



**Proposal**  
for  
**City of Manhattan Beach**  
for  
**RFP #965-14 Broadcast System**



SYSTEMS DESIGN • INTEGRATION • MOBILE SOLUTIONS

[www.tvprogear.com](http://www.tvprogear.com)

1.877.TVPROGEAR

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## INTRODUCTION

TV Pro Gear is pleased to present this proposal in response to your RFP to upgrade and expand the city of Manhattan Beach's video systems. We have taken great care to comply with all the requirements outlined in both the "Scope of Work" and the "Equipment Specifications" sections of your RFP.

TV Pro Gear has been building video production systems for over sixteen years. Our clients include NBC, AT&T, Comcast and ABC. In addition we have built systems for many governmental organizations including the City of Beverly Hills and LAUSD. Most recently, we designed and built the on-ship television and radio station for the USA Navy's newest aircraft carrier – the Gerald Ford. Our international experience includes building systems for Guatemala, Mexico, Egypt and Bulgaria to name a few.



Figure 1 TV Pro Gear's Technology Center in Los Angeles, CA

TV Pro Gear engineers work closely with your staff to insure that the system we build exceeds your expectations. TV Pro Gear's wiring technicians and engineers install all of the video, audio and transmission equipment. Only the highest quality wire and connectors are utilized. All wires get labels at both ends indicating source, destination and CAD reference number. Wires are dressed in and secured according to military and NASA specifications.

After the equipment is installed and wired, TV Pro Gear's engineers perform System Configuration on such items as the switcher, router, intercom, and camera base stations. Next,



Figure 2 TVPG Technology Center Master Control where new components are tested in a real-world environment before they are recommended for use in our client's systems. TVPG Technology Center insures that you will get a system that is reliable and easy to use without sacrificing quality.

TV Pro Gear Quality Assurance Engineers begin a lengthy testing procedure. Every input and output is repeatedly tested for continuity and signal quality. In addition, the QAE staff verifies that the "As Built" CAD drawings conform to reality. Finally, all equipment manuals are bound together along with a CD-ROM copy of the manuals.

TV Pro Gear systems are built by a group of perfectionists. We are not happy unless we exceed our customer's expectations.

## 1.0 Scope of Work

TV Pro Gear proposes to design, engineer and install a fully integrated system composed of the five key areas:

- 1.1 Council Chambers: Replace the standard definition robotic cameras in the council chambers with HD cameras manufactured by Panasonic. The new cameras have four times the resolution as the existing cameras. In addition, they require less than half as much light as the exiting cameras to get a proper exposure. A side benefit of this is that a larger area will be in focus. Lastly, the cameras come with a 20X Zoom lens as compared to the 13X Zoom lens on the existing cameras. This will allow the cameras to get in closer when appropriate. The camera model is AW-HE120
- 1.2 Joslyn Auditorium: Install four Panasonic AW-HE120 robotic HD cameras in the ceiling (left, right, center and back of stage (for audience shots). These four cameras shall be controlled from the MCR (Master Control Room) adjacent to the council chambers. The control of these cameras, the video from the cameras, and the mixed audio shall be multiplexed together and transmitted to the MCR via single-mode optical fiber cables installed by the CMB (City of Manhattan Beach).
- 1.3 Public Safety Facility Room: Install two Panasonic AW-HE120 robotic HD cameras in the ceiling in the center of the PSF (Public Safety Facility) so that they can shoot in either direction. These cameras shall be controlled from the MCR adjacent to the council chambers. The control of these cameras, the video from the cameras, and the mixed audio shall be multiplexed together and transmitted to the MCR via single-mode optical fiber cables installed by the CMB (City of Manhattan Beach).
- 1.4 Master Control Room: The MCR shall have the ability to simultaneously record and transmit the output from the CC, JA or PSF. Two of the three facilities can be recorded and/or transmitted simultaneously.
- 1.5 Mobile Studio (Flypack): Engineer, design and build a portable HD video production system equipped with three robotic cameras, a switcher, video recorder and Internet streaming encoder. The system shall be compatible with the other systems being built under this proposal.
- 1.6 Other Deliverables As part of this contract the System Integrator shall provide documentation in both hard copy and digital format. Upon completion, the System Integrator shall provide the following:
  1. A complete set of CAD drawings
  2. A complete set of equipment operational manuals
  3. Equipment layout elevations
  4. System(s) flow chart diagram(s)
  5. Programming codes as an open source (ability to edit)
  6. CDs for equipment software and installed drivers
  7. Warranties for all installed equipment
  8. A list of all equipment installed including make, model, description & serial #.
  9. Other related documentation as needed



### 3.0 Work Plan and Schedule

Should you choose TV Pro Gear to build your systems, we will create a project in Basecamp.com. Basecamp is an online project management and communications system. In it are posted every file, discussion and event relating to the CMB video project. CMB staff, TVPG staff and our equipment vendors will have constant access to this site. This way every party involved in the project has access to latest information and documentation revisions.

