

Kenwood DMX9720XDS Key Features

10.1" HD Display with Capacitive Touch Screen
Floating Panel Mechanism
DAB+ Digital Radio & FM/AM Receiver
Bluetooth Hands Free & Audio Streaming
Compatible with Wireless High Res Audio (LDAC)
Wireless & Wired Apple CarPlay® Ready
Wireless & Wired Android Auto™ Ready
Wireless Mirroring for Android
Up to 4 camera inputs
3 RCA high power (5V) preouts (front/rear/sub)
Compatible with High Res Audio + LDAC
Digital Sound Processor, Time Alignment & 13-Band EQ

General Features

DIN Size	2 DIN
Security Code Function (user set)	Yes, Set by user
Smooth GUI	Yes
Selectable GUI Background Wallpaper	Yes
Key Illumination	Variable color
<u>Installer Memory</u>	Yes
<u>Back-up Memory</u>	Yes
Attenuator with Smooth Volume Return	Yes
<u>Optional IR remote controller</u>	Yes, (KCA-RCDV331)
Digital Clock (24H)	Yes
<u>Built-in Bluetooth</u>	Yes
<u>DAB Tuner Built-in</u>	Yes
Wifi built-in	Yes
<u>Made for iPod</u>	Yes
<u>Works with Apple CarPlay</u>	Yes
<u>Works Wireless with Apple CarPlay</u>	Yes
<u>Works with Android Auto</u>	Yes

<u>Works Wireless with Android Auto</u>	Yes
<u>Wireless Mirroring for Android</u>	Yes
<u>Firmware upgradable</u>	Yes
<u>HDMI input</u>	for video playback
<u>Dashcam Link</u>	Yes

Monitor Features

Screen Type	10,1" HD
<u>Display Mode</u>	3 Mode (Full(default)/Auto/Normal)
Screen Adjustments	<ul style="list-style-type: none"> ▶ Noon & Night Memory. ▶ Brightness. ▶ Tint. ▶ Colour. ▶ Contrast. ▶ Black Level. ▶ Backlight.
<u>Dimmer function</u>	Manual/Sync
Dimmer Level	Sync / On / Off
Visual Source Mode	Mirroring / CarPlay / Android Auto.
<u>Touch Panel</u>	Capacitive
Display Type	Glare
Display film	Anti-Fingerprint / Anti-Reflection / Anti-Glare)
Display Panel	Capacitive
Mechanism type	Floating screen
<u>Tilt mechanism control</u>	-10° ~ +45°
<u>Forward/backward mechanism control</u>	0 ~ 22mm (fixed by screws)
<u>Up/Down mechanism control</u>	0 ~ 39mm (fixed by screws)
LCD viewing angle control	"0" (Default) / "-1" / "-2" / "-3"
NTSC/PAL judge	Yes (Auto)

Multimedia GUI Features

Menu text	22 languages: <ul style="list-style-type: none"> ▶ English(UK)(Default) ▶ English(US) ▶ Spanish
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	<ul style="list-style-type: none"> ▶ French ▶ German ▶ Italian ▶ Dutch ▶ Russian ▶ Portuguese ▶ Chinese (Simplified) ▶ Chinese (Traditional) ▶ Thai ▶ Turkish ▶ Arabic ▶ Persian ▶ Hebrew ▶ Greek ▶ Malaysian ▶ Indonesian ▶ Polish ▶ Czech ▶ Hungarian
Software updates (SoC)	via USB
Graphics Type	Graphics
Spectrum Analyzer	Yes
Demonstration Mode	Yes
<u>Top Menu Customize</u>	Yes
Opening Screen Type	standard
Background Customize	Preset x6: <ul style="list-style-type: none"> ▶ Static x4. ▶ Colour Customize x1. ▶ Sync Album Art x1. ▶ USER x2.
Wallpaper colour change	Yes
<u>Multi Widgets</u>	Full screen, Flexible source, Drive & Photo Frame Widget
Picture in picture	Yes
Animation	Yes
Screen Capture	Yes
R-CAM interrupt	Yes
R-CAM Caution On Screen Display	Yes
<u>R-CAM Parking Guide Lines</u>	Yes
<u>Front Camera Interruption</u>	Yes
Front view camera mirror	Yes
DashCam Control	Yes
Rapid charge indicator	Yes

