

HF/VHF/UHF ALL MODE TRANSCEIVER

Intuitive Touch Screen, Quick Response, Multi-band Radio

JUD

Print.

DEF

FIL2

12221

2.4K I

SHARE

-7100

5:11

144 C1

SSB-2

SHARP

2.4k

5-922

HF/50/70/144/430MHz Finger Touch Operation with Innovative Design

ICOM

1COM

TW

SB

B.M

ICON

BW SFT

BW

BANK

NB NB MN

2.4k

Fo 0

DEF

113 (11) (11) 5 1...3...5...7...9..20..40..60#

2.4k

17



GÍTAL



Finger Touch Operation

Intuitive Touch Screen Interface

The innovative touch screen interface provides quick and smooth operation for setting and editing various functions and memories.

0--40--60dE

5:11

RIT

Near Repeat TX History

Straight Forward Operation

Just tap the mode, filter, function etc, you need to change. The touch screen responds naturally, changing your settings.



Software Keypad

Entering frequency, callsign or editing memory channels has never been this easy. The software keypad on the touch screen allows you to input alphanumeric characters incredibly quickly.

H:64mm

One Touch Selection

TX

For example, if you want to change the operating band, tap the frequency on the display. The band keys will be shown to select the operating band. Touching the multi-function meter indicator for 1 second will quickly change the transmit meter functions.

Innovative Design

Touch Screen Control Portal

The radio control head features a large, multi-function, "touch screen" dot-matrix LCD display that is positioned for easy view and operation. The controller is compact in size, making it ideal for limited vehicle or desktop space.

Resistive Touch Screen

The 48.6×75.9 mm large resistive touch screen display can be operated even while wearing gloves.



Controller Mounted Speaker and Jacks

The unique remote head design is perfect for providing loud, clear audio as well as jacks for an external speaker/headphones as well as a key and microphone.

W:165mm









D:78.5mm



HF/50/70/144/430MHz Multi-band, Multi-mode

The IC-7100 fully covers the HF, 50, 70, 144, 430 MHz amatuer bands in multiple modes, providing 100W on HF/50MHz bands, 50W on 70/144MHz bands and 35W on 430MHz band.

Digital Features Controlled by the IF DSP

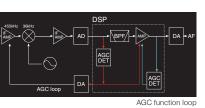
A high-performance 32-bit floating point IF DSP delivers rich digital signal processing features, including digital IF filter, digital twin PBT, noise reduction, CW auto tune, etc. Those digital features work on all bands from HF to V/UHF bands.



DSP Controlled AGC Function Loop

The digital signal processing is incorporated into the AGC function loop. The results of signal processing provide feedback to the AGC function.

The AGC function works on the intended signal and produces a constant audio output. The AGC time constants are flexibly adjustable from slow, middle, fast (or AGC off) for each operating mode.



D-STAR Ready (Digital Voice + Data)

The IC-7100 provides D-STAR (Digital Smart Technology for Amateur Radio) DV mode digital voice and low speed data communication.

DR (D-STAR Repeater) Mode Operation

The DR mode operation makes the D-STAR operation simple and straight forward, even if you are new to D-STAR operation.

Near Repeater Function

With an external, 3rd party GPS*, search the internal database based on your location.

* External GPS receiver or manual data input required.

SD Memory Card Slot for Saving Data

When used with an SD card, the SD card can store various contents including voice memory, memory channels, D-STAR repeater memories and other personal settings can be saved to the SD card and can be loaded to the transceiver.



FILE

N SKIP (VOICE) CS CD

DR mode display

(7) 0.3m

1.6ml
1.6ml
1.6ml
1.6ml



HF/VHF/UHF ALL MODE TRANSCEIVER

Easy Vehicle Mounting with Optional MBF-1

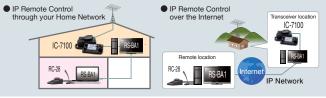
The combination of the optional MBF-1 suction cup mounting base and MBA-1 controller bracket provides easy tilt and swivel adjustments for mobile operation. The large suction cup can mount to dashboards or other flat surfaces and can be removed easily.



