

**MULTI-CAMERA
CONTROL UNIT
MCU-100P**

Instruction Manual

Table of Contents

FCC COMPLIANCE STATEMENT	3
WARNINGS AND PRECAUTIONS	3
WARRANTY	4
STANDARD WARRANTY	4
THREE YEAR WARRANTY	4
DISPOSAL	4
1. INTRODUCTION	5
1.1 FEATURES	5
1.2 COMPATIBLE PANASONIC CAMERA MODELS*	5
2. SYSTEM DIAGRAM	7
3. CONNECTIONS AND CONTROLS	8
3.1 I/O PANEL CONNECTORS	8
<i>Adapter Box (AD-1P).....</i>	<i>9</i>
3.2 CONTROL KEYBOARD.....	11
<i>Keyboard Control Guide.....</i>	<i>11</i>
<i>Seven Segment Display and LED Indicators.....</i>	<i>16</i>
<i>Operation Modes – LOCK and NORMAL.....</i>	<i>16</i>
4. CAMERA SETUPS.....	17
4.1 HOW TO COPY SETTINGS SET BY MCU-100P FROM ONE CAMERA TO ANOTHER.....	17
4.2 HOW TO STORE / RECALL SETTINGS FROM INTERNAL MEMORY MU-1, MU-2 OR MU-3.....	17
4.3 HOW TO SAVE / LOAD THE CAMCORDER SETTINGS TO / FROM A PC.....	18
5. FIRMWARE UPDATE PROCEDURE	19
5.1 HOW TO UPDATE THE MCU-100P FIRMWARE.	19
5.2 HOW TO UPDATE THE AD-1P FIRMWARE	19
6. DIMENSIONS	20
7. SPECIFICATIONS	21
SERVICE & SUPPORT	22

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

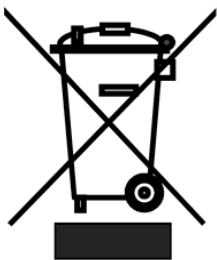
- Datavideo equipment are guaranteed against any manufacturing defects for one year from the date of purchase.
- The original purchase invoice or other documentary evidence should be supplied at the time of any request for repair under warranty.
- The product warranty period begins on the purchase date. 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 Européenne" 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-100P is a multiple camera controller designed for controlling Panasonic camcorders. Its useful and user-friendly design allows you to connect a maximum of 4 Panasonic camcorders through the Ethernet cables and an adapter box. Major functions of several Panasonic camcorders can be easily operated and controlled using the MCU-100P at up to 300m away from the controller unit.

The Datavideo MCU-100P Controller is capable of remotely configuring Panasonic P2 Camcorders such as the AG-HPX255, AG-HPX371 or AG-HPX600 from an OB Van. The MCU-100P can connect up to four Panasonic cameras allowing settings from one camera to be quickly aligned with other cameras. With features similar to the Panasonic AG-EC4G Extension Control Unit, the MCU-100P 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-100P control unit.

That's Datavideo; sharing the value!

1.1 Features

- Four RJ-45 Ethernet ports allow remote setup of up to four Panasonic 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 Panasonic Camera Models*

