

# The Detector Professionals Use!



# COMPASS

**Challenger**  
**X Series**

# COMPASS' X Series are Designed Circuit Filter Response in Both Hi This is

## CONTROLS • FEATURES

**FULL-TIME METERED TARGET IDENTIFICATION (X100 only)** — In all modes. Set to high level of audio discrimination to eliminate pull tabs/ screw caps while correctly identifying nickels and rings on visible target meter, and with just one sweep over target. Industries best metered separation of nickels and many gold rings from pull tabs.

**AUDIO TARGET TONE IDENTIFICATION** — In this mode of operation each individual target has its own tone. Certain targets, such as foil, have a lower tone while others, such as a silver dollar, have a very high tone. (X100 only)

**FOUR MODES OF OPERATION** — All Metal, Ground Balance Discriminate, TR Discriminate and Target Tone Identification (X100 only)

**FILTER RESPONSE** — This COMPASS exclusive is an important new innovation in metal detector design. It provides operator control of the circuit filters for obtaining peak performance for both high or low mineralized ground. The "Normal" setting pulls a target through mineralized ground better by scanning a larger area during analysis of the target. A "sharp" setting for low mineralized areas analyzes the target for only a short duration which provides better separation of multiple targets and unbeatable depth of detection.

**NOTCH DISCRIMINATION** — Find nickels and gold rings while rejecting most pull tabs, or set to detect only a particular target. Three selectable NOTCH WIDTH settings for extra range



**DISCRIMINATE CONTROL** — Adjust to distinguish between "good" and "junk" (nails, bottle caps, pull tabs and screw cap) items. Extended range not incorporated on many competitive detectors that provides the following: zero discriminate setting for hot rock identification while prospecting. A position is also provided to eliminate salt water in TR Disc for beach hunters.

**POWER LEVEL** — Circuit front end sensitivity to control amount of power being radiated into the ground. Choose a level according to soil mineralization, electrical or atmospheric conditions and operator proficiency. New Ultra Max setting provides unbeatable depth where conditions allow.

**GB DISC SENSITIVITY** — Controls sensitivity of GB Discriminate, and Target I.D. Meter. Use Power Level control to set sensitivity of All Metal mode. Then use GB Disc Sensitivity to set sensitivity for discriminate mode. This technique provides the ultimate control of mineralized ground and electrical or atmospheric interference conditions. Most competitive detectors do not have this dual control capability.



**GROUND BALANCE** — Tunes out mineralized ground in All Metal, GB Disc and T.T.I. (X100 only) modes.

**VARIABLE AUDIO SPEAKER TONE** — Matches the speaker audio frequency to what you hear best for more depth.

**AUTOMATIC TUNING** — This important setting can be extremely helpful in many detecting areas. Its uses include: salt water beach hunting and gold nugget prospecting. Many treasure hunt winners insist on this feature!

## SPECIFICATIONS

**USES** — Coin and jewelry hunting, prospecting for gold and other minerals, relic hunting, beachcombing, cache hunting, treasure hunting, underwater recovery

**DEPTH CAPABILITY** — In All Metal mode at Ultra Max Power Level, 12" - 14" (27.9 cm - 33 cm) on U.S. 25¢ coin, 20% additional depth with optional 12" search head, 40% additional with optional 16" search head. Depth will vary with ground mineralization and operate mode. Maximum depth of 6' on a very large object

**WEIGHT** — Operating with 8" Search Head, 5 lbs.

**POWER REQUIREMENTS** — 12V at full audio load to 18V, factory equipped with 12 Free Nicad rechargeable cells and charger

**FREQUENCY** — 13.77 kHz, crystal controlled  
**AUDIO FREQUENCY** — Operator adjustable from 180 Hz to 600 Hz

**TEMPERATURE RANGE** — 33° to 100°F (0° - 38°C)

**HOUSING** — All-metal electronic housing for better shielding against electromagnetic radio frequency interference

## WARRANTY

COMPASS' popular 5-year limited warranty backs each CHALLENGER. See our catalog for further details.

## PRESET CONTROL

To make an easy-to-operate detector even all X Series Challenger controls are now with preset positions. The new operator controls to preset setting, turn detector start hunting!

Once the basics are mastered, you still flexibility to set controls beyond the factory set detectors.

## PROSPECTORS

There is no detector that will outperform our X-90 or X-100 for gold nugget detection. Circuit and frequency are optimized for gold detection!