- Day 01 Contract award and receipt of deposit
- Day 10 Submit detailed CAD drawings, elevations and equipment list
- Day 14 Approval of CAD drawings and equipment list by CMB staff
- Day 15 Equipment ordered
- Day 25 TVPG receives equipment and commences pre-wiring at TVPG's facility
- Day 35 Decommission/remove obsolete equipment
- Day 37 Start installation and integration of equipment at CMB facilities
- Day 51 Complete installation and integration – begin testing procedures
- Day 53 Complete testing procedures
- Day 54 Start CMB staff training
- Day 59 Complete CMB staff training
- Day 60 CMB sign-off for project completion

Many of the systems will be pre-built at TV Pro Gear's Glendale, CA facility. Final assemble will, of course, occur at the City of Manhattan Beach's facilities. After we complete our detailed test of all the systems, we will begin your five days of training. Below is our suggested schedule:

- Day 1: System Overview. Setup Cameras, Use of Camera Remote Controls. Use of Router. Using the Intercom and IFB
- Day 2: Setting up and using the Switcher. Test and Signal Measurement Training
- Day 3: Setting up and use of the Title Generator
- Day 4: Setting up the Audio Mixer, Audio Signal Routing
- Day 5. Practice shoot

Of Course, TV Pro Gear technicians will be available 24/7 should your staff have an operational question or in the unlikely event of an equipment failure. Our Glendale TV Technology Center is less than an hour away from Manhattan Beach should a service call be necessary.

### 4.0 Quality Control and Assurance

All equipment specified is new from manufacturers who have been supplying the majority of international broadcasters for at least five years. Equipment specified is chosen by the following criteria in the following order:

1. Reliability
2. Quality/Performance
3. Features/Capabilities
4. Ease of Use
5. Price/Value

TV Pro Gear using only the highest quality cables and connectors from vendors such as Gepco, Belden, Neutrik and Kings. All wires are labeled at both ends indicating source, destination and CAD reference number. Cables are dressed into to rack using NASA and Mil-Spec standards.

**5.0 Experience, Management and Staffing Plan**

TV Pro Gear has sixteen years of system integration experience as outlined in the beginning of this proposal. Andrew Maisner, President of TV Pro Gear will be the senior project manager. Bernel Nery (8 years working with TV Pro Gear) will do the CAD drawing and perform system configuration. Gil Hernandez (22 years experience) will be the wiring and installation manager. Willie Cano (8 years experience) will function as the project coordinator.

**6.0 Insurance**

TV Pro Gear will provide to Manhattan Beach a certificate of insurance with a two million dollar liability limit

**7.0 Warranty**

All TV equipment comes with a 1-year warranty from the manufacturers. A second year of warranty is available as an option for 10% of the purchase price of the system. A third year of warranty is available for an additional 10% of the purchase price. This option can be exercised anytime before the first year of warranty expires. Of course, damage due to client abuse or acts of God are not be covered.

**8.0 Equal-Opportunity Employer**

TV Pro Gear is an equal opportunity employer. Any employee of TV Pro Gear that is found to be discriminating based on race, religion, creed or sexual preference shall be subject to immediate dismissal.

**9.0 Total Price and Payment Schedule**

The system cost is \$421, 788 for the equipment and \$67,846 for installation and training. The total price for the entire system is \$489,634 US Dollars.

- 30% upon signing of contract.
- 50% upon completion and acceptance of CAD drawings and elevations.
- 20% upon completion of installation and training.



## 10.0 List of Equipment

The following list of equipment is complete. However, during the process of design and integration, the CMB may have additional feature requests that require modifying the list. No change or modification shall be made without and written Change Order signed by both CMB and TVPG.

