

Peterborough Astronomical Association  
Monthly Meeting - January 2, 2026 7:00 p.m.  
Riverview Park Zoo and Zoom

1. **Welcome** - Peter Curley opened the meeting at 7:00 p.m.
  - Attendees - 15 at the Zoo meeting room, 8 additional on Zoom
  - Peter distributed copies of Samson speaker and microphone systems to the meeting attendees, and shared the same documents via Zoom for later discussion
2. **Introduction/Acknowledgement of Guests & New PAA Members**
  - No guests were in attendance, nor were there any new members to introduce
3. **Amendments & Approval of Agenda**
  - Rodger Forsyth moved, seconded by Rick Stankiewicz that the proposed agenda be approved. Motion carried.
4. **Amendments & Approval of Minutes of Last Meeting**
  - Rick Stankiewicz moved, seconded by Brian Colville that the minutes of the previous meeting (December 5, 2025) be approved. Motion carried.
5. **Membership Report**
  - As David Mills was unable to attend, this item was deferred until the next meeting.
6. **Presentation - Peter Curley - Hacking your Seestar**
  - Peter gave a very detailed presentation pertaining to controlling a Seestar smart telescope from a computer. ALPACA software, an updated version of ASCOM, is included in the Seestar software package. ALPACA allows control of multiple devices, including a telescope mount, dome, focuser, etc. Peter selected NINA (Nighttime Imaging 'N' Astronomy) software as an interface between ALPACA and his Windows PC. In turn, he selected additional software programs to interface with NINA - ASTAP as his preferred Plate Solving software and Stellarium Planetarium software (both free). It was pointed out that NINA can be used to control and automate virtually any controllable astrophotography device. Peter demonstrated how to select and "connect" various options within NINA to operate his Seestar telescope from his computer.
7. **New Business - Proposed New PA System**
  - Peter and Brett Hardy summarized the need for an updated audio system, highlighting the inadequacies of the current, aging microphone and speaker system. Having sought proposals from two local companies specializing in audio equipment, LR Brown was identified as the preferred vendor, offering equipment by Samson - a wireless dual channel microphone system with both lavalier and hand-held microphones, model Concert 288, and a portable PA speaker with Bluetooth capability, model Expedition XP106. Cost for the complete system, including tax amounts to \$976.32, which includes a \$100 discount (plus tax) for purchasing a used PA speaker rather than new.
  - It was moved by Rodger Forsyth, seconded by Rick Stankiewicz that approval be granted for Peter and Brett to fully evaluate the proposed system and that if deemed suitable for the PAA's needs, be authorized to purchase the system.

- The motion was carried with a vote of 16 in favour and 1 opposed.

## 8. The Sky This Month

- As David Mills could not be in attendance, this item was not presented

## 9. Coming Observing Sessions - none were identified

## 10. Presentation at Next Meeting - To Be Announced

## 11. Other business

- Rodger Forsyth stated that the club's online registration process was not working properly and that it should be looked into.

## 12. Next Meeting - Friday, February 6, 2026

## 13. Adjournment

- Peter declared the meeting closed at 8:37 p.m.

prepared by:  
David Messervey  
PAA Secretary

PRODUCT INFORMATION

2015

### CONCERT 288 ALL-IN-ONE Dual-Channel Wireless System



Samson takes the worry out of wireless with the Concert 288 All-In-One Wireless System. Offering easy setup, flawless operation and premium sound, it's the ideal high-performance UHF wireless solution for vocal performances, presentations, Q&A sessions, house of worship, educational applications and more where two users are needed.

The dual-channel, frequency-agile Concert 288 All-In-One provides a best-in-class 300' wireless range and can support the simultaneous operation of up to 24 systems (48 performers (region dependent)). The system's rock-mountable CR288 Wireless Receiver utilizes a true diversity, dual-antenna design to avoid dropouts. To reduce interference, the CR288 offers 32 selectable frequency options between the two performers. Tone Key technology further prevents stray RF interference from affecting performance. The CR288 provides fast and easy setup with IR technology that wirelessly matches the operating channels of the transmitters to the receiver, as well as a dual 7-segment LED to monitor the channels.

The Concert 288 All-In-One features a CH288 Handheld Transmitter with a Q6 Dynamic Microphone capsule, as well as a CB288 Beltpack Transmitter. To pair with the CB288, system also includes both an LMS Lavalier Microphone and an HS5 Headset Microphone (both with locking connectors). These mic options bring maximum versatility to any dual-user application, particularly duet performances, as well as audience participation and interview situations. The transmitters, which can operate for up to eight hours on two AA batteries each, are engineered to the finest detail to provide the ultimate in sound reproduction.

