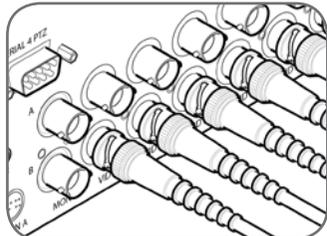


Quick Start Guide

The following Quick Start Guide will help guide you through the initial installation, configuration and operation of the unit.

Use this document in conjunction with the relevant Installation & Operation Guide. This is located on the Product CD supplied with the unit and can also be found on the Dedicated Micros website (dedicatedmicros.com).

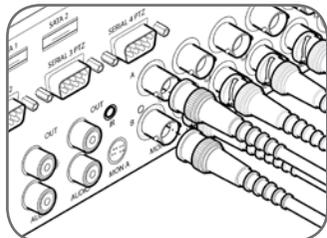
Installing The Unit



The unit supports Video Inputs via the 75Ω BNC connectors. Connect cameras to the video inputs starting from input 1.

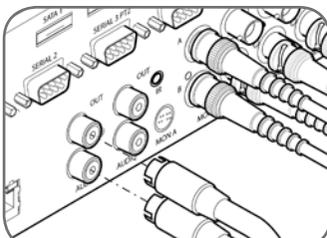
The two rows of connectors provide video input and loop-through support. For consistency, DM recommend one row is used for video inputs and the other for loop-through connections.

Note: Remember the last piece of equipment in line must be terminated.



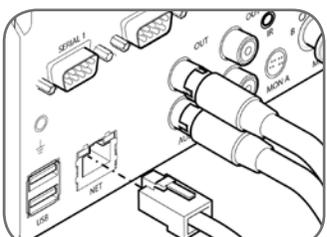
The unit supports a main monitor via BNC 'MON A' and a spot monitor via BNC 'MON B'.

Note: The DV-IP RT additionally supports a main monitor connection via the HDMI port. The DV-IP Express additionally supports a main monitor connection via the VGA port.



The unit supports two channels of bi-directional audio (accessible through NetVu ObserVer). Connect the audio equipment to the phono sockets AUDIO IN and AUDIO OUT. The audio channel defaults to record camera channel 1.

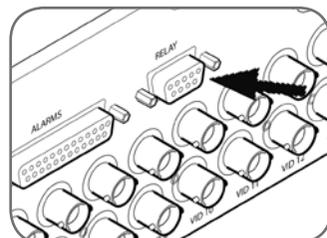
Note: The DV-IP RT additionally supports real time audio per camera channel.



The unit supports a 10/100Mbps auto-detecting network port. Use a CAT5 cable to connect the unit to the network. By default the unit is configured for DHCP (where the unit is automatically allocated an IP address from the network DHCP server).

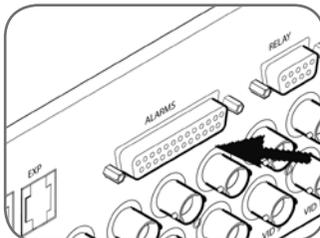
The DNS (Dynamic Name Servers) function is also supported.

Note: The DV-IP RT additionally supports a 1Gb Network Connection (via port 'NET 1'). Use 'NET 2' for 10/100Mbps connections.



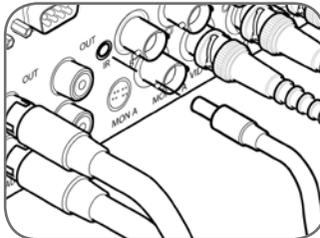
The unit supports up to four 24V 200mA relays.

Pins	Connection
1 / 6	Relay 1 signal
2 / 7	Relay 2 signal
3 / 8	Relay 3 signal
4 / 9	Relay 4 signal

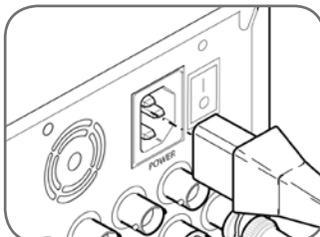


The unit supports 20 normally open/closed tamper proof alarm inputs, or one Global keyswitch input with camera specific inputs configurable as entry/exit alarms. The alarms support tamper proof detection using 1k in line and 5K end of line resistance.

