

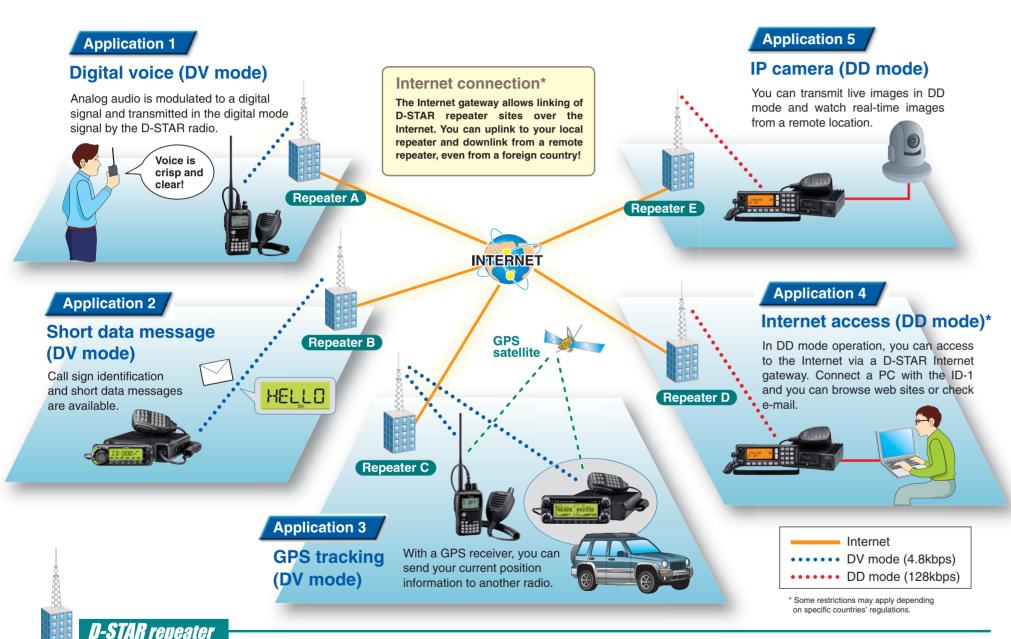
Five Examples of Having Fun with D-STAR

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

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





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-STAR

What does "D-STAR" stand for?



Q What can I do with the D-STAR radio?



Q Can I send data with a voice transmission?

DV mode only

- Yes, you can. In DV mode operation, you can simultaneously send up to 950bps of data, such as call sign, short data message or GPS position with a voice transmission.
- **Q** Can I use the D-STAR repeater without connecting to the Internet?
- Yes, you can use a D-STAR repeater as a local repeater. Simplex mode communication in DV or DD mode is also available without requiring a D-STAR repeater.

• 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.
- **Q** 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 sign is received.

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

The IC-80AD and ID-880H have the D-STAR repeater (DR) mode operation and D-STAR repeater list allowing you to use D-STAR repeaters easier.

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





HF/VHF/UHF Transceiver



IC-9100

- 28/50/144/430 (440)MHz*band DV mode (UT-121 required)
- 1200MHz band DV mode (UT-121 and UX-9100 required)
- D-STAR repeater (DR) mode operation



Both DV and DD modes available

• PC remote control software included

· Separate remote controller and speaker

1.2GHz Transceiver

ID-1



144/430(440)MHz Dual Band Transceiver

IC-2820H + UT-123

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



144/430(440)MHz Dual Band Transceiver

ID-880H

- 50W output power (VHF/UHF)
- D-STAR repeater (DR) mode operation
- · Free download cloning software, CS-80/880
- Detachable front panel



- equivalent to IPX7 (1m depth for 30 minutes.)
- Optional HM-175GPS GPS Speaker-Mic.



- 5W (typ.) output power
- D-STAR repeater (DR) mode operation
- Optional HM-189GPS GPS Speaker-Mic.
- · Free download cloning software, CS-80/880



50W



144MHz **FM Transceiver**



IC-V82 + UT-118

430(440)MHz **FM Transceiver**



IC-U82 + UT-118

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

Repeater compatibility chart with ICOM digital transceivers

	IC-9100 +UT-121	ID-1	IC-2820H +UT-123	ID-880H	IC-92AD	IC-80AD	IC-V82 +UT-118	IC-U82 +UT-118
ID-RP2000V	V	_	V	V	V	V	V	_
ID-RP4000V	~	-	~	V	V	V	-	~
ID-RP2V	✓ *1	V	_	-	-	_	-	_
ID-RP2D	_	V	_	_	_	_	_	_

^{*1} Optional UX-9100 and UT-121 are required.

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Icom America Inc.

2380 116th Avenue NE, Bellevue, WA 98004, U.S.A Phone: +1 (425) 454-8155 : +1 (425) 454-1509 E-mail: sales@icomamerica.com URL: http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada Phone: +1 (604) 952-4266 Fax: +1 (604) 952-0090 E-mail: info@icomcanada.com URL: http://www.icomcanada.com

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia Phone: +61 (03) 9549 7500
Fax: +61 (03) 9549 7505
E-mail: sales@icom.net.au
URL: http://www.icom.net.au

Icom New Zealand

ICOM Inc. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

146A Harris Road, East Tamaki, Auckland, New Zealand Phone: +64 (09) 274 4062 : +64 (09) 274 4708 E-mail:inquiries@icom.co.nz URL:http://www.icom.co.nz

Icom (Europe) GmbH

Communication Equipment Auf der Krautweide 24 65812 Bad Soden am Taunus, Germany Phone : +49 (6196) 76685-0 Fax : +49 (6196) 76685-50 E-mail: info@icomeurope.com : http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer Bajos A 08174, Sant Cugat del Valles, Barcelona Spain

Phone: +34 (93) 590 26 70
Fax : +34 (93) 589 04 46
E-mail: icom@icomspain.com URL: http://www.icomspain.com

Icom (UK) Ltd.

Blacksole House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone: +44 (01227) 741741 Fax : +44 (01227) 741742 E-mail: info@icomuk.co.uk URL: http://www.icomuk.co.uk

Icom France s.a.s. Zac de la Plaine.

2ac de la Plane, 1 Rue Brindejonc des Moulinais, BP 45804, 31505 Toulouse Cedex 5, France Phone : +33 (5) 61 36 03 03 Fax : +33 (5) 61 36 03 00 E-mail: icom@icom-france.com : http://www.icom-france.com

Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland Phone: +48 (58) 550 7135 +48 (58) 551 0484 E-mail: icompolska@icompolska.com.pl URL: http://www.icompolska.com.pl

www.icom.co.jp/world

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C. Phone: +886 (02) 2559 1899 Fax : +886 (02) 2559 1874 E-mail: sales@asia-icom.com

Asia Icom Inc.

: http://www.asia-icom.com

Count on us!

Your local distributor/dealer:

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