

Whether you are a serious musician or just learning to play, the way to get the most from your piano is simple: make sure it's equipped with PNOscan or PNOscan Studio. Because only pianos with PNOscan, an optical recording device that opens up a world of connectivity and ways for you to use your piano. With PNOscan you can get all the features and benefits of a digital piano combined with the sound, beauty and lasting value of an acoustic piano.

Along with PNOscan you'll have discreetly hidden USB and MIDI ports that allow you to connect to the Internet (using your laptop) or a MIDI device.

With the addition of PNOscan Studio you'll receive a Key Stop, Headphones, PNO3 PNOscan controller with PLx_v (I/O and volume control hardware) with all of the benefits of QRS-Connect.



LASTING VALUE

A PNOscan equipped piano is the smart answer to musical versatility because unlike a digital piano that quickly becomes obsolete and loses its value, with PNOscan the software that does all the "work" resides on your computer or tablet. Your acoustic piano remains virtually untouched and will retain its value while you'll be able to take advantage of the most advanced digital applications created now and in the future.

PNOscan STUDIO OPTIONS ARE LIMITLESS



The Easiest Way To Practice In Silence

1. Plug In Headphones
2. Engage Key Stop Rail
3. Adjust Volume if you need to



With a PNOscan or PNOscan Studio equipped piano you can:

LEARN TO PLAY

Using your laptop or PNOscan Studio, you can access the Internet and choose from thousands of software programs or apps designed to teach you to play. Now you can learn at your own pace, when it's convenient for you and in the privacy of your own home. What could be easier? PNOscan Studio allows for Bluetooth MIDI, Silent Practice and connectivity.

COMPOSE MUSIC

You can compose everything from simple songs to multi-track arrangements using PNOscan along with sequencing software. PNOscan Studio allows for auto record, auto save, and auto archive so you never miss a moment. The reel is always running.

PRACTICE AND RECORD

Students can record their practice. Hear and see their improvement over time, monitor their practice even if you were out while they played, or tie into any popular 3rd party application. Sheet music that follows along, site assessments, teacher overview and guidance.

PERFORM ON STAGE

Real artists appreciate real actions, PNOscan equipped pianos are stage ready. Simply plug the MIDI output into your stage console and you are ready to record performances, layer sounds, and create.

ADD PNOmATION® FOR PLAYBACK AND PLAYER OPTIONS

In addition to PNOscan, equip your piano with a PNOmation playback system and bring your performances to life. Record and your piano will play back your performance exactly as you played it! Think of the fun you can have recording your family and friends playing. Better yet, you can save performances locally and in the cloud then share them so you can hear them anytime anywhere. PNOmation can easily be integrated with your home entertainment system so you can listen to your piano in surround sound, throughout the house

But adding PNOmation to your PNOscan Studio-equipped piano is about a lot more than just fun, it's a great tool for learning as well. Students can take online lessons using off the shelf 3rd party apps or computer software. Wirelessly connect to tablets with Bluetooth MIDI, Wi-Fi and Wi-Fi direct. Practice in silence with QRS patent pending Key Stop, and headphones.

TOOLS TO LEARN AND PRACTICE

Learning has never been easier, whether it is self paced or with a teacher all possibilities exist.

- Wi-Fi Networked & Direct
- Bluetooth MIDI/Audio
- Online learning
- Silent practice
- Local & Cloud Archives
- Built in sound fonts
- 3rd Party App Compatible

TOOLS TO RECORD, CREATE AND SHARE

Bring the inspiration out front not the tech. Capture with PNOscan's continuous optical sensing.

Built in software setups allow for:

- Auto Record
- Auto Save (locally),
- Auto QRS-Connect backup
- Share anytime, anywhere
- Open In your favorite App



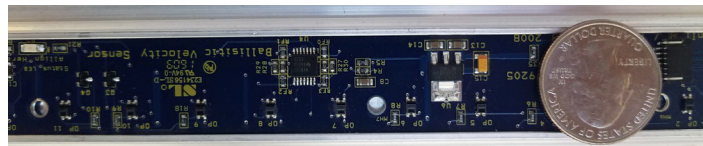
PNOscan STUDIO GIVES YOUR ACOUSTIC PIANO ENDLESS OPPORTUNITIES

A PNOscan Studio - equipped piano offers a world of never ending opportunities for everyone from the serious musician to the recreational player. All without affecting the appearance, touch and feel of the piano in any way. Whether you want more options for yourself or just want to be sure they are there for generations to come, shouldn't you consider PNOscan?

UNPARALLELED VERSATILITY

ONE SIMPLE TO USE PRODUCT

FROM PRACTICING IN SILENCE TO THE MOST ADVANCED STUDIO APPLICATIONS



PNOscan's tiny optical sensors allow for flexible placement under the keys and continuously scan each key over 1000 times per second.

PNO³WB Controller



The brains of the operation, controls network and wireless activity, setups for PNOscan, recording, sounds, user interface, audio and MIDI I/O. Discreetly placed out of sight and accessed wirelessly. Specifically made for a piano application.

Key Stop, Headphones



Allows for silent practice mode. Simply pull the Key-Stop lever and plug in your headphones.

PLx-v Pin Light Port Extender



PNOscan and PNOscan Studio can be field installed. This eliminates the need to have your piano moved.

