

The logo for Radio Engineering Industries (REI) features the letters "REI" in a bold, blue, sans-serif font. The letters are set against a white background with a subtle blue glow or shadow effect behind them.

OPERATOR'S MANUAL



REI MP-1000 MULTIMEDIA PLAYER

Radio Engineering Industries, Inc.
6534 L Street
Omaha, Nebraska 68117
(402) 339-2200

REI MP-1000 MULTIMEDIA PLAYER

Precautions

- Do not expose the Multimedia Player to excessive heat or cold. The storage temperature of this device is $-40\sim+85^{\circ}\text{C}$, and the operating temperature is $-20\sim+80^{\circ}\text{C}$ with a max humidity of 90%
- Never use this device in environments with excessive moisture, dust or smoke.
- Avoid dropping or striking this device.
- Never puncture, scratch or use abrasive cleaning materials on this device.
- Do not place cables where they may be pinched or tampered with.
- The Multimedia Player is not designed to be waterproof and will be damaged if any liquid is spilled or dropped on the player.
- The Multimedia Player is designed to be powered by either a +12V or +24V switched DC negative ground system. Do not attempt to use it in any other system. Doing so could cause serious damage.
- This unit is made of precision electronic components that are present within the Multimedia Player. Do not attempt to disassemble or repair any parts. For repair please consult the manufacturer.
- Your product is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner or other solvent.

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Introduction

Thank you for purchasing the MP-1000 Multimedia Player by Radio Engineering Industries, Inc. This manual is intended to provide the user with the information required for proper installation and operation. If you have any questions or need assistance, please call the:

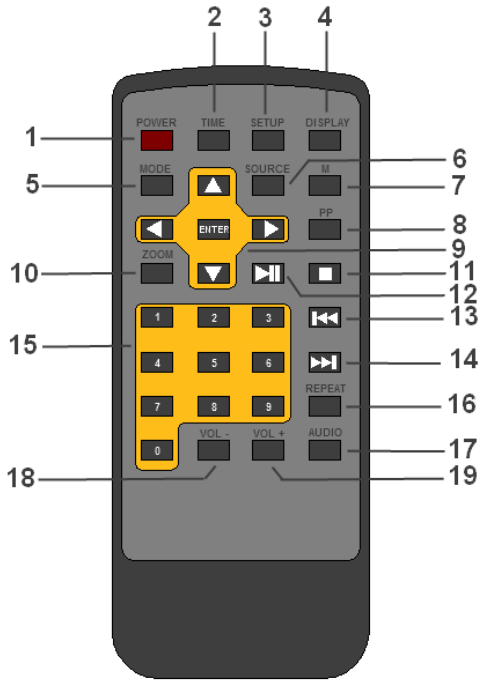
SERVICE HOT LINE
1-877-726-4617 Toll Free USA & CANADA
1-800-228-9275 USA
1-402-339-2200

Features

- Compact size.
- Wide voltage operating range (9-32 Volts).
- Low power consumption.
- Auxiliary composite input with priority message override.
- Priority message logging.
- Administrator password.
- Supports most common media files.
- Scheduled timer settings.
- Scrolling text function.
- External high and low outputs (when priority message is playing) for triggering external devices.
- Supports dual storage devices with multi-way file copy.
- Supports photo slideshow with background music.
- Excellent operating temperature range.
- Light weight.
- Made of durable materials.

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Remote Control



1) **POWER** – Turns the Multimedia Player on and off (Multimedia Player will automatically power up when voltage is applied).

2) **TIME** – Allows for Music & Photo files to be played together; to use, select desired photo file, once displayed press the “TIME” button, music will then begin to play with the slideshow (Note: Photos and music must be in the same directory for this function to work).

3) **SETUP** – Used to access content setup options.

4) **DISPLAY** – Used to change displays resolution (480P, 480I and 720P).

5) **MODE** – Used to adjust unit’s brightness, contrast, and color controls.