Optional RS-BA1 IP Remote Control Software

The optional RS-BA1 software allows you to operate the IC-7100 from a remote PC over the Internet or local home network.





Built-in RTTY Functions

The built-in RTTY decoder allows you to instantly read an RTTY message on the display. No external TNC or PC required for reading. The eight RTTY memories can memorize and transmit often used RTTY sentences. The RTTY memory is 70 character per memory channel.

Other Features

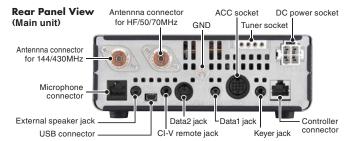
● CW full break-in, CW receive reverse, CW auto tuning ● Optional multi-function microphone, HM-151 ● Band scope and SWR graphic display ● RF speech compressor controlled by the DSP ● Voice memory function ● Multi-function Meter ● 495 regular, 4 call, 6 scan edge and 900 DR mode repeater channels ● 4 channels TX voice memories ● ±0.5ppm frequency stability ● Auto reply function* ● Digital callsign squelch and digital code squelch* ● 12kHz IF output for DRM (Digital Radio Mondiale) receive

* D-STAR DV mode only



SPECIFICATIONS

			ERAL					
Frequency coverage	(Unit: MHz)							
Receiver*1	0.030-199.999*2 400.000-470.000*2							
Transmit*1	1.810-1.999 3.500-3.800 7.000-7.100 10.100-10.150 14.000-14.350 18.068-18.168 21.000-21.450 24.890-24.990 28.000-29.700 50.000-52.000 70.000-70.500 144.000-146.000 430.000-440.000 -440.000 -440.000 -440.000							
		0	* ² Sor	ne frequenc	y bands ar	ording to versior e not guaranteed		
Mode	USB, LSB, CW, RTTY, AM, DV, FM, WFM (Rx only)							
No of memory channels	495 regular, 4 call, 6 scan edges, 900 D-STAR repeater channel							
Antenna connector	SO-239×2 (one each for HF/50/70MHz and 144/430MHz, 50Ω)							
Operating Temp. range	-10°C to +60°C							
Frequency stability	±0.5ppm (0°C to +50°C @ 430MHz)							
Power supply requirement	13.8V DC ±15%							
Current drain (at 13.8V DC)	Tx: 22A (Max. power) RX: 1.2A/0.9A (Max. audio/standby)							
Dimensions (W×H×D, projections not included)	Main unit 167×58×225 mm Controller 165×64×78.5 mm							
Weight (approx.)	Main unit	2.3	kg	Cor	ntroller	0.5 kg		
	T	RANS	MITTE	R				
Output power (at 13.8V DC)								
	HF/50MHz	70	ЛНz	144MHz	430MH	z		
SSB/CW/RTTY/FM/DV	2–100W	2-5	50W	2-50W	2-35W	1		
AM	1-30W	1.6-	-15W	-	-			
Modulation system	SSB : Digital P.S.N. modulation, AM : Digital low power modulation FM : Digital phase modulation, DV : GMSK digital phase modulation							
