



Sports Facilities Sound Solutions Guide

SOUND SOLUTIONS FOR ATHLETIC FACILITIES

Sports fans and athletes expect a superior game day experience. A well designed sound system can enhance that experience in so many ways. Mixers, amplifiers, microphones and properly selected speakers all go into providing your athletic facility with the ideal solution for a top notch sound system. For nearly 3 decades Starin has provided a number of solutions to the sports and athletic market. The Starin Solution provides proper understanding of exactly what works for those on a budget yet looking for superior results.

Starin can provide exactly the right solution to meet the demanding needs of sports facilities from youth sports through professional facilities.

Here are just a few users of Starin products:

Rose Hulman Institute of Technology

Terre Haute, IN

Varsity Baseball and Softball Fields

St Charles North High School

St Charles Illinois

Varsity Baseball Field

Grayslake Central High School

Grayslake, IL

Varsity Baseball and Softball Fields

Grayslake Youth Baseball Association

Grayslake, IL

Youth Baseball Parks

Lake County Lightning Travel Baseball

Lake County , IL

12 through 16 year old competition fields

Carmel Catholic High School

Mundelein, IL

Varsity Baseball Field

Gary Railcats Rail Yard

Gary, IN

Professional Baseball Team

and the list goes on:



CASE STUDY



Photo courtesy of Frank Kovacs

Head Coach Jeff Jenkins (r) and Assistant Coach Sean Bendel (l).



Whether it is professional or youth ball players, from high school to collegiate baseball, to provide the best fan and player experience, the approach to designing a sound system needs to be the same. Unlike other field sports like football, soccer or LaCrosse the sound needs to engulf the participants and come from many areas around the fans and players. The best way to do that is from the backstop area, the press box and preferably the lightning standards when available. When there are lighting systems

on the field it makes it easier to provide a well positioned speaker system affixed to the lighting standards on both foul lines. Each standard can handle an array of speakers that can point toward the grand stand or seating area behind home plate (toward the press box), out to the field for the players and then finally down the foul lines toward the outfield fences and foul poles. Then the players and fans congregating down the foul lines can hear sound seamlessly throughout the entire ball park.

Coach Jenkins and Coach Bendel said that the new sound system will not only enhance the player and fan experience but also provide better field communications during practices and instructional camps.

Rose Hulman Institute of Technology Varsity Baseball Field NCAA Division III 2010 Heartland Conference Champions Rose Hulman Institute of Technology (RHIT) upgraded their varsity baseball field sound system in grand style.

Matt Sinclair, RHIT Director of Sports Facilities found that the Starin products were a perfect match. “Joe Stopka, Starin Market Development Manager, connected us with a reliable Starin Products Integrator and was even involved in helping us choose the equipment that best met our needs. The integrator, the Starin guidance

and the price were all a perfect fit for what we were looking for. The only problem is that the new Varsity baseball field sounds so good that all our other sports teams want upgraded systems as well.”

RHIT Director of Sports and Athletic Facilities, Matt Sinclair, said that after hearing the new system on the baseball field the administration was so pleased that they immediately began making plans to make upgrades for various other facilities at the school. “Starin had the right solution and through one of their authorized integrators a properly designed system fell well within our budget requirements.”

Baseball Field SYSTEM APPLICATIONS

Here are a couple of options for 3 different size fields. Includes cabling and interfacing all the equipment.

System 1

High School, Collegiate and Minor League Professional Baseball Stadiums

Qty	Brand and Model	Description
1	Gator GRC-10X2	Mixer and Music Source Rack
1	PD8 ETA	Power Distribution for mixer rack
1	Australian Monitor PM12	Mixing console
1	Australian Monitor MYMTCD	CD/MP3/FM Tuner Source Player
1	Australian Monitor AMX526	Press to talk Desktop Mic
1	EV Re2Combo	Dual Wireless Mic System (lav/handheld)
7	ProCo M-10	Interface cables from mixer to amps and one for wireless mic
1	ProCo IPMB2Q-10	iPod Cable
2	ProCo DKRR-5	Interface cables for Media player
1	Gator GR-WH4B1221TB	Amp Rack
3	EV Q99	Power Amps
6	EV SX300PI	Loudspeakers
6	MB200	Speaker Mounting brackets
1000	ProCo	14-2 CL3 14 Gauge CL3 Rated Install Wire
12	ProCo NL2FC Speakon Connectors	Connectors for Speaker wire