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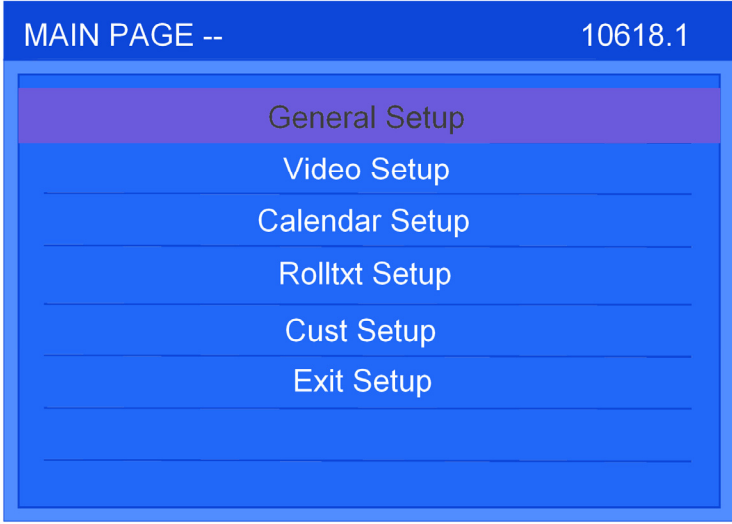
Remote Control (continued)

- 6) **Source** – Used to select between USB and SD Card.
- 7) **M** – Can be used to view media properties or to rename the media file name.
- 8) **PP** – Used to copy file from one device to another, when two media devices are present. To use: press setup to access the media file, select the source using the “SOURCE” button on the remote, navigate to the desired file, press “PP” on the remote and select the destination when prompted.
- 9) **▲, ▼, ◀, ▶ and ENTER** – Used for navigating and selecting media files.
- 10) **ZOOM** – Not used.
- 11) **■** – Used to stop a media file being played.
- 12) **▶ ||** – Used to begin or pause media file playback.
- 13) **||◀◀** – Used to select previous media file.
- 14) **▶▶ ||** – Used to select next media file.
- 15) **0, 1~9** – Used to jump to a specific file in the media list, such as pressing 5 will jump to the 5th file in the media list.
- 16) **REPEAT** – Not used.
- 17) **AUDIO** – Not used.
- 18) **VOL-** Used to decrease the unit’s volume.
- 19) **VOL+** Used to increase the unit’s volume.

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Multimedia Player Menu Adjustments

Main Page



General Setup

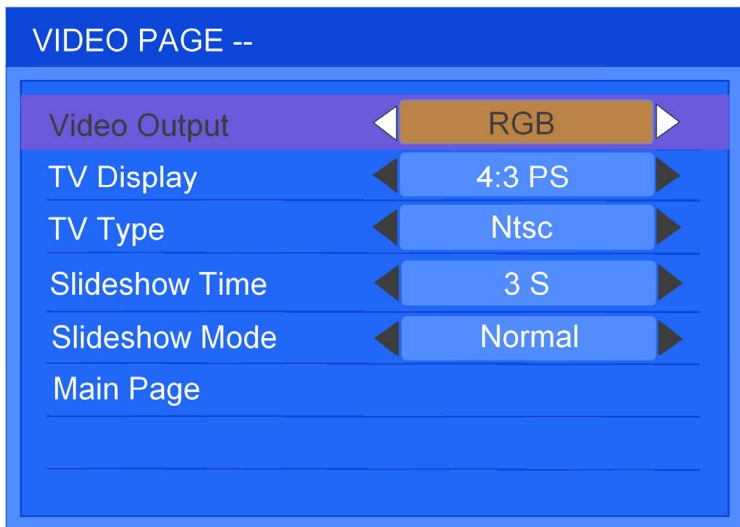


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General Page (continued)

- **OSD Language** Used to select the unit's OSD Language (the default language is English).
- **Auto Play** Can be set on/off to automatically start playing files in the "AUTO PLAY" folder upon power up.
- **Defaults** Used to restore factory default settings.
- **Main Page** Used to return to the main page.