Spurious emissions	Less than -60dB (TO/144/430MHz)							
<u> </u>	More than 50dB							
Carrier suppression	More than	50dB						
	More than More than							
Carrier suppression Unwanted sideband		50dB	EIVER					
		50dB REC	kHz, 36	kHz				
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM	More than 124.487MH 134.732MH	50dB REC Iz, 455 Iz, 10.7	kHz, 36 00MHz	kHz	: ON. 144/43	0MHz: Preamp Of		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV	More than 124.487MH 134.732MH (HF: Preamp	50dB REC 1z, 4551 1z, 10.7 p-1 ON, 9	kHz, 36 00MHz 50/70MH	kHz Iz: Preamp-2		0MHz: Preamp Of		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity	More than 124.487MH 134.732MH	50dB REC 1z, 4551 1z, 10.7 0-1 ON, 9 1.8–29.9	kHz, 36 00MHz 50/70MH 995MHz	kHz Iz: Preamp-2 50MHz	70MHz	144/430MHz		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N)	More than 124.487MH 134.732MH (HF: Preamp 0.5–1.8MHz	50dB REC 1z, 4551 1z, 10.7 o-1 ON, 8 1.8–29.9 0.1	kHz, 36 00MHz 50/70MF 995MHz 5µV	kHz łz: Preamp-2 50MHz 0.12µV	70MHz 0.15µV	144/430MHz 0.11µV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N)	More than 124.487MH 134.732MH (HF: Preamp 0.5–1.8MHz – 13µV	50dB REC 1z, 4551 1z, 10.7 0-1 ON, 9 1.8–29.9 0.1 2	kHz, 36 00MHz 50/70MF 995MHz 5µV µV	kHz Iz: Preamp-2 50MHz 0.12μV 1μV	70MHz 0.15µV 1µV	144/430MHz 0.11μV 1μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N) FM (12dB SINAD)	More than 124.487MH 134.732MH (HF: Preamp 0.5–1.8MHz –	50dB REC 1z, 455 1z, 10.7 -1 ON, § 1.8–29.9 0.1 2 8–29.7	kHz, 36 00MHz 50/70MH 995MHz 5µV µV MHz)	kHz Iz: Preamp-2 50MHz 0.12μV 1μV 0.25μV	70MHz 0.15μV 1μV 0.25μV	144/430MHz 0.11μV 1μV 0.18μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N) FM (12dB SINAD) DV (1% BER)	More than 124.487MH 134.732MH (HF: Preamp 0.5–1.8MHz - 13μV 0.5μV (2)	50dB REC 1z, 455 1z, 10.7 -1 ON, § 1.8–29.9 0.1 2 8–29.7	kHz, 36 00MHz 50/70MH 995MHz 5µV µV MHz)	kHz Iz: Preamp-2 50MHz 0.12μV 1μV	70MHz 0.15μV 1μV 0.25μV 0.63μV	144/430MHz 0.11μV 1μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N) FM (12dB SINAD)	More than 124.487MH 134.732MH (HF: Preamp 0.5–1.8MHz - 13μV 0.5μV (2)	50dB REC 1z, 455 1z, 10.7 -1 ON, § 1.8–29.9 0.1 2 8–29.7	kHz, 36 00MHz 50/70MH 995MHz 5µV µV MHz)	kHz Iz: Preamp-2 50MHz 0.12μV 1μV 0.25μV	70MHz 0.15μV 1μV 0.25μV 0.63μV	144/430MHz 0.11μV 1μV 0.18μV 