Tally/Preview Box for SE-800

RMC-140

USER MANUAL
Http://www.datavideo-tek.com

Warnings and Precautions

1. Read all of these warnings and save them for later reference.
2. Follow all warnings and instructions marked on this unit.
3. Unplug this unit from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this unit in or near water.
5. Do not place this unit on an unstable cart, stand, or table. The unit may fall, causing serious damage.
6. Slots and openings on the cabinet top, back, and bottom are provided for ventilation. To ensure safe and reliable operation of this unit, and to protect it from overheating, do not block or cover these openings. Do not place this unit on a bed, sofa, rug, or similar surface, as the ventilation openings on the bottom of the cabinet will be blocked. This unit should never be placed near or over a heat register or radiator. This unit should not be placed in a built-in installation unless proper ventilation is provided.
7. This product should only be operated from the type of power source indicated on the marking label of the AC adapter. If you are not sure of the type of power available, consult your Datavideo dealer or your local power company.
8. Do not allow anything to rest on the power cord. Do not locate this unit where the power cord will be walked on, rolled over, or otherwise stressed.
9. If an extension cord must be used with this unit, make sure that the total of the ampere ratings on the products plugged into the extension cord do not exceed the extension cord's rating.
10. Make sure that the total amperes of all the units that are plugged into a single wall outlet do not exceed 15 amperes.

11. Never push objects of any kind into this unit through the cabinet ventilation slots, as they may touch dangerous voltage points or short out parts that could result in risk of fire or electric shock. Never spill liquid of any kind onto or into this unit.

12. Except as specifically explained elsewhere in this manual, do not attempt to service this product yourself. Opening or removing covers that are marked "Do Not Remove" may expose you to dangerous voltage points or other risks, and will void your warranty. Refer all service issues to qualified service personnel.

13. Unplug this product from the wall outlet and refer to qualified service personnel under the following conditions:

    a. When the power cord is damaged or frayed;

    b. When liquid has spilled into the unit;

    c. When the product has been exposed to rain or water;

    d. When the product does not operate normally under normal operating conditions. Adjust only those controls that are covered by the operating instructions in this manual; improper adjustment of other controls may result in damage to the unit and may often require extensive work by a qualified technician to restore the unit to normal operation;

    e. When the product has been dropped or the cabinet has been damaged;

    f. When the product exhibits a distinct change in performance, indicating a need for service.

Table of Contents

What's in the box?

1. RMC-140
2. User Manual
3. RS232 cable x 1
4. BNC 1.2m cable * 5
5. AC/DC Power Adapter

Introduction

Thank you for purchasing the RMC-140. This is an accessory for the SE-800, and it can also be used for security camera monitoring. In order to bring out the maximum performance of this software, we recommend that you spend some time reading this manual carefully.
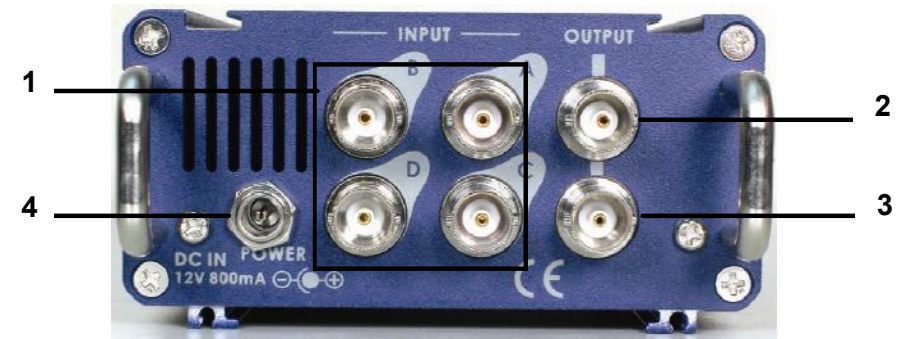
Product Overview

The RMC-140 is especially designed for control by the SE 800, via RS-232 port. In general, you can only select the main output from one of four different video sources in the SE-800 by looking at the TLM-404 (4" x 4 LCD monitor) or other similar products. You might not know which camera source you want to switch to. With the RMC-140, everything becomes easier and faster. You will be able to see next source preview and next transition effect indicator showing on the same monitor.

