258	Magnetic variance	
127488	Engine parameters: Rapid update	
127489	Engine parameters: Dynamic	
127493	Transmission parameters: Dynamic	
127505	Fluid level	
127508	Battery status	
128259	Speed: Water referenced	
128267	Water depth	
129025	Position: Rapid update	
129026	COG and SOG: Rapid update	
129029	GNSS position data	
129283	Cross track error	
129284	Navigation data	

PGN	Description
129285	Navigation - route/waypoint information
129539	GNSS DOPs
129540	GNSS satellites in view
130060	Label
130306	Wind data
130310	Environmental parameters (obsolete)
130312	Temperature (obsolete)

Transmit

PGN	Description
126464	Transmit and receive PGN list group function
126984	Alert response
127258	Magnetic variation
127497	Trip parameters: Engine
127502	Switch bank control (DEPRECATED)

Receive

Keceive								
PGN	Description							
065030	Generator average basic AC quantities (GAAC)							
065240	Commanded address							
126983	Alert							
126985	Alert text							
126987	Alert threshold							
126988	Alert value							
126992	System time							
127233	Man overboard							
127237	Heading/track control							
127245	Rudder							
127251	Rate of turn							
127252	Heave							
127257	Attitude							
127498	Engine parameters: Static							
127501	Switch bank status							
127503	AC input status (obsolete)							
127504	AC output status (obsolete)							
127506	DC detailed status							
127507	Charger status							
127509	Inverter status							
128000	Nautical leeway angle							
128275	Distance log							
128780	Linear actuator							
129038	AIS class A position report							
129039	AIS class B position report							
129040	AIS class B extended position report							
129041	AIS Aids to Navigation (AtoN) report							
129044	Datum							
129285	Navigation: Route, waypoint information							
129794	AIS class A static and voyage related data							

²The device withstands incidental exposure to water of up to 1 m for up to 30 min. For more information, go to www.garmin.com/waterrating.

PGN	Description						
129798	AIS SAR aircraft position report						
129799	Radio frequency/mode/power						
129802	AIS safety-related broadcast message						
129808	DSC call Information						
129809	AIS class B "CS" static data report, part A						
129810	AIS class B "CS" static data report, part B						
130067	Route and waypoint service: Route, waypoint name and position						
130311	Environmental parameters (obsolete)						
130313	Humidity						
130314	Actual pressure						
130316	Temperature: Extended range						
130569	Entertainment: Current file and status						
130570	Entertainment: Library data file						
130571	Entertainment: Library data group						
130573	Entertainment: Supported source data						
130574	Entertainment: Supported zone data						
130576	Trim tab status						
130577	Direction data						

JI939 Information

The chartplotter can receive J1939 sentences. The chartplotter cannot transmit over the J1939 network.

Description	PGN	SPN
Engine percent load at current speed	61443	92
Engine speed	61444	190
Engine manifold exhaust gas temperature - right manifold	65031	2433
Engine manifold exhaust gas temperature - left manifold	65031	2434
Engine auxiliary coolant	65172	
Active diagnostic trouble codes	65226	
Vehicle distance	65248	
Water in fuel indicator	65279	
Engine wait to start lamp	65252	1081
Engine over speed test	65252	2812
Engine air shutoff command status	65252	2813
Engine alarm output command status	65252	2814
Engine total hours of operation	65253	247
Navigation-based vehicle speed	65256	517
Engine fuel temperature 1	65262	174
Engine oil temperature 1	65262	175
Engine fuel delivery pressure	65263	94
Engine oil pressure	65263	100
Engine coolant pressure	65263	109
Engine coolant temperature	65263	110
Engine coolant level	65263	111
Engine fuel rate	65266	183
Engine average fuel economy	65266	185
Engine intake manifold #1 pressure	65270	102
Battery potential / power input 1	65271	168
Transmission oil temperature	65272	177
Transmission oil pressure	65272	127

Description	PGN	SPN
Fuel level	65276	96
Engine oil filter differential pressure	65276	969

Status LED

LED Activity	Status
Solid red	The device is turning on.
Flashing green	The device is operating normally.
Flashing orange	The device software is being updated.

物質宣言

	有語	有毒有害物质或元素								
部件名称	铅	汞	镉	六价 铬	多溴联苯	多溴二苯醚	邻二 酸 (2-乙) 基 1	邻苯 二甲 酸丁 苄酯	邻 本 二 酸 丁 酯	邻苯 二酸二 幹丁 酯
印刷电 路板组 件	×	0	0	0	0	0	0	0	0	0
金属零 件	×	0	0	0	0	0	0	0	0	0
电缆 电缆组件连接器	×	0	0	0	0	0	0	0	0	0
塑料和 橡胶零 件	0	0	0	0	0	0	0	0	0	0

本表格依据 SJ/T11364 的规定编制。

O: 代表此种部件的所有均质材料中所含的该种有害物质均低于 (GB/T26572) 规定的限量

X: 代表此种部件所用的均质材料中, 至少有一类材料其所含的有害物质高于

品

(GB/T26572) 规定的限量

*该产品说明书应提供在环保使用期限和特殊标记的部分详细讲解 产品的担保使用条件。

中国微功率无线电发射设备合规

一)工作于 2402-2480 MHz 频段的 ANT 技术无线遥控设备,使用频率: 2402-2480 MHz,发射功率限值:10 dBm(e.i.r.p),频率容限:+/- 20 ppm

二) 不得擅自改变使用场景或使用条件、扩大发射频率范围、加大发射功率(包括额外加装射频功率放大器),不得擅自更改发射天线;

三) 不得对其他合法的无线电台(站)产生有害干扰,也不得提出免受有害干扰保护;

四) 应当承受辐射射频能量的工业、科学及医疗(ISM)应用设备的 干扰或其他合法的无线电台(站)干扰;

五) 如对其他合法的无线电台(站)产生有害干扰时,应立即停止使用,并采取措施消除干扰后方可继续使用:

六)在航空器内和依据法律法规、国家有关规定、标准划设的射电天文台、气象雷达站、卫星地球站(含测控、测距、接收、导航站)等军民用无线电台(站)、机场等的电磁环境保护区域内使用微功率设备,应当遵守电磁环境保护及相关行业主管部门的规定;

七)禁止在以机场跑道中心点为圆心、半径 5000 米的区域内使用各类模型遥控器:

八) 微功率设备使用时温度 -10-55℃ 直流电压 10-35 Vdc。

联系信息

制造厂商:台湾国际航电股份有限公司

销售厂商:上海佳明航电企业管理有限公司

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- 1 Select A.
- 2 Select System.
- 3 Select Regulatory Information.

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