

DJ0QRO-13 •











DH2QRH • MESSAGE



GPS for precision **APRS** for fun



Communicate, navigate, enjoy. In real time



Standard compatibility with GPS, APRS, and EchoLink Sysop Mode. A new operating style for amateur band VHF/UHF transceivers.

Equipped with GPS unit. Bringing smart APRS operation closer

The GPS unit required for mobile station APRS operation is included in the control panel. Genuine APRS operation is possible with the TM-D710GE alone. GPS Logger, Mark Waypoint, Target Point, and automatic time correction functions are also included, widening horizons for operation using GPS.





● GPS Logger Function

A maximum of 5,000 points of positional information can be stored in the internal memory. Storage timing can be set according to time interval, movement distance or beacon transmission points (e.g. roughly 14 hours' worth of records is possible when set for a 10-second time interval). GPS log information can also be converted to the Google Earth TM map service-compliant kml file format using the MCP-6A memory control program.



A maximum of 100 records possible with Mark Waypoint

Positional information on your current location (latitude, longitude and altitude, time, name, icon) can be recorded with

one touch. Name and icon information can also be edited in the Mark Waypoint list.



Target Point function

The distance and direction to your target locations (maximum of 5 presets possible) are displayed in real time. Directional display can be switched between North Up and the easily understood Heading Up display with one touch.



Grid Square Locator Display Function

The Grid Square Locator for your own station can be displayed.

Automatic time adjustment

On-board clocks required for all operations are adjusted automatically using GPS.

Easy packet transmission with TNC

The device comes equipped with an AX.25 standard TNC (Terminal Node Controller), enabling genuine, stand-alone APRS operation. Connection to a PC also enables 1200/9600 bps packet communication and IGate terminal operation.

APRS standard. Extensive menus enable

A program compatible with the APRS system has been de the developer of APRS. By making use of this program an without a PC. Messages can also be exchanged to share p

Station list

A maximum of 100 stations such as mobile, base, weather and object stations can be maintained, and receive stations can be limited by type using the filter function. Sorting according to call-sign, receive time, and distance from own station (stations within 1km are displayed in 10m units) is also possible.



Positional information

Latitude, longitude, altitude and speed/direction can be shared, and the distance from your station can be displayed using received station information.



Message function

Messages can be sent and received between APRS-operating stations. In addition to keyboard input using the included microphone, easy mobile operation has been pursued with the inclusion of automatic reply and set-message functions.



Catch a variety of information in real time with APRS



Easy settings make IGate and EchoLink node terminal operation possible





genuine operation

veloped with the cooperation of Bob Bruninga (WB4APR), d the GPS unit, various APRS operations are possible even ositional, direction/distance and weather information.

*An external GPS unit can also be used

A special call function also lets you know the instant you receive a message from a dedicated station.

Weather information

Weather information can be received to display wind direction/ speed, temperature, rainfall, humidity and atmospheric pressure. Easy operation of weather stations can also be enjoyed after connection (certain devices only) to Peet Bros. or Davis weather observation devices.



information

Stand-alone Digipeater function

The TM-D710GE can operate as a stand-alone digipeater station. Temporary relay stations can be configured in a variety of outdoor situations, enabling support for data transmission from locations such as basins surrounded by mountains.

QSY function

TM-D710GE voice channels can be set with one touch using information such as frequency, tone and shift buried in beacons from APRS stations, enabling speedy QSY.

SmartBeaconing

SmartBeaconing is a function that efficiently sends a beacon concerning the positional information of your station based on speed and direction data. The transmission interval can be changed depending on your speed, and beacons are sent when direction changes are detected, so a close approximation of your actual route can be recorded with a minimum of beacon transmissions.

● APRS lock function

Prevents errors during APRS operation.

KENWOOD SKYCOMMAND SYSTEM II+

You can use the TM-D710GE for remote control of KENWOOD HF transceivers, enabling the enjoyment of HF access even while making a quick trip to the local store. The HF band frequency is displayed, making operation easy.



KENWOOD SKY COMMAND SYSTEM II uses a pair of TH-D72E/TM-D710GE tra

*The TS-2000 series doesn't require a transporter.

Operate node terminals with EchoLink Sysop mode function

You can easily set up an EchoLink node terminal by connecting the TM-D710GE to a PC with EchoLink software installed on it*1. Simultaneous operation as an IGate terminal and/or digipeater is also possible while functioning as an EchoLink node terminal*2.



- *1: Connection requires the optional PG-5H
 *2: When connecting the internal TNC to a PC for packet mode, a serial transmission cable (PG-5G) is required in addition to the PG-5H used for EchoLink Sysop mode

EchoLink memory - simple access to node terminals

A maximum of 10 EchoLink-dedicated DTMF memories can store call-signs, node numbers and control commands. EchoLink memory management is also possible with the MCP-6A.

Improved operation with large separate panel

The large separate panel has an emphasis on operability and freedom of installation, and the functions of each key are displayed on a liquid-crystal display, enabling prompt access to a variety of functions. The large frequency display uses a full dotmatrix liquid-crystal display, and the LCD backlight colour can be selected from 2 colours. Two different stands are included: one

each for in-vehicle (panel-angle) and table-top (basestand) installation.







Dual wave receive on same band (VxV, UxU)

In addition to simultaneous receive on both VHF and UHF bands, the device can receive two frequencies on the very same band.

Memory control program compatible (MCP-6A)

By using the MCP-6A memory control program*1, data creation, editing and management for memory channels, APRS, all EchoLink function settings, and custom start-up screens are possible on a PC*2. ARRL TravelPlus information can also be import to the TM-D710GE. There is a PC connection port on the back of the main body and on the rear of the panel, so you can choose the one that is the fit for your operation style.