Photo courtesy of Frank Kovacs

**Starting from
\$12,567.00**

System 3

Park District Youth Baseball, Little League, Bronco & Pony League and High School Softball Fields



Photo courtesy of Frank Kovacs

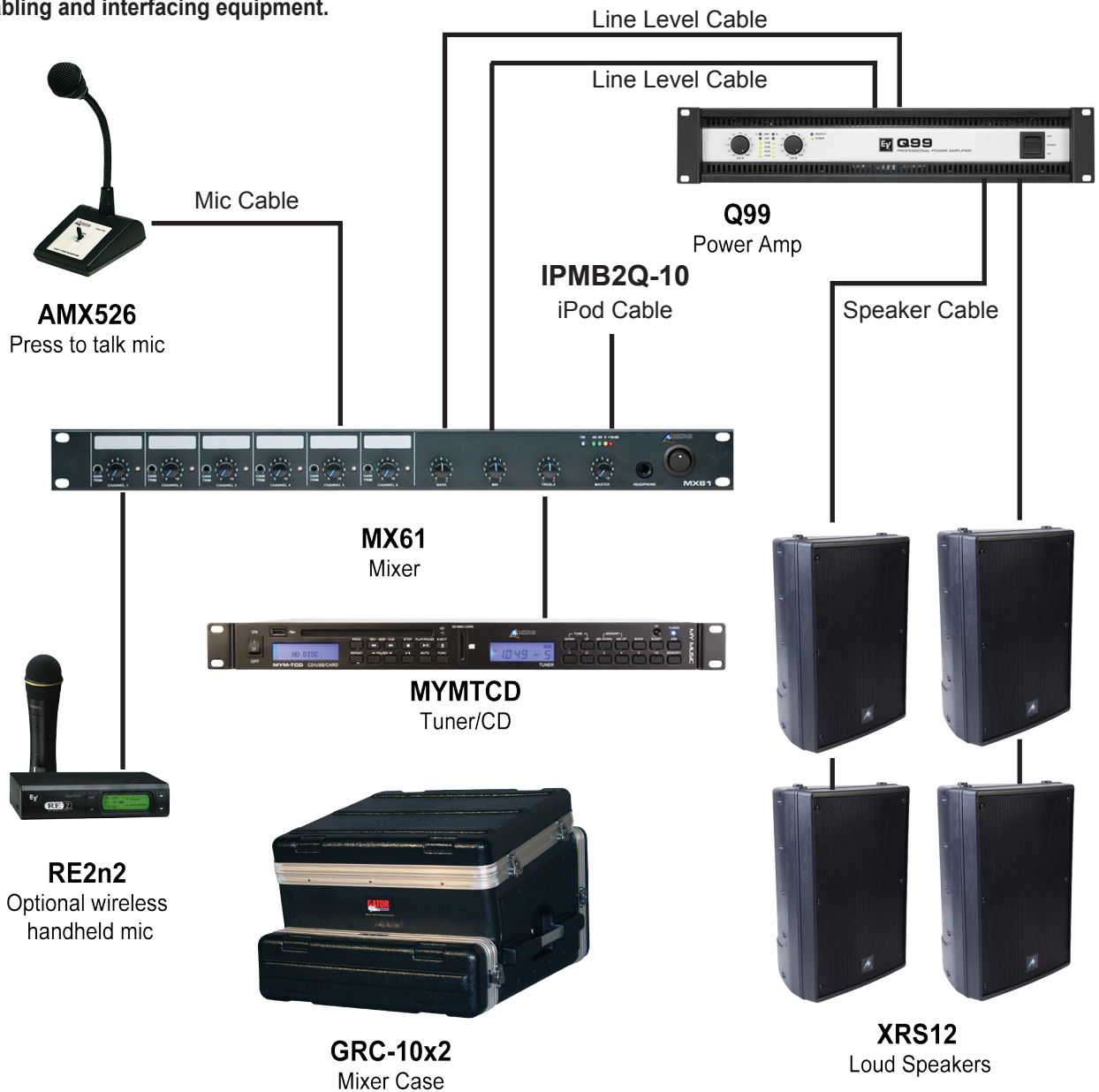
Qty	Brand and Model	Description
1	Gator Case G-PROR-4U-19	Mixer and Music Source Rack Case with handle and wheels
1	PD8 ETA	Power Distribution for mixer rack
1	Australian Monitor AMX526	Press to talk Desktop Mic
1	Australian Monitor MYMTCD	CD/MP3/FM Tuner Source Player
1	AMD200	Mixer Amp
1	ProCo IPMB2Q-10	iPod Cable
2	ProCo DKRR-5	Interface cables for Media player
2	ProCo S14NN-100	Excelline 100' Speakon to Speakon Speaker cable with wired on connectors
2	XRS8	Loudspeakers w/ U Bracket

