datavideo

MULTI-CAMERA
CONTROL UNIT
MCU-200S
Instruction Manual

www.datavideo.com

Table of Contents

Disclaimer of Product & Services

The information offered in this instruction manual is intended as a guide only. At all times, Datavideo Technologies will try to give correct, complete and suitable information. However, Datavideo Technologies cannot exclude that some information in this manual, from time to time, may not be correct or may be incomplete. This manual may contain typing errors, omissions or incorrect information. Datavideo Technologies always recommend that you double check the information in this document for accuracy before making any purchase decision or using the product. Datavideo Technologies is not responsible for any omissions or errors, or for any subsequent loss or damage caused by using the information contained within this manual. Further advice on the content of this manual or on the product can be obtained by contacting your local Datavideo Office or dealer.

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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 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.
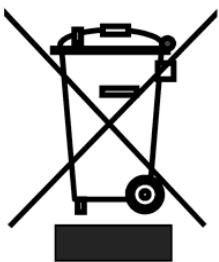
Warranty

Standard Warranty

- Datavideo equipment are guaranteed against any manufacturing defects for one year from the date of purchase.
- The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.
- The product warranty period beings on the purchase date. If the purchase date is unknown, the product warranty period begins on the thirtieth day after shipment from a Datavideo office.
- Damage caused by accident, misuse, unauthorized repairs, sand, grit or water is not covered under warranty.
- Viruses and malware infections on the computer systems are not covered under warranty.
- Any errors that are caused by unauthorized third-party software installations, which are not required by our computer systems, are not covered under warranty.
- All mail or transportation costs including insurance are at the expense of the owner.
- All other claims of any nature are not covered.
- Cables and batteries are not covered under warranty.
- Warranty only valid in the country or region of purchase.
- Your statutory rights are not affected.

Three Year Warranty

- All Datavideo products purchased after July 1st, 2017 are qualified for a free two years extension to the standard warranty, providing the product is registered with Datavideo within 30 days of purchase.
- Certain parts with limited lifetime expectancy such as LCD panels, DVD drives, Hard Drive, Solid State Drive, SD Card, USB Thumb Drive, Lighting, Camera module, PCIe Card are covered for 1 year.
- The three-year warranty must be registered on Datavideo's official website or with your local Datavideo office or one of its authorized distributors within 30 days of purchase.

Disposal

For EU Customers only - WEEE Marking

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

CE Marking is the symbol as shown on the left of this page. The letters "CE" are the abbreviation of French phrase "Conformité Européene" which literally means "European Conformity". The term initially used was "EC Mark" and it was officially replaced by "CE Marking" in the Directive 93/68/EEC in 1993. "CE Marking" is now used in all EU official documents.

1. Introduction

The MCU-200S is a multiple camera controller designed for controlling SONY studio or portable camcorders. Its useful and user-friendly design allows you to connect a maximum of 4 SONY camcorders through the Ethernet cables and an adapter box. Major functions of several SONY camcorders can be easily operated and controlled using the MCU-200S at up to 300m away from the controller unit.

The Datavideo MCU-200S Controller is capable of remotely configuring SONY Camcorders from an OB Van. The MCU-200S can connect up to four SONY cameras allowing settings from one camera to be quickly aligned with other cameras. With features similar to the SONY Extension Control Unit, the MCU-200S reduces cost in manpower and equipment and saves setup time and disk space for you.

To get more value out of this equipment please take a few minutes to read through this manual. This will help familiarizing yourself with all the aspects of the MCU-200S control unit.