- *1: The MCP-6A program is now available as a free download on the Kenwood
- *2: Connection to a PC requires the optional PG-5G or PG-5H.

Voice guidance and storage compatibility with VGS-1 (optional)

By installing this option, key operations can be confirmed via voice announcements (APRS menus can be read out). Voice messages and 30 seconds of continuous recording are also possible.



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144/430MHz FM DUAL BANDER Output:50W



Other Features

●Wideband receive coverage:118-524MHz, 800-1300MHz ●High power output(50W) ●1,000 multifunction memory channels ●Multiple scan&visual scan •MC-59 16-Key hand microphone with backlighting •Programmable memory capable of storing 5 independent operating profiles •DCS (Digital Code Squelch) with 104 selectable codes •Separate VOL/SQL for A&B bands •Packet monitor •DX cluster •Waypoint data output •Clock (date/ time) ●6-pin Mini-DIN socket for external TNC ●8-pin Mini-DIN socket for PC connection x2 (optional programming cable PG-5G or PG-5H required for PC connection) ●Programmable function keys ●Band mask ●Call channel ●S-meter Squelch include hang up time setting ●Monitor function ●Mute ●Auto Power Off ●MHz mode ●Selectable frequency step ●Shift function ●Repeater offset (selectable) ●Reverse ●Auto repeater offset ●Automatic simplex checker ●DTMF memory (10channels,16digits) ●Time Out Timer ●Key lock ●Power-on password ●Memory shift ●Programmable VFO ●Beep ON/OFF, volume control ●Mic. Program function ●Channel display mode ●Custom start up ●Power-on message ●LCD brightness control, auto brightness ●Switch to external speaker ●Reset (VFO, PART, PM, FULL)

Optional Accessories













PS-60





MJ-88

Microphone ●DC power cable ●Cable with a 2.5mm (1/10*) 3-conductor plug (for GPS)
●Modular plug cable (for PANEL) ●Line filter ●Microphone hanger ●Mounting bracket
●Panel holder ●Panel bracket ●Base stand ●Screw set ●Instruction manual (English / Spanish & French) •Warranty Card

Not all accessories are available in all markets. For availability, contact your nearest dealer.

- *Alterations may be made without notice to improve the ratings or the design of the device.
- *The photographic and printing processes may cause the coloration of the device to appear different from that of the actual device.

TM-D701GE Specifications

GENERAL						
Frequency Range						
TX			RX			
Band A & B			nd A	Band B		
144~148MHz		118	3~524MHz	136~524MHz		
430~440MH				800~1300MHz		
				F1D,F2D,F3		
				50		
				DC13.8V±15		
				-20°C~+60°		
Frequency Stability-				Within ±5ppm(-10°C~+50°		
Transmit						
1		VHF		UHF		
HI	Less than 13.0)A	Less than 13.0A		
MID		Less than 5.5A		Less than 6.5A		
LOW		ess than 4.0A		Less than 5.0A		
Current Drain Receive			,	2000 (11411 0.07)		
Janoni Brain Hoodii		Less than 1.3	2A (at 2W audio	output)		
Dimensions (W x H x	D)	2000 triair ris	zr (at zrr addio			
Without Protrusions			155 x 70 x 3	38 mm		
William From dolono				40 x 43 x 142 mm		
With Protrusions	panel	156 x 71 x 5				
William Toll dollorio	body	140 x 44 x 15				
Weight (approx.)	bouy		Panel 0.3 kg Body 1.2 kg			
TRANSMITTER			T GETOT OTO THE	, 200y 1.2.18		
RF Output Power						
iii ouput i oiioi		VHF		UHF		
HI	50W			50W		
MID	Approx. 10W			Approx. 10W		
LOW				Approx. 10W Approx. 5W		
	Approx. 5W			Reactance Modulatio		
				Within ±5kl		
				Less than -60c		
				Less than 3		
				600		
RECEIVER	4.100					
				Double Super Heterody		
Intermediate Frequen				Double Super Heterody		
intermediate i requen	l	1st IF		2nd IF		
A Band	15t IF 45.05MHz			455kHz		
B Band	49.95MHz			450kHz		
				Less than 0.16µ		
				Less than 0.10		
Selectivity	(******/ОПЕ)****			Less than 0.1		
Coloculvity	-6dB			-50dB		
More than 11kHz			1			
Mo	ra than 11k⊔→			Less than 30kHz		

■Typical Sensitivity (excluding VHF / UHF Amateur Band)

	Band A		Band B
	FM:12dB SINAD	AM:10dB S/N	FM: 12dB SINAD
118~135.995MHz	0.32μV	0.40µV	-
136~173.995MHz	0.32µV	0.40µV	0.32µV
174~229.995MHz	0.40μV	0.50µV	0.40μV
230~299.995MHz	5.6µV	5.6μV	5.6μV
300~349.995MHz	1.0µV	1.0µV	1.0µV
350~399.995MHz	0.56μV	0.56μV	0.56μV
400~499.995MHz	0.28μV	0.36µV	0.28µV
500~523.995MHz	0.56μV	0.71µV	0.56μV
800~1239.99MHz	-	-	7.08µV
1240~1299.99MHz	-	-	2.24µV

- *Google Earth is a registered trademark of Google Inc.
- *APRS is a registered U.S.A. trademark of Bob Bruninga.
- *EchoLink is a registered U.S.A. trademark of Synergenics, LLC.
- *SmartBeaconing is supplied by Ham HUD Nichetroni.
- *KENWOOD SKY COMMAND SYSTEM is a registered trademark of JVC KENWOOD Corporation in the U.S.

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