

CES2 & CES/T LANC Remote Controls



Drivedata CES Remote controls are designed for use in extreme sports to control camcorders and solid state DVRs which utilise the popular LANC control interface.

The CES2 is a push-button device and the CES/T is fitted with a toggle switch. Both can be used to power off and on the recorder and start/stop record. Both types are built to be water and dust proof and can be used for outdoor sports.

Various models are available depending on the type of recorder you have and whether you are recording through the built-in lens or using an external 'bullet' camera. Please consult the product section of our website if you are unsure which model you have.

The feedback LED indicator shows the camera status and even tells you when it's time to replace the tape/memory card or recharge the battery.

Optional 35cm, 100cm and 200cm extension cables are available from Drivedata should you wish to extend the remote control further from the recorder.

Installation

IMPORTANT! Make sure your recorder is turned off before plugging in the remote control. As a precaution, never connect or disconnect it from the recorder whilst in operation.

Turn OFF the recorder. Insert the LANC connector in the LANC socket on the recorder. (Consult your manual if you are unsure where this socket is located)

Place the control unit where you can reach it and also see the indicator light. Fasten securely with tape or Velcro. Ensure that the cable is well protected and securely attached.

Operation – CES/T (toggle switch type)



Recording (Camera & Player /VCR Mode)

◆ Ensure the CES/T switch is in the OFF position (away from the indicator LED). Depending on the model, turn on the camcorder by either setting the mode switch to 'CAMERA' or 'PLAYER/VCR' or just turning the power switch on in the case of most DVRs.

◆ Switch the remote control ON (towards the LED indicator). The recorder will power up and start recording. The indicator light will change to a steady red light when it is recording and there are no warning conditions.

Please note: with some recorders (DVD recorders and solid state DVRs in particular) there will be a delay of up to 20 seconds while the recorder powers up and initialises. During this period, the status light may flash green/red in different sequences but just ignore these signals and wait until the light is a steady red which means it is recording. If the LED does not change to steady red after 30 seconds or does not light at all, flick the switch up and down again to reset the remote and it should then work.

To stop recording & power off

- ◆ Switch remote control OFF (away from the LED indicator). The camcorder will stop recording and power down completely. The indicator light will go out.

Playback on camcorders

You will need to turn the camcorder's power switch to off and remove the LANC plug from the camcorder in order to operate the camcorder in playback mode.

Operation – CES2 (push button type)



The CES2 can be configured to operate in one of 3 modes, depending on whether you are using a camcorder in camera mode, or an external bullet camera using the VCR/Player setting. If you don't know which mode you should select, try them all until you find the one that works for your particular setup.

- ◆ To power on recorder: Hold down the button until LED lights **GREEN**. The recorder power switch should be switched to the ON position before using the remote to power up the recorder.
- ◆ To power off: Hold down the button for at least 2 seconds and the LED **FLASHES RED**. Release the control switch and the recorder will power down. In this state, the recorder will be consuming virtually no battery power and can be left for several days if necessary before being 'woken up' by the remote.
- ◆ To display current mode: Power off recorder using the remote, then power on again and keep holding the button down for at least 3 seconds but less than 6 seconds until the LED **FLASHES GREEN**, then release the button and the LED will flash **RED** either 1x, 2x or 3x depending on which mode it is in. Mode 1 is the default setting.
- ◆ To change mode: Power off recorder using the remote, then power on again and keep holding the button down for at least 6 until the LED **FLASHES FAST GREEN**. Release the button and the CES2 will change to the next mode and the **RED** LED will flash the times of mode now selected.

In mode 1, the recorder will be set to 'Camera' (for recording through the lens). Mode 1 will work with any Sony V8/Hi8/DV/DVD/HDD or compatible camcorders in camera mode and the Drivedata DR2/DR3 DVRs.

In mode 2 or 3, the LANC remote control will override a camcorder's power switch and set it to VCR/PLAYER mode automatically. This is usually the correct mode to use when you have an external bullet camera connected to a camcorder.

- ◆ Recording and standby: Press the button briefly and release. Recording starts and the LED will change to **STEADY RED**. Press the button again to stop recording and standby. The LED will change to **GREEN**.

LED Status Summary

- **STEADY GREEN** indicates that the recorder is in Camera/Player/VTR mode or in stand-by and ready to record.
- **STEADY RED** indicates that the recorder is recording.
- **FAST FLASHING RED** indicates the video camera will be turned off once button is released.
- **SLOW FLASHING GREEN** indicates that the recorder is ready or in standby but has one of following problems: low battery, less than 5 minutes of tape remaining, record protected tab enabled.
- **SLOW FLASHING RED/GREEN** indicates that the recorder is recording but has one of following problems: low battery or less than 5 minutes of tape remaining.
- **SLOW FLASHING RED** indicates that the recorder is not in the right mode, not ready to start recording or no tape in the recorder.
- **FLASHING YELLOW** indicates an ERROR. Turn off the recorder and then turn on again and try again.

An optional in-line controller (Part # DCS) is available to automatically switch the bullet camera power off with either type of CES remote control. Please visit our website for further information.

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