

## PORTABLE MEDIA DISTRIBUTION SYSTEM

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A Portable Media Distribution System (PMDS) allows missionaries and humanitarian aid workers to carry large volumes of media in a small form factor – small and light enough to carry in a suitcase or backpack, on a motorcycle, bicycle, or on foot. Up to 32 GB of media (videos, movies, PowerPoint, books, teaching materials) can be uploaded to the projector via USB cables or mini SD card and projected on a screen or wall. New materials are easily added. In regions without electricity, generators, or DC power, a rugged solar battery powers the projector for up to 12 hours. Materials can be printed (Expanded System) in areas with electricity. The system is simple to set up and use. Tech support is available from volunteers at <http://3031tech.forumotion.com>. Due to the low price point, financial partners can experience the satisfaction of providing a complete media center and teaching station at a cost of less than \$450.00 (Basic) or \$1,500.00 (Expanded with printer option).

### OBJECTIVES:

- Portable and light weight
- Robust and suitable for use in a variety of environments
- Capable of efficiently performing a variety of tasks including projecting video or PowerPoint and printing papers
- Simple for volunteers to learn
- Able to run on alternative power supplies
- Inexpensive

Following are two systems to meet different needs. Please see page two for specifications, recommendations, prices, and vendor information.

### BASIC SYSTEM

Runs on solar power. No printing capability. Use laptop or PC to create and upload media. In the field, media is accessed via mini SD card in projector.

APPROXIMATE WEIGHT/ SIZE: 2 lbs., .37 cubic feet, 64.4 cubic inches

### EXPANDED SYSTEM (INCLUDES PRINTING, iPad)

Includes printing capability and can be used with iPad. Electricity must be available for the printer and WiFi/cellular must be available for the iPad. See “Alternate projector” for a non-solar option with a brighter image.

APPROXIMATE WEIGHT/ SIZE: 3.25 lbs., .048 Ft. (82 cubic inches)

### OPTIONAL ACCESSORIES

**Battery:** Spare battery for Optima Projector. Optima B-PK3ALIS (\$35.00 at Walmart.com)

**Screen:** 50” table-top screen. Epson ES1000 (\$80.00 at Amazon.com)

**Backpack:** Anti-theft backpack is comfortable and light to wear, but reinforced with material that can’t be cut through to protect gear inside. Cinches closed with a bike-lock style cable and can be locked to a sturdy architectural feature or small tree trunk. PacSafe Venturesafe 20L. (\$99.99 at Pacsafe.com)

## BASIC SYSTEM

Runs on solar or A/C power. No printing capability. Uses laptop or PC to create and upload media. In the field, media is accessed via mini SD card in projector.

EQUIPMENT	PURPOSE	SPECIFICATIONS	RECOMMENDATION	COST
Projector	Project video, stills, and PPT in darkened area for diagonal image of 50" (ideal) to 70" max.	20 ANSI Lumens. 60 minute battery. Charges via JOOS solar battery, USB, or A/C.	Optima PK201 <sup>3</sup>	235.00
Speakers	Provide audio for small group.	0.5 watt output on projector. Additional speakers recommended.	Music Bullet speaker <sup>6</sup> (charged by USB or solar)	15.00
Solar battery	Charge equipment in areas without electricity		Solar Joos Orange <sup>4</sup>	155.00
Remote Control	Operate projector remotely.	Battery operated.	Optima BR-PK3AN <sup>3</sup>	18.00
Optional Tripod	Small tripod is recommended.	Requires ¼" threaded stud.	JOBY Gorillapod <sup>5</sup>	18.00
			<b>TOTAL COST</b>	<b>\$441.00</b>

## EXPANDED SYSTEM (INCLUDES PRINTING, iPad)

Includes printing capability and can be used with iPad. Electricity must be available for the printer and WiFi/cellular must be available for the iPad.

EQUIPMENT	PURPOSE	SPECIFICATIONS	RECOMMENDATION	COST
Tablet	Portable presenter	64 GB WiFi/Cellular. SIM card.	iPad Gen 3 (32GB) @ \$668 (iPad 2 or refurbished for ~\$557) <sup>2</sup>	\$ 668.00
Projector	Project video, stills, and PPT in darkened area for diagonal image of 50" (ideal) to 70" max.	20 ANSI Lumens. 60 minute battery. Charges via solar battery, USB, or A/C.	Optima PK201 <sup>3</sup>	235.00
Remote Control	Operate projector remotely.	Battery operated.	Optima BR-PK3AN <sup>3</sup>	18.00
Optional Tripod	Small tripod is recommended.	Requires ¼" threaded stud.	JOBY Gorillapod <sup>5</sup>	18.00
Speakers	Provide audio for small group.	0.5 watt output on projector. Additional speakers recommended.	Music Bullet speaker (charged by USB or solar)	15.00
Printer	AIO Color Printer <sup>1</sup>	WiFi (AirPrint) for iPad. <b>The printer cannot be charged via solar battery.</b>	Canon Pixma MG6220 <sup>2</sup>	114.00
Solar battery	Charge equipment in areas without electricity	Durable, waterproof, fast-charging, cables and adaptors included. Can also charge via USB connection.	Solar Joos Orange <sup>4</sup>	155.00
			<b>TOTAL COST</b>	<b>\$1,223.00</b>
Alternate Projector	Screen size of 57" (ideal) up to 80" max. <b>Cannot be charged via solar, but is preferred option when A/C is available.</b>	80 ANSI Lumens. 75min battery. Tripod included. Remote control included.	AAXA Tech P4 <sup>3</sup>	295.00

<sup>1</sup> Printer for iPad is currently available for use only in areas with WiFi.

VENDORS: <sup>2</sup> Google.com <sup>3</sup> bhphotovideo.com <sup>4</sup> Amazon.com <sup>5</sup> Adorama.com <sup>6</sup> Target.com