Network & Wifi features

<u>WiFi built-in</u>	built-in
Frequency Range	Dual Band (2.4GHz / 5GHz)
IEEE standard	802.11a/b/g/n/ac
<u>Wifi connection for Apple CarPlay</u>	Yes
<u>Wifi connection for Android Auto</u>	Yes
<u>Wifi connection for Android Mirroring</u>	Yes

Tuner Features

<u>Station Select</u>	Manual / Preset (List)
Tuner Type	Lithio
<u>FM Stereo / Mono Selector</u>	Yes
<u>FM(RDS) + AM(MW/LW) Tuner</u>	Yes
<u>Tuning mode</u>	
<u>Up/Down Seek/Scan</u>	Yes
Tuner Presets (FM/AM)	20 Presets (15FM / 5AM)
<u>Automatic Memory Entry (AME)</u>	Yes
<u>Tuner Preset Back-up Memory</u>	Yes
<u>Radio Data System</u>	Yes
<u>Radio Text Plus</u>	Yes
Traffic Information	Yes
Local search	Yes
AF Regional	Selectable: AF/AF Reg/OFF
<u>Auto TP search</u>	Yes
<u>Enhanced Other Networks Function (EON)</u>	Yes
<u>Program Type Function (PTY)</u>	Yes

CE DAB tuner features

<u>DAB+ tuner built-in</u>	Yes
<u>Digital Radio Certification Mark</u>	Yes

Intelligent seek	Yes, (Service, Ensemble & Component)
<u>Ensemble seek</u>	Yes
Tuning mode / Seek mode	Auto1/Auto2/Manual
Service preset	15 ch * 1 bank presets,
Service list by alphabet order	Yes
Preset list	Yes
Alphabet Search	Yes
Related service	Yes
<u>Traffic Information</u>	Yes
<u>DAB priority</u>	Yes
DAB-DAB/DAB-FM auto switch	Yes
<u>Seamless DAB-FM blending</u>	Yes
<u>DLS (Dynamic Label)</u>	Yes
PTY (Programme Type) search	Yes
PTY (Programme Type) watch	Yes
Announcement Switching (ASW) Select	Yes
<u>TMC (Traffic Message Channel) support</u>	Yes
DMB Audio (Digital multimedia broadcasting)	Yes
<u>Soft linking</u>	Yes
Antenna power supply on/off switch	Yes

Bluetooth General Features

Module	Murata
Max num. of regist. phones for HFP & A2DP	10 phones
<u>Hands Free Profile (HPF)</u>	V1.7
<u>Hands Free Profile with High Sound Quality</u>	HFP V1.7
<u>2 Phones Switchable Hands Free</u>	Yes
<u>2 phones full time connection</u>	Yes
<u>Audio Streaming (A2DP)</u>	Yes, (SBC/AAC)
<u>High Quality Audio Streaming</u>	SBC/AAC
<u>LDAC - High Resolution Audio Streaming</u>	Yes
Max num. of regist. units for A2DP	5 units

<u>Serial Port Profile (SPP)</u>	Yes
Simple Secure Pairing (SSP)	Yes
<u>Phonebook Access Profile (PBAP)</u>	Yes
Number of PBAP entries	Up to 1000 phonebook entries
PBAP call history	Up to 50 entries of dialed, received and missed calls
<u>Audio/Video Remote Control Profile (AVRCP)</u>	Yes, V1.6
Multi Profile Support	Yes
<u>iPhone & Android automatic pairing via USB</u>	Yes
<u>KENWOOD Remote App Ready</u>	
<u>KENWOOD Portal App Ready</u>	Yes
<u>KENWOOD Music Mix Support</u>	Yes
<u>Catchphone / Call Waiting</u>	Yes
Private mode	Yes
Alphabet Search (Phonebook)	Yes
Noise Canceller	Yes
Echo Canceller	Yes
Phone device status display	Yes
Audio device status display	Yes
Signal strength display	Yes
Remaining battery display	Yes
High-quality noise canceling microphone	Included (rear wired)