The RMC-140 also has an extra feature, you can select 4 different display modes, Quad, POP, PIP, or Next source screen, plus tally light indicators on the same monitor.
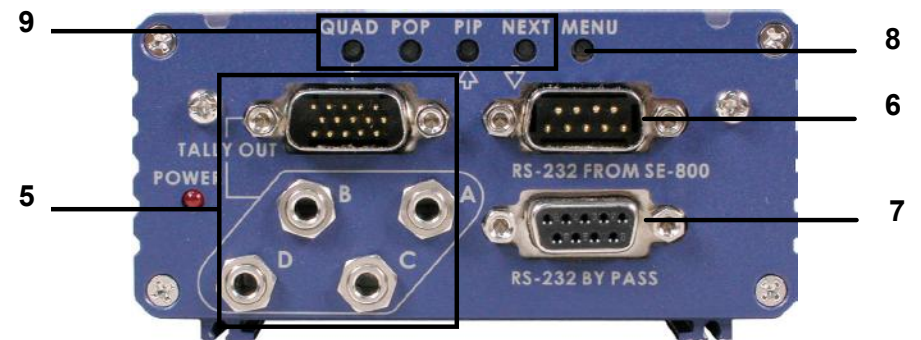
Features

- Next source preview
- Combine 4 different video sources into one video output (4 display modes, Quad, POP, PIP, and full screen.)
- Next transition effect indicator
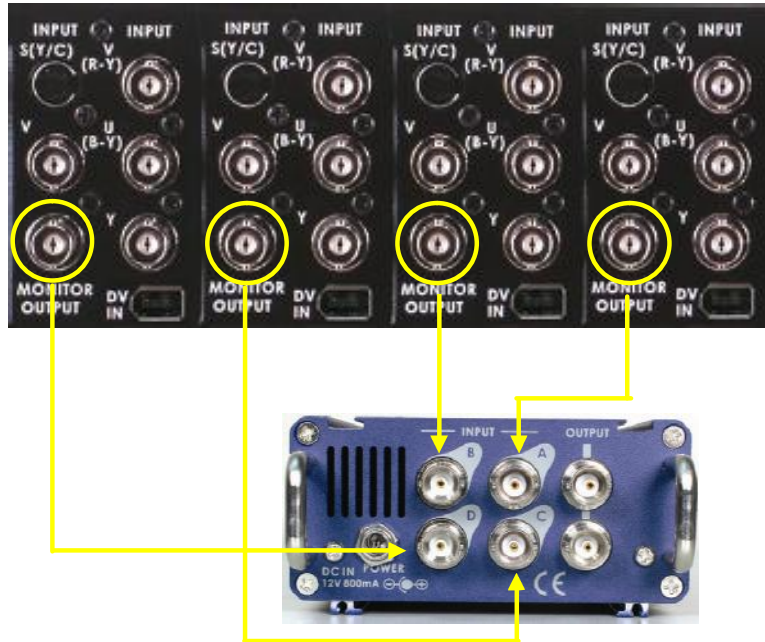- Tally light indicator

Interface

1. **4 composite input**
2. **Monitor output (Quad, POP, PIP & Next selectable)**
3. **Full screen next source preview output, Effect and Tally light indicators**
4. **Power connector (DV12V)**

5. **Tally light signal out (15pin & 3.5mm jack)**
6. **RS-232 input from SE-800**
7. **RS-232 by pass**
8. **Menu**
9. **Display mode selects (Quad, POP, PIP and Next)**

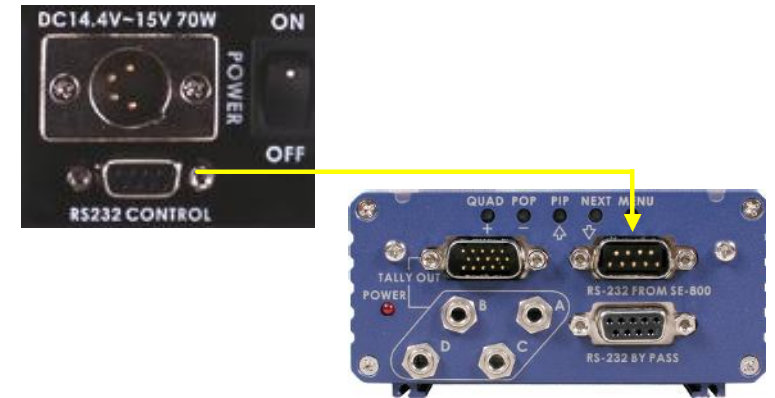## Installation

1. Connect four monitor outputs from SE-800,

2. Or loop thru from TLM-404.

3. Connect RS-232 from SE-800.

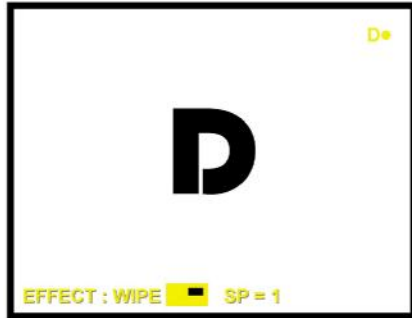**4.** Connect video monitor from next source preview out.