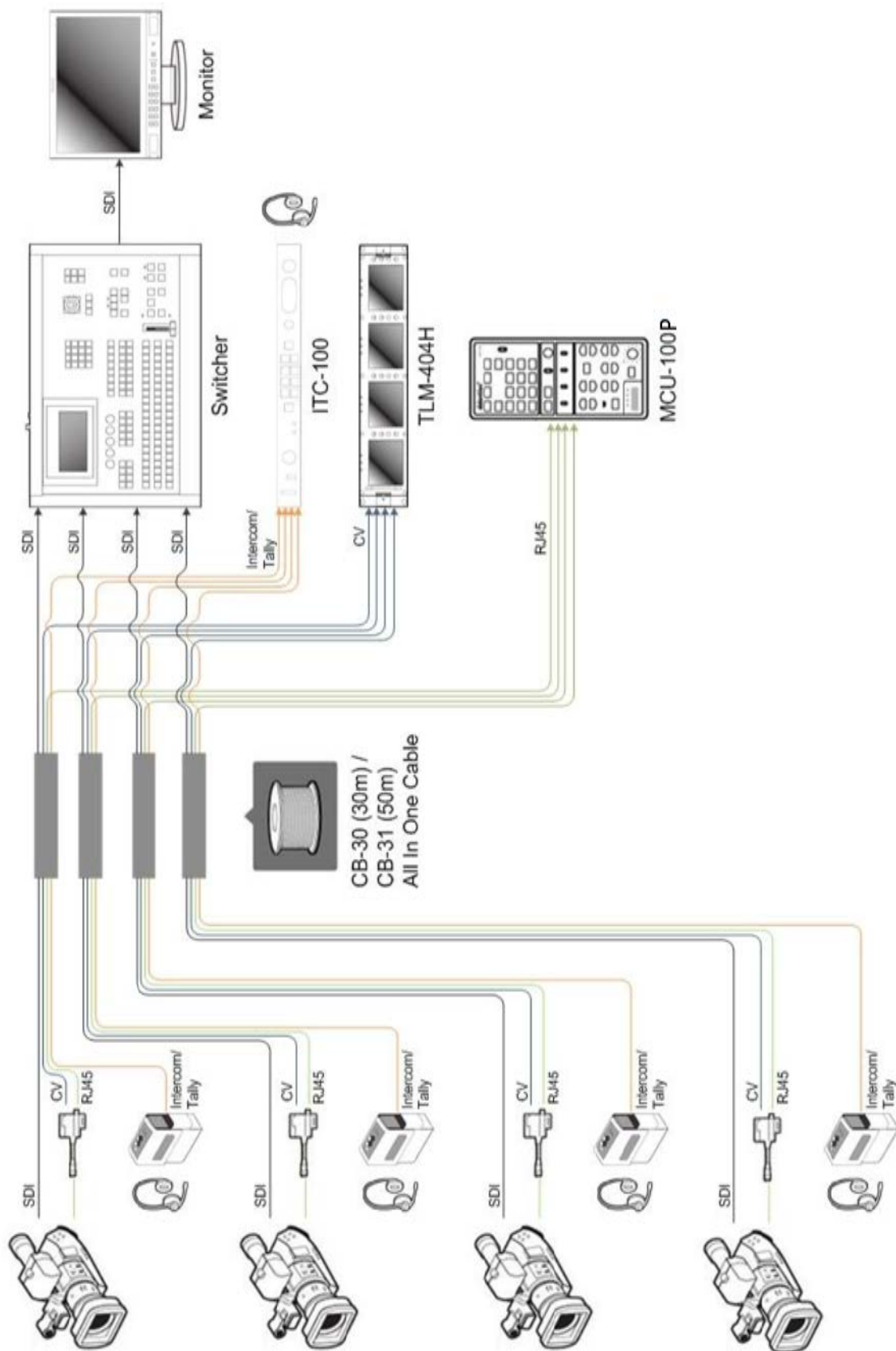
- AG-HPX255
- AG-HPX300
- AG-HPX301
- AG-HPX302
- AG-HPX304
- AG-HPX370
- AG-HPX370P
- AG-HPX371
- AG-HPX372
- AG-HPX500
- AG-HPX502

- AG-HPX600
- AG-HPX600P
- AJ-HDX900
- AJ-HPX2700
- AJ-HPX2700G
- AJ-HPX3000
- AJ-HPX2000**
- AG-HPX380
- AG-HPX3100
- AJ-PX800G
- AJ-PX500
- AG-HPX393

