

**Golden Spread Emmaus Board of Directors**  
**April 4, 2013**  
**Family Medicine Center**

Present: Jim Crossman, Carolyn Hurt, Walt Marlett, Brenda Wilhite, Jaci Chadick, Theo McGee, Jim Watkins, Brian Thomas, David Hudson, Mitch Woodard, David Dzik, Lynn Radney, Pam Stork, Kurt Oheim, Sharon Alexander

Absent: Jim Laughlin, Denise Farris

Guest: Roger Radney – Men’s Registrar, Jeff Beasley, Daniel Roeder

Meeting called to order by Jim Crossman

Opening Prayer given by David Hudson

**Treasurer Report**

David Dzik presented the Treasurer’s Report. The Balance Sheet as of March 31, 2013 shows \$16,027.59 in the bank. He also presented the Profit and Loss Statement covering January through March 2013. Other expenses for license and fees in the amount of \$554.92 is the cost for the data base conversion that took place in November. For other costs under Expenses on the P&L sheet for \$995.00 is for the TapTap text program. Both the tap-tap and data base conversion costs are a one time cost. If we choose to renew tap-tap, it will be an annual fee of \$995.00 each year. Everyone agreed that the TapTap program has been very helpful. So far, all the board members have signed up for the program and we currently have 70 community members signed up. A question was raised inquiring if we have insurance coverage to pay for any injuries sustained while on a walk (One of the ALD’s from the February walk fell off the risers in the chapel during Candlelight and broke several ribs and other injuries) David indicated the insurance coverage we have is in case someone sues Emmaus. Jim Crossman will contact Ceta Canyon to see if they cover the expenses. David reported that all expenses have been paid except for the supply list from the last walk. Motion made by Theo McGee to accept the Treasurer’s Report, second by David Hudson.

**Minutes Approval**

Minutes from January 17, 2013 and February 28, 2013 were previously distributed. No comments or corrections were received. Motion made by Brian Thomas to accept the January and February minutes, second by Mitch Woodard.

**Walk #232**

Mitch Woodard indicated “God showed up!!!” He indicated a very successful walk. Several comments were made regarding clergy concerns during the walk with one assistant spiritual director. These concerns will be brought to Jim Watkins and Jim Wilhite’s attention. A question was raised as to who is responsible for the elements and goblet/tray for communion at a Community Gathering. There were no elements at the Community Gathering at Colonies Church of Christ and someone had to go to another church to obtain the elements/goblets/tray.

Kurt Oheim and Jim Watkins volunteered to work on getting another set that could be used exclusively for Community Gatherings. We have 2 sets at Ceta Canyon but those stay in storage when not in use for a walk. Mitch also expressed concern that one of the pilgrims from his walk is involved in a large ministry and wanted to offer a discounted gift to all the pilgrims for this book ministry. The cost would be approximately \$34.00 for each set. The board discussed that this would not be appropriate and can't allow gifts to be offered to pilgrims as this opens the door for others.

### **Walk #233**

Lynn Radney reported the last team meeting will be this Saturday, April 6<sup>th</sup>. David Hudson indicated BST is ready!

### **Chrysalis Update**

Brian Thomas announced that the Assistant Lay Director who has been learning the job of ALD from Jeff Beasley has resigned from the board. Brian expressed concern as the Chrysalis Board of Directors seems to be fading. The remainder of board members left are energetic, but a small group. Jeff indicated that he has been in conversation with Pat Miller over the dwindling board and Pat has shared that it is fine for Chrysalis to work as a sub-committee. Jeff indicated that when the flights are over this summer, plans are to see if some of the youth from the flights would be interested in serving on the board. Chrysalis plans on hosting the meal for the May 2<sup>nd</sup> Emmaus Community Gathering. Brian stressed that we must stay connected with the youth or they lose interest very quickly if nothing is happening. Anyone 17 or older who serves on the Chrysalis Team or Chrysalis Board of Directors MUST have a background check. The Chrysalis manual says 18 but Brian pointed out in the state of Texas it is 17. Scholarships for the flights was also discussed. It was recommended that the communities the youth come from should be approached first for funding before we consider the requests for scholarships. Jeff Beasley and Marvin Mode have been making contacts with other communities to try and build up enthusiasm for the upcoming walks. It was recommended that Jeff Beasley and Brady Clark develop an agenda in the next few weeks and start meeting with local youth pastors every month. Jaci Chadick is the IBR for the girls' flight in June. She indicated that if a pilgrim comes forward during the walk with issues of sexual abuse, we are required by law to report this. Everyone felt that it should be the responsibility of the Spiritual Director to report this. Jaci announced the first team meeting is this coming Saturday. Jeff indicated that Cynthia Walker offered for Chrysalis to do means anytime for the community gatherings as fundraisers for Chrysalis.