### 10.1 Audio/Video Control Room

| Qty | Manufacturer & Model            | Description   |
|-----|---------------------------------|---|
| 1   | TVPG Custom Console             | 4 Racks Wide (see attached drawing)                   |
| 1   | Middle Atlantic MRK36           | Equipment Rack 40RU with temp controlled fans         |
| 2   | Panasonic AW-RP50               | PTZ Robotic Camera Controllers                        |
| 2   | For-A HVS-XT110                 | HD-SDI Switcher with 12 Inputs, 6 Outputs             |
| 1   | Chyron Micro X                  | Single Channel Title/Graphics Generator with Lyric    |
| 1   | AJA Ki Pro Rack                 | HD Digital Disc Recorder                              |
| 1   | Black Magic Compact Videohub    | 40X40 HD/SD-SDI Video Router                          |
| 1   | Black Magic Videohub Master Ctl | Control Panel for router (40 programmable buttons)    |
| 2   | Black Magic Open Gear Frame     | Card Frame with Power Supply                          |
| 1   | Black Magic OpenGear Converter  | Sync Generator (10 outputs)                           |
| 1   | Black Magic OpenGear Converter  | Audio to SDI (embedder)                               |
| 3   | Black Magic OpenGear Converter  | SDI to Audio (de-embedder)                            |
| 1   | Black Magic OpenGear Converter  | HDMI to SDI   |
| 1   | Black Magic OpenGear Converter  | SDI to HDMI   |
| 12  | Black Magic OpenGear Converter  | Optical Fiber (SDI to Fiber or Fiber to SDI)          |
| 1   | Cobalt Digital OpenGear 9231    | Analog Video Dist Amp (for Genlock/Reference)         |
| 1   | Cobalt Digital OpenGear 9232    | Analog Audio Distribution Amp (for Mixer Out L and R) |
| 1   | Black Magic Designs Teranex     | HD-SDI to SD-SDI Up/Down/Cross converter              |
| 1   | Pesa/Harris/Ross                | 64X64 Analog Audio Router                             |
| 1   | Leader LV 7330                  | HD/SD-SDI Signal Rasterizer with Rack Kit             |
| 1   | ESE ES-488                      | Timecode Generator/Inserter/Reader                    |
| 1   | Behringer X32 Compact           | 40-input, 25-bus digital mixing console.              |
| 2   | Marshall AR-AM4-B               | 4 Stereo Channel Audio Amp with LED Meters            |
| 2   | Genelec 8020                    | Bi-Amplified Near Field Speakers                      |
| 1   | Telos Hx2 Digital Hybrid        | 2-Line Telephone Interface                            |
| 2   | Panasonic TH-42PF30U            | 42" 1080P Plasma Display                              |
| 4   | Marshall V-R171X-DLW            | 17" LCD Monitor with SDI and DVI Inputs               |
| 2   | Black Magic Mini Converter      | SDI to HDMI Converter for Plasma Display              |
| 1   | Clearcom MS-702                 | 2-Channel Headset/Speaker Main Station                |
| 1   | Clearcom RM-702                 | 2-Channel Headset/Speaker Remote Station              |
| 3   | Clearcom RS-601                 | single channel wired beltpack                         |
| 5   | Clearcom CC-26K                 | single open ear, lightweight headset                  |
| 2   | Middle Atlantic 2200R           | 1650W Uninterruptable Power Supply/Battery Backup     |
| 4   | Middle Atlantic PD-720          | PD-720 AC Rack Mounted Power Panel                    |

### 10.2 Council Chambers

| Qt | Manufacturer & Model | Description                               |
|----|----------------------|---|
| 4  | Panasonic AW-HE120   | HD Robotic PTZ Cameras with 18X Zoom Lens |
| 4  | Belden RG59          | SDI Video Cables                          |
| 4  | Belden Cat-5         | Ethernet Remote Control Cables            |

### 10.3 Joslyn Auditorium

| Qty | Manufacturer & Model           | Description                                  |
|-----|--------------------------------|--|
| 4   | Panasonic AW-HE120             | HD Robotic PTZ Cameras with 18X Zoom Lens    |
| 4   | Belden RG59                    | SDI Video Cables                             |
| 4   | Belden Cat-5                   | Ethernet Remote Control Cables               |
| 2   | Black Magic Open Gear Frame    | Card Frame with Power Supply                 |
| 6   | Black Magic OpenGear Converter | Optical Fiber (SDI to Fiber or Fiber to SDI) |
| 2   | Black Magic OpenGear Converter | HDMI to SDI Converters                       |
| 1   | Black Magic OpenGear Converter | Audio to SDI (embedder)                      |
| 1   | Williams Sound TGS-Pro-737     | Hearing Impaired 8-receivers & Transmitters  |
| 6   | Shure Headworn Microphones     | Headset microphones                          |