**Starting at
\$3,441.00**

(Each system can be scaled up or down by altering the speaker and amplifier quantities)



System 2
Suggested System for Tournament Level, Travel Level and High School Varsity Baseball and Softball Stadiums
Starting from \$5,744.00
 Includes cabling and interfacing equipment.



Football / Soccer SYSTEM APPLICATIONS

The football field sound system typically is an end zone system with additional speakers placed on the light standards to fill in down the field. This is the way it has been done for years on college and pro fields alike. But by applying a more distributed approach once again the fan experience is enhanced. In order to maintain a cost effective approach for high school and collegiate environments using a system that emanates from the press box will help meet the customer needs when designing a football field sound system.

Soccer & Lacrosse Field Sound Systems

This is similar to a football field or football stadium in that there is typically a press box and grandstands. The source of sound is usually centered around the press box area projecting to all the stands. Secondly sound could emanate from the scoreboard area if the scoreboard is large enough and permanently installed.

High School and Collegiate Football & Soccer Stadiums

Qty	Brand and Model	Description
1	Gator GRC-10X2	Mixer and Music Source Rack
1	PD8 ETA	Power Distribution for mixer rack
1	Australian Monitor PM12	Mixing console
1	Australian Monitor AMX526	Press to talk Desktop Mic
1	TELEX 6 Legacy Intercom	2.4 GHz Coaches Wireless Intercom
6	TELEX Legacy Headsets	Coaches Headsets
1	Australian Monitor MYMTCD	CD/MP3/FM Tuner Source Player
1	EV Re2Combo	Dual Wireless Mic System (lav/handheld)
7	ProCo M-10	Interface cables from mixer to amps and one for wireless mic
1	ProCo IPMB2Q-10	iPod Cable
2	ProCo DKRR-5	Interface cables for Media player
1	Gator GR-WH4B1221TB	Amp Rack
2	EV Q99	Power Amps for SX-300's
1	Q1212	Power Amp for SX-600's
4	EV SX300PI	Loudspeakers for stadium fill
4	MB200	Speaker Mounting brackets
2	EV SX-600PI w/mounting brackets	Long throw high powered speakers for scoreboard
2000	ProCo	14-2 CL3 14 GAUGE CL3 RATED INSTALL WIRE
12	ProCo NL2FC Speakon Connectors	Connectors for Speaker wire