### **Technology Committee Update**

Carolyn reported a virus in our new website and data base and difficulties in the last 2 days of accessing the site. She reported that Larry Deel is aware of this and it effects all the IMS data bases, not just ours. Otherwise, we are continuing to update the data base with all the walk histories, talk assignments and putting the finishing touches on the web site.

### **Sound System Discussion Update**

Daniel Roeder with Crossroads Technology Company presented a proposal for a new sound system for the Emmaus walks at Ceta Canyon. Daniel installed the original sound system in

Ceta many years ago so he is familiar with what is currently in place. Total cost for his proposal is \$3,918.39. He indicated shipping would cost around \$150.00. All equipment would be at Danny's cost.

Proposal includes:

- 3 -- K and M Boom Microphone Stands \$217.35
- 2 -- 6 Pack of 20' Whirlwind Microphone Cables \$73.50
- 4 -- 1/4" Speaker Cables \$ 150.99
- 1 -- AudioTechnica Wireless Lavalier Microphone System \$472.50
- 2 -- AudioTechnica Podium Gooseneck Microphone with Shock-Mount Plate \$313.95
- 1 -- Countryman Direct Box with Audio Cable for BlueRay Player \$199.50
- 1 -- Yamaha StagePas 500 Self-Contained Portable Sound System with two roller cases \$983.85
- 1 -- Listen Assisted Listening System with Six Body Packs \$1,506.75

Issues pertaining to storage of the equipment and the temperature upstairs in the storage closet were also discussed. Everyone felt if we are going to invest this much money in equipment that sturdy boxes/tubs should be used to store the equipment. Motion made by Brian Thomas to accept the proposal and purchase the new sound system equipment, second by Lynn Radney.

### **Other Discussion**

Jim Watkins discussed issues with getting clergy to serve on the August Men's walk. A question was raised if we can have elders in the churches to serve on the spiritual team. After much discussion, it was suggested that we use whatever each church recognizes as appropriate clergy training. If they are not serving as pastors in their own churches, they would be appropriate to serve as assistant spiritual directors on a walk, but not as a Spiritual Director.

A question was raised if Kairos can bring t-shirts to sell at community gatherings and everyone thought this was acceptable.

Next Emmaus Board meeting was changed to May 16<sup>th</sup> at Potter County Sherrif's office.

**Closing Prayer** given by Jim Watkins.

Golden Spread Emmaus Board of Directors  
Agenda  
April 4, 2013  
Family Medicine Center

Call Meeting to order	Jim C.
Opening Prayer	David H.
Treasurer Report	David D.
Minutes Approval	Carolyn
Walk #232	Mitch/Jim C.
Walk #233	Lynn
Chrysalis Update	Brian/Jim L.
Technology Committee Update	Carolyn
Sound System Discussion Update	Roger
Other Discussion	All
Closing Prayer	Jim W.

## Golden Spread Emmaus

**Balance Sheet**

As of March 31, 2013

	<u>Mar 31, ...</u>
<b>ASSETS</b>	
Current Assets	
Checking/Savings	
1000 · Cash - ANB	14,415.10
Total Checking/Savings	14,415.10
Other Current Assets	
1400 · Prepaid Insurance	1,612.49
Total Other Current Assets	1,612.49
Total Current Assets	16,027.59
<b>TOTAL ASSETS</b>	<b><u>16,027.59</u></b>
<b>LIABILITIES &amp; EQUITY</b>	
Liabilities	
Current Liabilities	
Other Current Liabilities	
2000 · Prepaid - Men	1,329.50
2100 · Prepaid - Women	2,210.00
2200 · Reserved - Kairos	435.15
2300 · Reserved - Chrysalis	401.81
2400 · Reserved - Missions	4,970.63
2450 · Reserved - Faith City Miss...	1,050.00
2500 · Reserved - Scholarships	1,794.58
2550 · Reserved - Clark Scholars...	1,774.00
2650 · Reserved - Book Table	299.00
Total Other Current Liabilities	14,264.67
Total Current Liabilities	14,264.67
Total Liabilities	14,264.67
Equity	
3900 · Retained Earnings	2,855.99
Net Income	-1,093.07
Total Equity	1,762.92
<b>TOTAL LIABILITIES &amp; EQUITY</b>	<b><u>16,027.59</u></b>