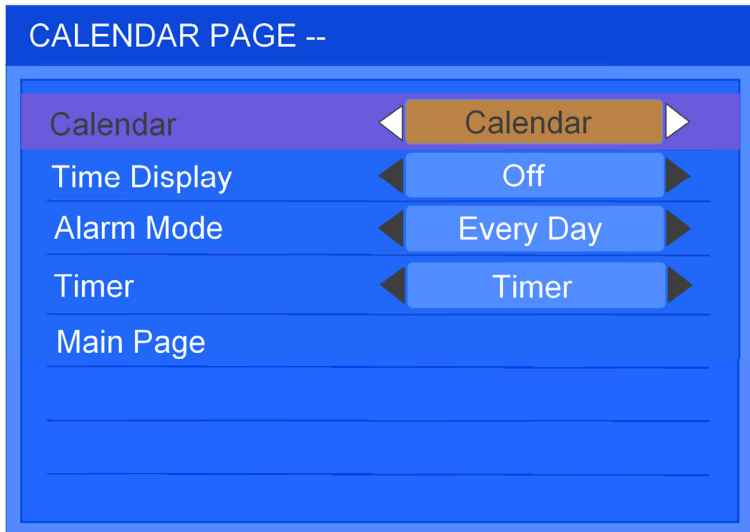
Video Setup



- **Video Output** RGB and YpbPr output (RGB is default).
- **TV Display** 4:3 PS, 4:3LB and Wide (4:3 PS is default).
- **TV Type** NTSC, PAL and Auto (NTSC is default).
- **Slideshow Time** Time (in seconds) to display pictures on the screen: 1, 3, 5, 8, 10, 15, 20 or 25 Sec (3 Sec is default).
- **Slideshow Mode** Picture effects: Normal, T->B, B->T, T/B->C, C->T/B, BLD:T->B, L->R, R->L, L/R->C, C->L/R, Implode, BLD:L->R, FADE, or Random (Normal is default).
- **Main Page** Used to return to the main page.

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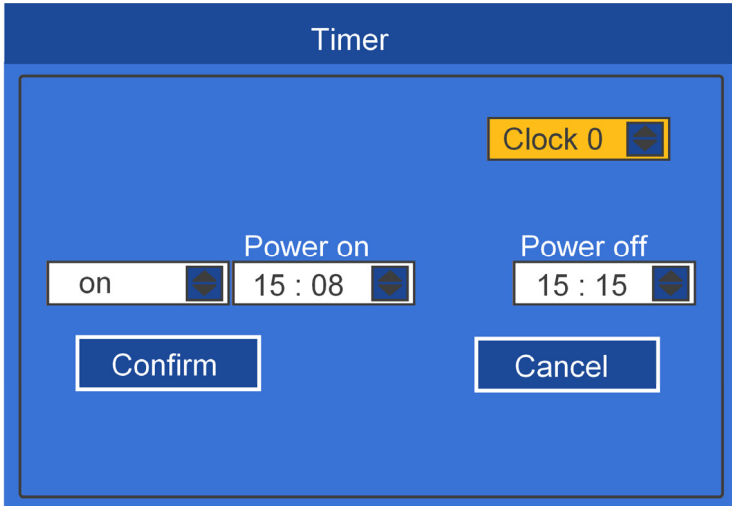
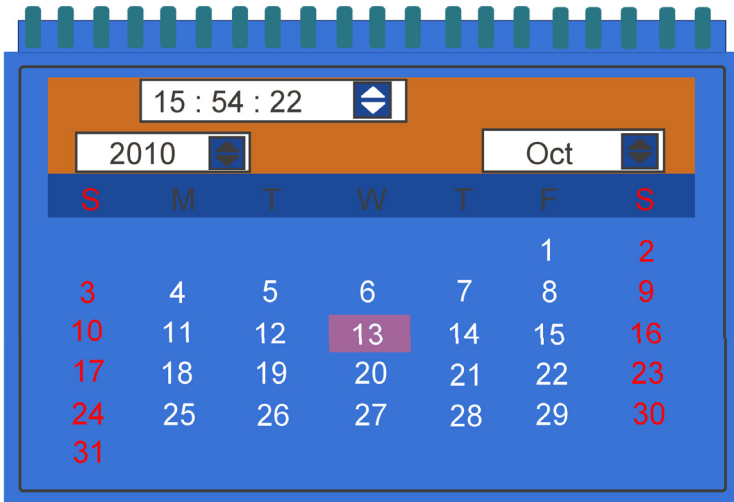
Calendar Setup