Pin	Alarm Input Connection
1 - 20	1-20
21-25	Earth Common



Connect the IR Remote Control Extender to the IR Input socket. This must be connected to successfully use the IR Remote Control.



The unit has an internal power supply unit. Connect the mains lead to the unit and then to the wall socket, or to a fused spur connection. Check local regulations before installation. Some countries require an Alarm/Security device be connected to a fused spur and not a wall outlet socket.

Accessing The Configuration Menus

The unit can be configured either on the local monitor or over the network using a PC with Internet Explorer or similar browser. Both interfaces are near identical.

Accessing the Configuration menus on a local monitor

The Configuration pages can be displayed on the local monitor by pressing the MENU button on the IR Remote Control.

Note: If the IR Remote Control does not open the menu, press the DVR button to make sure it is in DVR mode, then press the MENU button.

Accessing the Configuration menus via a PC web browser

The IP address of the unit is required to access the webpages. The DHCP assigned address can be identified via the local menu pages. Using the local monitor, press the MENU button on the IR Remote Control and navigate to the System menu. The DHCP IP address will be displayed. A fixed IP address can be assigned via the Network menu.

To access the unit via DNS, the default address will be:

<machine serial number>.<yourdomain>.com

The <machine serial number> is displayed on the underside of the unit (and on the System menu page)

<yourdomain> relates to the name assigned to your DNS network.

The default DNS address can be renamed via the Network menu.

1. Launch Internet Explorer (or other web browser package).
2. Type the URL for the unit.
3. The opening menu page will be displayed.

Navigating The Configuration Menus



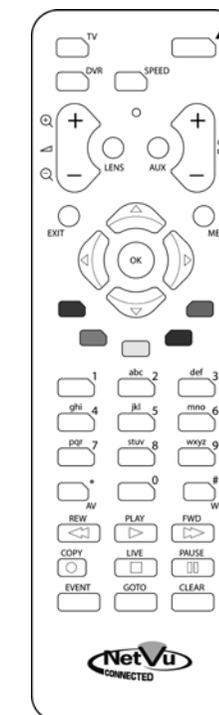
When accessing the Configuration menus, the menu tree will be displayed. Relevant menus can be accessed directly via the coloured softkey options shown at the base of each menu. The options available will depend on the menu being viewed. Select a softkey option by pressing either the corresponding button on the IR Remote Control (if viewing the menus locally), or by selecting the relevant option via the mouse (if viewing the webpages).

Note: Any changes are automatically saved when the page is closed. To 'manually' save changes, select the Save option.

Softkey Guidance

The IR Remote Control and optional Keyboard have a common user interface. In addition to the direct action keys (rewind, fast forward etc.) there are coloured Softkeys that are context sensitive and enable rapid access to required functions.

To bring up context sensitive Softkey functions at any time, press any of the coloured keys on the IR Remote Control or Keyboard.



Using the IR Remote Control

The IR Remote Control offers all the control functionality required to navigate the Configuration and Viewer menus.

Press the MENU button to access configuration menus via a connected local monitor. The menu will have a red indicator highlighting the first option. Select a main menu heading to open a drop down list of further sub-options. Press the Down Directional button to highlight the next menu option, press OK to open the highlighted menu.

Press the Right Directional button to highlight the first editable parameter on the screen.

Use the Left/Right/Up/Down Directional buttons to move between fields.

Select OK to start editing a field (the option will be outlined in green).

Use the Up/Down Directional buttons to change the settings within an editable field.

Numeric fields can be edited with the Directional buttons. Use the Up/Down Directional buttons to increase/decrease by an increment of 1, use the Left/Right Directional buttons to increase/decrease by an increment of 10.

Use the OK button to accept a new setting. Use the coloured softkeys to select the accompanying colour option on screen. To undo changes made to any menu, select the Refresh (Purple) option.

Quick Start Guide

Virtual Keyboard

If numeric or text data requires entry when viewing menus on a local monitor, an on-screen virtual keyboard (the Arrow Key Editor) will be displayed. Use the Directional buttons on the IR Remote Control to move between characters. Use the OK button to select a character. To enter details and then exit the Virtual Keyboard, select the OK option. Select Submit to enter details and return to the Virtual Keyboard. Select Cancel to exit the Virtual Keyboard without entering any text.

Operating The Viewer

Select the 'Go To Viewer' option to open the Viewer menus.