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

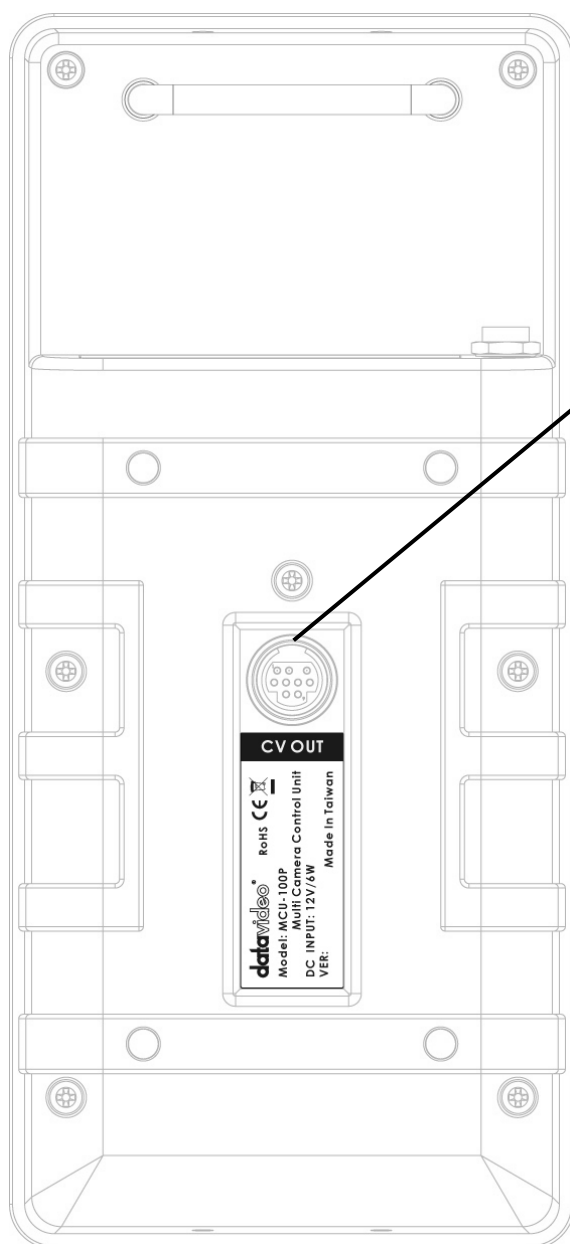
****Note:** Datavideo has tested and found the above Panasonic cameras to be compatible with the MCU-100P unit. However, due to the differences between individual Panasonic camera models some features or settings may be limited. In most cases the same limitation also applies to the Panasonic AG-EC4G unit.

2. System Diagram



3. Connections and Controls

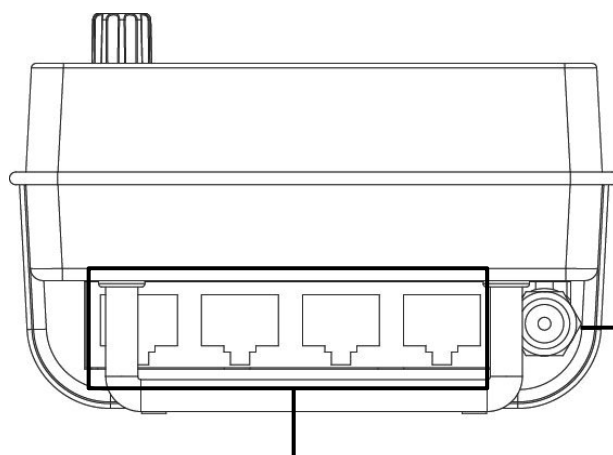
3.1 I/O Panel Connectors



This 9 pin Mini Din port can be used for confidence and composition monitoring and in some cases to view the camera's own LCD/OSD menus.

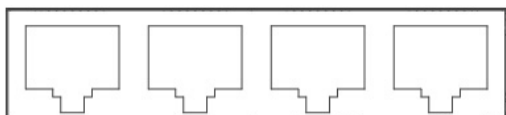
To use this feature, please connect the Mini-Din end of the CB-40 cable (1 Mini Din to 4 CV Out) to this port.