- **Calendar** Use to adjust time and date. Press ◀ or ▶ to access and configure the date and time. Use the navigation keys to change the current date, use ◀◀ and ▶▶ to tab over to the time, month and year (see calendar image below for reference).
- **Time Display** Use to turn the time displayed on the screen and Off (On is default).
- **Alarm Mode** Use to change between every day and every week alarm. “Every day” will allow up to 5 alarms that will be triggered every day. “Every week” will allow up to 5 individual alarms for each day of the week (every day is default).
- **Timer** The Multimedia Player supports up to 5 different timers per day. Timers are triggered depending on the “Alarm mode” set up. The timers can be triggered every day or individually each day (“every week” mode).
- **Main Page** Used to return to the main page.

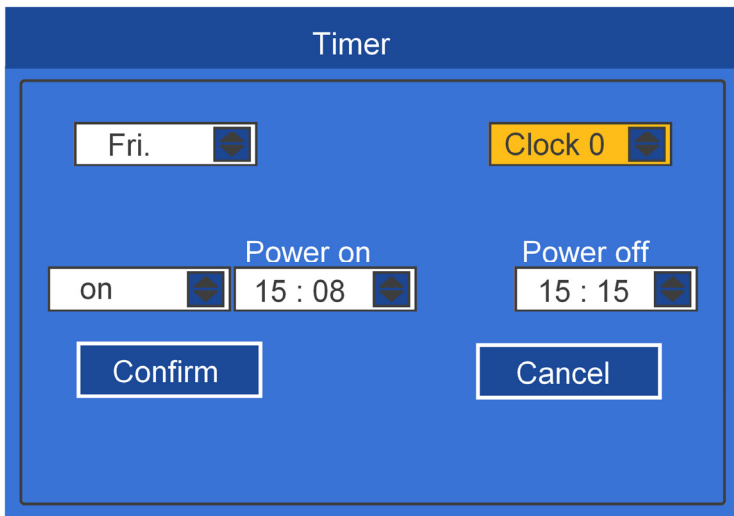
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Calendar



Timer with "Alarm mode" set to "Every Day".

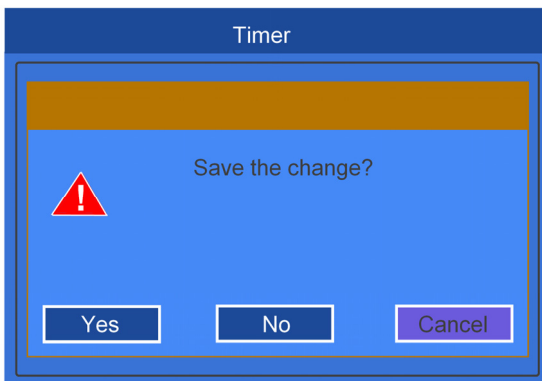
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Timer with “Alarm mode” set to “Every Week”.

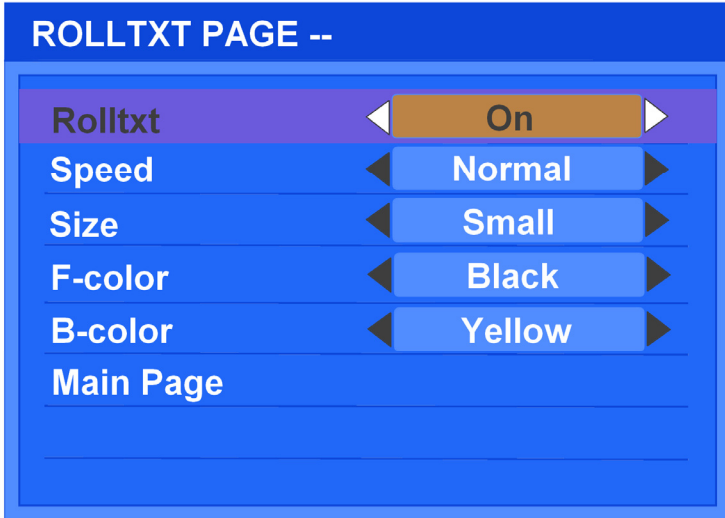
Calendar Setup (continued)

To set a timer use ◀ and ▶ or ◀◀ and ▶▶ cursors to chose a field, use ▼ and ▲ cursors to modify the selected field. Once completed press “Confirm” to save and exit or “Cancel” to discard changes and exit. Pressing “setup” will also exit the timer (user will be prompted to save or discard changes, as shown below). **Note** do not set the same time for a day more than once per day.



