

**BLACK BOX
VIDEO**



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TIME CODE SELF POWERED RECEIVER 434.075 MHz

Stock Codes 121

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**CAUTION
READ
INSTRUCTIONS
BEFORE USE**

DESCRIPTION AND INSTRUCTIONS

DESCRIPTION



This system is designed to transmit time code from a camera to a recorder using a reliable and robust UHF link, operating at 434.075 MHz.

The Transmitter is DTI approved and does not require a licence.

- ◆ Small, light Receiver module (built into diecast box), powered by MN1604 with long battery life, or via a 4 pin Hirose socket (with automatic switching)
- ◆ Sunlight-visible battery indicator blue LED
- ◆ Sunlight-visible "carrier being received" red LED
- ◆ Data output on BNC socket on the side of the unit
- ◆ Virtually immune to interference from nearby frequencies (such as TETRA, cranes, etc)

INSTRUCTIONS FOR USE

Connect the supplied aerial to the **top** BNC socket on the Receiver module and connect the time code output to the BNC socket on the **side** of the Receiver.

Switch on the Receiver with the top mounted toggle switch and the blue LED should light showing the unit is on and the battery is OK. The LED should light bright blue, if it is dim or out replace the MN1604 battery by sliding it out from the battery box. The Receiver can also be powered from the Hirose socket on the side of the unit with a 12V supply. The unit automatically switches to external supply when applied. There is no need to remove the battery.

Connect an aerial to the Transmitter's BNC socket on top of the blue anodised case. Connect a BNC lead from camera Time Code out to the input BNC (male) socket on the Transmitter.

INSTRUCTIONS FOR USE, continued

Connect a 4 pin Hirose lead from 12V power out on the camera to one of the Hirose sockets on the Transmitter (the two sockets are identical, and either one can be used for either power in or power out). The blue LED on the Transmitter should light brightly.

Mount the Transmitter wherever convenient (using the supplied Velcro strips if necessary).

The red carrier detect LED on the Receiver should now be lit showing that the Transmitter's carrier is being detected and that the Receiver is in range. The brightness of the red LED gives an indication of received signal strength. The unit may still work even with the red LED out, but you would be right up against the maximum range.

Receiver Battery Life

The Receiver battery is usable down to 6.5V at which point the blue battery indicator LED will have gone out. As a rough guide the LED is bright at 9V, medium at 8V, dim at 7V and out at 6.5V. Current consumption is about 20mA so expect around 30 hours from an MN1604 or 100 from an Ultralife.

Time Code Output Level

The time code output level from the Receiver is set at 3.8V peak to peak which will suit most applications, but this is adjustable internally from 0V to 4.5V by the horizontally mounted blue pre-set 2.2k trimmer near the battery compartment.

Aerials

A stubby UHF aerial is supplied with each unit. Additional long and short aerials are available at £20 each.

SPECIFICATIONS

Operating voltage	10 to 16 V Externally / 7 to 9 V Internally
Current consumption	~25 mA
Minimum battery voltage	6.5 V
Sensitivity	- 117 dBm
Time code level out adjustable internally	0 - 4.5V
Output impedance	1000 ohms
Height	30 mm
Length	120 mm
Width	60 mm
Weight	223 grms

**Time Code Self Powered (Standard)
Receiver**

Stock Code 121

£195