## Golden Spread Emmaus

## Profit &amp; Loss

January through March 2013

	Jan 13	Feb 13	Mar 13	TOTAL
Ordinary Income/Expense				
Income				
4000 · Team Fees	0.00	5,661.00	4,960.00	10,621.00
4100 · Pilgrim Fees	0.00	6,300.00	6,125.00	12,425.00
4200 · Book Table (Net of Expen...	0.00	786.51	-583.98	202.53
Total Income	0.00	12,747.51	10,501.02	23,248.53
Expense				
6000 · Room & Board	0.00	10,690.00	10,060.00	20,750.00
6200 · Copies	0.00	102.39	92.19	194.58
6300 · Supplies	575.97	61.00	1,288.73	1,925.70
6500 · Upper Room Fees	0.00	468.00	455.00	923.00
6600 · Other Costs	995.00	0.00	0.00	995.00
6800 · Insurance	179.17	179.17	179.17	537.51
Total Expense	1,750.14	11,500.56	12,075.09	25,325.79
Net Ordinary Income	-1,750.14	1,246.95	-1,574.07	-2,077.26
Other Income/Expense				
Other Income				
8000 · Interest Income	1.51	1.22	1.23	3.96
8100 · Candlelight Offering	0.00	280.00	329.60	609.60
8200 · Community Offering	0.00	260.25	348.80	609.05
8300 · Mission Donations	0.00	100.00	200.00	300.00
8500 · Nametags (Net of Expense)	0.00	0.00	16.50	16.50
Total Other Income	1.51	641.47	896.13	1,539.11
Other Expense				
9000 · Miscellaneous Supplies	0.00	0.00	20.07	20.07
9100 · License & Fees	0.00	0.00	534.85	534.85
Total Other Expense	0.00	0.00	554.92	554.92
Net Other Income	1.51	641.47	341.21	984.19
Net Income	<u>-1,748.63</u>	<u>1,888.42</u>	<u>-1,232.86</u>	<u>-1,093.07</u>

# QUOTATION

TO: Mr. Roger Radney

PROPOSAL 20131701mjd  
4/4/2013

**WE HEREBY PROPOSE TO FURNISH ALL EQUIPMENT AND LABOR TO PROVIDE THE**

**INSTALLATION IN THE:** Golden Spread Emmaus Board

**LOCATED AT:** Ceta Canyon Conference Happy, Texas 79042

**TO INCLUDE ALL ITEMS LISTED BELOW:**

## Sound Equipment

- 3 -- K and M Boom Microphone Stands \$217.35 \_\_\_\_\_ initial for acceptance
- 2 -- 6 Pack of 20' Whirlwind Microphone Cables \$73.50 \_\_\_\_\_ initial for acceptance
- 4 -- 1/4" Speaker Cables \$ 150.99 \_\_\_\_\_ initial for acceptance
- 1 -- AudioTechnica Wireless Lavalier Microphone System \$472.50 \_\_\_\_\_ initial for acceptance
- 2 -- AudioTechnica Podium Gooseneck Microphone with Shock-Mount Plate \$313.95  
\_\_\_\_\_ initial for acceptance
- 1 -- Countryman Direct Box with Audio Cable for BlueRay Player \$199.50 \_\_\_\_\_ initial for  
acceptance
- 1 -- Yamaha StagePas 500 Self-Contained Portable Sound System with two roller cases  
\$983.85 \_\_\_\_\_ initial for acceptance
- 1 -- Listen Assisted Listening System with Six Body Packs \$1,506.75 \_\_\_\_\_ initial for

A/C Power and conduit to be provided by others.

MANUFACTURES WARRANTY ON EQUIPMENT/ONE YEAR WARRANTY ON LABOR EXCEPT FOR FIRE, THEFT, ABUSE,  
AND ACTS OF GOD.

**THE PRICE FOR THE ABOVE WORK WILL BE:** Price indicated by above initials plus required shipping

**PAYABLE ON THE FOLLOWING TERMS:** 35% Upon signing, progressive billing to 90%, net upon completion.

**ACCEPTED BY:** \_\_\_\_\_ **BY:** \_\_\_\_\_

**CUSTOMER**

**CONTRACTOR**

**DATE:** \_\_\_\_\_ **DATE:** \_\_\_\_\_



**CROSSROADS**  
technologies

O 806 350 5400  
F 806 350 5410

203 W. 8th Suite 340 Amarillo, TX 79101

www.crttex.com

# LS-02-072

## Basic Listen FM System (72 MHz)



Configurations
LS-02-072-01
LS-02-072-02
LS-02-072-03

If you are on a tight budget, the Basic Listen System is ideal to give you a great performance at a great price. This installed system starts off with basic components such as a telescoping antenna and LR-300 Digital Receivers with ear buds. Use this system for auditory assistance, in-ear cueing, visual descriptions, board meetings, and training meetings. Great for outdoor events, corporations, and theaters. (Available only in 72 MHz.)

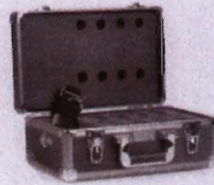
### Highlights

- Great performance at a great price.
- Superior audio (80 dB SNR).
- Available only in 72 MHz.
- Limited Lifetime-Warranty - hassle free support.