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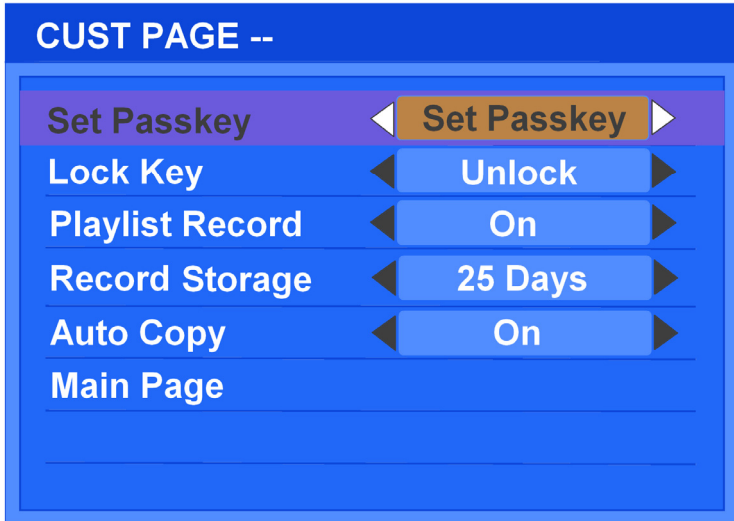
Rolltxt Setup



- **Rolltxt** Used to enable or disable rolling text function (enabled “On” is the default)
- **Speed** Used to control the text scrolling speed between: Normal, Fast or Slow (Normal is the default).
- **Size** Used to adjust the size of the text between: Small, Big or Normal (Small is the default).
- **F-color** Used to set the text color between: Black, Yellow, Red, Grey, Magenta or White (Black is the default).
- **B-color** Used to set the texts background color between: Yellow, Red, Grey, Magenta, Trans, H (half)-Trans, White, Black or Blue (Yellow is the default)
- **Main Page** Used to return to the main page.

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Cust Setup



- **Set Passkey** Used to set an administrator password to access the unit's menu.
- **Lock Key** Used to lock all remote control buttons with the exception of the "Setup" button.
- **Playlist Record** Used to enable or disable priority video logging. This function will generate a text log file on the root directory of the SD card. The file will be automatically be named "date.HHH", for example: "20101019.HHH". The file can be opened with notepad or similar program and will have the following information: date, start time, file name, end time and total file duration.
- **Record Storage** Used to set the number of days the log file should be saved (25 days is the default).
- **Auto copy** Used to enable or disable auto copy mode. When enabled (On) the unit will automatically prompt to copy files from USB device to SD card (when SD card is present and USB device is first inserted). If disabled unit will not perform any action (on is the default).
- **Main Page** Used to return to the main page.

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Storage Device File Structure

In order to take full advantage of the Multimedia Player's capabilities and for correct operation, the storage media must include the following folders on the root of the storage media: "AUTO PLAY" and "PRIORITY" (folder names must be in capital letters and have the exact spelling as shown). Media files placed in the "AUTO PLAY" folder will continuously play and loop for as long as Multimedia Player is powered up. Media files placed in the "PRIORITY" folder will only play when triggered by the front media player's button or an external event button. Additionally, the following notes must be considered for correct operation:

- At least one media file must be included in the "AUTO PLAY" folder. If the unit will only be used for priority video playback, place the priority video in the "PRIORITY" folder and an image file (such as a logo) in the "AUTO PLAY" folder.
- Remote control commands will be disabled while any priority media file is playing.

Rolltxt Structure

One of the Multimedia Player's functions is a scrolling text message at the bottom of the page. To use this function follow the following steps.

