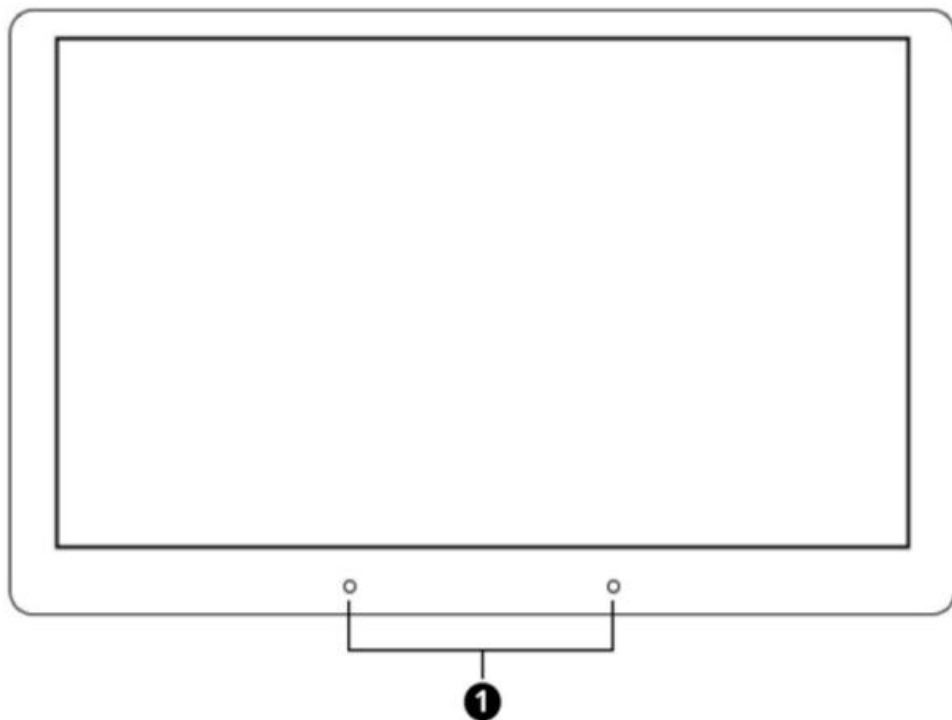


Chapter 1 Physical Hardware Overview

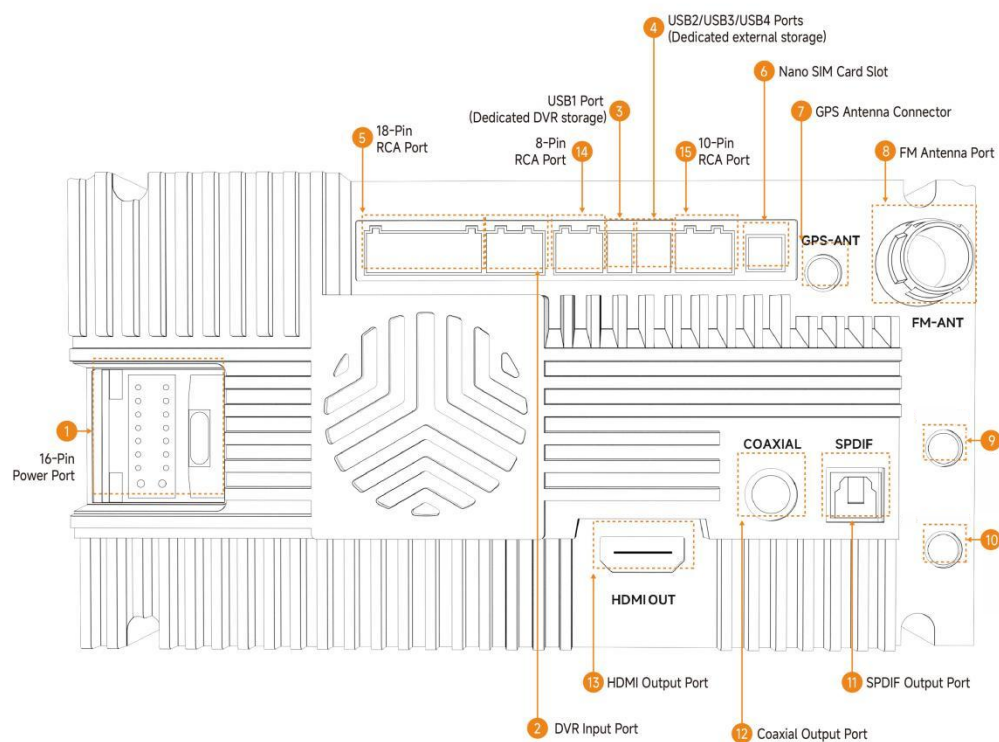
1.1 Front Panel Overview (V10 Android Head Unit)

The front panel of the head unit contains two built-in microphones, which ensure clearer voice pickup for hands-free calls, voice commands, and voice assistant interaction.