### Includes

- (1) LT-800-072 Stationary FM Transmitter (72 MHz)
- (1) LA-106 Telescoping Top Mounted Antenna (72 MHz)
- (4) LR-300-072 Portable Digital FM Receiver (72 MHz)
- (4) LA-161 Single Ear Bud
- (1) LA-304 Assistive Listening Notification Signage Kit

### Accessories\*



#### LA-321 8-Unit Portable FM Product Charging/Carrying Case

Store and charge up to 8 portable FM units in this hard sided, locking case (NiMH batteries required). Features easy, drop-in automatic charging. Use to charge units with NiMH batteries.



#### LA-317 4-Unit Portable FM Products Charging/Carrying Case

Store and charge up to 4 portable FM units in this hard-sided, locking case (NiMH batteries required).



#### LA-208 Power/Charging Supply

Use to power individual portable units without batteries, or to charge units with NiMH batteries. 115VAC/ 7.5 VDC.



#### LA-362 Rechargeable AA NiMH Batteries (2)

Longer life than NiCAD without the "memory effect". Required for use in charging cases. Package of 2 batteries.

\*See website or call Listen for full range of accessories



### Ear Speaker

**Part Number: LA-164**

- Use with any of Listen's receivers.
- Single ear clip that doesn't mess up hair.
- Easily cleaned (solid plastic speaker).
- Strong volume output.
- The receiver's antenna is built into the headphone cord.

Specifications	
Impedance	32 Ohm +/- 15%
Maximum Input	100 mW
Connector	3.5 mm mono
Cable Length	36 in. (92 cm)
Unit Weight	4 oz. (113 g)
Shipping Weight	1 lb (454 g)



### Stereo Headphones

**Part Number: LA-165**

- Dual ear over-the-head style.
- Traditional headset design.
- Ear cushions fold flat for convenient storage.
- Replaceable ear cushions available (specify LA-167).
- The earphone cord works as the receiver's antenna.

Earphone Specifications	
Impedance	32 Ohm +/-15%
Maximum Input	100 mW
Connector	3.5 mm stereo
Cable Length	36 in. (92 cm)
Unit Weight	5 oz. (142 g)
Shipping Weight	1 lb (454 g)



### Neck Loop

**Part Number: LA-166**

- Use with any of Listen's receivers.
- Use with any hearing aid equipped with a "T" coil.
- The receiver's antenna is built in to the headphone cord.

Specifications	
Impedance	12 Ohm +/-15%
Maximum Input	2 W (75mW nominal)
Connector	3.5 mm mono
Cable Length	37 in. (94 cm)
Circumference	16 in. (41 cm) from base of loop coil
Unit Weight	5 oz. (142 g)
Shipping Weight	1 lb (454 g)



211

## BOOM ARM

Classic one-piece boom arm with 3/8" thread, and sliding adjustment through non-scratching swivel joint. Easy tightening with T-bar locking screw. Complete with locking washer and plastic handgrip.



### Product variant

21100-300-01 - nickel

### Data

Boom arm	one-piece design
Boom arm length	840 mm
Clamping	T-bar locking screw
Material	steel
Threaded connector	3/8"
Type	nickel
Weight	0.78

21435

## SPEAKER STAND

The standard speaker stand constructed from steel tubing has been significantly improved. The new legs with a tubing diameter of 1.378" and the large, fixed foot end caps guarantee stability and safety. Lasered bore holes and durable, robust plastic saddle washers improve the coefficient of friction between the legs and braces and prevent scratching of the finish. A compact clamp with a patented push-button system affords user-friendly stand height adjustment. The locking screw provides additional stability and vibration-free speaker mount. Additional features include a pull-out guard for the extension tube, the mounting aid and an integral anti-shock component.

### Product variant

21435-177-55 - black

### Data

<b>Height</b>	from 51.968 to 79.527"
<b>Height adjustment</b>	locking screw with push-button system
<b>Leg construction</b>	tube legs with cross braces
<b>Material</b>	steel
<b>Max. load capacity</b>	110.132
<b>Product Category</b>	Baseline
<b>Rod combination</b>	2-piece folding design
<b>Special features</b>	patented gradual height adjustment system integrated shock absorber mounting aid 21434 included adaptor sleeve 21326 included
<b>Tube end(s)</b>	diameter 1.378/1.496"
<b>Type</b>	black
<b>Weight</b>	12.115



# STAGEPAS Series

## Portable PA Systems



### STAGEPAS 500



### STAGEPAS 300

\*The speaker stand and microphone stand are options.

Great live sound has never been easier.