### 10.4 Public Safety Facility Room

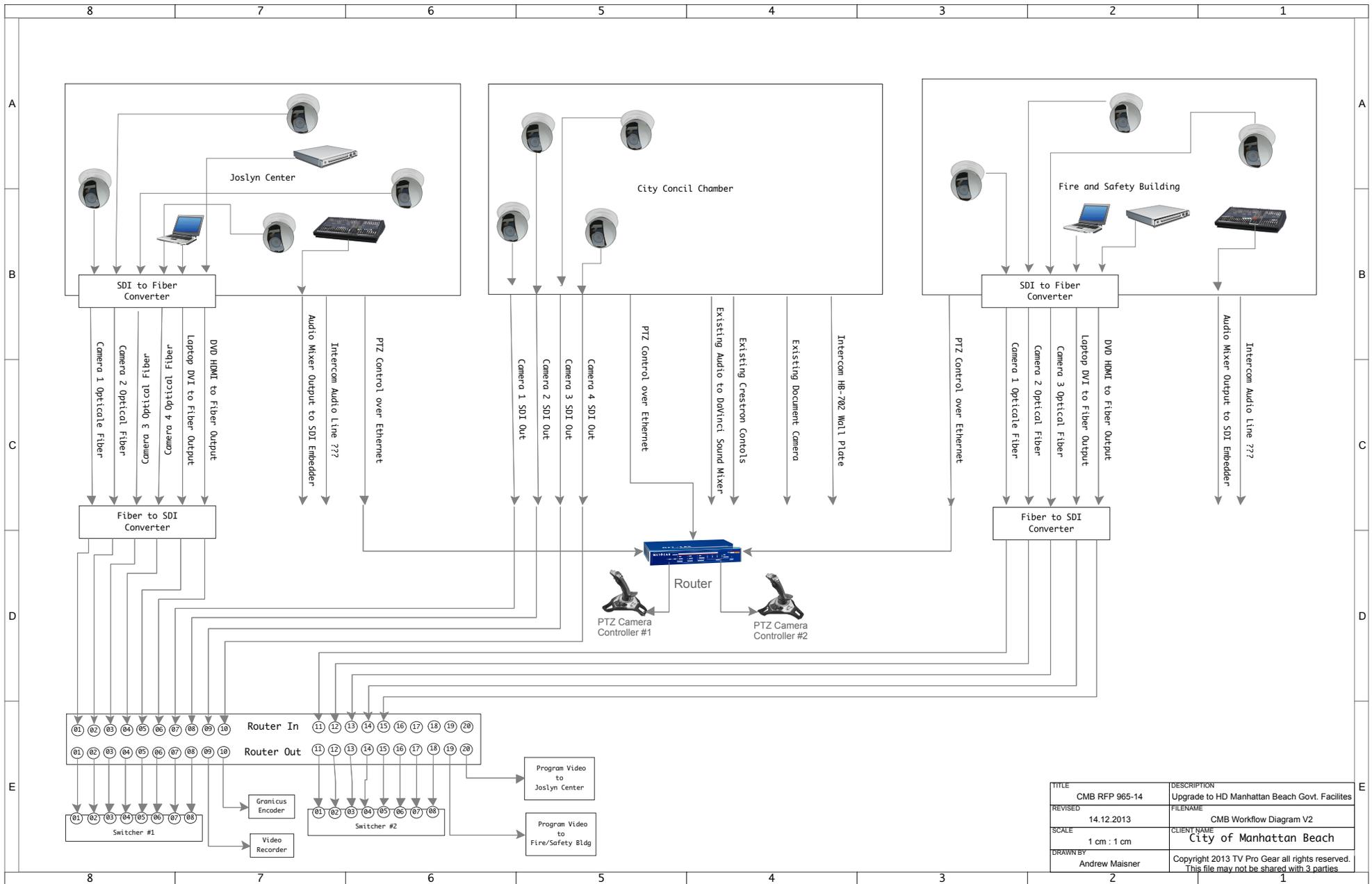
| Qty | Manufacturer & Model           | Description                                  |
|-----|--------------------------------|--|
| 2   | Panasonic AW-HE120             | HD Robotic PTZ Cameras with 18X Zoom Lens    |
| 3   | Belden RG59                    | SDI Video Cables                             |
| 3   | Belden Cat-5                   | Ethernet Remote Control Cables               |
| 2   | Black Magic Open Gear Frame    | Card Frame with Power Supply                 |
| 5   | Black Magic OpenGear Converter | Optical Fiber (SDI to Fiber or Fiber to SDI) |
| 2   | Black Magic OpenGear Converter | HDMI to SDI Converters                       |
| 1   | Black Magic OpenGear Converter | Audio to SDI (embedder)                      |
| 4   | Shure SLX                      | Wireless Microphone Kit + 1 more headset     |
| 1   | Williams Sound TGS-Pro-737     | Hearing Impaired 8-receivers & Xmitter       |
| 2   | Panasonic                      | Blu-Rey DVD Players                          |
| 2   | Shure STM88                    | Hand held wireless microphones               |