0.35μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N) FM (12dB SINAD) DV (1% BER) WFM (12dB SINAD)	Моге than 124.487МН 134.732МН (HF: Preamp 0.5–1.8МНz – 13µV 0.5µV (2 1µV (28– –	50dB REC 1z, 4551 1z, 10.7 5-1 ON, 5 1.8–29.3 0.1 2 8–29.71 -29.7M	kHz, 36 00MHz 50/70MF 995MHz 5µV µV MHz) Hz) -	kHz 50MHz 0.12µV 1µV 0.25µV 0.63µV –	70MHz 0.15μV 1μV 0.25μV 0.63μV	144/430MHz 0.11μV 1μV 0.18μV 0.35μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N) FM (12dB SINAD) DV (1% BER) WFM (12dB SINAD) Selectivity	Моге than 124.487МН 134.732МН (HF: Preamp 0.5–1.8МНz – 13µV 0.5µV (2 – 1µV (28– – – Моге th	50dB REC 1z, 455 1z, 10.7 5-1 ON, 5 1.8–29.3 0.1 2 8–29.7 1 -29.7 MH	kHz, 36 00MHz 50/70MF 995MHz 5µV µV MHz) Hz) - Les	kHz tz: Preamp-2 50MHz 0.12µV 1µV 0.25µV 0.63µV - ss than	70MHz 0.15μV 1μV 0.25μV 0.63μV	144/430MHz 0.11μV 1μV 0.18μV 0.35μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N) FM (12dB SINAD) DV (1% BER) WFM (12dB SINAD) Selectivity SSB (BW=2.4kHz, sharp)	Моге than 124.487МН 134.732МН (HF: Preamp 0.5–1.8МНz – 13µV 0.5µV (2 1µV (28– –	50dB REC 1z, 455 1z, 10.7 0-1 ON, 5 1.8–29.9 0.1 29 8–29.7 1 -29.7 Mi -29.7 Mi -29.7 Mi -29.7 Mi -29.7 Mi -29.7 Mi -29.7 Mi -29.7 Mi -29.7 -29.7 Mi -29.7 -2	kHz, 36 00MHz 50/70MH 995MHz 5µV MHz) - - Les 3.4kH	kHz 50MHz 0.12µV 1µV 0.25µV 0.63µV –	70MHz 0.15μV 1μV 0.25μV 0.63μV	144/430MHz 0.11μV 1μV 0.18μV 0.35μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N) FM (12dB SINAD) DV (1% BER) WFM (12dB SINAD) Selectivity	More than 124.487MH 134.732MH (HF: Preamp 0.5–1.8MHz - 13µV 0.5µV (2 1µV (28- - More th 2.4kHz/-	50dB REC 1z, 455 1z, 10.7 0-1 ON, 5 1.8–29.3 0.1 29.7M -29.7M -29.7M -29.7M -29.7M -29.7M -29.7M -29.7M	kHz, 36 00MHz 50/70MH 995MHz 5µV 4V Hz) - - Les 3.4kH 700H	kHz 50MHz 0.12µV 1µV 0.25µV 0.63µV - ss than iz/-40dB	70MHz 0.15μV 1μV 0.25μV 0.63μV	144/430MHz 0.11μV 1μV 0.18μV 0.35μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity AM (10dB S/N) FM (10dB S/N) FM (12dB SINAD) DV (1% BER) WFM (12dB SINAD) Selectivity SSB (BW=2.4kHz, sharp) CW (BW=500Hz, sharp)	More than 124.487MH 134.732MH (HF: Preamp 0.5–1.8MHz – 13μV 0.5μV (2: 1μV (28– – More th 2.4kHz/– 500Hz/–	50dB REC 1z, 455 1z, 10.7 -1 ON, 5 1.8–29.9 0.1 2 8–29.7 1 -29.7 Mi -29.7 Mi -29.7 Mi -6dB 6dB 6dB	kHz, 36 00MHz 50/70MF 995MHz 5µV µV MHz) Hz) - - - 2.4kF 3.4kF 700H 800H	kHz 4z: Preamp-2 50MHz 0.12µV 1µV 0.25µV 0.63µV - ss than 1z/-40dB 