1. Ensure that the Rolltxt function is enabled (On) in the menu settings.
2. Select the Rolltxt desired Speed, Size, Font Color, and Background color.
3. Using Notepad, open a new document and use the following format:
 - a. The first line must be a number which will tell the Multimedia Player how often the message will be shown (in seconds). Enter a number and press enter to proceed to the next line. In the example shown below the message will be displayed every 20 seconds.
 - b. The second line can be used for the message.
 - c. Example:
20
This is my message.
4. Save the file as "ROLLTXT.ROL" (exactly as shown) in the root directory of the storage media.

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Copying Files To and From Storage Media

Another great feature of the MP – 1000 Multimedia Player is its ability to copy files to and from different storage media. This feature can be used for updating files without removing storage media from the Multimedia Player. Additionally this feature can be used for retrieving log files that are stored in storage media on the unit. To use this function follow the instruction shown below:

- **Automatic File Copying** – To have the files automatically copied from a USB drive to the secured SD card:
 - Ensure that “Auto Copy” mode is enabled (on) in the “Cust Setup” menu.
 - Insert the USB device into the USB port.
 - Unit will prompt for confirmation.
 - Choose “Update Rolltxt” to overwrite scrolling text file only (option will only be displayed if “ROLLTXT.ROL” file exist on USB device).
 - Choose “Add Files” to keep existing files and write additional USB device files.
 - Chose “Overwrite Files” to erase existing SD card files and overwrite with USB devise file.
 - To skip the confirmation page
 - Create a new blank text document.
 - Save or rename the blank text file as “ZZZ.FLG”
 - Upon USB device insertion, Multimedia Player will overwrite SD card files with those on the USB device.
 - Upon completion, the Multimedia Player will prompt to remove the USB device. The unit will than reset and begin playing updated files.
- **Manual File Copying** – To manually copy the files from one source to the other follow these steps.
 - Ensure that “Auto Copy” mode is disabled (off) in the “Cust Setup” menu.
 - Insert the USB device into the USB port.
 - Press “SETUP” to access files.
 - Press “SOURCE” to select the desired source.
 - Highlight desired file (a folder or entire device (Root) can also be selected).
 - Press “PP” and select destination when prompted.

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Copying Files To and From Storage Media (continued)

****Note**** Coping large files using the MP – 1000 Multimedia Player may take a long time. It is recommended to use a computer when copying large media files.

Auxiliary Input

The MP – 1000 is also equipped with an auxiliary composite video and audio input. This input allows the Multimedia Player to be used with existing video and audio entertainment devices. The auxiliary input will pass through the Multimedia Player and out of the players, component output. When the onboard or optional external “Priority Video” buttons are pressed, the unit will then override the auxiliarys’ video and audio; the player will then output the priority media file. Once the priority file has concluded that player will then return to the auxiliary input. To use the auxiliary input follow these steps.

- Ensure MP – 1000 “AUX VIDEO” switch is in the “ON” position.



- Connect the auxiliary device to the Multimedia’s input and the Multimedia’s output to the monitors or entertainment system inputs.
- Power up both units and ensure auxiliary video is passed through the Multimedia Player and displayed on the monitors.
- Press the Multimedia’s “Priority Video” button and ensure that the player switches and that the priority file is displayed on the monitors (the video should return to the auxiliary device once the priority file has concluded).

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Troubleshooting Guide

- The symptoms described below do not necessarily mean there is a failure within the Multimedia Player. Please check the following items before contacting Technical Support.

