



D-STAR System Introduction





Five Examples of Having Fun with D

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 compli



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.

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

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.



cated facilities.

pplication 5

camera (DD mode)

a can transmit live images in DD de and watch real-time images in a remote location.



ication 4

et access (DD mode)*

node operation, you can access to net via a D-STAR Internet gateway. a PC with the ID-1 and you can web sites or check e-mail.





y depending on specific countries' regulations.



RS-RP2C:

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

Q What does "D-STAR" stand for?

The "D-STAR" stands for Digital Smart Technologies for Amateur Radio. It is an open standard digital communication protocol established by JARL*. Please refer to http://www.jarl.com/d-star/shogen.pdf for technical details. * Japan Amateur Radio League

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

4.8kbps digital voice (DV) mode and 128kbps data* (DD) mode communications are available. When using DD mode with a PC and the D-STAR radio, high speed data communication is possible. * DD mode is available with ID-1 only.

Q Can I send data with a voice transmission?

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.

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.

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 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



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	 ✓ 	 ✓ 	 ✓ 	-	~
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.

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

Icom America Inc. 2380 116th Avenue NE, Bellevue, WA 98004, U.S.A. Phone : +1 (425) 454-8155 Fax : +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 146A Harris Road, East Tamaki, Auckland, New Zealand Phone : +64 (09) 274 4062 +64 (09) 274 4708 Fax E-mail : inquiries@icom.co.nz URL : http://www.icom.co.nz

Icom (Europe) GmbH Communication Equipment Himmelgeister Str. 100,

D-40225 Düsseldorf, Germany Phone : +49 (0211) 346047 Fax : +49 (0211) 333639 E-mail : info@icomeurope.com URL : http://www.icomeurope.com

Icom Spain S.L. Ctra. Rubi, No. 88 "Edificio Can Castanye 08190, Sant Cugat del Valles, Barcelona, Spain Phone : +34 (93) 590 26 70 Fax :+34 (93) 589 04 46 mail : icom@icomspain.com RL : http://www.icomspain.com URL

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, 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, 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 URL : http://www.icom-france.com

Icom Polska

Sopot, 3 maja 54, Poland Phone : +48 (58) 550 7135 Fax : +48 (58) 551 0484 E-mail : icompolska@icompolska.com.pl URL : http://www.icompolska.com.pl Asia Icom Inc.

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

Beijing Icom Ltd.

 IOC07, Long Silver Mansion, No.88, Yong Ding

 Road, Haidian District, Beijing, 100039, China

 Phone :+ 86 (010) 5889 5391/5392/5393

 Fax :+86 (010) 5889 5391/5392/5393

 Fax :+86 (010) 5889 5395

 E-mail : bjicom@bjicom.com

 URL : http://www.bjicom.com

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