CB-40 is an optional accessory.



12V DC Input

Remote Control
RJ-45 Interface



Remote Control

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



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.

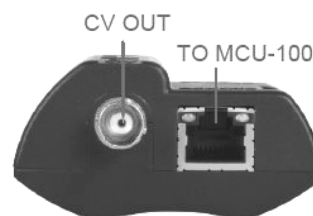
Adapter Box (AD-1P)

The adapter box acts as an interface between the MCU-100P and Panasonic cameras or camcorders. One side of the box connects to the MCU-100P via an Ethernet cable and the other side connects to Panasonic cameras or camcorders via a Panasonic CAM/BS cable. Users are allowed to use an Ethernet cable that runs 300 meters to connect the MCU-100P to this adapter box which in turn connects a Panasonic camera.

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



F/W Upgrade



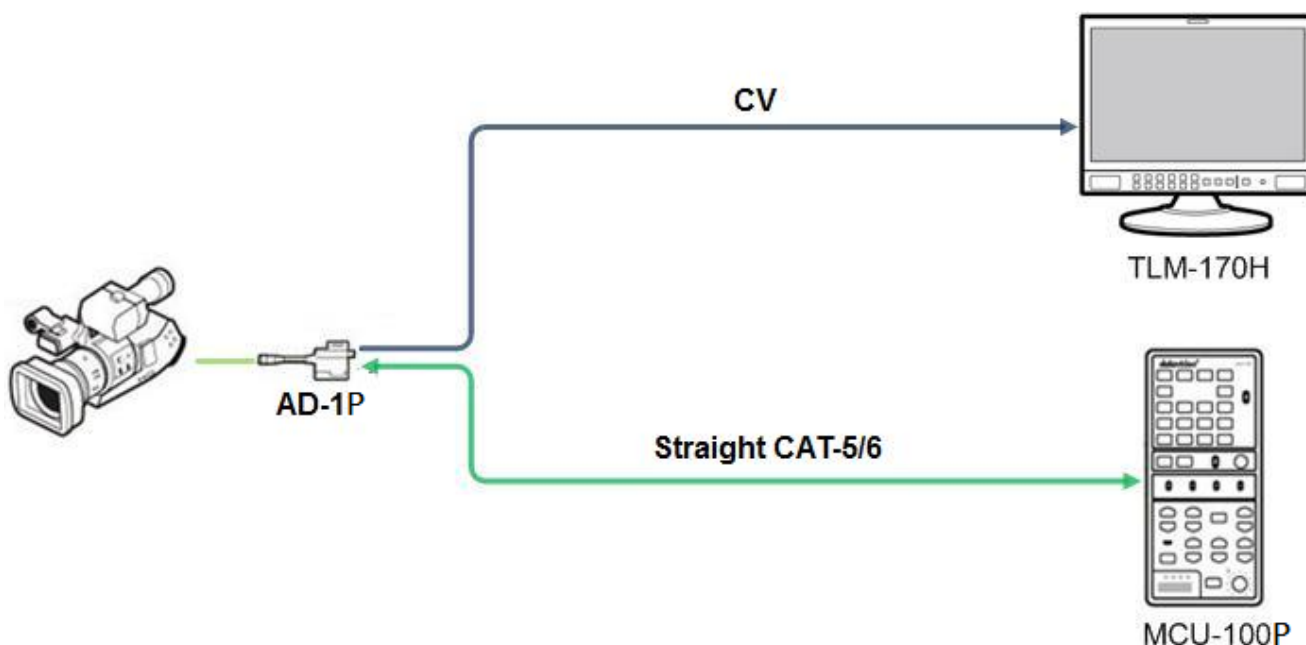
This unit allows you to operate the functions of the camera up to 300m away with the MCU-100P unit.