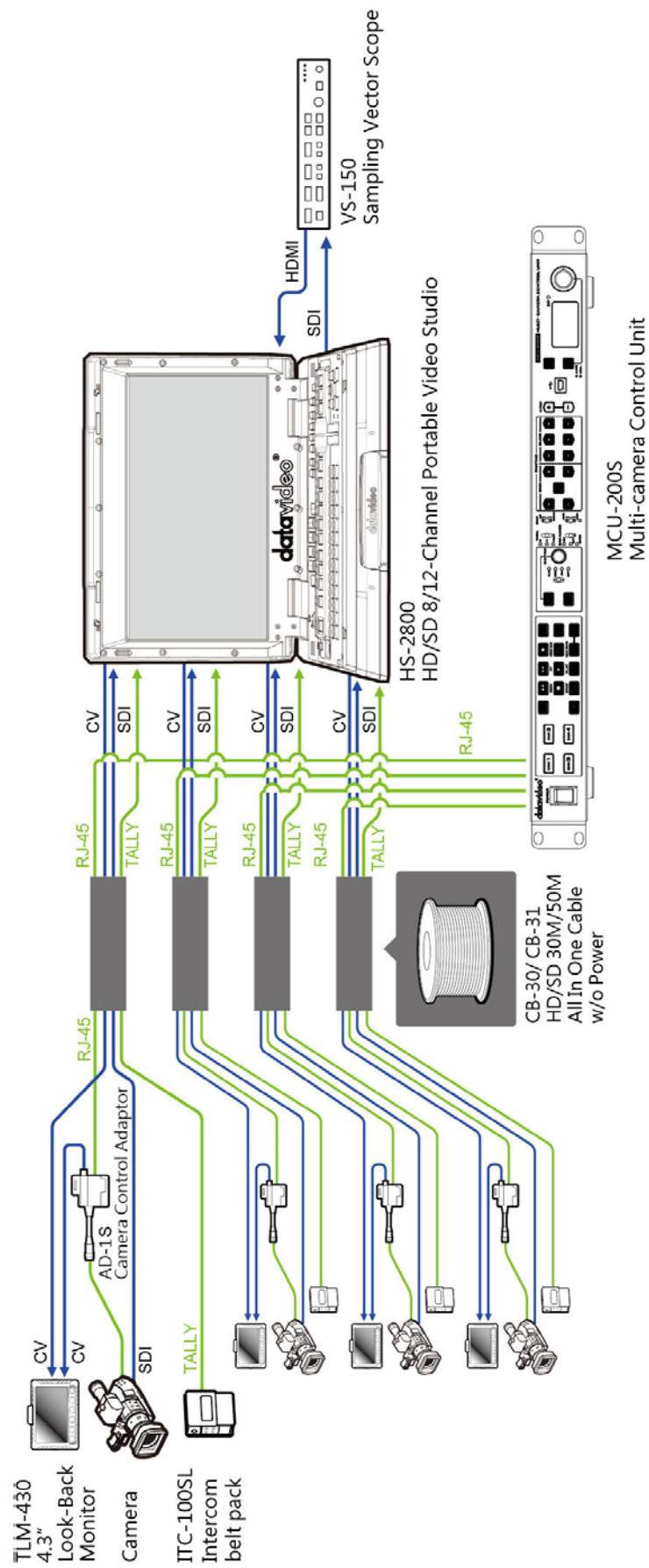*That's Datavideo; sharing the value!*

1.1   Features

- Four RJ-45 Ethernet ports allow remote setup of up to four SONY cameras.
- RJ-45 cabling allows unit to be placed up to 300m away from the camera(s).
- Control of Record and Playback functions.
- Control of Camera User memory functions.
- Control of Camera OSD Menu Navigation.
- Control of Shutter speed and degree functions.
- Control of Iris adjustment.
- Control of AWB & ABB functions.
- Control of White Balance A, B and Preset functions.
- Control of Camera Knee & Bars functions.
- Control of Camera Gain adjustment.
- RGB Black Level / R & B gain and Master Pedestal controls.

1.2   Compatible SONY Camera Models*

- PMW - F5 / EX3 / EX350 / 300K2 / 350K / 320 / 400
- PDW - 510 / 510P / F55
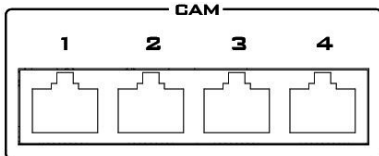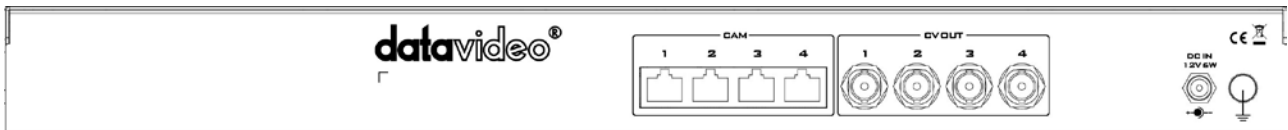- PMW - F3 / 300 / 350
- HDW - 730S / 750P / 790P / F900R

Note: Please see the product page on our official website for the updated list.