5. Plug in the power adapter, and connect to the power. Now RMC-140 is ready to use.
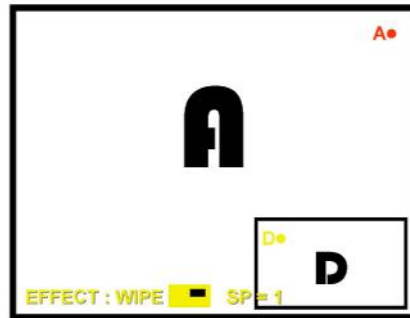
Display Modes

The four display modes of the RMC 140 are:
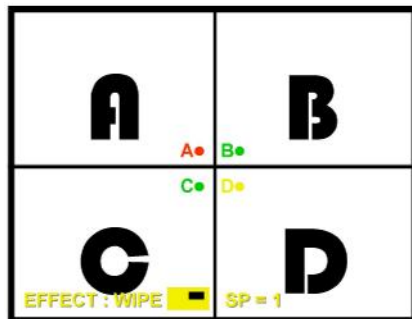
Next Source

Shows a full screen display of the cued up source.
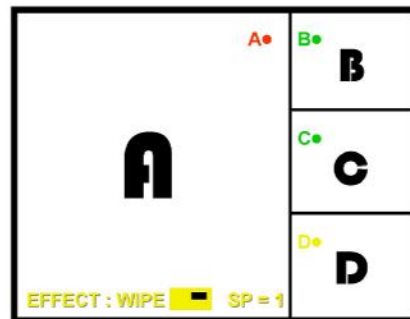
PIP

Shows a full screen of the Live Source with a PIP of the cued up source.

Quad

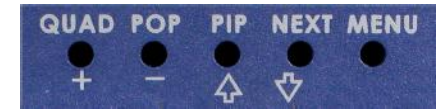Shows all four sources with Tally Indication.

POP

Shows the Live Source in the main window, plus the other three sources with Tally Indication.

In all display modes the active effect in the SE 800 is shown across the bottom of the screen.

SET UP Menu

The RMC 140 has a simple Set Up Menu, which is navigated with the +, -, Up, Down and Menu buttons.

To call up the menu press the menu button.

SETUP MENU- - [PAL]

- COLOR PROCESSOR - CH : A
- COLOR PROCESSOR - CH : B
- COLOR PROCESSOR - CH : C
- COLOR PROCESSOR - CH : D
- VIDEO OUTPUT : SAME

- SAVE AND EXIT

Within the menu there are Color Processor Settings for each input, and a Video Output Setting.

Color Processor Settings. – These settings do not affect the actual video channels on the mixer; they are only fine tune adjustments within the RMC 140.

Use the Up or Down buttons to navigate the menu, and highlight the channel you require. (In this example Channel A)

SETUP MENU- - [PAL]

- COLOR PROCESSOR - CH : A
- COLOR PROCESSOR - CH : B
- COLOR PROCESSOR - CH : C
- COLOR PROCESSOR - CH : D
- VIDEO OUTPUT : SEPARATE

- SAVE AND EXIT

Then press the menu button, to enter the settings menu

COLOR PROCESSOR
CH : A

● BRIGHT - - - [+00]
● Y GAIN - - - [+00]
● COLOR - - - [+00]

● SAVE AND EXIT

Use the Up or Down buttons to navigate the menu, and highlight the channel you require. (In this example Channel A)

SETUP MENU- - [PAL]

● COLOR PROCESSOR - CH : A
● COLOR PROCESSOR - CH : B
● COLOR PROCESSOR - CH : C
● COLOR PROCESSOR - CH : D
● VIDEO OUTPUT : SEPARATE

● SAVE AND EXIT

Then press the menu button, to enter the settings menu

COLOR PROCESSOR
CH : A

● BRIGHT - - - [+00]
● Y GAIN - - - [+00]
● COLOR - - - [+00]

● SAVE AND EXIT

Use the Up and Down buttons to navigate the options, and the + and – buttons to adjust the values (-99 - +99).

Once the values are set highlight Save and Exit, and press the menu button.

COLOR PROCESSOR
CH : A

● BRIGHT - - - [+00]
● Y GAIN - - - [+00]
● COLOR - - - [+00]

● SAVE AND EXIT

Video Output Settings

The Video Output can be set to Same or Separate. Same will feed identical signals to both outputs, whereas Separate will feed whichever display mode you have selected to the Main Output (PIP, QUAD, POP, Next Source), and a full screen next source preview to the Next Source Output.