The AD-1P adaptor connects the MCU-100P via RJ-45 Ethernet cabling to the chosen Panasonic camera. This adaptor changes the Ethernet connection to a Panasonic CAM/BS cable run with a multi-pin connector.

NOTE: Be very careful with the Panasonic CAM/BS cable connector which plugs into the remote socket of the Panasonic 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-1P connected, the menu and other functions of the Panasonic camera may be limited to remote control only. To regain manual control of the menu functions at the camera first disconnect the AD-1P.

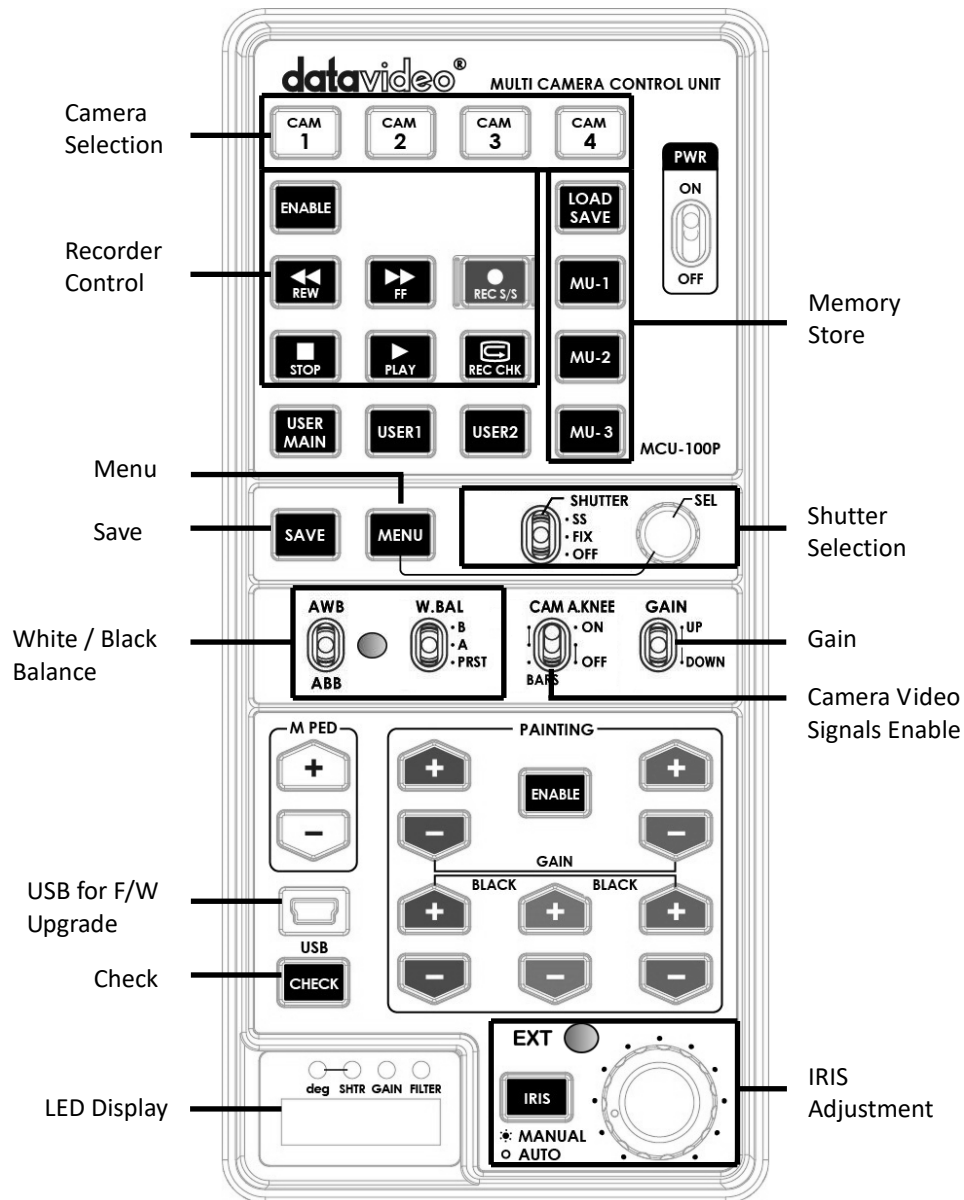
The AD-1P also features a BNC type Composite (CV) output which can be taken to an SD monitor on or near the camera. This Composite output can be used for confidence and composition monitoring and in some cases to view the camera's own LCD/OSD menus too. ***Please note this feature is camera model and firmware dependant.***