### 10.5 Mobile Studio/Flypack

| Qty | Manufacturer & Model         | Description   |
|-----|------------------------------|---|
| 1   | TVPG Flypak 2 Rack Wide Case | Jig welded shock mount case with electric monitor lift<br>Holds Cameras, Tripods, Cables, Headsets, |
| 1   | TVPG Accessory Case Large    | Microphones   |
| 1   | Flypkak™ to Camera Cable     | 300'/camera RG6 Cable   |
| 4   | Panasonic AW-HE120           | Robotic Camera with 20X Zoom Lens   |
| 1   | Panasonic AW-RP50            | Robotic Camera Controller   |
| 1   | Sony VCT-14                  | Tripod Adaptor Plate  |
| 3   | Libec RX5M                   | Tripod, head, mid-level spreader & bag  |
| 1   | Libec LX10M                  | Tripod, head, mid-level spreader & bag  |



|   |                                 |  |
|---|---------------------------------|--|
| 1 | For-A HVS-XT110                 | HD-SDI Switcher with 12 Inputs, 6 Outputs                |
| 2 | AJA Ki Pro Rack                 | HD Digital Disc Recorder                                 |
| 1 | Black Magic Compact Videohub    | 40X40 HD/SD-SDI Video Router                             |
| 1 | Black Magic Videohub Master Ctl | Control Panel for router (40 programmable buttons)       |
| 1 | Black Magic Open Gear Frame     | Card Frame with Power Supply                             |
| 1 | Black Magic OpenGear Converttr  | Audio to SDI (embedder)                                  |
| 1 | Black Magic OpenGear Converttr  | SDI to Audio (de-embedder)                               |
| 1 | Black Magic OpenGear Converttr  | HDMI to SDI  |
| 1 | Black Magic OpenGear Converttr  | SDI to HDMI  |
| 1 | Black Magic OpenGear Converttr  | Optical Fiber (SDI to Fiber or Fiber to SDI)             |
| 1 | Cobalt Digital OpenGear 9232    | Analog Audio Distribution Amp (for Mixer Out L and R)    |
| 1 | Black Magic Designs Teranex     | HD-SDI to SD-SDI Up/Down/Cross converter                 |
| 1 | Bittree Audio Patch Panels      | 48X2 TT-Bantem Patch Panels with 6 Patch Cords           |
| 1 | Leader LV 7330                  | HD/SD-SDI Signal Rasterizer with Rack Kit                |
| 1 | Middle Atlantic 2200R           | 1650W Uninterruptable Power Supply/Battery Backup        |
| 2 | Middle Atlantic PD-720          | PD-720 AC Rack Mounted Power Panel                       |
| 1 | Mackie 1604VLZ3 Pro             | 16-Input Audio Mixer with Roto-Rack Mounting Kit         |
| 4 | Sennheiser ew 512-ENG G3        | Wireless Transmitter, Receiver, Lav Mic, Butt Plug       |
|   |                                 | Active Splitter Kit for 4-Receiver Remote Antenna System |
| 1 | Sennheiser G3DIRKIT4            | Handheld Wireless Microphone - Super Cardioid            |
| 1 | Sennheiser SKM-100-845G3A       | Handheld Wireless Microphone - Dynamic                   |
| 1 | Sennheiser SKM 100-835G3A       | Professional Stereo Headphone Set                        |
| 1 | Sennheiser HD280                | XLR Cables in the following lengths 5, 10, 25, 50, 100   |
| 1 | TVPG XLR Audio Cable Kit        | BNC Cables in the following lengths 10, 25, 50, 100, 150 |
| 1 | TVPG BNC Video Cable Kit        | 8-Input, 4 Output StageBox with 150' foot cable          |
| 1 | Whirlwind StageBox and Cable    | 4 Stereo Channel Audio Amp with LED Meters               |
| 1 | Marshall AR-AM4-B               | Antenna stands with two 150' RG58 Cables                 |
| 1 | TVPG Stands & RG58              | 42" 1080P Plasma Display                                 |
| 1 | Panasonic TH-42PF30U            | 17" Pull-Out Monitor with Trackpad and KVM               |
| 1 | Synergy                         | SDI to HDMI Converter for Plasma Display                 |
| 1 | Black Magic Mini Converter      | 2-Channel Headset/Speaker Main Station                   |
| 1 | Clearcom MS-702                 | 2-Channel Headset/Speaker Remote Station                 |
| 1 | Clearcom RM-702                 | single channel wired beltpack                            |
| 3 | Clearcom RS-601                 | single open ear, lightweight headset                     |
| 5 | Clearcom CC-26K                 | IFB Control Panel with Microphone Jack                   |
| 1 | Clearcom MA704                  | IFB Central Controller Handles up to 4 Talent Receivers  |
| 1 | Clearcom PIC-4704               | Monaural IFBTalent Receiver                              |
| 2 | Clearcom TR50                   | IFB Earpiece   |
| 2 | Clearcom CES-3                  | 6-Pin Cable  |
| 1 | Clearcom IC-25-6                |  |