Navigation is via a colour coded softkey system. The coloured menu provides an intuitive approach to operator and installer use. The coloured buttons on the IR Remote Control correspond to the menu options displayed on screen.

The function of the buttons will change according to whether the unit is in Live or Playback mode.

Video Timeline

The Video Timeline allows intuitive, rapid navigation within recorded video. To aid navigation, the timeline can be set to display periods ranging from 15 seconds to four weeks. The timeline can be clicked anywhere in the scale to instantly play recorded images from that point.



Using the optional Keyboards (DM/KBC1 & DM/KBC2)

The unit can also be controlled using an optional Dedicated Micros keyboard. This is connected via the KBD connector on the rear of the unit and provides the same control functions as the IR Remote Control.

The following keyboards are supported:

DM/KBC1



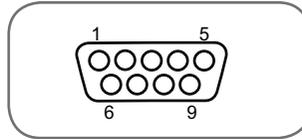
DM/KBC2



Alarm & Relay Pin Connections

Using Serial Ports

It is possible to connect a variety of telemetry cameras to the unit. Use the following table as a guide to the serial port connections.



RS485 Connectivity

(2 wire) (Serial 3, 4)

Pin	Description
1	RS485 + (A)
9	RS485 - (B)
5	Shield (GND)

RS232 Connectivity

(Serial 1, 2)

Pin	Description	Desc
1	Data Carrier Detect	DCD
2	Receive Data	RX
3	Transmit Data	TX
4	Data Terminal Ready	DTR
5	Ground	GND
6	Data Set Ready	DSR
7	Ready to Send	RTS
8	Clear to Send	CTS
9	Ring Indicate	RI

RS232 Connectivity

(Serial 3, 4)

Pin	Description	Desc
2	Receive Data	RX
3	Transmit Data	TX
5	Ground	GND
7	Ready to Send	RTS
8	Clear to Send	CTS

Connecting Storage Devices

Images are recorded to the internal hard disk for instant playback and searching by the operator. The capacity of the internal disk effects the amount of images and time period that can be recorded.

The internal hard disk is a temporary storage device as images are overwritten after a set period.

If images need to be held for a longer time period, external storage is required. The SATA ports on the rear of the unit are used to connect to external storage devices. The unit can support multiple external hard disks. To maintain an effective SATA link, the length of all cabling from the unit to the connected device should not exceed two metres.

The unit's operating system will continue to utilise the internal hard disks if the external hard drive encounters a problem.

Dedicated Micros Managed Storage Expansion units

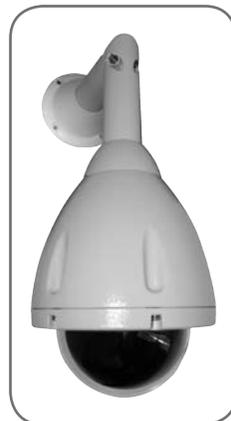
A DM Managed Storage Expansion unit is connected via the SATA port. A Managed Storage Expansion unit provides high capacity, environmentally managed storage in a single box. Disk temperature is maintained at a constant level and the disk management system ensures only disks in operation are spun. Both of these features help extend drive life.

For further information regarding the DM Managed Storage Expansion unit, please contact Dedicated Micros technical support team.

Connecting A Dedicated Micros Oracle Dome

A DM Oracle Dome can be connected via either co-axial telemetry or RS485 twisted pair. Oracle Domes are configured using the specific pages available in the Configuration menus, refer to 'Oracle Dome Configuration' in the Installation & Operation Guide for more information.

The DM Oracle Dome has three address switches, refer to the Oracle Dome documentation for more information on hardware configuration.



UTC

Red	-	1
Blue	-	N/R
Yellow	-	N/R

Serial

Red	-	2
Blue	-	Camera Number
Yellow	-	Camera Number

Checking the contents of the box

Remove all items from the packaging and check the items listed below are present:

- DV-IP DVR
- IR Remote Control
- IR Remote Control Extender
- USB Mouse
- Power Leads
- Rack mounting brackets
- Serial 9-pin D-type cable
- 2 x RS485 interface modules
- Software disc
- Installation & Operation Guide
- Quickstart Guide

If any of these items are missing, please contact Dedicated Micros Technical Support team.

Note: Before installing the unit, carefully read all Safety Instructions and information on where the unit should be located.