#### FEATURES

##### CONCERT 288 ALL-IN-ONE SYSTEM

- Dual-channel, high-performance UHF wireless system
- 1/4" audio cable, AC adapter and rackmount kit included

##### CR288 WIRELESS RECEIVER

- Multiple frequency options for interference-free performance in any environment
- Up to 24 systems can be operated simultaneously (region dependent)
- Separate Volume controls for each wireless signal
- Dual balanced XLR outputs for routing signals to two separate mixer channels
- 1/4" unbalanced mix output to combine signals to one output channel

##### CH288 HANDHELD TRANSMITTER

- Q6 Dynamic Microphone capsule
- Offers up to eight hours of battery life using two AA batteries
- 300' operating range

##### CB288 BELTPACK TRANSMITTER

- LMS Lavalier Microphone with locking connector
- HS5 Headset Microphone with locking connector
- Offers up to eight hours of battery life using two AA batteries
- 300' operating range

CONCERT 288 ALL-IN-ONE  
UPC: 809164214427, 809164214434  
SKU: SWC288ALL-H, SWC288ALL-I  
HEIGHT: 13"  
WIDTH: 14"  
DEPTH: 3.5"  
WEIGHT: 4lb  
MASTER CARTON QUANTITY: 16

\* DIMENSIONS AND WEIGHT BOXED

**SAMSON**

PRODUCT INFORMATION

2014

### EXPEDITION XP106 Rechargeable Battery Powered PA with Bluetooth®



Samson's Expedition XP106 Portable PA is packed with incredible features, including Bluetooth connectivity and a built-in 4-channel mixer. It also comes complete with a wired handheld dynamic microphone for delivering impromptu performances and professional presentations in any environment. Such versatility, combined with clean, crisp audio, makes the XP106 an all-in-one solution for classrooms, conferences, tour groups, parties, as well as a variety of mobile and outdoor applications.

Ensuring pristine, full range sound, the XP106 features a 6-inch woofer and a 1-inch high frequency driver. A lightweight, 100-watt Class D amplifier, perfectly matched to its drivers for high efficiency and low current draw, powers the XP106. The XP106's rechargeable battery also increases the system's portability, allowing for up to 20 hours of continuous use wherever great sound is needed.

The XP106 is Bluetooth-enabled, allowing you to wirelessly stream music from your smartphone, tablet or laptop. It also features XLR 1/4-inch combo (included dynamic handheld mic and other mic/line-level devices), 1/4-inch (guitars and line-level devices) and 1/8-inch (MP3 players, keyboards, etc.) input options. And to expand your sound, the XP106 has a Link output to cascade multiple systems together. The XP106 even has a USB Wireless port for integrating Samson's Stage XP101 USB Digital Wireless System (not included) into the fold and creating a completely wireless audio solution.

High-quality components, professional features and convenient portability make Samson's Expedition XP106 a consummate single system solution for a wide range of public address applications.

#### FEATURES

- All-in-one, lightweight portable PA system
- Bluetooth connectivity to wirelessly stream music
- Includes wired handheld dynamic microphone
- Rechargeable battery for up to 20 hours of continuous use
- 2-way speaker enclosure with 6-inch woofer
- 1-inch high frequency driver
- Class D amplifier produces 100 watts of power
- 4-channel mixer
- XLR 1/4-inch combo input for microphones and line-level devices
- 1/4-inch input for guitars and line level devices
- 1/8-inch stereo Aux input for stereo line level devices (MP3 players, keyboards, etc.)
- Link output to cascade multiple systems together
- Music/Speech switch for optimizing output EQ for speech or music playback
- USB Wireless port for use with Samson's Stage XP101 USB Digital Wireless System (not included)
- Integrated carry handle
- 1 3/8-inch speaker stand mount

The Bluetooth® mark and logo are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Samson Technologies is under license. Other trademarks and trade names are those of their respective owners.

EXPEDITION XP106  
UPC: 809164015963  
SKU: SAXP106  
HEIGHT: 20"  
WIDTH: 13.5"  
DEPTH: 13.5"  
WEIGHT: TBD  
MASTER CARTON QUANTITY: 1

\* DIMENSIONS AND WEIGHT BOXED

**SAMSON**