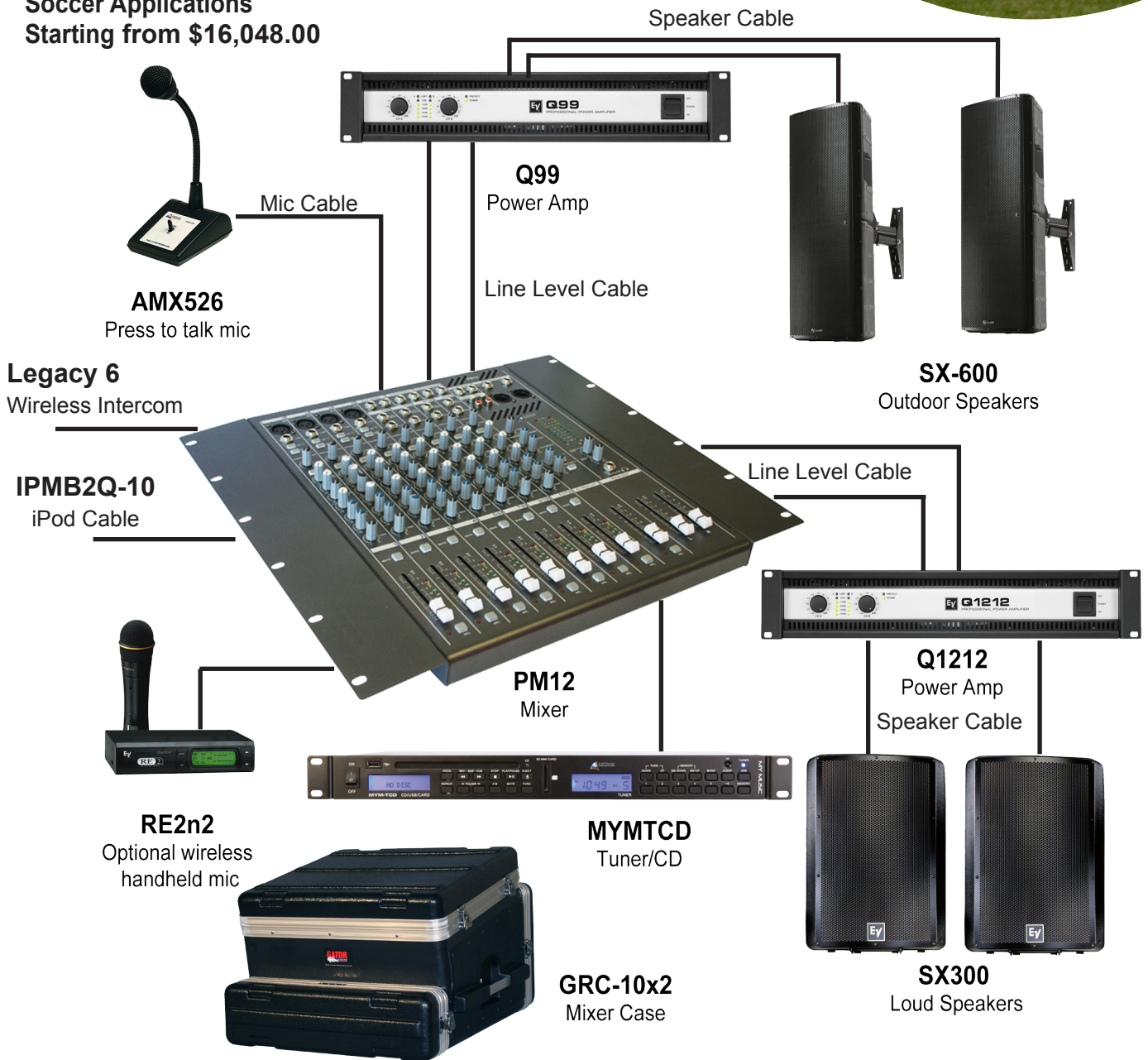
Bryan Station High School coach using Telex Legacy system

Starting at
\$16,048.00

(Each system can be scaled up or down by altering the speaker and amplifier quantities)