Each AD-1P 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 Control Keyboard



Keyboard Control Guide



Power switch

Use this switch to power the MCU-100P On or Off.



Camera selection

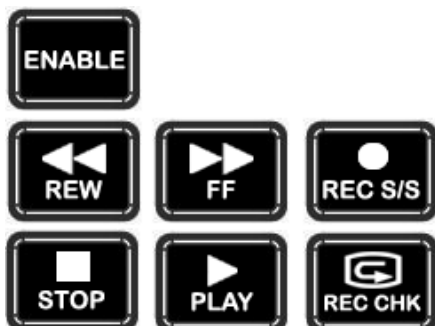
Select the button for the camera that you wish to control.



Memory stores

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

MU-1, MU-2 and MU-3 can be used to store settings within the MCU-100P.



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 CHK].

REC CHK 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.



User defined functions from the Camera

These buttons match the user defined functions of the **USER MAIN**, **USER1** and **USER2** buttons on the chosen camera. Operation will follow the function that was assigned by the user in the chosen cameras OSD menu.

NOTE: USER 2 buttons will work as a thumbnail ON switch for the AG-HP255 and AG-HPX371. MENU button is back lit orange at this time.



Data save – save defined functions from the camera

When this function is enabled, the button is back lit orange and the MCU-100P settings are stored into the chosen camera.

If this function is disabled - the button is back lit green; any chosen MCU-100P settings will not be stored in the chosen camera. The current camera/MCU-100P settings will be reset to defaults when the power of the unit or the camera is turned off.



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-1P'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.



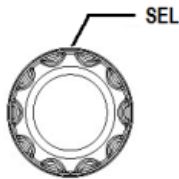
Shutter switch

To change operation of the shutter.

OFF : To turn off the shutter operation.

FIX : To turn on fixed shutter mode.

SS : To turn on synchro scan mode.

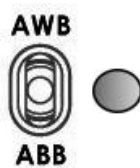


SEL - Select dial

The select dial is used for two functions, to navigate the menus or to control the shutter speed.

When the MENU button is active and back lit orange. The select dial is turned to navigate through the camera's menu options. Pressing in the same dial, like a button, confirms the current selection or value shown.

When the MENU button is NOT active and back lit green. The select dial can be turned to adjust the SHUTTER speed of the camera.



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.



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 allocate the MANUAL KNEE and DRS functions via the menu settings on the camera.



GAIN switch

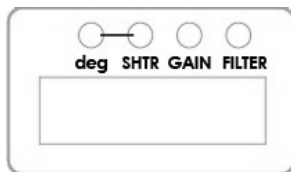
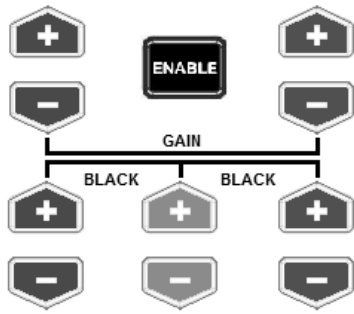
Allows selection of the video amplifier's gain depending on the lighting conditions that are present in the camera's location.

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



Master Pedestal Control

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



Enable & Painting Adjustment buttons

Press the ENABLE button in the **Painting area** of the MCU-100P before choosing to adjust either the level of the Red and Blue Gain or the RGB Pedestal values.