VS-150
Sampling Vector Scope

HDMI

SDI

HS-2800
HD/SD 8/12-Channel Portable Video Studio

MCU-200S
Multi-camera Control Unit

CV
SDI
CV
SDI
CV
SDI
CV
SDI

RJ-45

RJ-45
TALLY
RJ-45
TALLY
RJ-45
TALLY
RJ-45
TALLY

CB-30/ CB-31
HD/SD 30M/50M
All In One Cable
w/o Power

RJ-45

AD-1S
Camera Control Adaptor

CV
CV
SDI
TALLY

TLM-430
4.3"
Look-Back
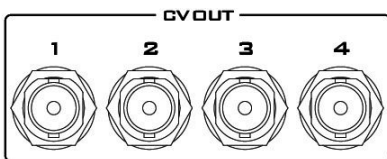Monitor

Camera

ITC-100SL
Intercom
belt pack

3. Connections and Controls

3.1 Rear View

Remote Control

Four RJ-45 ports allow remote control of up to four SONY cameras.

CV OUT

The CV ports are used for confidence monitoring and in some cases they can be used to view the camera's OSD menu.

12V DC Input

Connects the supplied 12V PSU to this socket. The connection can be secured by screwing the outer fastening ring of the DC In plug to the socket.

Grounding Terminal

When connecting this unit to any other component, make sure that it is properly grounded by connecting this terminal to an appropriate point. When connecting, use the socket and be sure to use wire with a cross-sectional area of at least 1.0 mm^2.

Adapter Box (AD-1S)

The adapter box acts as an interface between the MCU-200S and SONY cameras or camcorders. One side of the box connects to the MCU-200S via an Ethernet cable and the other side connects to SONY cameras or camcorders via a SONY CAM/BS cable. Users are allowed to use an Ethernet cable that runs 300 meters to connect the MCU-200S to this adapter box which in turn connects a SONY camera.

The CV output connects the monitor which will display the camcorder settings.

F/W Upgrade

This unit allows you to operate the functions of the camera up to 300m away with the MCU-200S unit.

The AD-1S adaptor connects the MCU-200S via RJ-45 cabling to the chosen Sony camera. This adaptor changes the Ethernet connection to a Sony CAM/BS cable run with a multi-pin connector.

NOTE: Before using the MCU-200S to control the connected cameras, you have to enable the camera's remote control function. For instructions on how you can enable the remote control function, please see the corresponding user manual.

NOTE: Be very careful with the Sony CAM/BS cable connector which plugs into the remote socket of the Sony camera. This connector only slides into the camera's remote socket when the notches and pins are matched up correctly. ***Do not twist or force this connection as damage to the camera or connector pins may happen.***

NOTE: With the AD-1S connected, the menu and other functions of the Sony camera may be limited to remote control only. To regain manual control of the menu functions on the camera first disconnect the AD-1S.
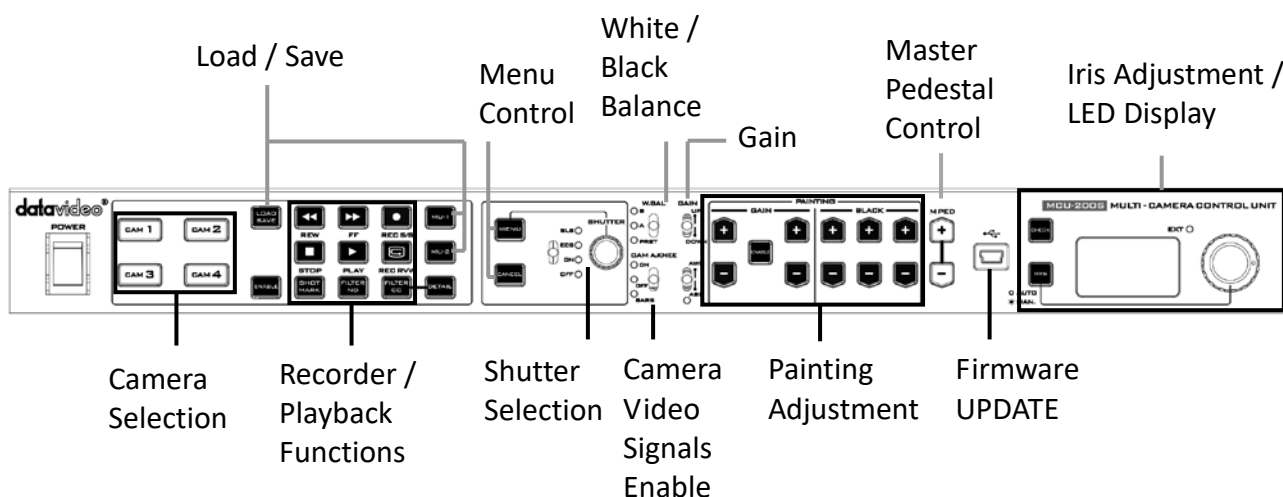
The AD-1S also features a BNC type Composite (CV) output which can be taken to an SD monitor on or near the camera. This Composite output can be used for confidence and composition monitoring and in some cases to view the camera's own LCD/OSD menus too. ***Please note this feature is camera model and firmware dependant.***

Each AD-1S adaptor has a built in Velcro strap so that the unit can be quickly mounted in a convenient location on or near the camera.
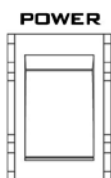
A micro USB 2.0 port is provided for transfer of firmware updates to the unit. See ***Firmware Update*** section for more details.