- This all-in-one system includes a pair of passive speakers, a detachable powered mixer, and a pair of speaker cables.
- Both the 8-channel 150W + 150W STAGEPAS 300 mixer and the 10-channel 250W + 250W STAGEPAS 500 mixer can be used either while installed in the speaker compartment or detached for easy positioning and access.
- Built-in equalization and reverb add the finishing touches to your sound.
- STAGEPAS 500 features phantom power for condenser microphones and channel compression/limiting for added sonic control.
- XLR and phone-jack inputs on mono channels, and phone-jack and RCA pin-jack inputs on stereo channels allow connection to a wide range of sources.
- MIC/LINE switches select microphone or line level input matching for channels 1 through 4.
- The STAGEPAS 300 speakers can be stand mounted using standard speaker stand adaptors such as the ADP138, Ultimate BMB200, or equivalent. STAGEPAS 500 speaker is directly mountable on 35mm pole with securing thumb screw.
- Auto Limiter prevents overload damage to power amplifier and speakers.
- LED output level meter.
- Optional BMS-10A Mic Stand Adaptor for the mixer unit.

#### OPTION

##### BMS10A

Mic Stand Adaptor



The optional BMS-10A Mic Stand Adaptor makes it easy to mount the mixer on a microphone stand.



## STAGEPAS 500

### GENERAL SPECIFICATIONS (MIXER)

Output Power (Maximum)	250W+250W(±10%/4Ω @10% THD at 1kHz (SPEAKERS L/R)
Output Power (RMS)	200W+200W/4Ω @1% THD at 1kHz (SPEAKERS L/R)
Maximum Output Level	116dB (1m)
Frequency Response	-3dB, 0dB, +1dB @20Hz-20kHz (MUSIC/SPEECH=MUSIC) (MONITOR OUT)
(Nominal output level@1kHz)	-3dB, 0dB, +1dB @80Hz-20kHz (MUSIC/SPEECH=SPEECH) (REC OUT)
	-3dB, 0dB, +1dB @20Hz-20kHz, 1W OUTPUT (MUSIC/SPEECH=MUSIC, without Speaker EQ) (SPEAKERS L/R)
Total Harmonic Distortion	Less than 0.5% @20Hz, 1kHz, 20kHz +14dBu GAIN=nominal (MONITOR OUT, REC OUT)
Hum & Noise	Less than -106dBu (CH1/2)
(Equivalent Input Noise, Rs=150Ω, MIC/LINE = MIC)	Less than -112dBu (CH3/4)
Crosstalk (@1kHz)	Less than -70dB before input channels
Phantom power switch	ON / OFF (CH1-4)
COMP/LIMIT switch	ON=COMP, OFF=LIMIT (CH1/2)
Input Channel Equalization <sup>1</sup>	±15 dB (MAX)
	HIGH: 10kHz shelving
	LOW: 100Hz shelving
Power Consumption	65W
Dimensions (W x H x D)	342 x 544.5 x 298mm (13.5" x 21.4" x 11.7") [Speaker x 1]
	330 x 175 x 111.5mm (13.0" x 6.9" x 4.4") [Mixer]
Weight	24.0kg (52.9lbs) [Speaker x 2 + Powered Mixer]

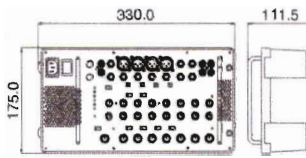
<sup>1</sup>1. Shelving turnover/rolloff frequency: 3dB before maximum or boost.

### GENERAL SPECIFICATIONS (SPEAKERS)

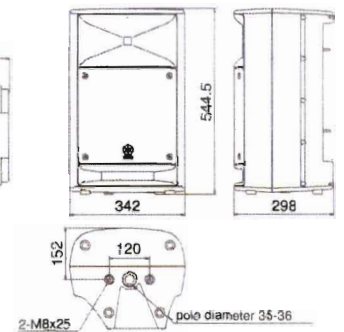
Enclosure	2-way bass-reflex type, Polypropylene, Black
Crossover Frequency	4.0kHz (LF:12dB/oct, HF:12dB/oct)
Frequency Range	55Hz-20kHz (-10dB)
Speaker Unit	LF: 1" (25cm) Cone
	HF: 1" (2.54cm) Compression Driver

### DIMENSIONS

MIXER



SPEAKER



unit : mm

## STAGEPAS 300

### GENERAL SPECIFICATIONS (MIXER)

Output Power (Maximum)	150W + 150W / 6Ω @10% THD at 1kHz (SPEAKERS L/R)
Output Power (RMS)	100W + 100W / 6Ω @ 1% THD at 1kHz (SPEAKERS L/R)
Frequency response	-3dB, 0dB, +1dB @20Hz-20kHz, 1W Output/6Ω (MUSIC/SPEECH switch=[SPEECH])(SPEAKERS L/R)
	-3dB, 0dB, +1dB @20Hz-20kHz, +4dBu 10kΩ load (MUSIC/SPEECH switch=[MUSIC])(MONITOR OUT, REC OUT)
Total harmonic distortion	Less than 1% @1kHz, 50W Output Power (SPEAKERS L/R)
	Less than 0.5% @20Hz-20kHz, +14dBu 10kΩ load (MONITOR OUT, REC OUT)
Hum & noise	Less than -65dBu (Residual noise)(SPEAKER OUT)
(Equivalent Input Noise, Rs=150Ω, MIC/LINE = MIC)	Less than -90dBu (Residual noise)(MONITOR OUT, REC OUT)
Crosstalk (@1kHz)	Less than -70dB
Input Channel Equalization <sup>1</sup>	±15 dB (MAX)
	HIGH: 10kHz shelving
	LOW: 100Hz shelving
Power consumption	70W
Dimensions (W x H x D)	275 x 456 x 255mm (10.8" x 18.0" x 10.0") [Speaker x 1]
	290 x 96 x 160mm (11.4" x 3.8" x 6.3") [Mixer]
Weight	18.0kg (39.7lbs) [Speaker x 2 + Powered Mixer]