Built-in Dual Noise-Canceling Microphone

1.2 Rear Panel Ports (V10 Android Head Unit)



Chapter 2 Technical Specifications

Main Technical Specifications of V10 Android Head Unit		
Items	Specifications	
Operating System	Android 14.0 (Based on Android 14)	
SoC Chipset	RK3576, Octa-core (Quad-core A72 + Quad-core A53), up to 2.3GHz	
Memory	Built-in RAM/ROM: 6GB + 128GB	
Wireless Network	Wi-Fi	802.11 b/g/n MAC/BB/RF
	Wi-Fi Bands	5GHz
	Wi-Fi Hotspot	5GHz
Screen	Screen Size (Inch)	Depending on model: 7", 9.35", or 10.1" (diagonal)
Radio	Screen Type	QLED
	Resolution	7" QLED: 1280 x 720 resolution 9.35" QLED: 1280 x 800 resolution 10.1" QLED: 1280 x 800 resolution
	Brightness	550cd/m2
	Receiving Frequency	Russia: FM (65–108 MHz), AM (522–1710 KHz), frequency varies by region;
Wireless Bluetooth	RDS Decoder	Supported
	Digital Audio Output	Not Supported
	Stereo Audio DAC	Supported
	Bluetooth Module	Bluetooth Version: GBTS_8800D40/ BT5.4
DSP Acoustics	Equalizer Bands	Protocols: HFP、HSP、A2DP、AVRCP、PBAP
		Channel Output: Stereo and Mono
		32-band EQ
Pre-Amplifier	EQ Frequency Bands	20/25/32/40/50/63/80/100/125/160/200/250/315/400/500/630/800/1k/1.2k/1.6k/2k/2.5k/3.1k/4k/5k/6.3k/8K/10k/12.5k/16k/18k/20.0k (Hz)
	Adjustable Gain	-15-----15 (dB)
	EQ Presets	Standard / Pop / Rock / Classical / Jazz / Custom
	Output Power	Max peak 4x50W; 4 x 29W RMS / 4Ω @14.4V, 1kHz, THD 10%
Media Playback	Speaker Impedance	Standard models: 4–8Ω
	Output Frequency	20 – 20,000 Hz
	Audio Sampling	D/A Converter: 24Bit
Global	Audio Decoding	MP3, WAV, APE, WMA, AC3, AAC, AMR, M4R,

Positioning System		M4A,OGG, FLAC, PCM 、 MP2, RA, MKA, AMR, AWB, DSD(DSD64/128/256)	
	Video Decoding	3GP, MP4, M4V, AVI, MOV, TS, FLV, MPG, WMV, OGM, DAT, RMVB、 RM, 8K Video	
	Positioning Systems	BDS、 GPS、 GLONASS	
Input&Output	Positioning Capabilities	163 dBm Hot Start Sensitivity 148 dBm Cold Start Sensitivity 151 dBm Warm Start Sensitivity	
	Full A-GPS Function Supported	E911 / SUPL / EPO / Hot Distiller	
	Satellite Channels	20 Channels	
	Positioning Accuracy	<10m	
	USB Data Ports	3 USB Ports	
	General	USB Fast Charging Port	4 USB Ports + 1 SD Port(for retractable Android Head Unit or 7" non-retractable models)
		USB1 supports 5V/500mA output (located on the rear panel, 4PIN group)	USB1 for DVR storage; USB2/USB3/USB4/SD Port for external storage (currently only 3 are used)
Audio Output		4 x RCA Outputs (4V / 4.7kΩ): Marked <FL>/<RL>/<RR>/<FR> (5.1 channels)	
RCA Audio Output		RCA Subwoofer Outputs (4V / 4.7kΩ): Marked <SUB> – SUB R / SUB L	
Auxiliary Audio Input		RCA Center Outputs (4V / 4.7kΩ)	
		2 x Audio Inputs (L/R) (Max 1V / 25kΩ): Marked <LIN> / <RIN>	
Auxiliary Video Input		1 x Video Input (1Vp-p / 75Ω): Marked <VIN>	
FCAM Video Input		1 x Video Input (1Vp-p / 75Ω): Marked <Front Camera Input> – FCAM	
RCAM Video Input		1 x Video Input (1Vp-p / 75Ω): Marked <Front Camera Input>– RCAM	
Coaxial Output		1 x Digital Audio Coaxial Output: Marked <COAXIAL>	
Optical SPDIF Output		1 x SPDIF Digital Optical Audio Output (TOSLINK): Marked <SPDIF>	
		Storage Temperature Range: -30°C to +80°C	

FCC Statement

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.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antenna(s).