Playable Audio File

<u>AAC (*.m4a) files are playable</u>	USB
<u>AAC (*.aac) files are playable</u>	USB
<u>MP3 files are playable</u>	USB
<u>WMA (.wma) files are playable</u>	USB
<u>WAV (.wav) files are playable</u>	USB
<u>FLAC files are playable</u>	USB
<u>DSD high resolution audio format</u>	USB

CE_Playable Video file

MPEG1/2 files are playable	USB
<u>MPEG4 files are playable</u>	USB
WMV files are playable	USB
<u>H.264 files are playable</u>	USB
<u>mkv files are playable</u>	USB
JPEG files are playable	USB
BMP files are playable	USB
PNG files are playable	USB

USB Features

<u>USB terminal</u>	Yes, rear side
<u>USB Type</u>	2.0 High speed
<u>Drive Change</u>	Yes
Works with Android Auto	Yes
<u>Works with Apple CarPlay</u>	Yes
<u>USB 1 wire Mirroring for Android</u>	Yes
Tag Information Display	Yes
Album Art Display	Yes
Repeat/Scan/Random search	Yes
Repeat Play	Folder/File/All
Random play	Folder
<u>Category search</u>	Yes
<u>Link Search</u>	Yes
Resume play	Yes
Time code display	Yes

iPod Features

<u>Made for iPod & iPhone *</u>	Yes
USB Direct Control (Audio, 1 wire, Lightning-connector)	with optional cable KCA-iP103
Album art support	Yes
<u>Music library search</u>	Yes

<u>Alphabet search</u>	Yes
<u>Skip search</u>	Yes
<u>iPod Accessory Protocol (iAP)</u>	iAP2
<u>iTunes Radio App</u>	yes iAP2
<u>Works with Apple CarPlay</u>	Wireless or Wired via USB
Reverse browsing	Yes
<u>Voice Control using Siri.</u>	Yes
Bluetooth Auto Paring for iPhone	Yes
Battery charge + power control	Yes
* Always update to latest Apple firmware	

Audio features

Max. Output Power (MOSFET Power IC)	4 x 50W
<u>Pre-out</u>	3RCA: Front/Rear/Subwoofer
Pre-out Output Level	5V
<u>Volume Offset</u>	Yes
2 Zone Control	Yes
Balance/Fader Control	Yes, (via DSP)
<u>Loudness Control</u>	Yes, By DSP
<u>Bass Boost</u>	Yes, (Via DSP)
Att.(-20dB) with smooth Volume Return	Yes
<u>Equalizer</u>	Yes, 13 Band Graphic EQ
<u>Digital Sound Processor (DSP)</u>	Yes
<u>Digital Time Aligment (DTA)</u>	Yes
Beep On/Off	Yes

Multimedia DSP Features

Car type control	Off / Compact / Sedan / Wagon / Minivan / SUV / Passenger Van
Speaker Size & Location Control	Yes
X'over network	3-Way / 2-way X'over / HPF / LPF
<u>Listening postion control / Time Alignment</u>	Yes

Equalizer type	Graphical
Equalizer	13-Bands
Equalizer presets / User set	8 presets / 4 User set
Zone Control	1 Zone / 2 Zone
Balance & Fader Control	Yes
Source Volume Offset	source independent
Sound Effects	<ul style="list-style-type: none"> ▶ Bass Boost ▶ Supreme ▶ Loudness ▶ Realizer ▶ Drive Equalizer ▶ Stage EQ ▶ Space Enhancer
Audio Setup Memory	Yes