Mini B USB 2.0 port

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

See [Firmware Update](#) section for firmware upgrade details. See [Section 4](#) for saving/transferring settings with a computer.

CHECK / Lock

GAIN value, SHUTTER speed, and 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-100P unit will switch in to **LOCK** mode.

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.

EXT LED

This LED will be ON when a lens extender is detected on the chosen camera.

IRIS control

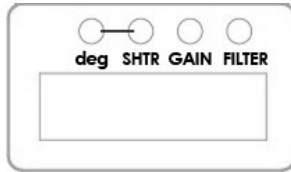
Used to adjust the Iris value. See **IRIS** and **CHECK** buttons also.

IRIS button

To enable or disable Auto Iris.

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

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-100P.

1. **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.
2. **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-100P 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 MCU-100P from one camera to another

When MCU-100P 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 or MU-3

The MCU-100P 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-100P 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-100P to a PC for later use. Also any previously saved MCU-100P settings stored on a PC can also be loaded back to the MCU-100P 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-100P unit to a PC.

1. Power off the MCU-100P unit.
2. Connect the MCU-100P unit to PC using a USB cable via the USB 2.0 (Mini B) interface.



3. Set the five switches on the MCU-100P 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-100P unit.
5. The seven segments LED Display will show “cU--”, and the PC will detect the MCU-100P unit as an external storage device named “MCU-100P_MUx”.
6. Open the “MCU-100P_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-100P unit.

To load previously saved settings on a PC to MCU-100P, repeat steps 1~5 of the above procedure and then continue with the following steps.

6. Open the “MCU-100P_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-100P_MUx” folder.

Note: Do not worry if the previously saved xxxxxxxx.bin file has been renamed on the PC. The MCU-100P 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-100P 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-100P 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.

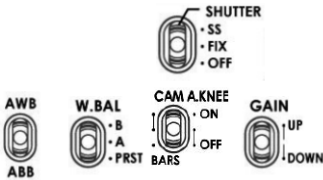
As well as a working MCU-100P you will need:


- The latest firmware update for the **AD-1P** units **and** the **MCU-100P**.
- 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-1P** unit(s) at the same time as the **MCU-100P**.

5.1 How to update the MCU-100P firmware.

1. Turn off the MCU-100P device power.
2. Connect the MCU-100P to the PC via a USB cable.

3. Set the five switches  on the MCU-100P to their middle position.

4. Move  switch up towards (**AWB**) and at the same time also press the **shutter select** button. Hold both in place.
5. Turn on the MCU-100P power.
6. MCU-100P LED display will show “L-x.x”, and the PC will find MCU-100P by USB 2.0.
7. Open “**MCU-100P_U1**” disk on PC.
8. Delete the **bootcode.bin** file in “**MCU-100P_U1**” disk.
9. Copy new **xxxxxxxxx.bin** file to the “**MCU-100PU1**” disk. Do not worry about the new file name; the MCU-100P will amend the file name automatically after reboot.
10. Reboot MCU-100P.