Main Output – This will always show the chosen display pattern – i.e. PIP, POP, QUAD or Next Source.

Next Source Output – This can either give the same display pattern as the Main Output or a full screen next source preview.

To change from Same to Separate or vice versa, highlight Video Output and press the menu button to toggle from one to the other.
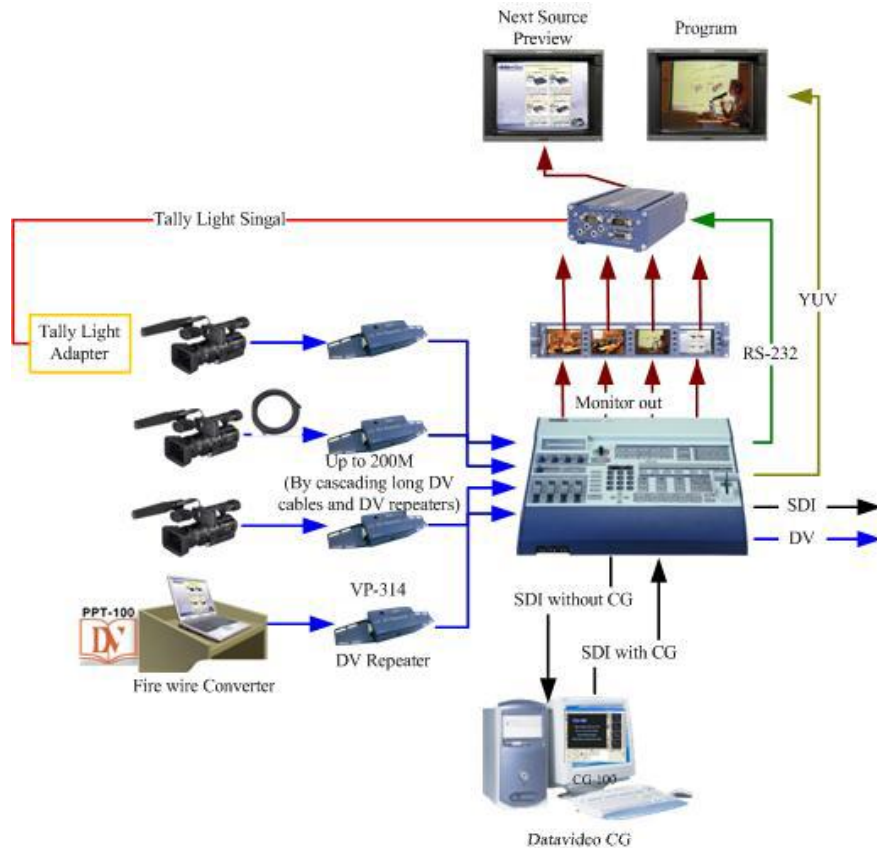
Once set highlight Save and Exit, and press the menu button.

SETUP MENU- - [PAL]

● COLOR PROCESSOR - CH : A
● COLOR PROCESSOR - CH : B
● COLOR PROCESSOR - CH : C
● COLOR PROCESSOR - CH : D
● VIDEO OUTPUT : SEPARATE

● SAVE AND EXIT

Sample connection diagrams

Example 1: RMC-140 and SE-800 Application

Specification

Video Formats
Analog Composite NTSC or PAL (NTSC and PAL are separate models)

Video Inputs
4 – Composite

Video Output
1 – Composite (Quad, POP, PIP, Next source preview)
1 – Composite (Full screen next source preview)

RS-232 Data Control Port
From SE-800- Connecting Datavideo SE-800 RS-232
By pass- For other RS-232 remote control devices

Tally Light Signal Out
1 – 15pin
4 – 3.5mm mini jack

Video Bandwidth
Composite 4.6 MHz
DG, DP +/- 5%, 5 degrees

Signal/Noise Ratio:
Video > 50dB

Dimensions W x D x H
6.3" x 3.93" x 1.95"
160mm x 100mm x 49.5mm

Weight
 5.36 lb, 2.5 kg

Power
Input: DC12V

Product registration

Go on line www.datavideo.info/product_reg.htm for product registration

See the warranty card for warranty period

Service and Support

It is our goal to make your products ownership a satisfying experience. Our supporting staff is available to assist you in setting up and operating your system. Please refer to our web site www.datavideo-tek.com for answers to common questions, support requests or contact your local office below.

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