## OTHER FEATURES

COMPASS has now answered thousands of serious metal detector user requests to locate the meter in a functional and readable position. This important advancement means **NO MORE BENDING AND SQUINTING**. Large and easy to read, the meter indicates trash or treasure and coin depth.

Revolutionary mode of operation dual push buttons are functionally located. Push **BLACK** for All Metal and **RED** for Discriminate.

- **AUTOMATIC BATTERY CHECK** for approximately 4 seconds each time you turn on your **CHALLENGER**
- **EARPHONE INPUT JACK**
- **METERED COIN DEPTH** of U.S. sized coins
- **SPECIALLY DESIGNED**, full-scan, waterproof, lightweight co-planar concentric search heads
- Metal Loop connector for improved reliability
- All electronic circuit boards are coated with newly developed coating to handle the toughest of environmental conditions for drift free operations.
- **EXTERNAL INPUT JACK** for battery charger — Rechargeable batteries do not need to be removed for charging
- **EXTRA LARGE 3" SPEAKER** for unequalled response
- **DUAL ROD LENGTH ADJUSTMENT** — Collapses unit to smallest size in industry, eliminating need to disassemble for storage

# to Provide Optimum Programmed High or Low Mineralized Ground — an Industry 1st!

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## CHALLENGER X-100

with Metered Target Identification and Coin  
Depth

\$814.95 with 8" to 12" Deep Scan Search Head

\$749.95 with 8" only

Currently includes the following FREE Accessories:  
Arm Rest and Rechargeable Battery System —  
\$68.10 Value



## CHALLENGER X-90

With Coin Depth Indicator and Trash  
Treasure Meter

\$649.95 with 8" Search Head

Currently includes the following free ac-  
cessories: Free Rechargeable Battery System  
and Arm Rest — \$68.10 Value



## OPTIONS

- 3" Coin and Nugget Probe
- 12" Deep Scan Search Head
- 16" Ultra Deep Scan Search Head
- Back-lighted Meter for Night Operation
- Hip Mount Platform Conversion Kit
- Epoxy-filled Loops for Water Hunting
- Many Others

## CHALLENGER SIDE MOUNT MODELS

Feature indicating meter with dual mode selector push buttons located on search rod. Functional and lightweight, this system is very popular with serious hunters. Same controls and performance as standard units.

**X-100 Side Mount  
with 8" Search  
Head  
\$799.95**

**X-90 Side Mount  
with 8" Search  
Head  
\$699.95**

Prices include anodized aluminum side mount platform, rechargeable battery system, and back-lighted meter kit.



## Hip Mount Platform Conversion Kit for Hand Held Models



## OTHER COMPASS PRODUCTS

### NORTH AMERICAN GOLD DREDGE

Professional Lightweight  
2" Dredge Models

**202 PRO**  
58 lbs.

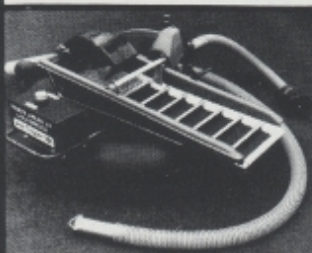
**\$624.95**



#### RUGGED MINING CONDITION FEATURES:

- For unequaled ease of priming, Pro-Power Jet includes integral swinging gate valve. Doubles as means of unplugging hose of obstructions.
- All-metal 80 GPM pump and impeller — NO plastic used.
- All-metal foot valve. Our foot valve will not float and needs no anchor!
- Rugged 35cc, 2.1 h. p. engine featuring needle-roller bearings and a carburetor with real fuel pump — no reed valves.

NAGD is a wholly owned division of COMPASS ELECTRONICS CORP., the Electronic Gold Detection Experts.



**200 BACKPACKER**  
Light Weight (38 lbs.)  
Inner Tube Flotation

**\$499.95**

Write for a free Catalog.

**NORTH AMERICAN GOLD DREDGE**  
PO Box 366 • 3700 24th Ave.  
Forest Grove, OR 97116

#### COMPASS DETECTOR DEALERSHIP AVAILABLE

As a user, you may qualify for a dealership. If there is no authorized COMPASS dealer in your area, write or call the factory for our lucrative dealer information. We will send customers to you through our dealer referral program.

#### SOLD IN YOUR AREA BY:



**COMPASS**  
Electronics Corp.

P.O. Box 366-3700 24th Ave., Forest Grove, OR 97116 (503) 357-2111