



D-STAR System Introduction













Five Examples of Having Fun with D-STAR

Have you ever thought about if you could access the Internet from ham radios?

Repeater A

Repeater B

Or have you ever thought if you could communicate with a friend in another city or country using a simple handy radio?

Repeater C

Application 3

GPS tracking (DV mode)

With a GPS receiver, you can send your

current position information to another radio.

Or want to send a simple text message, or know the call sign of whom is on the air right now?

The D-STAR system is such a magical system; you can easily realize these functions without using a tricky gadget or complicated facilities.

Application 1

Digital voice (DV mode)

Analog audio is modulated to a digital signal and transmitted in the digital mode signal by the D-STAR radio.



Internet connection*

The Internet gateway allows linking of D-STAR repeater sites over the Internet. You can uplink to vour local repeater and downlink from a remote repeater, even from a foreign country!

INTERNET

GPS satellite

Application 5

IP camera (DD mode)

You can transmit live images in DD mode and watch real-time images



Application 2

Short data message (DV mode)

Call sign identification and short data messages

Application 4

Internet access (DD mode)*

In DD mode operation, you can access to the Internet via a D-STAR Internet gateway. Connect a PC with the ID-1 and you can browse web sites or check e-mail.



Internet ••••• DV mode (4.8kbps) ••••• DD mode (128kbps)

* Some restrictions may apply depending on specific countries' regulations







ID-RP2C:

Repeater controller

One unit is required for each repeater station and connects up to 4 RF modules. Transfers the received signal to the specified RF module or the Internet gateway server.



ID-RP2D:

1.2GHz DD mode RF module

The ID-RP2D is the DD mode RF module for 1.2GHz. It provides 128kbps high speed data communication.



ID-RP2V: 1.2GHz DV mode RF module ID-RP2000V:144MHz DV mode RF module ID-RP4000V:430(440)MHz DV mode RF module

These are DV (digital voice) mode RF modules for the respective bands. With a combination of these RF modules, cross band operation with 144/430 (440)/1200MHz bands is available.



RS-RP2C: Internet gateway software

The Internet gateway (GW) connects the D-STAR repeater station to the Internet and links multiple D-STAR repeater stations via the Internet

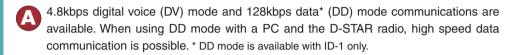


Frequently Asked Questions About D-STAP **About D-STAR**

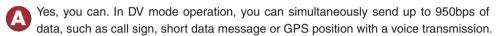
What does "D-STAR" stand for?



What can I do with the D-STAR radio?



Can I send data with a voice transmission? DV mode only



• Can I use the D-STAR repeater without connecting to the Internet?

Yes, you can use a D-STAR repeater as a local repeater. You can also communicate with other D-STAR radios directly.

Can I make a call with foreign countries?

Yes, you can*. The Internet gateway allows you to relay your call to a remote D-STAR repeater over the Internet. The D-STAR repeater call sign and IP address must be registered to the gateway server. * Some restrictions may apply depending on specific countries' regulations.

• Can I receive a call only when the call is intended for me?

Yes, you can. The call sign squelch function opens the squelch only when your call

How do I set a repeater call sign when I make a call to a desired station using a D-STAR repeater?

When you communicate with other D-STAR stations using a D-STAR repeater, it is necessary to set the repeater's call sign in RPT1/RPT2 as well as the desired station call sign and your own call sign.

For example, when you make a call in the same zone (without using the Internet gateway), set the uplink repeater call sign in RPT1 and the downlink repeater call sign in RPT2. Set "CQCQCQ" for the desired station call sign, when you make a CQ call.

When you make a call in another zone using the Internet gateway, set the uplink repeater call sign in RPT1 and the gateway call sign in RPT2. The gateway repeater has "G" setting for the 8th-digit. Set "/" plus downlink repeater call sign at the desired station call sign, when you make a CQ call.

Call type	UR (Your call sign)	RPT1 (Uplink repeater) RPT2 (Downlink or gateway)		MY
Desired station in the same zone	Receiver's call sign	Uplink repeater's call sign	Downlink repeater's call sign	Own call sign
Desired station in another zone	Receiver's call sign	Uplink repeater's call sign	Gateway repeater's call sign plus "G"	Own call sign
CQ call in the same zone	CQCQCQ	Uplink repeater's call sign	Downlink repeater's call sign	Own call sign
CQ call in another zone	"/ " plus downlink repeater call sign	Uplink repeater's call sign	Gateway repeater's call sign plus "G"	Own call sign

Icom's D-STAR Compatible Transceiver Line-up



1.2GHz Transceiver



ID-1

- Both DV and DD modes available
- PC remote control software included
- · Separate remote controller and speaker



144/430(440MHz) Dual Band Transceivers

50W

144/430(440)MHz Dual Band Transceiver

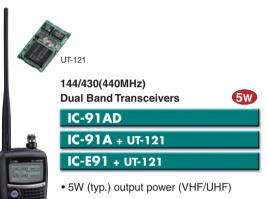
IC-2820H + UT-123

IC-E2820 + UT-123

- 50W output power (VHF/UHF)
- Wideband receiver with V/V, U/U dualwatch capability
- D-STAR + GPS receiver capability (UT-123 required)

ID-800H

- 55/50W output power (VHF/UHF)
- · Wideband receiver
- Detachable front panel



- V/V, U/U dualwatch receive capability
- Optional PC remote control software







- 7W output power (IC-V82)
- 5W output power (IC-U82)
- 200 memory channels



144MHz FM Transceiver



IC-2200H + UT-118

- 65W output power
- 207 memory channels
- Simple operation

Repeater compatibility chart with ICOM digital transceivers

	ID-1	IC-2820H + UT-123 or IC-E2820 + UT-123	ID-800H	IC-91AD, IC-91A + UT-121 or IC-E91 + UT-121	IC-V82 + UT-118	IC-U82 + UT-118	IC-2200H + UT-118
ID-RP2000V	-	~	V	V	V	-	~
ID-RP4000V	_	~	V	~	-	V	-
ID-RP2V/ID-RP2D	v	_	-	_	-	-	-

^{*}Repeater access using radio frequency. Cross band operation between ID-RP2000V/RP4000V/RP2V is also possible.

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