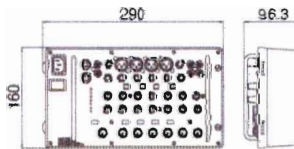
<sup>1</sup>1. Shelving turnover/rolloff frequency: 3dB before maximum or boost.

### GENERAL SPECIFICATIONS (SPEAKERS)

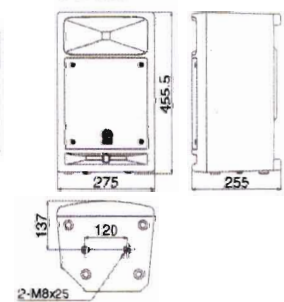
Enclosure	Bass-reflex type
Speaker unit	LF: 8" (20cm) cone
	HF: 1" (2.54cm) Compression driver
Crossover frequency	4kHz
Frequency range	55Hz to 20kHz
Maximum output level	112dB (1m)

### DIMENSIONS

MIXER



SPEAKER



unit : mm

# **Yamaha YBSP500 Rolling Carry Case for MSR250 and STAGEPAS 500**



# PRO 49Q and PRO 49QL

REMOTE-POWERED  
CARDIOID CONDENSER  
QUICK-MOUNT GOOSENECK  
MICROPHONES

**ProPoint**<sup>®</sup>  
M I C R O P H O N E S



## Description

The PRO 49Q is a wide-range condenser microphone with a cardioid (unidirectional) polar pattern. It was designed for high-quality sound reinforcement and other demanding sound pickup situations. With an overall length of 13.07", its small-diameter alternating gooseneck design permits highly flexible positioning while maintaining a smooth, well-contoured appearance. The PRO 49QL is a "16.46" version of this microphone.

The PRO 49Q features an XLRM-type connector insert at its base, allowing it to be plugged directly into an XLRF-type jack or cable connector. The unit's integral electronics can be powered from any external 9V to 52V DC phantom power source.

Audio-Technica design engineers have utilized the newest low-mass technology in the quest for superior performance. The charge is now on the fixed back plate, rather than the moving element. With the A-T fixed-charge "back plate" construction, a gold-vaporized diaphragm just 2 microns thick (about 0.000079") can be used. This reduces moving mass substantially, improving frequency response and transient response while reducing distortion.

The microphone element is enclosed in a rugged housing with a low-reflectance black finish.

## Operation and Maintenance

Output is low impedance balanced. The output connector mates with XLRF-type connectors. The balanced signal appears across Pins 2 and 3, while the ground (shield) connection is Pin 1. Output is phased so that positive acoustic pressure produces positive voltage at Pin 2 in accordance with industry convention.

DC phantom power (9-52 volts) must be applied equally to Pins 2 and 3, with the ground for the power supply connected to Pin 1. This can be provided by a console or mixer with built-in phantom voltage or with the addition of an in-line phantom power supply, such as the recommended Audio-Technica CP8506 and AT8801 power supplies.

For balanced low-impedance inputs (required for phantom power), AT8314 cable (or equal) should be used. Regardless of cables used, it is important that both ends of each cable are wired consistently, with the shield always connected to Pin 1 at both ends, Pin 2 connected to Pin 2, and Pin 3 to Pin 3. This will ensure that all microphones are electrically in phase and reduce problems of uneven response and sound cancellation when two microphones are used close to each other.

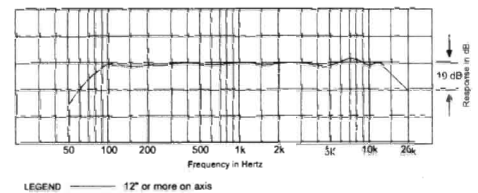
The high sensitivity of the PRO 49Q ensures useful output and an excellent match to most mixer, tape recorder and amplifier inputs. It will provide undistorted output even in sound fields as loud as 134 dB SPL. However, due to the high sensitivity, in some instances it may be possible to overload sensitive input stages. If distortion occurs, *first* check for input overload. In such cases, an attenuator such as the Audio-Technica AT8202 may be required between the mic and the electronics input. (Also, many mixers provide "input pad" switches to reduce mic-input signal levels.)