Suggested System for Football and Soccer Applications
Starting from \$16,048.00



Gymnasium and Fieldhouse SYSTEM APPLICATIONS



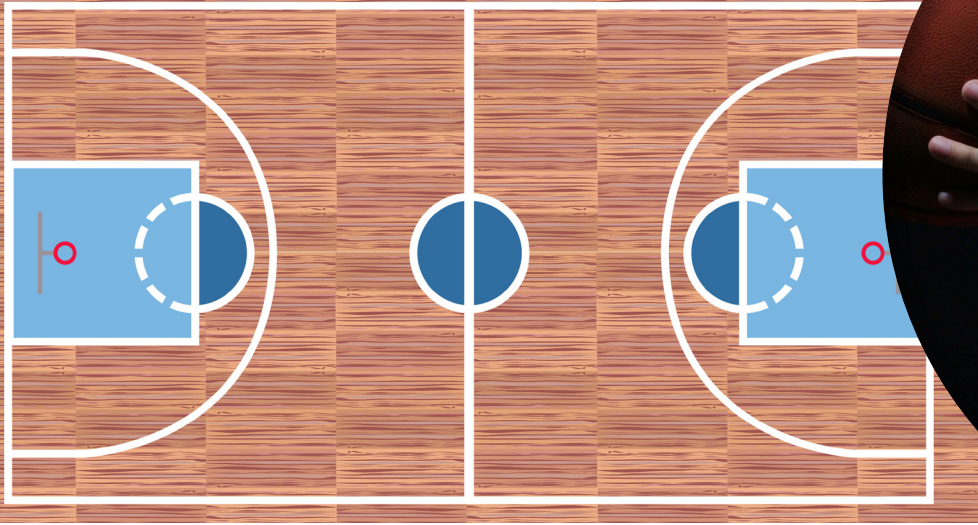
Basketball/Volleyball/Cheerleading Competition Sound Systems

Qty	Brand and Model	Description
1	Gator GRC-10X2	Mixer and Music Source Rack
1	PD8 ETA	Power Distribution for mixer rack
1	Australian Monitor PM12	Mixing console
1	Australian Monitor AMX526	Press to talk Desktop Mic
1	Australian Monitor MYMTCD	CD/MP3/FM Tuner Source Player
1	EV Re2Combo	Dual Wireless Mic System (lav/handheld)
7	ProCo M-10	Interface cables from mixer to amps and one for wireless mic
1	ProCo IPMB2Q-10	iPod Cable
2	ProCo DKRR-5	Interface cables for Media player
1	Gator GR-WH4B1221TB	Amp Rack
1	Q1212	Power Amp for SX-600's
4	EV SX300PI	Loudspeakers for stadium fill
4	MB200	Speaker Mounting brackets
1000	ProCo	14-2 CL3 14 GAUGE CL3 RATED INSTALL WIRE
8	ProCo NL2FC Speakon Connectors	Connectors for Speaker wire