3.2 Front View

Load / Save

Menu Control

White / Black Balance

Gain

Master Pedestal Control

Iris Adjustment / LED Display

Camera Selection

Recorder / Playback Functions

Shutter Selection

Camera Video Signals Enable

Painting Adjustment
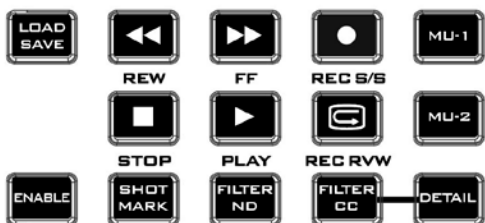
Firmware UPDATE

Keyboard Control Guide

Power switch
Use this switch to power the MCU-200S On or Off.

Camera selection
Select the button for the camera that you wish to control.

MCU-200S Memory stores

Using the LOAD SAVE button it is possible to transfer the current setting from one camera to another.

MU-1, MU-2 can be used to store settings within the MCU-200S.

Note: *The LOAD SAVE / MU1 / MU2 functions are not applicable to SONY EX3 & PMW-300EX cameras.*

Recorder / Playback functions

ENABLE when selected activates the recorder / playback functions of the chosen camera. This includes rewind [REW], fast forward [FF], record start/stop [REC S/S], stop, play and record check [REC RVW].

REC RVW makes it possible to check what has just been recorded (2 seconds REC review) by pressing this button during REC pause.

With a DVCPRO HD camera recorder, the tape is cued to provide continuity from one shot to the next when this button is pressed while playback is paused.

Note: The REW and FF functions may be modified during the firmware upgrade process.

SHORT MARK

Press this button during recording or playback to record shot mark 1.

ND (ND filter) select switch and indicator

Use this switch to select the ND filter. Press the switch upward to change the ND filter in order and downward to change the ND filter in the reverse order. The ND indicator displays the currently selected ND filter. This switch is disabled for a camera not equipped with an ND filter servo system or a camera without ND filters.

CC (color temperature conversion filter) select switch and indicator

Use this switch to select the CC filter. Press the switch upward to change the CC filter in order and downward to change the CC filter in the reverse order. The CC indicator displays the currently selected CC filter. This switch is disabled for a camera not equipped with a CC filter servo system or a camera without CC filters.

Note: The FILTER ND / FILTER CC functions may be modified during the firmware upgrade process.

DETAIL

In Remote Control mode, press and light this button to enable the Detail function.
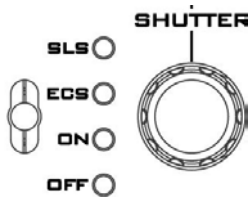
Menu

When this function is enabled, the button is back lit orange and the OSD menu is shown on the LCD panel/view finder of the camera. This OSD menu may also be shown on the AD-1S's composite output (if supported).

Some camera models also allow this OSD menu to be displayed on the SDI or HDMI output of the chosen camera. Refer to your cameras manual for more details on its OSD Menu outputs and change settings where necessary.

CANCEL

In Camera Menu mode, press this button to cancel the set value.

SHUTTER

In Remote Control mode, Moving this switch to enable the Shutter function. The current shutter speed is displayed on the adjustment value indicator and the shutter speed can be adjusted with the adjustment knob (rotary encoder). In Camera Menu mode, moving the switch to enable the character display function on the camera.
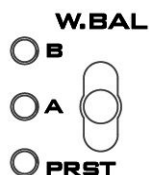
ON /OFF

To turn on/ off the shutter operation.

ECS (Extended Clear Scan)

In Remote Control mode, moving the switch to enable the ECS function.

SLS (Slow Shutter)

In Remote Control mode, moving the switch to enable the SLS function.

Note: *The SLS function may be modified during the firmware upgrade process.*

W.BAL switch

This switch is used to recall the preset or stored values of white balance in the camera.