1z/-40dB	70MHz 0.15μV 1μV 0.25μV 0.63μV	144/430MHz 0.11μV 1μV 0.18μV 0.35μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N) FM (12dB SINAD) DV (1% BER) WFM (12dB SINAD) Selectivity SSB (BW=2.4kHz, sharp) CW (BW=500Hz, sharp) RTTY (BW=500Hz)	More than 124.487MH 134.732MH (HF: Preamp 0.5–1.8MHz - 13μV 0.5μV (2: 1μV (28- - 1μV (28- - 5μV (2: 1μV (28- - 500Hz/- 500Hz/-	50dB REC 1z, 455 1z, 10.7 -1 ON, 5 1.8–29.9 0.1 29.7M -29.7M -29.7M -29.7M -29.7M -29.7M -6dB -6dB -6dB -6dB	kHz, 36 00MHz 50/70MF 995MHz 5µV µV Hz) - - - - - - - - - - - - - - - - -	kHz tz: Preamp-2 50MHz 0.12µV 1µV 0.25µV 0.63µV - ss than tz/-40dB z/-40dB tz/-40dB	70MHz 0.15μV 1μV 0.25μV 0.63μV	144/430MHz 0.11μV 1μV 0.18μV 0.35μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N) FM (12dB SINAD) DV (1% BER) WFM (12dB SINAD) DV (1% BER) WFM (12dB SINAD) Selectivity SSB (BW=2.4kHz, sharp) CW (BW=500Hz, sharp) RTTY (BW=500Hz) AM (BW=6kHz)	More than 124.487MH 134.732MH (HF: Preamp 0.5–1.8MHz - 13µV 0.5µV (22 - 1µV (28- - More th 2.4kHz/- 500Hz/- 500Hz/- 6.0kHz/-	50dB REC 1z, 4551 1z, 4551 1z, 4551 1.8–29.3 0.11 29.7MH -29.7MH -29.7MH -29.7MH -29.7MH -6dB 6dB -6dB -6dB -6dB -6dB	kHz, 36 00MHz 50/70MF 995MHz 5µV µV Hz) - - - - - - - - - - - - - - - - -	kHz tz: Preamp-2 50MHz 0.12µV 1µV 0.25µV 0.63µV - ss than tz/-40dB tz/-40dB tz/-40dB tz/-40dB	70MHz 0.15μV 1μV 0.25μV 0.63μV	144/430MHz 0.11μV 1μV 0.18μV 0.35μV		
Unwanted sideband Intermediate frequencies SSB/CW/AM/FM/RTTY/DV WFM Sensitivity SSB/CW (10dB S/N) AM (10dB S/N) FM (12dB SINAD) DV (1% BER) WFM (12dB SINAD) Selectivity SSB (BW=2.4kHz, sharp) CW (BW=500Hz) AM (BW=6kHz) FM (BW=15kHz)	More than 124.487MH 134.732MH (HF: Preamp 0.5–1.8MHz – 13μV 0.5μV (2: 1μV (28- – 13μV 0.5μV (2: 1μV (28- – 500Hz/– 500Hz/– 500Hz/– 500Hz/– - - 500Hz/– - 500Hz/– - 500Hz/– - 500Hz/– - 500Hz/– - 500Hz/– - 500Hz/– - 500Hz/– - - 500Hz/– - - 500Hz/– - - 500Hz/– - - 500Hz/– - - - 500Hz/– - - - 500Hz/– - - - - 500Hz/– - - - - - 500Hz/– - - - - - - - - - - - - -	50dB REC 1z, 455 1z, 10.7, 5 1.8–29.9 0.1 2.9.7MH -29.7MH -29.7MH -6dB -700B (H)	kHz, 36 00MHz 50/70MH 995MHz 5µV µV MHz) 1z) - - - - - - - - - - - - - - - - - - -	kHz tz: Preamp-2 50MHz 0.12µV 1µV 0.25µV 0.63µV - ss than tz/-40dB tz/-40dB tz/-40dB tz/-40dB tz/-40dB tz/-40dB tz/-40dB tz/-40dB	70MHz 0.15μV 1μV 0.25μV 0.63μV 10μV (76	144/430MHz 0.11μV 1μV 0.18μV 0.35μV		