The provided AT8146 windscreen simply slips over the head of the microphone, effectively reducing wind noise or "popping" when used extra close.

The small-diameter gooseneck is very easy to manipulate for proper positioning. It is heavily lubricated to offer very smooth and quiet operation. Should it become noisy with prolonged use, apply a light machine oil directly on the gooseneck area affected.

While a modern condenser microphone is not unduly sensitive to the environment, temperature extremes can be harmful. Exposure to high temperatures can result in gradual and permanent reduction of the output level. Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for long periods of time. Extremely high humidity should also be avoided.

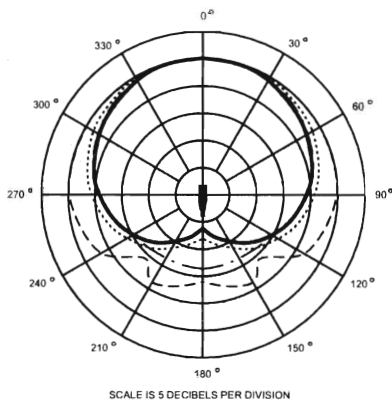
Frequency Response





# PRO49Q and PRO49QL

Polar Pattern



LEGEND  
 200 Hz ———  
 1 kHz - - - -  
 5 kHz ······  
 8 kHz - · - ·

## PRO 49Q and PRO 49QL SPECIFICATIONS†

Element .....	Fixed-charge back plate permanently polarized condenser
Polar Pattern .....	Cardioid (Unidirectional)
Frequency Response .....	70-16,000 Hz
Open Circuit Sensitivity .....	-37 dB (14.1 mV) re 1V at 1 Pa*
Impedance .....	100 ohms
Maximum Input Sound Level .....	134 dB SPL, 1 kHz at 1% T.H.D.
Signal-to-noise Ratio <sup>1</sup> .....	66 dB, 1 kHz at 1 Pa*
Dynamic Range (Typical) .....	106 dB, 1 kHz at Max SPL
Phantom Power Requirements .....	9-52V DC, 2 mA typical
<b>Weight</b>	
PRO 49Q .....	2.8 oz (80 grams)
PRO 49QL .....	3.0 oz (84 grams)
<b>Dimensions</b>	
PRO 49Q .....	13.07" (332.0 mm) long
PRO 49QL .....	16.46" (418.0 mm) long
Both .....	0.47" (12.0 mm) head diameter
	0.74" (18.9 mm) base diameter
Output Connector .....	Integral 3-pin XLRM-type
Accessory Furnished .....	AT8146 foam windscreen

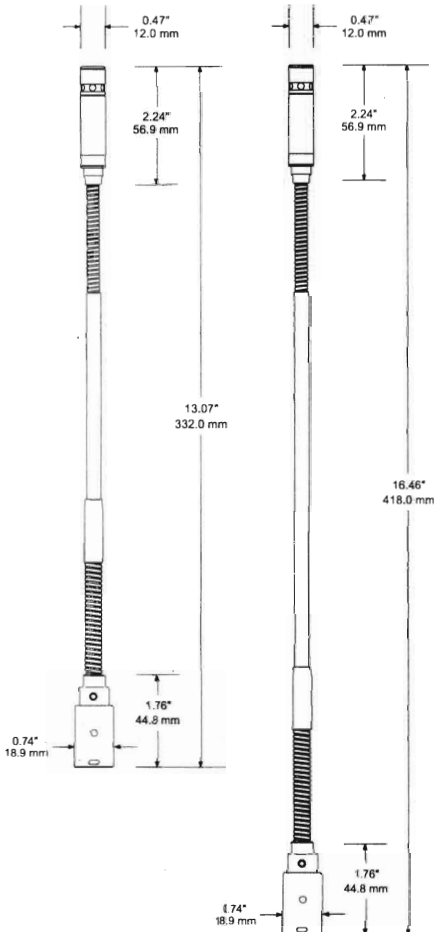
† In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

\* 1 Pascal = 10 dynes/cm<sup>2</sup> = 10 microbars = 94 dB SPL

<sup>1</sup> Typical, A-weighted, using Audio Precision System One

PRO 49Q Dimensions

PRO 49QL Dimensions



### Optional Accessories:

- AT8104a large metal windscreen.
- AT8117 large foam windscreen for high-wind conditions.
- CP8201 line matching transformer (Lo-Z to 50,000 ohms).
- AT8202 adjustable in-line attenuator for use with balanced Lo-Z microphones.
- AT8314 2-conductor, shielded, vinyl-jacketed, broadcast-type cable with XLRF-type connector at microphone end, XLRM-type connector at equipment end. Available in 10', 20', 25', 30', 50' & 100' lengths.
- AT8416 shock mount.
- CP8506 four-channel 48V phantom power supply (AC powered).
- AT8615 quick-mount plug-in microphone desk stand.
- AT8801 single-channel 48V phantom power supply (AC powered).