Connectivity

iPod direct control	Yes
USB interface	Rear Side
<u>OEM Wired Remote Control ready</u>	Yes, Optional interface needed
<u>OEM Display Control ready</u>	Yes, Optional interface (KIM) needed
<u>Programmable OEM Steeringwheel Remote Function</u>	Yes
<u>Display input/output control</u>	Yes
DC-Cord	Mitsumi to ISO
<u>Parking sensor (handbrake) wire</u>	Yes
<u>Power Control (P.CON) wire</u>	Yes
<u>2-way (Tel/Navi) mute wire</u>	Yes
Dimmer control wire	Yes
Speedpuls input wire	Yes
AV-Input	1x mini-jack (selectable: AV-in / Camera-in)
AV Output	Video: RCA / Audio: mini-jack
Available AV-Out source	AV-in / Off
<u>Reverse sensor wire</u>	Yes
<u>Rear View Camera Input</u>	NTSC or HD-TVI input
Front View Camera Input	selectable: Front (NTSC or HD-TVI) or DashCam (NTSC)

<u>Front Camera / DashCam selectable</u>	Yes
<u>Camera inputs</u>	up to 4 camera's
<u>HD camera input</u>	Front & Rear camera input
<u>Dashcam Link</u>	Yes
Amplifier pre-out	3 x RCA: Front/Rear/Subwoofer
<u>3rd Party TV Control (Mini-jack)</u>	Yes
<u>HDMI input</u>	Type A
GPS Aerial Input	HRS GT5-1S connector
FM Antenna Input	JASO connector
DAB Aerial input	SMB connector
External microphone input	3,5mm mini-jack

Tuner Specifications

FM range: 87.5Mhz - 108MHz (50Khz step)	Yes
FM Usable Sensitivity	0.8 μ V/75ohm (S/N 30dBf)
FM Quieting Sensitivity	1.6 μ V/75ohm (S/N 15.2dBf)
FM Frequency Response	30Hz ~ 15kHz (\pm 3dB)
FM Signal to noise ratio (Mono)	65dB
FM Selectivity(DIN)	over 80dB (\pm 400kHz)
FM Stereo Separation (1kHz)	45dB
MW range: 531kHz - 1611kHz (9kHz step)	Yes
MW Usable Sensitivity	45 μ V
LW range: 153kHz - 279kHz (9kHz step)	Yes
LW Usable Sensitivity	25 μ V

DAB Tuner specifications

Band III - Frequency range	174.928 MHz - 239.2MHz
Mode	I, II, III, IV
Sensitivity	- 100dBm
Signal to noise ratio	90dB
Audio format	MPEG1 Audio Layer II, MPEG4 HE-AAC v2

DAB Aerial Connector Type	SMB
Output Voltage	14.4V (11V to 16V allowable)
Maximum Current	< 100 mA

Bluetooth specifications

Technology	Bluetooth V5.0
Frequency	2.402 - 2.48 GHz
Output power	+4dBm(max), power class 2
Maximum range	Line of sight approx. 10 meter
Handsfree profile (HFP)	Yes, V1.7
Serial port profile (SPP)	Yes
Advanced audio distribution profile (A2DP)	Yes
Audio Codec	SBC/AAC
Audio/Video remote control profile (AVRCP)	Yes, V1.6
Phonebook access profile (PBAP)	Yes
Multi Profile Support	Yes

USB Specifications

USB Version compatibility	USB 2.0 High Speed
File System	FAT 16/32 / exFAT / NTFS
Maximum Supply current	1500mA
D/A Converter	24/32 bit
Video Decoder	MPEG1/MPEG2/MPEG4/WMV/H.264/MKV
Audio Decoder	MP3/WMA/AAC/WAV/FLAC/Vorbis
S/N Ratio	98.5 dB (1kHz)
Dynamic Range	89dB

Audio Specifications

Maximum Power	50W x 4
Output Power (DIN45324,+B=14.4v)	22W x 4

Output frequency band	20Hz ~ 88kHz
Preout Level	5000mV / 1kOhm,
Preout Impedance	≤ 3000hm
Speaker Impedance	40hm ~ 80hm