[-71

AH-2b ANTENNA

ELEMENT

Covers 7-54MHz. Use with AH-4

Some options may not be available in some countries. Please ask your dealer for details

AH-4 HE+50MHz AUTO-

MATIC ANTENNA TUNER

s 3.5–54MHz with a 7m

(23ft) or longer wire antenna

Supplied accessories: (* May differ depending on version) Hand microphone, HM-198 • DC power cable CW keyer plug Spare fuses Separation cable, OPC-2253 • 13-pin plug ACC cable USB cable Ferrite bead*

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OPTIONS

DC POWER SUPPLY

13.8V DC, 25A max

PS-126

Icom Inc. 1-1-32, Kam	ni-minami, Hirano-ku, Osaka 547-0003, Jap	oan Phone: +81 (06) 6793 5302 Fa	x: +81 (06) 6793 0013 www.ic	om.co.jp/world	Count on us!
Icom America Inc.	Icom (Europe) GmbH	Icom (UK) Ltd.	Icom New Zealand		
2380 116th Avenue NE,	Communication Equipment	Blacksole House, Altira Park,	146A Harris Road, East Tamaki,	Your local d	istributor/dealer:
Bellevue, WA 98004, U.S.A. Phone : +1 (425) 454-8155	Auf der Krautweide 24 65812 Bad Soden am Taunus, Germany	Herne Bay, Kent, CT6 6GZ, U.K. Phone : +44 (0) 1227 741741	Auckland, New Zealand Phone : +64 (09) 274 4062		
Fax :+1 (425) 454-1509	Phone : +49 (6196) 76685-0	Fax : +44 (0) 1227 741742	Fax :+64 (09) 274 4708		
E-mail : sales@icomamerica.com	Fax :+49 (6196) 76685-50	E-mail : info@icomuk.co.uk	E-mail : inquiries@icom.co.nz		
URL : http://www.icomamerica.com	E-mail : info@icomeurope.com	URL : http://www.icomuk.co.uk	URL : http://www.icom.co.nz		
lcom Canada	URL : http://www.icomeurope.com	lcom France s.a.s.	Asia Icom Inc.		
Glenwood Centre #150-6165 Highway 17,	Icom Spain S.L.	Zac de la Plaine.	6F No. 68, Sec. 1 Cheng-Teh Road,		
Delta, B.C., V4K 5B8, Canada	Ctra. Rubi, No. 88 "Edificio Can Castanyer"	1 Rue Brindejonc des Moulinais, BP 45804,			
Phone : +1 (604) 952-4266	Bajos A 08174, Sant Cugat del Valles,	31505 Toulouse Cedex 5, France	Phone : +886 (02) 2559 1899		
Fax :+1 (604) 952-0090	Barcelona, Spain	Phone : +33 (5) 61 36 03 03	Fax : +886 (02) 2559 1874		
E-mail : info@icomcanada.com	Phone : +34 (93) 590 26 70	Fax : +33 (5) 61 36 03 00	E-mail : sales@asia-icom.com URL : http://www.asia-icom.com		
URL : http://www.icomcanada.com	Fax : +34 (93) 589 04 46 E-mail : icom@icomspain.com	E-mail : icom@icom-france.com URL : http://www.icom-france.com	One . http://www.asia-com.com		
	E-mail.icom@icomspail.com	One . http://www.icom-irance.com			

Rua Pernambuco, 353 - Sala 901

Icom Brazil

Belo Horizonte, M.G. 30130-150, Brazil Phone : +55 (31) 3582 8847 Fax : +55 (31) 3582 8987 E-mail : sales@icombrazil.com

URL : http://www.icomspain.com

Icom Polska Sp. Z o.o. 80-286 Gdansk, Jaskowa Dolina St. 75, Poland Phone : +48 (58) 551 0484 Fax : +48 (58) 551 4720 E-mail : icompolska@icompolska.com.pl URL : http://www.icompolska.com.pl

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 URI : http://www.icom.net.au

Shanghai Icom Ltd.

No.101, Building 9, Caifuxingyuan Park, No.188 Maoting Road, Chedun Town, Songjiang District, Shanghai, 201611, China Phone: +86 (021) 6153 2768 Fax : +86 (021) 5765 9987 E-mail : bjicom @ bjicom.com URL : http://www.bjicom.com