

Win This!



**GE POWER PRO X500
16 MEGA PIXEL DIGITAL CAMERA!**

HOW IT WORKS:

Send us your completed crossword puzzle by: September 15th, 2011 & be entered to win!

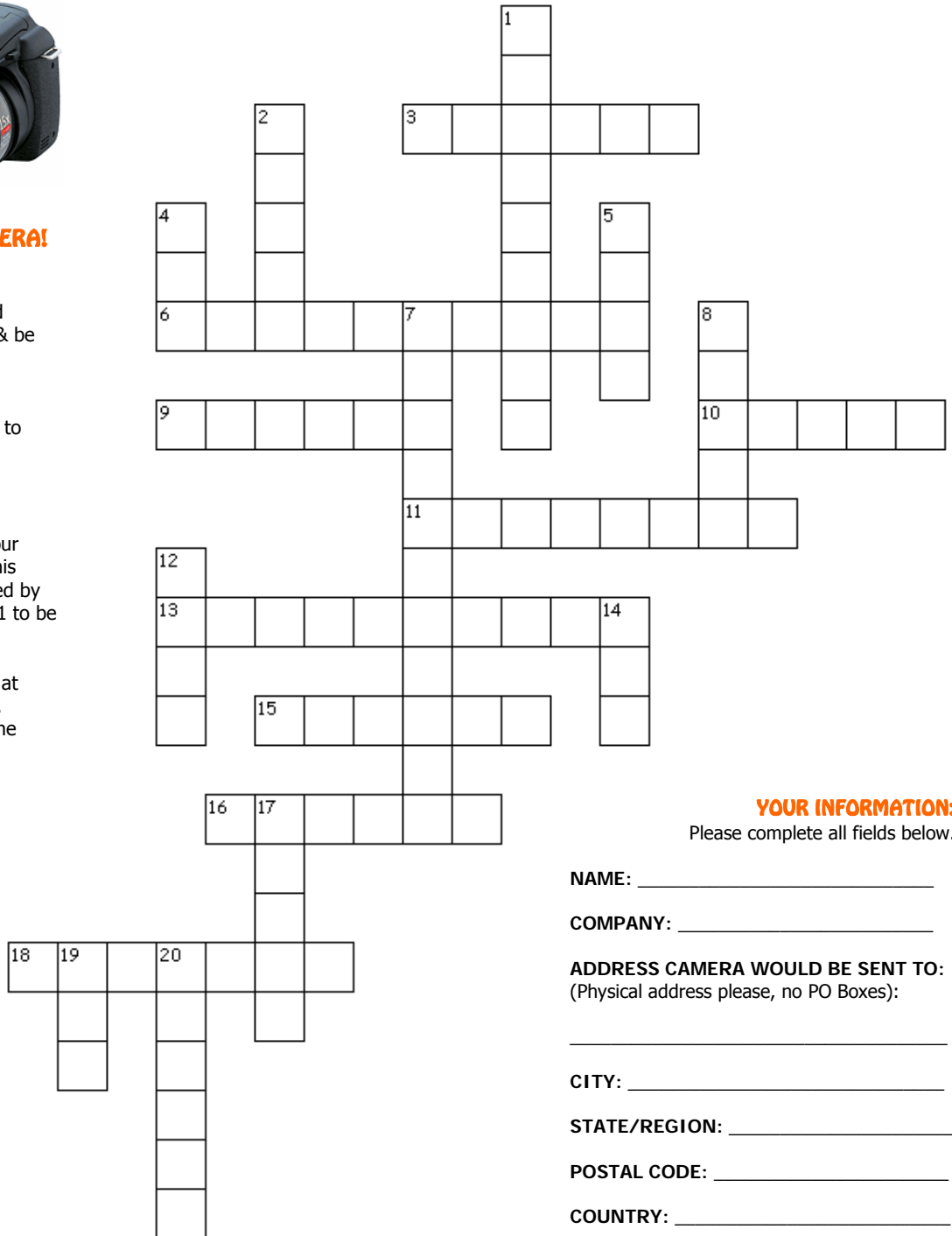
SUBMISSION IS EASY!

Simply scan and email your puzzle to marketing@precisionplus.com or fax it to +1 716 297-8210.

ELIGIBILITY REQUIREMENTS:

Participants must complete the 'Your Information' section included on this form. Submissions must be received by 8:00pm EST September 15th, 2011 to be entered into drawing.

Winning submission will be drawn at random on September 16th, 2011. Winner will be notified via telephone and/or email.



YOUR INFORMATION:

Please complete all fields below.

NAME: _____

COMPANY: _____

ADDRESS CAMERA WOULD BE SENT TO:
(Physical address please, no PO Boxes):

CITY: _____

STATE/REGION: _____

POSTAL CODE: _____

COUNTRY: _____

TELEPHONE: _____

EMAIL: _____

Across

- 3. These control flow into a vacuum system and control pressure.
- 6. Ideally, oil lubricated ball bearings are mounted this way.
- 9. A space in which the pressure is below atmospheric pressure.
- 10. A secondary pump; high compression ratio; can't exhaust to atmospheric pressure.
- 11. Rotary Vane, Rotary Piston, Claw & Scroll are referred to as ____ pumps.
- 13. Poses a challenge in creating and maintaining clean high-vacuum environments.
- 15. Used in leak testing.
- 16. Gauge that is used to measure vacuum pressure up to 1×10^{-3} or 10^{-4} .
- 18. A ____ is usually backed by a mechanical pump.

Down

- 1. Pump that uses high speed rotating blades to knock molecules out of the chamber. A turbo-____ pump.
- 2. Many dry pumps are indirectly cooled by this.
- 4. This vacuum range (abbreviation) is measured at $<10^{-7}$ torr.
- 5. This type of vacuum pump achieves the lowest vacuum pressure.
- 7. This ratio equals exhaust pressure over inlet pressure.
- 8. These o-rings can last up to 10 years; A full 9 years longer than Buna.
- 12. Standard atmospheric pressure is 760 ____.
- 14. ____ density varies with pressure.
- 17. Screen that protects debris from entering a vacuum system.
- 19. A requirement of most wet pumps.
- 20. The ultimate pressure for a _ stage pump is 0.006 torr.