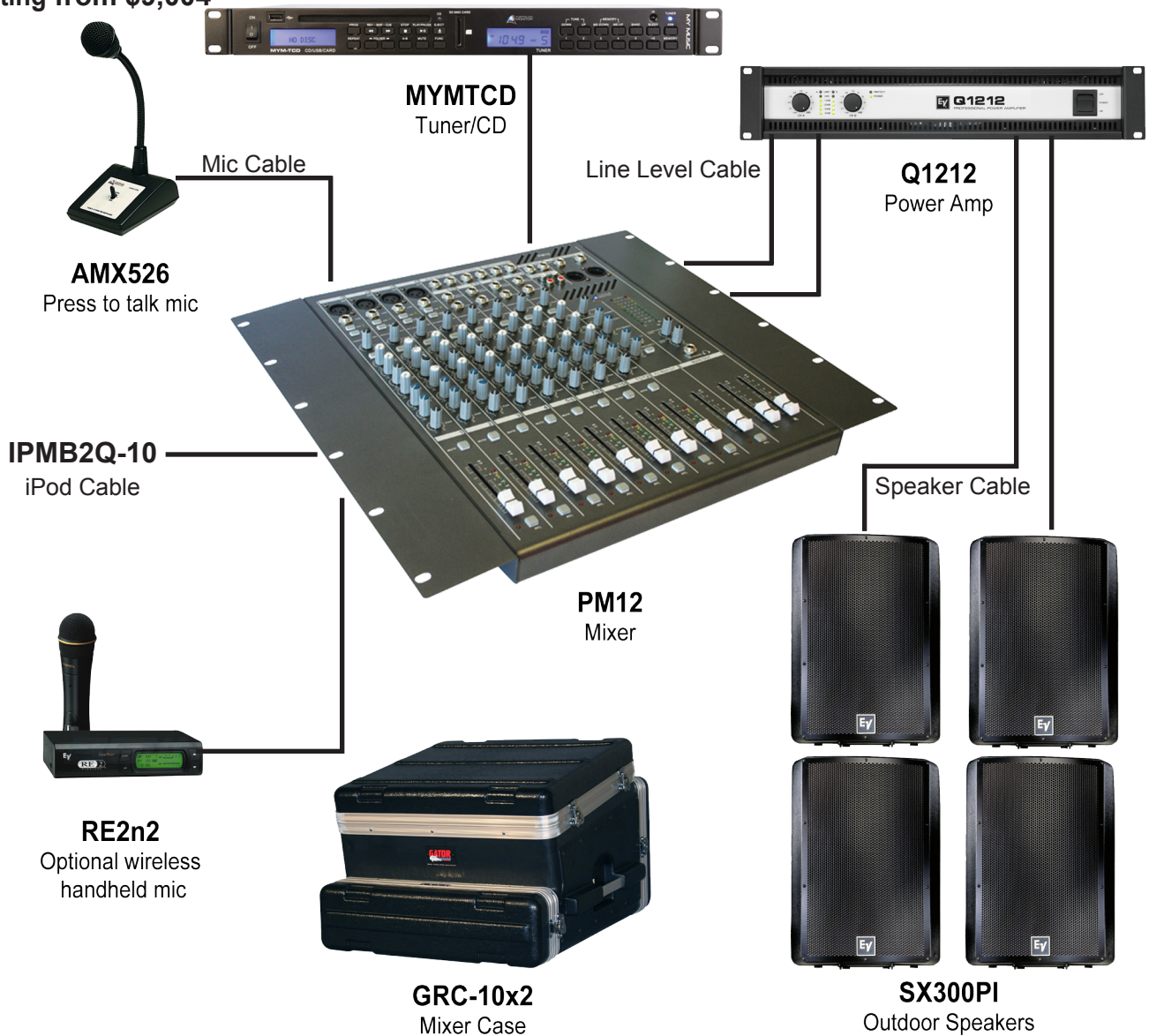
Starting from
\$9,004.00

Basketball and Volleyball fans love sound coming from all over the stadium. But hearing the names of their favorite player requires constant directivity of the speaker to the audience for optimum intelligibility. Speakers mounted directly over the gym floor aimed slightly toward the audience allows good coverage for both the players and the fans. The front end of the system (the microphone, mixer, CD player/MP3 playback source and power amp) will usually reside at or near the scorers table. So portability is required to use during games and stored for other non sports activities. More speakers and amps can be added to allow for a more distributed system when the gymnasium requires greater coverage. Or if the venue is a field house this same approach applies.

(Each system can be scaled up or down by altering the speaker and amplifier quantities)



Suggested System for Basketball Court and Field House Applications Starting from \$9,004



How a Starin Sports System goes together

Input Sources



First you need to know how many input sources you will be using. Input sources include Microphones, MP3 players (yes – like an iPod), CD players and DVD player (in case you have a video display you will use). This will need to include all the interface cables.

Microphones

How about a press to talk mic for the announcers? Press to talk mics set on the announcer's desk in the press box or at the scorer's table for announcing the games highlights such as player's names and the status of the game. This provides an outstanding experience for both the players and the fans.



How about wireless mics for field use? These can be used by coaches to communicate to players during practices or instructional camps. Or maybe there will be a special recognition ceremony on the field where announcements and speeches need to be made.

Mixers

This is the control center for adjusting the volume or level of each input source. Mixers help to provide good clarity through use of onboard equalizers (tone controls) and the proper amount of clean clear head room to make your system sound SUPERB!



Amplifiers



Amplifiers are the engine to your system. The signal that comes from your mixer goes to the amplifier in order to create enough electrical output to go down the speaker lines and provide the speakers the ability to perform at their best. Choosing the right power and speaker combination is crucial in making the system sound loud and clear. This allows the fans and athletes to enjoy the optimum game day experience.