A or B: This will apply the value stored in the white balance A or B memory in the camera recorder. When the AWB / ABB switch is set to the AWB position, the white balance is automatically adjusted and the value adjusted is stored in the selected memory A or B.

PRST

This will apply the preset value of the white balance stored in the camera recorder.

CAM A.KNEE switch

To select the video signals to be output from the camera.

BARS

Camera generated colour bar signals are output.

CAM. AUTO KNEE OFF

The images shot by camera are output. The AUTO KNEE circuit does not work. MANUAL KNEE is set as the camera recorder's initial setting.

CAM. AUTO KNEE ON

The images shot by the camera are output. The AUTO KNEE circuit works.

NOTE: AUTO KNEE circuit will not be effective if DRS (Dynamic Range Stretch) function is enabled. It is also possible to allocate the MANUAL KNEE and DRS functions via the menu settings on the camera.

GAIN switch

Allows selection of the video amplifier's gain depending on the lighting conditions that are present in the camera's location.

Moving the switch upwards increases the gain in dB steps. Moving the switch downwards decreases the gain in dB steps.

AWB / ABB switch with LED

This switch is used to trigger Auto White Balance (AWB) or Auto Black Balance (ABB) adjustment.

AWB: White balance is adjusted automatically. When the W.BAL switch is set to A or B at this time, the value to which the balance was adjusted will be stored in memory A or memory B.
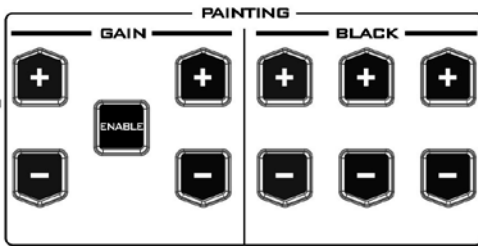
ABB: Black balance is adjusted automatically. This value will be stored in a dedicated ABB memory.

LED ON: Auto white balance / auto black balance in progress.
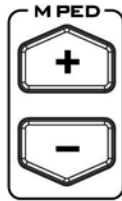**LED OFF:** Auto white balance / auto black balance completed.
LED stops blinking and goes off: Auto white balance / auto black balance error.

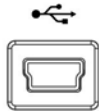*Note: The AWB / ABB functions may be modified during the firmware upgrade process.*

Enable & Painting Adjustment buttons

Press the ENABLE button in the **Painting area** of the MCU-200S before choosing to adjust either the level of the Red and Blue Gain or the RGB Pedestal values.

Master Pedestal Control

These buttons are used to adjust the level of the Master Pedestal.

Mini USB 2.0 port

This port is used for firmware updates or to save/transfer MCU-100S settings to computer.

See **Firmware Update** section for firmware upgrade details.

CHECK / Lock

GAIN value, SHUTTER speed, FILTER position, IRIS, Master Pedestal, R/B Gain and RGB pedestal values are shown on the display below in this order each time the CHECK button is pressed.

If the CHECK button is pressed and held down for over two seconds the MCU-200S unit will switch in to LOCK mode.

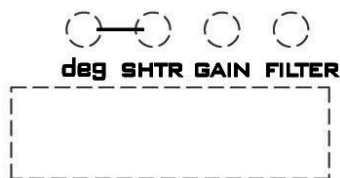*Note: The Check function may be modified during the firmware upgrade process.*

IRIS button

To enable or disable Auto Iris.

The button is back lit orange when Auto Iris is enabled.

13

LED display

The IRIS value, Shutter degree, speed, Gain and Filter positions can be displayed here by using the CHECK button.

*The M. PED, PAINTING GAIN R/B and BLACK R/G/B values can also be displayed sequentially here. See CHECK button also.

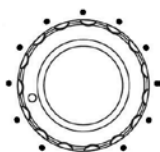When in LOCK mode this display will show Lock.

Note: The LED display functions may be modified during the firmware upgrade process.

EXT LED

This LED will be ON when a lens extender is detected on the chosen camera.
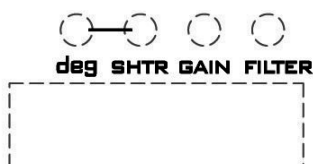
Note: The EXT LED function may be modified during the firmware upgrade process.

IRIS control

Used to adjust the Iris value. See **IRIS** and **CHECK** buttons also.