| TITLE                   | DESCRIPTION  |
|-------------------------|--|
| CMB RFP 965-14          | Upgrade to HD Manhattan Beach Govt. Facilities   |
| REVISED 14.12.2013      | FILENAME   |
| SCALE 1 cm : 1 cm       | CLIENT NAME  |
| DRAWN BY Andrew Maisner | City of Manhattan Beach  |
|                         | Copyright 2013 TV Pro Gear all rights reserved. This file may not be shared with 3 parties |



## **SUMMARY**

The system we have proposed is state-of-the-art. In addition, the components have been chosen for reliability and ease of use. It will be built in a way that is easy to expand or upgrade as future needs appear.

It should be noted that the primary components (cameras, switchers, recorders, router) are consistent across the entire system. In other words, if you know how to work one section, you will know how to work all sections.

The system is designed so that two entirely different events can be recorded simultaneously.

The Flypack can be used to shoot, record and stream events away from city hall. It can also be used to augment coverage at any of the city hall venues should the need arise.

Should you have any questions, please feel free to call Andrew Maisner at (818) 246-7100 or his cell at (818) 633-3621. Email to [andy@tvprogear.com](mailto:andy@tvprogear.com).

We hope you will choose TV Pro Gear to build you new systems. My staff and I promise you that we will do all in our power to make sure that you get a system the exceeds your expectations. We look forward to hearing from you.

Sincerely yours,

*Andrew Maisner*

Andrew Maisner  
President

# about TV Pro Gear



SYSTEMS DESIGN • INTEGRATION • MOBILE SOLUTIONS

[www.tvprogear.com](http://www.tvprogear.com)

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# Who is TV Pro Gear

TV Pro Gear, Inc. is a leading international systems integrator and mobile solutions provider to the television and entertainment industries.

TV Pro Gear has established itself as a premier provider working with major studios, networks, independent producers, and other broadcast facilities to design and implement SD and HD solutions. TV Pro Gear specializes in workflow design, project engineering, and the final integration of primary systems.



# Services

We Provide

Our service offerings are extensive and cover all facets of the broadcast industry. From a simple editing suite to a complete multi-location integrated broadcast facility, TV Pro Gear provides integration services for independent producers to multi-national broadcasters and movie houses. The following three distinct areas represent the majority of our projects and areas of expertise:

## ■ SYSTEMS DESIGN

- Pre Planning & Workflow
- Engineering
- Facilities Consultation
- Regulatory Issues
- Legislative Issues
- Formats Conversion & Consideration
- Content Delivery Planning
- Future Expansion Planning
- Asset Management

## ■ INTEGRATION

- Production Studios
- Post Production Facilities
- Facilities Moves & Upgrades
- Editing Suites & Shared Storage Solutions

## ■ MOBILE SOLUTIONS

- FLYPAK™ Mobile Studios
- Production Trucks
- NewsCaster SNG Solution
- Mobile Command Centers

## ■ SALES

- All Leading Manufacturers
- Extensive Inventory of Decommissioned Equip.

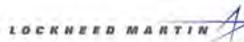
## ■ LIQUIDATION

- Decommissioning
- Resale
- Auctions
- Asset Planning & Valuation



# Our Clients

Following is a partial list of clients we have served and continue to serve



**A Partial listing**

- DGFast
- Jewish Life TV
- Laser Pacific
- Actual Reality
- Watermark
- Natural VIP
- HDMS
- GO TV
- Framingham State College
- Viejas Entertainment & Productions
- and many more

# Manufacturers

## We Represent

(Partial List)

SONY



Canon

GV grass valley



Panasonic

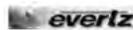


HITACHI  
Inspire the Next

LEADER



FUJINON



JVC  
PROFESSIONAL

Marshall  
Electronics

SNELL & WILCOX



# 5 Phase

## Project Management Process

Complex projects require an added dimension of organization to make sure they are implemented successfully. TV Pro Gear utilizes a Five Phase Project Process to insure the timely delivery of various integration projects.