5.2 How to update the AD-1P firmware

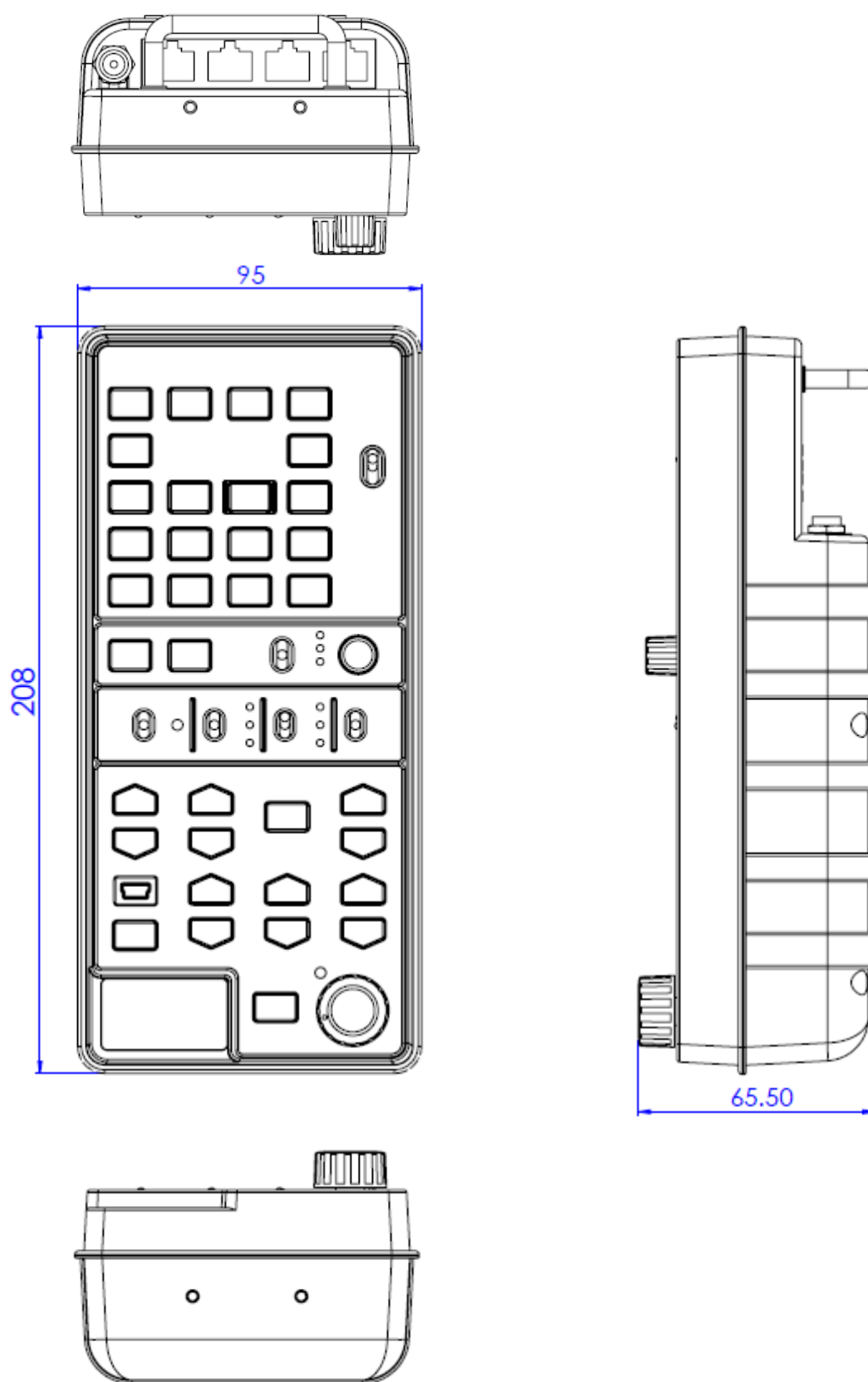
1. Connect AD-1P to the PC via a USB cable (USB A Type – Micro USB)
2. Power on PC
3. Copy the firmware binary file to AD-1P from the PC.



Note:

- 1: It is best to update the firmware of the **AD-1P** unit(s) at the same time as the **MCU-100P**.
- 2: Please use win7 or earlier operating system.
- 3: **AD-1** and **AD-1P** share the same firmware.

6. Dimensions



All measurements in millimeters (mm)

7. Specifications

Model Name	MCU-100P
Product Name	Multi-Camera Control Unit
Input / Output Interface	RJ45 x 4 CV x 1
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 / 0.5A
Power Consumption	6 W
Dimensions	95mm (W) x 208mm (H) x 65.5mm (D)
Weight	350g

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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