Seven Segment Display and LED Indicators

Deg Indicator	To indicate the displayed format of SHUTTER value. **ON**: Shutter angle is displayed. **OFF**: Shutter speed is displayed.
SHTR Indicator	This lights up when LED display shows SHUTTER (speed) value.
GAIN Indicator	This lights up when LED display shows GAIN value (in dB).
FILTER Indicator	This lights up when LED display shows ND FILTER mode (F1~F5).

Operation Modes – LOCK and NORMAL

There are two modes of operation on the MCU-200S.

NORMAL: This is always active when the unit is first turned on. Under this mode all functions are available. Buttons not back lit indicate functions that are currently not in use. The user may activate these functions via an associated ENABLE button.

LOCK: This mode is activated by pressing and holding down the **CHECK** button for two seconds. When in **LOCK** mode all functions are unavailable except for the 4 Camera selection buttons and the **CHECK** function. This is to prevent unauthorized or unintended operation during a LIVE production. The seven segment LED display will also show Lock.

Iris controls can be quickly accessed in **LOCK** mode by pressing down on the IRIS Dial once; press the dial again to return to full lock mode. When the Iris function is accessed in this way, if the MCU-200S unit is left idle for 3 seconds or more then the unit will automatically return to full **LOCK** mode.

The **LOCK** mode can be deactivated by pressing and holding down the **CHECK** button for two seconds.

4. Camera Setups

4.1 How to copy settings set by the MCU-200S from one camera to another

When the MCU-200S is used to control more than one camera, it is possible to copy the settings set by the unit on one camera to another via the Memory Stores functions of the unit.

Follow the following procedure to copy the settings set by the unit on camera to another.

1. Select the camera from which you want to copy the settings via the CAM 1 to CAM 4 buttons.

2. Press the LOAD SAVE button to start the copy process. The LOAD SAVE button will be back lit orange and blinking.

3. Whilst the LOAD SAVE button is back lit orange and blinking select the camera to which you want to copy the settings via the CAM 1 to CAM 4 buttons.

4. When the LOAD SAVE button is back lit green the copy process is then completed.

Note: This process does not work if either the selected source or destination camera is not connected or is not powered on.

4.2 How to store / recall settings from internal memory (MU-1 / MU-2 / MU-3)

The MCU-200S has dedicated internal memory to store the settings set by the unit on four cameras. This internal memory can be accessed using the Memory Store functions.

Internally, the unit has three memory blocks indicated by the Memory Stores MU-1, MU-2 and MU-3. Each of these blocks is divided into four segments, one segment for each camera. These are used to store the settings for each camera accordingly.

Use this procedure *to store* the settings on a camera to the MCU-200S unit's internal memory.

1. Select the camera from which you want to copy the settings via the CAM 1 to CAM 4 buttons.

2. Press the LOAD SAVE button to start the copy process. The LOAD SAVE and the selected camera button will be back lit orange and blinking.

3. Whilst these buttons are back lit orange and blinking select the memory block, MU-1, MU-2 or MU-3 button, to which you want to copy the settings.

4. When the MU-1, MU-2 or MU-3 button is back lit green and the copy process is then completed.

Use this procedure *to recall* a previously saved setting on the MU-1, MU-2 or MU-3 button to a camera.

1. Select the camera to which you want to copy the stored settings via the CAM 1 to CAM 4 buttons.

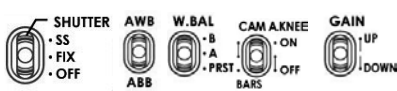2. Select the memory block from which you want to copy the settings via the MU-1, MU-2 or MU-3 button.

3. Press the LOAD SAVE button to start the copy process. The LOAD SAVE and the selected camera button will be back lit orange and blinking.

4. These buttons will be back lit green when copy process is completed.

4.3 How to save / load the camcorder settings to / from a PC

It is possible to save the current settings on all four cameras from MCU-200S to a PC for later use. Also any previously saved MCU-200S settings stored on a PC can also be loaded back to the MCU-200S unit. This can be handy if multiple users have access to the equipment and you need a quick way to get back to your preferred settings.

Use the following procedure to save the current camera settings set by the MCU-200S unit to a PC.

1. Power off the MCU-200S unit.

2. Connect the MCU-200S unit to PC using USB cable via the USB 2.0 (Mini B) interface.

3. Set the five switches on the MCU-200S unit to their middle position.

4. Press and hold in both the CAM 1 & MU-1 buttons at same time and then power on the MCU-200S unit.

5. The seven segment LED Display will show "**cU--**", and the PC will detect the MCU-200S unit as an external storage device named "**MCU-200S_MUx**".

