#### Werbeprospekt Standard C-160, C-168, C-460, C-468





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März 2010

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# Model C168/C468 Series



#### UNSURPASSED MEMORY CAPACITY

Most transceivers have limited memory storage and require an internal lithium battery for memory backup. Eventually, you need to replace the battery—often a major task. But the new C168/C468 Transceivers use a tiny 4K EE-PROM memory cartridge and require no battery for backup! The supplied cartridge has 40-channel memory capability. You can purchase another 4K EE-PROM cartridge to store 40 more memory channels, and swap cartridges when you travel out of town.

Purchase the optional 16K EE-PROM memory cartridge for 200 channel storage!

#### DTMF PAGING & DTMF CODED SQUELCH MODES

STANDARD innovates again. DTMF Paging and DTMF Coded Squelch modes, now becoming industry standard, were first introduced by STANDARD. These modes allow you to communicate with friends without interference from other signals. Only transmissions intended for you will open your squelch. Call a single friend or use the group call function to call a prearranged group.

This feature is especially useful for congested frequencies and also allows convenient coordination with a friend or group at hamfests and similar conventions.

#### CODE SQUELCH/TONE SQUELCH

The versatile C168 and C468 Transceivers permit you to combine Tone Squelch and Code Squelch functions. The combination virtually assures your receiver remains quiet until a call is made from a transceiver specifically set to the same code and CTCSS frequency. This feature is especially useful when you cannot risk being interrupted by an unwanted signal.

#### ADVANCED MEMORY PROTECTION FUNCTION

The C168/468 offers a function which disables the normal change and delete functions and assures the security of the memory data you have already programmed.

#### **BUILT-IN TONE BURST**

Tone burst capability is built-in to the C168/C468 so you can access tone burst repeaters easily. Tone burst is enabled by simply pressing the PTT and CALL keys—it couldn't be simpler!

#### INTELLIGENT SCAN & MORE SCAN MODES

The built-in microprocessor automatically selects the best scan speed according to the transceiver's frequency step and tone squelch status. Never miss out on the action!

7 Types of scan and 3 modes of scan (Pause Scan, Busy Scan, and a new mode: Hold Scan) assure maximum flexibility in scanning modes. Scan speed can be accelerated to 2.5 times normal speed. Scan the entire band, a 1 MHz segment of the band, within a specified range, scan memory channels, scan group memory channels, specified memory channels or scan CTCSS frequencies for proper tone access on a specific frequency.

#### UNIQUE ACCESSORY PERMITS OPERATION OF THE RADIO FREE FROM THE BATTERY

With the optional CAX160 remote batten adapter, the C168/C468 can be operated free of the battery for maximum convenience and minimum weight. Operate the radio from your hand with the battery on your belt, a chest pocket or in your bag.



## VHF or UHF FM Subminiatu





Four Ni-Cd battery packs are available for use with the C168/C468 to satisfy the needs of each individual user. Select the 300mAh/6 volt pack for its small size, the 700mAh/7.2 volt or 1000mAh/7.2 volt packs where extended operation is important and the 600mAh/12 volt pack to boost power to more than 5 watts, ensuring you get the RF power you need in the field.

#### FOUR TYPES AND TWO SPEEDS OF DUAL WATCH

In Dual Watch mode, the receiver monitors on frequency yet repeatedly interrupts its monitoring to check another frequency for activity. This effectively allows you to monitor two frequencies at one time. In addition to two speeds of dual watch, the C168 and C468 permit versatility in selection of the frequency watched. With the first frequency being the VFO, the second frequency can be:

- 1. The CALL Channel
- 2. Memory Channel number "00"
- 3. A specific memory channel
- 4. All memory channels in turn

#### **3-WAY FREQUENCY SELECTION**

Operating frequencies may be entered or changed three ways with the C168/C468: By direct entry from the keyboard, by rotation of the rotary channel selector or by frequency step with the up/down keys. Direct entry is especially versatile and easy to use because even the 100 MHz digit is entered. Each tick of the rotary channel selector can step either 100 kHz or 1 MHz (with function key pressed) to get you where you

want fast! The rotary channel selector also doubles as a memory channel selector in the memory mode.



#### **INCREDIBLE ULTRA-COMPACT SIZE**

When used with the dry battery case (takes 5 pcs of UM-3 or type AA battery), the C168/C468 measures only 120 mm (H)  $\times$  47 mm (W)  $\times$  31 mm (D). Weight is a mere 290 g even with the antenna! The C168/C468 is the world's smallest radio! It can go with you anywhere!

#### **OTHER FEATURES**

An external DC jack accepts a wide voltage range, 5.5 to 16 volts, and is suitable for direct connection to the automobile's 12 volt system. Twelve volt DC input also provides 5 watt RF output.

Unsurpassed 0.158  $\mu$ V sensitivity supports best possible communication even under poor signal conditions.

Ten step adjustable battery save feature allows you to select a listen interval from 0.25 to 10 seconds.

Activate the Automatic Power Off (APO) function to reduce power drain to near zero if you leave the transceiver on, and a buzzer alerts you before APO occurs.

8 Values for frequency step: 5, 10, 12.5, 25, 50, 75 or 100 kHz are selectable so you quickly find the frequency you need.

Convenient Cloning feature using DTMF enables you to duplicate the programmed data of the C168/C468 to another.