### **Phase 1: Design and Preliminary Engineering**

Design and Preliminary Engineering will allow us to evaluate and generate your Scope of Work, Create Rack Elevations, and video / audio work flow diagrams. Phase I will allow us to determine a preliminary Bill Of Materials, Design Engineering, and Integration cost. The Phase I fee includes the deliverables as defined below for the designing the HD/SD production trucks and facilities.

### **Phase 2: Engineering**

Phase 2 includes Facilities and space planning, detailed Video and Audio CAD Drawings, Patch Layouts, Wire Runs, and electrical layout. These detailed plans will accommodate future expansion or changing technology and allow for systematic troubleshooting. The engineering design will also cover equipment layout, access panels, and power distribution. The Design fee will be applied to the overall engineering cost. Engineering Price: This will be determined in final engineering and included in the final proposal.

### **Phase 3: Equipment Acquisition**

Equipment will be purchased, received, tested and staged pending the start of Phase 4. Equipment Acquisition costs will be determined in final engineering and included as a Bill Of Materials in the final proposal.

### **Phase 4: Integration & Installation**

The system integration will entail rack integration, cable installation, equipment delivery, installation, equipment testing, trouble shooting, shake out, and "As Built" Documentation. Integration Price: This will be determined in final engineering and included in the final proposal.

### **Phase 5: Training and Support**

All operators will receive training with regard to workflow and equipment operation.



# Customer Collaboration Center

**COMMUNICATION** is a vital part of the integration process. With many projects requiring hundreds of pieces of equipment and thousands of small jobs, it is easy for something to go unnoticed and slip through the cracks. The only way to prevent this from occurring is to ensure that both the client and the integrator maintain constant contact with regards to every step of creating their project.

TV Pro Gear has developed an exceptional way for our clients to keep completely up-to-date as their project progresses and have the ability to interact with our Integration Team. Our brand new **Customer Collaboration Center (CCC)** allows our clients to be involved as we complete each step of their project. CCC helps to streamline and improve our change order and customer approval process. This service is incredibly simple to use and absolutely free! All you need is a computer with internet access and you're set to log on and view the status of your project.

You'll only find this level of access and client interaction at TV Pro Gear. We strive to treat the customer as a member of our Integration Team and the CCC makes certain you're with us every step of the way.

## FEATURES:

### MESSAGE BOARD:

An inevitable companion to any large project is a virtual avalanche of e-mails. These usually contain important information, questions and suggestions. Unfortunately, within these hundreds of e-mails it is very easy for an important piece of information to go missing or be completely ignored altogether.

TV Pro Gear's Customer Collaboration Center does away with all the confusion. Our message board houses all the relevant information relating to your project in one place, creating threads to keep each message organized into the appropriate category. Never again will you need to worry about your crucial suggestion being buried in the e-mail avalanche. TV Pro Gear's message board ensures that each concern is seen and addressed.

### TO DO:

We all know that any project is really just a series of hundreds of smaller projects. While most of these tasks are the responsibility of the TV Pro Gear Integration team, there are assignments for the client as well. The CCC's To Do List allows users to see what needs to be done and who is responsible for taking care of each project. This feature lets every involved party see who is doing what and who needs to do what.

### DOCUMENTS:

Sharing information is vital to the success of any project. Equipment Lists, Engineering Documents, CAD Drawings and various other documents need to be viewed by our customers to make sure the project can come to a quick and correct completion. The Customer Collaboration Center allows for seamless sharing of documents between TV Pro Gear's Integration Team and its clients. As soon as documents are completed, we'll upload them to the CCC allowing customers to view them seconds later. Our Documents section also includes detailed Gantt Charts. These will allow you to see how far along we are in each phase of your project.

### CALENDAR:

You won't even need to log in to the Customer Collaboration Center to stay abreast of our project. The Interactive Calendar can be synced with your personal calendar to automatically show the updates posted in the CCC. The Customer Collaboration Center is just another of the many lengths to which TV Pro Gear goes to ensure our customers get exactly what they want exactly when they need it. We invite you to explore all the options available with the CCC by clicking the tabs above, and to learn more about all the exciting solutions TV Pro Gear has to offer.