6. Open the "**MCU-200S_MUx**" folder on the PC and copy "**mu_param.bin**" file to desired PC hard drive location.

7. Once complete unplug the USB cable and reboot the MCU-200S unit.

To load previously saved settings on a PC to MCU-200S, repeat steps 1~5 of the above procedure and then continue with the following steps.

6. Open the "**MCU-200S_MUx**" file folder on PC and delete the "**mu_param.bin**" file.

7. Copy the previously saved "**mu_param.bin**" file from the PC hard drive location to the "**MCU-200S_MUx**" folder.

Note: Do not worry if the previously saved **xxxxxxxx.bin** file has been renamed on the PC. The MCU-200S unit will automatically amend the file name back to "**mu_param.bin**" after a reboot.

8. Once the copy process is complete unplug the USB cable and reboot the MCU-200S unit.

5. Firmware Update Procedure

From time to time Datavideo may release new firmware to either add new features or to fix reported bugs in the current MCU-200S firmware. Customers can update the firmware themselves if they wish or they can contact their local dealer or reseller for assistance should they prefer this method.

This page describes the firmware update process and it should take *approximately 20 minutes total time to complete*. Once started *the update process should not be interrupted in any way* as this could result in a non-responsive unit.

As well as a working MCU-200S you will need:

➢ The latest firmware update for the *AD-1S* units *and* the *MCU-200S*.
➢ USB 2.0 cable (USB A type-to-Micro USB).
➢ A Windows computer (Vista / 7) with USB 2.0 port.

Note: It is best to update the firmware of the *AD-1S* unit(s) at the same time as the *MCU-200S*.

5.1 How to update the MCU-200S firmware

1. Turn off the MCU-200S power.

2. Connect the MCU-200S to the PC via a USB cable.

3. Set the five switches on the MCU-200S unit to their middle position.

4. Move switch up towards **(AWB)** and at the same time also press the **shutter select** button in. Hold both in place.

5. Turn on the MCU-200S power.

6. MCU-200S LED display will show "**L-x.x**", and the PC will find MCU-200S by USB 2.0.

7. Open "**MCU-200S_U1**" disk on PC.

8. Delete the **bootcode.bin** file in "**MCU-200S_U1**" disk.

9. Copy new **xxxxxxxxx.bin** file to the "**MCU-200S_U1**" disk. Do not worry about the new file name, the MCU-200S will amend the file name automatically after reboot.

10. Reboot MCU-200S.

Note: It is best to update the firmware of the *AD-1S* unit(s) at the same time as the *MCU-200S*.