DSP Specifications

Frequency band	62.5/100/160/ ~ /6.3k/10k/16k Hz
Equalizer Gain	-9db ~ +9db
Time Alignment	0 — 610cm(1 cm step)
Speaker type - Center	<ul style="list-style-type: none"> ▶ NONE ▶ 40mm X 70mm ▶ 5cm ▶ 10cm ▶ 13cm ▶ 16cm OVER
Speaker type - Front	<ul style="list-style-type: none"> ▶ O.E.M. ▶ 10cm ▶ 13cm ▶ 16cm ▶ 17cm ▶ 18cm ▶ 4" x 6" ▶ 5" x 7" ▶ 6" x 8" ▶ 6" x 9" ▶ 7" x 10"
Speaker type - Rear	<ul style="list-style-type: none"> ▶ NONE ▶ O.E.M ▶ 10cm ▶ 13cm ▶ 16cm ▶ 17cm ▶ 18cm ▶ 4" x 6" ▶ 5" x 7" ▶ 6" x 8" ▶ 6" x 9" ▶ 7" x 10"
Speaker type - Sub woofer	<ul style="list-style-type: none"> ▶ NONE ▶ 16cm ▶ 20cm ▶ 25cm ▶ 30cm ▶ 30cm over
2-Way X'over / Front/Rear (HPF) / Frequency	Through, 30/40/50/ ~ /220/250 Hz

2-Way X'over / Front/Rear (HPF) / Slope	-6/-12/-18/-24 (dB/oct)
2-Way X'over / Subwoofer (LPF) / Frequency	30/40/50/ ~ /220/250 Hz, Through
2-Way X'over / Subwoofer (LPF) / Slope	-6/-12/-18/-24 (dB/oct)
3-Way X'Over / High Pass Filter Frequency	Through, 30/40/50/ ~ /220/250 Hz
3-Way X'Over / High Pass Filter Slope	-12/-18/-24 (dB)
3-Way X'Over / Low Pass Filter Frequency	30/40/50/ ~ /220/250 Hz, Through
3-Way X'Over / Low Pass Filter Slope	-12/-18/-24 (dB/Oct)
Subwoofer Level	-50dB ~ 10dB
Car type control	<ul style="list-style-type: none"> ▶ Off ▶ Compact ▶ Sedan ▶ Wagon ▶ Minivan ▶ SUV ▶ Passenger Van

Video Specifications

Color System of External Video Input	NTSC/PAL
External video input level (mini-jack)	1 Vpp / 75 Ohm
External audio max. input level (mini-jack)	2 Vpp / 25 kOhm
Video input level (RCA)	1 Vpp, 75 Ohms
Video Output Level (RCA)	1 Vpp / 75 Ohm
Audio Output Level (mini-jack)	0.9 Vpp / 10 kOhm
HDMI - VGA input resolution	640x480p @59.94Hz/60Hz
HDMI - 480p input resolution	720x480p @59.94Hz/60Hz
HDMI - 720p input resolution	1280x720p @59.94Hz/60Hz
HDMI - input Audio type	16/20/24-bit Linear PCM

Monitor Specifications

Screen size (Diagonal)	10.1 Inches Wide
Screen Size (WxH)	223.7 x 125.8mm
Display system	AAS (Azimuthal Anchoring Switch) LCD panel
Drive system	TFT Active Matrix System
Number of Pixels	2764800pixels (1280(H) x 720(V) x RGB)

Effective pixels	99.99%
Pixel arrangement	RGB Striped
Back lighting	LED (Light Emitting Diode)

General Specifications

Operating voltage	14.4V (11 ~ 16V Allowable)
Dimensions Sub/Front Panel (WxH)	261.6mm x 181.1mm
Dimensions Main Unit (WxHxD)	178 x 100 x 155mm
Weight	3250 gr.

Accessories

<u>DC cord (Mitsumi to ISO)</u>	20 cm
usb extension cable	1 piece, 1 meter
Screws (Parker-type)	Ø 3 x 6mm, 2 pieces
Screws (M-type)	M5 x 8mm, 6 pieces
Screws (M-type)	M5 x 8mm, 6 pieces
Srews (M-type)	M5 x 8mm, 6 pieces
GPS antenna	with 3.5 m cable
<u>GPS Antenna Ground Plane Mount (Adhesive Metal Pad)</u>	Yes
Handsfree Microphone	with 3 m cable
Bracket A	2 pieces
Bracket B	1 pieces
Bracket C	1 pieces
Multi-Language Instruction Manual Included	Quick-Guide + Instruction manual
<u>Manuals Downloadable</u>	Yes