Perform

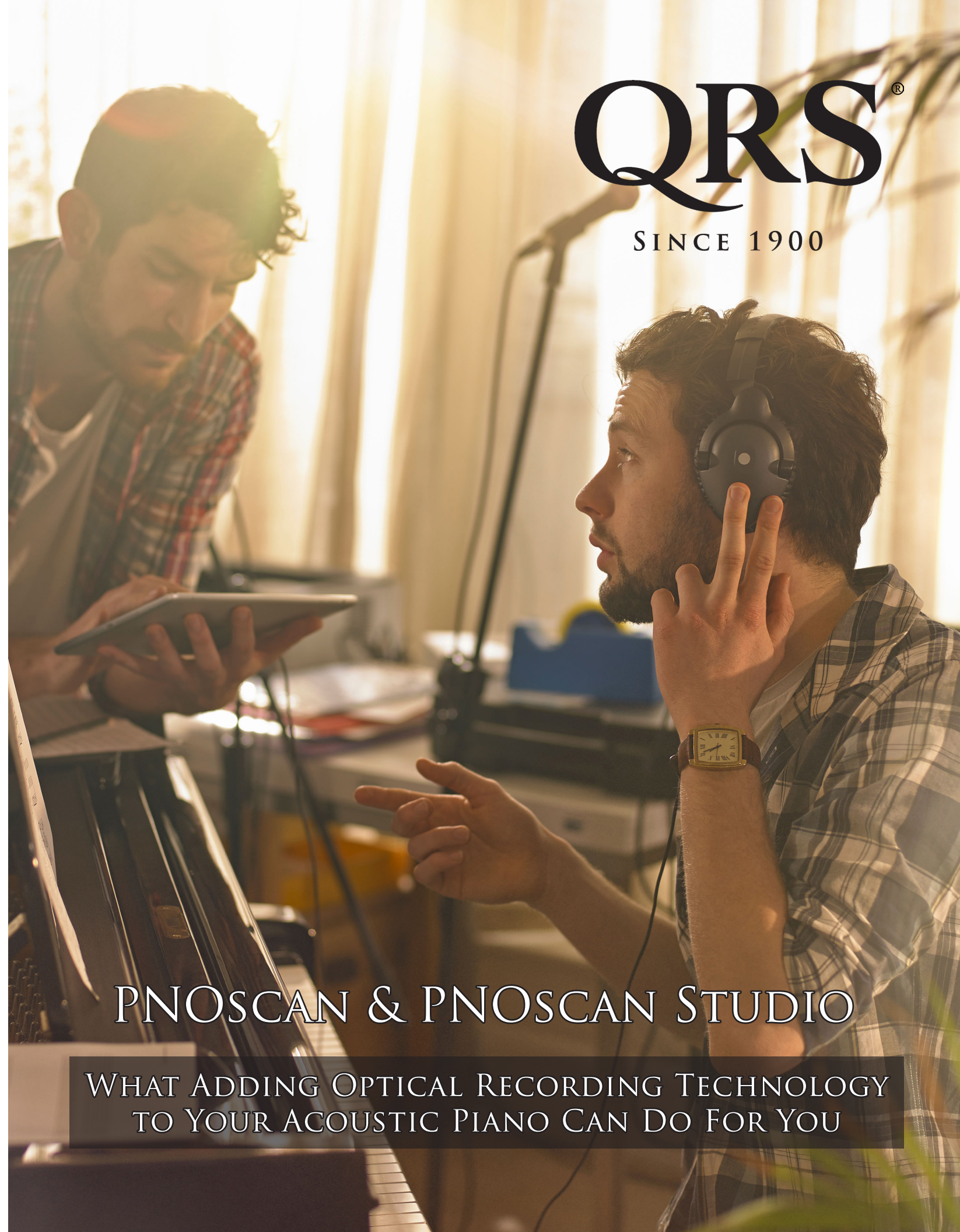
Each system is equipped with QRS Music Q35 or Q40 2.1 Speaker System. Manufactured for the purpose of piano accompaniment.



| PNOscan (QRS Pt# 79317C) | |
|-----------------------------------|--|
| Sensors | Optical Sensing of Keys and Pedals |
| Latency | <2ms |
| Sampling rate | 1000 times per second./per sensor - captures every nuance of every key and pedal |
| Retrofit capable | (no need to move the piano) |
| I/O | 5 pin MIDI, USB, and PNOmation™ |
| Configuration: | # of notes is system configurable. |
| Variable Trigger Threshold | Captures trills and fast repeats |
| Advanced Customization | Using an available PC based application. |

| PNOscan Studio Adds (QRS Pt# 81688-grand, 81690-upright) | |
|--|---|
| Graphical Setup | Log in through any Wi-Fi device to setup |
| Outputs | Bluetooth MIDI & Audio, 5 Pin & USB MIDI, Audio and Headphone. |
| Silent practice | Key Stop & headphones deliver feature. |
| SoundFonts | Three built in sounds to choose from or use Bluetooth MIDI to your own sounds |
| Wireless Third Party Software Integration: | Compatible with packages such as Superscore, PianoMarvel, Internet MIDI, Home Concert Logic, Pianotec networked MIDI... |
| Auto Record | No technology in the way—just play |
| Auto Save | Locally and to your free cloud account. |
| QRS Connect Cloud | A free cloud account for archiving and backing up your performances |
| Powered Speaker | QRS Q35 Power PNOspeaker allows you to layer other sounds on top of the piano or instead of. |
| Key Stop | Patent pending design keeps hammers from striking the strings without hurting the action or affecting the feel |
| Headphones | For listening while the silent feature is engaged |
| PLx_v | Volume enter knob plus I/O |
| Piano Marvel | One free year of online lessons |

QRS[®]
SINCE 1900



PNOscan & PNOscan Studio

WHAT ADDING OPTICAL RECORDING TECHNOLOGY TO YOUR ACOUSTIC PIANO CAN DO FOR YOU