5.2 How to update the AD-1S firmware

1. Connect AD-1S to the PC via a USB cable (USB A Type – Micro USB)
2. Power on PC
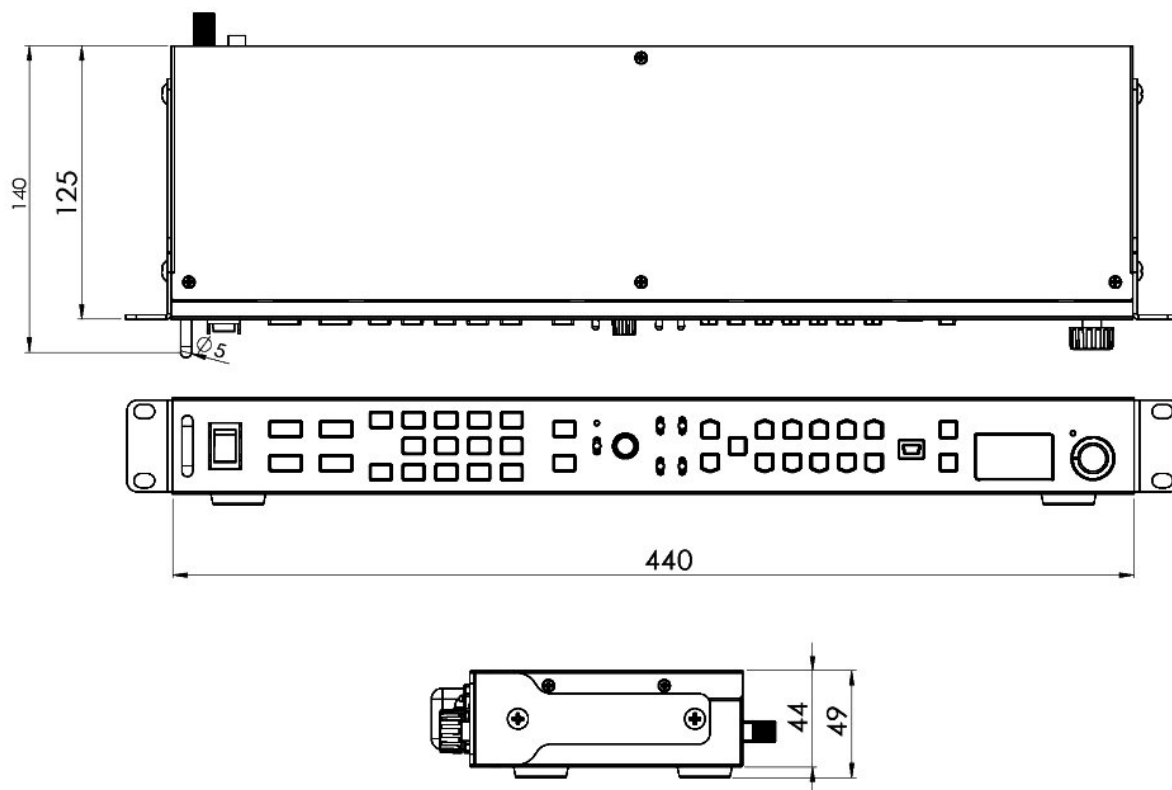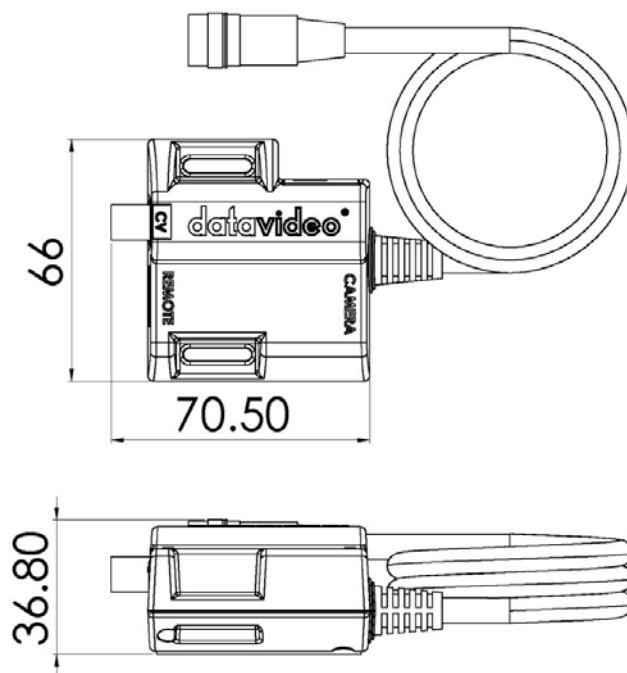3. Copy the firmware binary file to AD-1S from the PC.

Note:
1: It is best to update the firmware of the *AD-1S* unit(s) at the same time as the *MCU-200S*.
2: Please use win7 or earlier operating system.

6. Dimensions

MCU-200S

AD-1S

All measurements in millimeters (mm)

7. Specifications

Model Name	MCU-200P
Product Name	Multi-Camera Control Unit
Input / Output Interface	RJ45 x 4 CV x 4
Camera Adapter	AD-1P
Remote Control Interface	Ethernet
Number of Cameras Controlled	4
Maximum Transmission Distance	Up to 300m (CAT-5 or CAT6)
Supported Functions	Record and Playback Camera User Memory Functions Camera OSD Menu Navigation Shutter Speed and Degree Functions Iris Adjustment AWB & ABB Functions White Balance A / B and Preset Functions Camera Knee & Bars Functions Camera Gain Adjustment RGB Black Level / R&B Gain and Master Pedestal Controls
Compatible Camera Models	AG-HPX255, AG-HPX300, AG-HPX301, AG-HPX302, AG-HPX304, AG-HPX370, AG-HPX370P, AG-HPX371, AG-HPX372, AG-HPX500, AG-HPX502, AG-HPX600, AG-HPX600P, AJ-HDX900, AJ-HPX2700, AJ-HPX2700G, AJ-HPX3000, AJ-HPX2000*, AG-HPX380, AG-HPX3100, AJ-PX800G, AJ-PX500, AG-HPX393
Power Supply	DC 12V
Dimensions	440mm(W) x 49mm(H) x 140mm (D)

Service & Support

It is our goal to make owning and using Datavideo products a satisfying experience. Our support staff is available to assist you to set up and operate your system. Contact your local office for specific support requests. Plus, please visit www.datavideo.com to access our FAQ section.

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Jul-18.2017