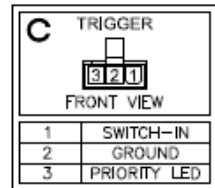
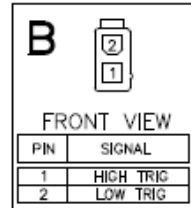
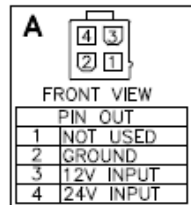
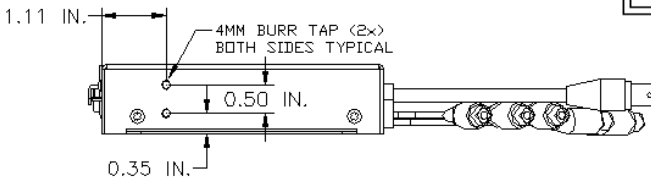
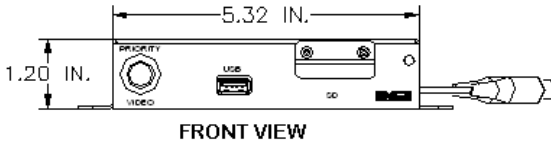
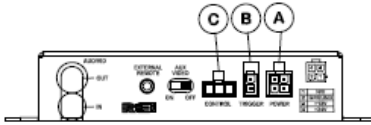
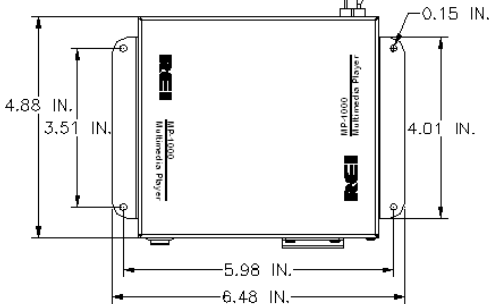
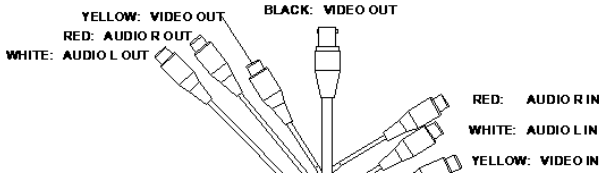
| Symptom | Possible Caused / Solutions |
|--|--|
| Power light does not turn on | <ul style="list-style-type: none">➤ Check for proper power connection➤ Check that source voltage is present. |
| No video out on monitors | <ul style="list-style-type: none">➤ Ensure video device is properly connected and turned on.➤ Inspect video cable connections going to monitor.➤ Ensure Aux Video switch on unit is in the proper position. "ON" if Aux video device is present or "OFF" if it is not present.➤ Inspect Aux device and connections. |
| Digital media won't play or it is skipped. | <ul style="list-style-type: none">➤ Encode media with a supported file type and verify storage device file structure as described in the manual. |
| Unit doesn't respond to remote control commands. | <ul style="list-style-type: none">➤ Inspect remote control's batteries.➤ Ensure "Priority Video" is not currently playing (keys are disabled during "Priority Video" Playback).➤ Ensure keys are not disabled through the units "Cust Setup" menu. |
| Rolltxt or other functions are not displayed. | <ul style="list-style-type: none">➤ Check for proper function formatting and name as described previously in the manual. |

- If you have checked all items on the troubleshooting guide and are still experiencing difficulties please contact REI's technical support:

REI SERVICE HOT LINE
1-877-726-4617 Toll Free USA & CANADA
1-800-228-9275 USA
1-402-339-2200

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Specifications



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Specifications (continued)

| GENERAL | |
|---------------------------|--|
| Power Supply | 9 – 32 Volts DC |
| Power Consumption | 6 Watts |
| Dimensions (W X H X D) | 5.3 in. x 1.2 in. x 4.9 in. (135 mm x 30 mm x 124 mm) |
| Operation Temperature | -20° C to +80° C |
| Storage Temperature | -40° C to +85° C |
| Operating Humidity | 10% to 90% |
| Weight | 0.7 lbs. (11.2 oz.) |
| Storage Media | External SD Card or USB up to 32 GB |
| PLAYBACK DECODING | |
| Video | *.AVI (MPEG4: divx3.10-divx5.0 and xivd encoded), *.MPG (MPEG 1 OR 2), *.VOB (MPEG 2) and *.DAT (MPEG 1) |
| Audio | MP3, WMA, WAV AND MP2 |
| Photos | JPEG |
| Max Resolution | 720 X 480 (NTSC) 720 X 576 (PAL) |
| INPUTS / OUTPUTS | |
| Inputs | Composite Video (RCA), Audio left / right (RCA). |
| Outputs | Composite Video (RCA and BNC), Audio left / right (RCA) |
| MISCELLANEOUS | |
| Accessories | External remote connection, for controlling with remote control. External control for Optional priority play button with LED indicator. High and low outputs w/priority video. |