# Collateral Materials

The following few pages contain collateral materials  
for various TV Pro Gear products and services

# CONTROL ROOMS • BULLPENS • NEWSROOMS



Systems Design • Integration • Mobile Solutions  
[www.tvprogear.com](http://www.tvprogear.com) • 877.887.7643

**FLYPAK™**



**OB Van**  
**BY**

**TV Pro Gear**



**SPRINTER**

 **MADE IN USA**



**FLYPAK™**

## Broadcast Studio In-a-Box

TV Pro Gear Flypaks™ contain everything needed to shoot World Class HD productions. Customers can buy just the Flypak™ or they can buy both the Flypak™ and the customized Mercedes Sprinter.

They are built to be easy to use and easy to maintain without compromising quality. That's why companies such as NBC, AT&T, Time Warner, AOL and the US Navy rely on TV Pro Gear systems.

TV Pro Gear Flypaks™ are in use in the United States, Europe, the Middle East and South America. A worldwide dealer network is there for support should you need it.

- **Fast Setup**
- **Reliable**
- **Flexible**
- **Portable**

**FAST SETUP:** Because all the electronics are housed inside the Flypak™, setup time is less than fifteen minutes.

**RELIABILITY:** Competitors' fly-away systems use multiple cases to house the equipment. Once on location, these have to be strung together with multiple video, audio and control cables. Inevitably, these cables get lost or broken. TV Pro Gear's Flypaks™ single box design with shock mounted steel frame eliminates this problem while protecting the equipment while in transit.

**FLEXIBILITY:** The up/down/cross converter and the 40 X 40 HD-SDI router enable the user to reconfigure the system to accommodate changing requirements.

The access panel on the side of the Flypak™ has sixty connectors for video, audio, DVI, HDMI and Fiber. Input or output any kind of device via the access panel in seconds.

Switchable from 110V to 230V. The battery backup system will enable you to continue shooting for up to an hour.

**PORTABILITY:** The Flypak™ and Accessory case can be removed from the Sprinter and shipped by plane, train or truck. The cases are small enough to fit into elevators, hallways and tight spaces.



# SPRINTER



The Flypak™ is available with an optional Mercedes Sprinter. TV Pro Gear buys its Sprinters directly from the Mercedes factory in Germany. They are ordered to conform to the specifications for the intended country.

The Sprinter houses the Flypak™. With the Flypak™ inserted into the Sprinter you can seat seven people – typically a director, a technical director, an engineer, a graphics operator, an instant replay, a sound man and a producer.

Want to be closer to the “action”? The Flypak™ can be removed from the Sprinter in less than five minutes and wheeled into the venue.

The Sprinter/Flypak™ is powered by two standard AC extension cords. One is for the Air-conditioner. The other powers all of the video equipment. So you don't need an electrician to tie into a fuse box. An optional generator is available.

An optional VSAT or Ku-Band Satellite uplink is also available.



## FLYPAK™/Sprinter Features

### Works with 3 to 10 cameras

You choose the number and brand. Robotic cameras are available

### All recording formats supported

Simple menu selection allows the user to shoot /record in 720p, 1080i, 1080p

### Switcher with Multiviewer

8 to 24 inputs. Brand of your choice

### Six Channels of instant replay

4 record/2 playback simultaneously

### High Quality Title/Graphics Generator

One or two channels from Chyron or Ross

### Digital Mixer & Wireless Microphones

Up to 40-inputs. Up to 8 wireless microphones

### H.264 MPEG-4 Internet Encoder

Stream live in HD with variable bit-rate

### Multi-Channel Intercom with IFB

4-Chanel wireless optional

### Up/Down/Cross Converter

Input or output in all formats in common use worldwide





## CUSTOMIZE YOUR FLYPAK™

**CAMERAS:** Panasonic, Sony, Ikegami, Hitachi, JVC

**LENSES:** Fujinon, Canon, Angenieux, Zeiss

**SWITCHER:** Sony, Panasonic, Ross, For-A, Tricaster

**RECORDERS:** Sony, Panasonic, AJA, Black Magic

**INSTANT REPLAY:** Newtek 3Play, GVG, EVS

**TITLE GENERATOR/GRAPHICS:** Chyron, Ross, Harris

**INTERNET ENCODER:** Viewcast, Digital Rapids

**AUDIO MIXER:** Yamaha, Midas, Mackie

**MICROPHONES:** Sennheiser, Sony, Lectrosonics

**SIGNAL DISTRIBUTION:** Black Magic, Ross

**TEST AND MEASUREMENT:** Tektronix, Leader

**INTERCOM:** Clearcom, RTS/Telex, Riedel

### List of Clients



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