Speakers

Speakers come in all shapes and sizes. Choosing the right ones for your sports facility comes from years of experience at all levels of competition. Whether it be the local youth sports complex through top level High School and up to all levels of Collegiate and Professional Sports, Starin can help you select the speakers that are right for your facility. Having the knowledge of selecting the appropriate performance and size of speaker, where to mount your speakers and just how many you need to cover your facility is all available from Starin Sports Systems Dealers.



Contact your Starin Sports Sound Solutions Dealer at:

www.sports@starin.biz or call

1(800) 847-5606 #260

Portable Wireless PA Systems

When your budget calls for a more cost effective solution try the portable sound systems from MIPRO.



MA101PAD1-HHCBS	Description	MSRP
MA-101a (6A)	Personal Wireless 30-Watt PA System	\$345.00
ACT-707HE (6A)	Cardioid Condenser Handheld Transmitter Microphone	\$180.00
SC-10	MA-101 Storage & Carry Bag	\$36.00
		TOTAL: \$561.00



MA705PAD1-HHCBS	Description	MSRP
MA-705PA	Personal Wireless 50-Watt PA System	\$405.00
8CD0022	CD/USB Player Module with Remote	\$360.00
MRM-70 (6A)	Plug-in UHF 16-Channel Diversity Receiver Module	\$120.00
ACT-707HE (6A)	Cardioid Condenser Handheld Transmitter Microphone	\$180.00
SC-50	Protective Cover with Side Pouch	\$45.00
MS-70	Tripod Speaker Stand for MA-705	\$54.75
		TOTAL: \$1164.75



MA707PAD1-HHCBS	Description	MSRP
MA-707PA	Personal Wireless 70-Watt PA System	\$525.00
8CD0022	CD/USB Player Module with Remote	\$360.00
MRM-70 (6A)	Plug-in UHF 16-Channel Diversity Receiver Module	\$120.00
ACT-707HE (6A)	Cardioid Condenser Handheld Transmitter Microphone	\$180.00
SC-70	Protective Cover with Side Pouch	\$60.00
MS-70	Tripod Speaker Stand for MA-707	\$54.75
		TOTAL: \$1,299.75



MA708PAD1-HHCBS	Description	MSRP
MA-708PA	Personal Wireless 120-Watt PA System with 8CD0024 CD/MP3 Player built in	\$1499.00
MRM-70 (6A)	Plug-in UHF 16-Channel Diversity Receiver Module	\$120.00
ACT-707HE (6A)	Cardioid Condenser Handheld Transmitter Microphone	\$180.00
SC-75	Protective Cover with Side Pouch	\$75.00
MS-70	Tripod Speaker Stand for MA-707	\$54.75
		TOTAL: \$1,928.75



Options for any of the above Systems

Model	Description	MSRP
ACT-707TE (6A)	Body Pack Transmitter	\$150.00
MU - 55L	4.5mm Omni-Directional Sub-miniature Lavalier Microphone (Black)	\$58.50
MU-55SKL	4.5mm Omni-Directional Sub-miniature Lavalier Microphone (Flesh)	\$75.00
MU-53HN	10mm Uni-Directional Sweat-resist Cardioid Headworn Microphone (Black)	\$66.00



Enjoy Every Sound of the Game



Everyone wants to hear all the excitement at a sports event. And hearing your favorite athletes name announced makes the sport more personal and memorable. But many times the outdoors present unavoidable distractions like noises from traffic, wind or even other enthusiastic fans. These distractions cause those in attendance to miss words, music and sound effects that are memorable and should not be missed. That is why a good sound system is important.

MIPRO has the perfect solution for any type of sporting event with its line of portable PA systems - MIPRO PA systems are ideal for baseball or softball fields, soccer or football fields or Lacrosse or Field Hockey events with their superior quality sound and heavy duty housing.

With MIPRO you now have one less thing to worry about.

Play ball with Mipro! For more information on MIPRO Portable PA systems contact us at (800) 846-5606 #260 or email us at mipro@starin.biz. **We can help find a system just right for you!**



MIPRO PA Systems

- Battery Operated for 6 to 8 hours
- Wireless Microphone Options
- Compact and light weight with wheels and handles for effortless portability
- Easy and quick to set-up.
- CD player and MP3 player Options



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