#### STANDARD ACCESSORIES

ITEM/VERSION	C168	C168S	C168A	C468	C468S	C468A
BELT CLIP		•	•		•	
HAND STRAP	•		•		•	
CBT160 (Battery tray)			_			
CNB161 (Ni-Cd battery pack)	1					
CWC150A (Wall charger)			•			
CTN160 (CTCSS unit)						•
CMU160 (40 CH memory unit)				•	•	
OWNER'S MANUAL						

# e Handheld Transceivers



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### VHF or UHF FM Subminiature Handheld Transceivers

#### **OPTIONAL ACCESSORIES**

BATTERIE	S	CARRYING	CARRYING AIDS				
CNB160 CNB161 CNB162 CNB163 CBT160	Small size Ni-Cd battery pack (6 V, 300 mAh) Standard size Ni-Cd battery pack (7.2 V, 700 mAh) High-power Ni-Cd battery pack (12 V, 600 mAh) Long-life Ni-Cd battery pack (7.2 V, 1,000 mAh) Battery case (hold 5 pcs of AA type battery)	CLC160 CLC161 CLC162 CMB111 CBH160	Soft case (when use with CNB160) Soft case (when use with CNB161/CBT160) Soft case (when use with CNB162/163) Mobile bracket Molded clip				
CHARGER	S	OTHERS					
CSA160E CWC150K CWC151K CMC150	Mobile charger for CNB160/161/163	CTN160 CMU160 CMU161 CAX160 CCA160	CTCSS unit Memory unit (40-channel) Memory unit (200-channel) Remote battery adapter Charging adapter (when charge CBT160 by CWC150K/151K or CMC150)				
MIC-SPEAK	(ERS	CAW150	Mobile power supply cable				
CMP111 CMP113 CMP115 CHP111	Standard size mic-speaker Tie-pin type mic-speaker Small size mic-speaker Headset with PTT switch & boom microphone	CAW151 CAX03	Base station power supply cable Bottom cover				

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GENERAL:		C168 Series	C468 Series				
Frequency Range	C168/C468	144 to 147.995 MHz	430 to 439.995 MHz				
(Specifications	C168A/C468A	144 to 147.995 MHz	438 to 449.995 MHz				
guarantee range)	C168S/C468S	144 to 147.995 MHz	430 to 439.995 MHz				
Circuitry		Synthesized					
Type of Emission		16F3					
Operating Voltage Range		5.5 to 16 V DC					
Operating Temperature R	ange	-20°C to +60°C					
Current Drain	TX Hi (13.8 V)	1000 mA	1300 mA				
	TX Mid (13.8 V)	800 mA	950 mA				
	TX Hi/Mid (7.2 V)	900 mA	900 mA				
	TX Lo	400 mA	450 mA				
B	Standby	32 mA	38 mA				
	Battery Save	12 mA	13 mA				
	A.P.O.	0.5 mA	0.5 mA				
Channel Spacing		20 kHz					
Frequency Step		5, 10, 12.5, 15, 20, 25, 50, 100 kHz					
Frequency Stability (-20	°C to +60°C)	±0.0	001%				
Tone Burst Frequency		1,75	0 Hz				
Speaker Impedance		8 ohms					
Microphone Input Impeda	nce	600 ohms					
Dimensions (H×W×D)	with CBT160	120 mm $ imes$ 47 mm $ imes$ 31 mm, 290 g					
and weight	with CNB160	100 mm × 47 mm × 31 mm, 224 g					
* Height excludes projections	with CNB161	124 mm × 47 mr	n $ imes$ 31 mm, 315 g				
* Weight includes antenna.	with CNB162	141 mm × 47 mr	n $ imes$ 31 mm, 409 g				
	with CNB163	141 mm $ imes$ 47 mm $ imes$ 31 mm, 375 g					
Battery life	with CBT160	4 hours	3.5 hours				
* TX:RX:Standby=1:1:8 * TX high power mode	with CNB160	4 hours	2.5 hours				
* Battery saver off	with CNB161	6.5 hours	6 hours				
Battery life changes according	with CNB162	4 hours	3.5 hours				
to usages or environmental conditions.	with CNB163	9 hours	8.5 hours				

CHP111 Headset with PTT switch & boom microphone CHP150 Headset with PTT/VOX switch & boom microphone (powered type)

RECEIVER:		C168 Series	C468 Series	
Intermediate Frequency	1st IF	30.85 MHz	23.05 MHz	
	2nd IF	455 kHz	455 kHz	
Sensitivity (12 dB SINAD)		0.158	μV	
Threshold Squelch Sensitivity		0.112 µV		
Selectivity (2-signal method	i)	60 dB	55 dB	
S/N Ratio at 0.5 µV Input		30 dB		
Audio Power Output (10%	Distortions)	200 mW		

TRANSMITTER:			C168 Series			C468 Series		
RF Power Output		Hi	Mid	Lo	Hi	Mid	Lo	
	with CBT160	1.5W	1.5W	0.35W	1.5W	1.5W	0.35W	
	with CNB160	1.5W	1.5W	0.35W	1.5W	1.5W	0.35W	
	with CNB161	2W	2W	0.35W	2W	2W	0.35W	
	with CNB162	5W	2.5W	0.35W	5W	2.5W	0.35W	
	with CNB163	2W	2W	0.35W	2W	2W	0.35W	
Modulation Method		Reactance Modulation						
Spurious Emission		60 dB						
Harmonic Distortion (at 1 kHz)		±3%						
Hum and Noise Level		40 dB						
Maximum Deviation		±5.0 kHz						
Frequency Setting Accuracy		±1.0 kHz						

Performance specifications are nominal, unless otherwise indicated, and are subject to change without notice.

• For further information, see your dealer or contact.



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Printed in Japan 1991/2 SG