### One-Year Limited Warranty

Audio-Technica microphones and accessories purchased in the U.S.A. are warranted for one year from date of purchase by Audio-Technica U.S., Inc. (A.T.U.S.) to be free of defects in materials and workmanship. In event of such defect, product will be repaired promptly without charge or, at our option, replaced with a new product of equal or superior value if delivered to A.T.U.S. or an Authorized Service Center, prepaid, together with the sales slip or other proof of purchase date. **Prior approval from A.T.U.S. is required for return.** This warranty excludes defects due to normal wear, abuse, shipping damage, or failure to use product in accordance with instructions. This warranty is void in the event of unauthorized repair or modification.

**For return approval and shipping information,** contact the Service Department, Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224.

Except to the extent precluded by applicable state law, **A.T.U.S. will have no liability for any consequential, incidental, or special damages; any warranty of merchantability or fitness for particular purpose expires when this warranty expires.**

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.



**audio-technica.**

Audio-Technica U.S., Inc., 1221 Commerce Drive, Stow, Ohio 44224  
 Audio-Technica Limited, Old Lane, Leeds LS11 8AG England

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Outside the U.S.A., please contact your local dealer for warranty details.





EXPERIENCE MORE .. CONNECTION ..



Audio-Technica's upgraded 2000 Series wireless systems take care of you on stage. The setup is easy and the sound is clear, so you can focus all your energy where it belongs. Forget about its 10 compatible channels, two available frequency bands, Tone Lock™ squelch, true diversity operation, switchable antenna power & optional charger. And connect with your audience. Wherever your love for performance leads you, experience more.

 **audio-technica**  
always listening



## 2000 Series Frequency-agile True Diversity Wireless Systems

Audio-Technica's 2000 Series is a 10-channel frequency-agile UHF wireless system designed to suit a variety of applications, including live performance, fixed installation, public address, A/V rental houses and places of worship. It offers all the advantages of a high-quality, professional wireless system at an extremely affordable price. New professional features include two available frequency bands and switchable antenna power.

Offering 10 selectable channels in one of two UHF frequency ranges and True Diversity UHF wireless technology, the 2000 Series features automatic frequency scanning. At the touch of a button, this function automatically determines and sets the best available frequency. Any of the 2000 Series' 10 channels may be used together without any frequency coordination problems or group selection issues. The 2000 Series also incorporates Audio-Technica's digital Tone Lock™ squelch plus an easy-to-read LCD information display.

The new ATW-T210a UniPak® body-pack transmitter features a latching cover to protect the internal controls from being accidentally activated and a recessed 4-pin HRS-type locking input connector to increase the life of the microphone cable. Inputs are available on the transmitter for low impedance microphone, and high impedance musical instrument or line input.

The new ATW-T220a handheld transmitter uses a PRO 41 cardioid dynamic capsule to maintain sonic consistency with wired counterparts. Adjustable trim control helps match the microphone to the audio source and an ergonomically designed handle and end-mounted recessed controls help maintain a clean uncluttered appearance.

The ATW-CHG2 is a versatile two-bay recharging station that charges ATW-T220a handheld transmitters and/or ATW-T210a UniPak® transmitters in any combination. The station draws power from a standard wall outlet and charges batteries within the transmitters. Maintenance charging prevents battery self-discharge until transmitters are removed from charger.

### Features

- Clear sound quality and rock-solid, dependable performance
- Automatic frequency scanning
- 10 compatible user-switchable channels in one of two UHF frequency ranges: Band D – 656.125 to 678.500 MHz; Band I – 487.125 to 506.500 MHz
- Antenna power available for powered antennas & other in-line RF devices
- Charger available for ATW-T220a & ATW-T210a transmitter
- True Diversity operation selects the better signal from the two receiver sections, reducing dropouts
- Tone Lock™ tone squelch system fights interference
- Rugged metal half-rack receiver with soft-touch controls and LCD display
- Balanced XLR and unbalanced 1/4" output jacks enable use with a wide variety of audio gear
- Switchable transmitter power output with high and low settings offered
- Includes rack-mount kit and detachable UHF antennas
- Ground-lift switch helps eliminate audible hum caused by ground loops between the sound system and receiver



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### Individual Components



front



back

ATW-R2100a



ATW-T220a



ATW-T210a



ATW-CHG2  
(transmitters sold separately)

### System Configurations



ATW-2110a

includes: ATW-R2100a, ATW-T210a



ATW-2120a

includes: ATW-R2100a, ATW-T220a



ATW-2192a

includes: ATW-R2100a,  
ATW-T210a, BP892cW



ATW-2192a-TH

includes: ATW-R2100a,  
ATW-T210a, BP892cW-TH



ATW-2129a

includes: ATW-R2100a,  
ATW-T210a, AT829cW